



03-15-2024 to 08-20-2024

US & Canada

# Public Space Building Product Manual

New Build

StudioRes Gen 1

(SR) Make It Your Own

**STUDIORES**

GLOBAL DESIGN | STRATEGIES

# Table of Contents

## PREAMBLE

### AE - Automatic Entrance Doors

|              |  |
|--------------|--|
| DR-005-A1-HA | The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All compone...<br>Horton Automatics  |
| DR-005-BE    | The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All compone...<br>Besam (Assa Abloy) |
| DR-005-HA    | The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All compone...<br>Horton Automatics  |

### ALB - Architectural Lighting - Box Light

|            |   |
|------------|---|
| ALB-019-CL | 1x4 Recessed Flat Panel<br>Cooper/Metalux |
|------------|---|

### ALJ - Strip Light / Tape Light

|            |   |
|------------|---|
| ALJ-048-CL | 2' undercabinet strip light w/switch<br>Cooper/Halo |
|------------|---|

### ALR - Recessed Linear

|            |  |
|------------|--|
| ALR-029-CL | Recessed Direct Mount 4" downlight with matte white reflector and flange, diffuse lens. Wet Location.<br>Cooper Lighting |
| ALR-029-SI | 5" Downlight Recessed<br>Signify/Lightolier  |
| ALR-030-CL | Downlight 8" Aperture - Surface Mount<br>Cooper/Halo   |
| ALR-030-SI | Downlight 7" Aperture - Surface Mount<br>Signify/Lightolier  |

### ALX - Exit / Emergency Lighting

|               |   |
|---------------|---|
| ALX-002-CL R1 | Die Cast Aluminum Emergency Exit light sign with Battery Backup and Self Diagnostics<br>Cooper Lighting |
| ALX-002-SI    | Die Cast Aluminum Emergency Exit light sign with Battery Backup<br>Signify/Chloride                     |
| ALX-004-CL R1 | 2 Head emergency battery - white. For use with ALX-002 fixture.<br>Cooper Lighting                      |
| ALX-004-SI    | Dual Head Egress Fixture. For use with ALX-002 fixture.<br>Signify/Chloride                             |

### AS - Aluminum Storefront

|           |  |
|-----------|--|
| AS-001-KA | Interior and Exterior Aluminum Storefront Framing, Doors, Door Frames, Lights, and Fixed Windows.<br>Kawneer |
|-----------|--|

### CGR - Wall and Corner Guards

|             |   |
|-------------|---|
| CGR-001-IP  | Rigid Vinyl Corner Guard, 90 Degrees<br>IPC   |
| CGR-003-IP  | Rigid Vinyl Corner Guard, 90 Degrees<br>IPC   |
| CGR-004-SCH | Heavy-Duty Stainless Steel Corner Guards<br>Schluter Systems  |
| CGR-005-IP  | The 2600 Chair Rail provides a narrow profile with 3" height for targeted wall protection against areas where chairs ...<br>Inpro Corporation |

#### CO - Concrete

|           |   |
|-----------|---|
| CO-001-BF | Clear, Waterborne, Curing and Sealing Compound<br>BASF - Construction Systems |
|-----------|---|

#### CT - Countertops

|           |                                   |
|-----------|-----------------------------------|
| CT-003-BS | Window Sills<br>Belstone Products |
|-----------|-----------------------------------|

#### DFR - Doors and Frames

|            |   |
|------------|---|
| DFR-002-GS | Pre-finished interior door frames, square profile.<br>GenFrame™ Series   Gensteel Doors |
| DFR-002-SC | Standard double rabbet hollow metal frame with welded corners<br>Steelcraft / Allegion  |

#### DH - Assembly, Door Hardware

|      |                       |
|------|-----------------------|
| T-10 | VARIOUS MANUFACTURERS |
|------|-----------------------|

|            |  |
|------------|--|
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware         |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage                             |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)                          |
| DH-029-YA  | Assa Abloy - Yale Locks & Hardware   |
| DH-029-CLR | A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA)<br>Cal-Royal Door Hardware |
| DH-032-PK  | Adhesive Gasket/ Hospitality Products<br>Assa Abloy - Pemko                          |
| DH-034-YA  | 4400 Series Door Closer<br>Assa Abloy - Yale Locks & Hardware                        |
| DH-034-CLR | CAL-ROYAL  |
| DH-081-YA  | Dummy Trim Free-Wheeling<br>Assa Abloy - Yale Locks & Hardware                       |
| DH-081-CLR | Cal-Royal Door Hardware  |

|      |                       |
|------|-----------------------|
| T-15 | VARIOUS MANUFACTURERS |
|------|-----------------------|

|            |   |
|------------|---|
| DH-054-AI  | Analog 3-Channel Master Station with Selective Door Release<br>Airphone   |
| DH-060-SA  | Stand-alone remote RFID reader to control electronic access control devices in perimeter areas, common areas, and res...<br>dormakaba                   |
| DH-089-DCI | The DCI PS17 is a power limited power supply that will convert 115VAC/60Hz input into two individually PTC protected ...<br>Door Controls International |

|            |   |
|------------|---|
| T-17       | VARIOUS MANUFACTURERS   |
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware  |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage  |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)   |
| DH-032-PK  | Adhesive Gasket/ Hospitality Products<br>Assa Abloy - Pemko   |
| DH-034-CLR | CAL-ROYAL   |
| DH-034-YA  | 4400 Series Door Closer<br>Assa Abloy - Yale Locks & Hardware   |
| DH-050-SA  | Electronic mortise lockset with 1" (25.4mm) and 5/8" (15.9mm) dead-locking latch bolt (LESS DEADBOLT)<br>Saflok/dormakaba |
| T-23       | VARIOUS MANUFACTURERS   |
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware  |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage  |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)   |
| DH-010-CLR | Non Clutch Mechanism Cylindrical Leverset<br>Cal-Royal Door Hardware  |
| DH-010-YA  | Privacy Lever Set<br>Schlage  |
| DH-032-PK  | Adhesive Gasket/ Hospitality Products<br>Assa Abloy - Pemko   |
| DH-034-CLR | CAL-ROYAL   |
| DH-034-YA  | 4400 Series Door Closer<br>Assa Abloy - Yale Locks & Hardware   |
| DH-037-CLR | Indicator Deadbolts<br>Cal-Royal Door Hardware  |
| DH-037-YA  | D100 Series Indicator x Thumbturn<br>Assa Abloy - Yale Locks & Hardware   |
| T-24       | VARIOUS MANUFACTURERS   |
| DH-050-SA  | Electronic mortise lockset with 1" (25.4mm) and 5/8" (15.9mm) dead-locking latch bolt (LESS DEADBOLT)<br>Saflok/dormakaba |
| T-31B      | VARIOUS MANUFACTURERS   |
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware  |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage  |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)   |
| DH-030-BRN | .050 Thick, Metal - ANSI Standard Duty Over 24" High<br>BURNS Manufacturing (Hardware)                                    |
| DH-032-PK  | Adhesive Gasket/ Hospitality Products<br>Assa Abloy - Pemko   |
| DH-042-YA  | 3501 Door Closer<br>Assa Abloy - Yale Locks & Hardware  |

|            |   |
|------------|---|
| DH-042-CLR | Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards GRADE 1 Heavy-Duty Full Featur...<br>Cal-Royal Door Hardware |
| DH-050-SA  | Electronic mortise lockset with 1" (25.4mm) and 5/8" (15.9mm) dead-locking latch bolt (LESS DEADBOLT)<br>Saflok/dormakaba                           |
| DH-086-CLR | Cal-Royal Door Hardware   |
| T-33B      | VARIOUS MANUFACTURERS   |
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware  |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage  |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)   |
| DH-029-CLR | A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA)<br>Cal-Royal Door Hardware  |
| DH-029-YA  | Assa Abloy - Yale Locks & Hardware  |
| DH-032-PK  | Adhesive Gasket/ Hospitality Products<br>Assa Abloy - Pemko   |
| DH-042-YA  | 3501 Door Closer<br>Assa Abloy - Yale Locks & Hardware  |
| DH-042-CLR | Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards GRADE 1 Heavy-Duty Full Featur...<br>Cal-Royal Door Hardware |
| DH-081-YA  | Dummy Trim Free-Wheeling<br>Assa Abloy - Yale Locks & Hardware  |
| DH-081-CLR | Cal-Royal Door Hardware   |
| DH-084-CLR | Magnetic Door Holder<br>Cal-Royal Door Hardware   |
| DH-084-RX  | Electromagnetic Door Holder/ Releases<br>Assa Abloy - Rixson  |
| T-35       | VARIOUS MANUFACTURERS   |
| DH-001-MK  | MacPro Five Knuckle Standard Weight Series<br>Assa Abloy - McKinney Hardware  |
| DH-001-CLR | Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge<br>Schlage  |
| DH-003-YA  | Entry Door Closer<br>ASSA ABLOY/Yale  |
| DH-003-CLR | Door Closer<br>Cal-Royal Door Hardware  |
| DH-004-BU  | Wrought Concave Wall Stop<br>BURNS Manufacturing (Hardware)   |
| DH-024-YA  | 4600LN Series<br>Assa Abloy - Yale Locks & Hardware   |
| DH-024-CLR | Cal-Royal SL30 Passage Lever Set<br>CAL-ROYAL   |

## DR - Doors

|            |   |
|------------|---|
| DFR-001-TI | Pre-finished interior door frames, square profile.<br>Timely Industries, Inc. |
| DR-001-KA  | Exit Door, Fitness Center<br>Kawneer  |

|            |   |
|------------|---|
| DR-002-CD  | Flush Door with Fully Finished High Density (HDF) Fiberboard<br>Collegewood.com |
| DR-004-RDF | Flush, fire and/or temperature-rise-rated<br>Republic Doors and Frames          |
| DR-004-SC  | Flush, fire and/or temperature-rise-rated<br>Steelcraft                         |
| DR-006-GS  | Fire Stair and BOH Doors<br>GenFrame™ Series   Gensteel Doors                   |
| DR-006-SC  | Fire Stair & BOH Doors<br>Steelcraft  |

#### EL - Receptacles and Switches

|            |  |
|------------|--|
| EL-001-LM  | Rocker style light switches<br>Leviton   |
| EL-002-LM  | Rocker style light switches<br>Leviton   |
| EL-003-FBO | 2 Hour UL Fire Rates 4" Round Poke Thru Core Drill Flush Floor Box<br>Floor Box Outlet |

#### ELK - Cubbies / Lockers

|             |   |
|-------------|---|
| ELK-001-PP  | Three tier units with full perimeter concealed ventilation system. Refer to Design Guideline Drawings for quantity.<br>Penco Storage            |
| ELK-001-RSP | Three tier units with full perimeter concealed ventilation system. Refer to Design Guideline Drawings for quantity.<br>Republic Storage Systems |

#### EM - Entry-Walk Off

|           |                               |
|-----------|-------------------------------|
| EM-001-MC | Entry Mat<br>Mohawk Group     |
| EM-001-SC | Walk off Mat<br>Shaw Contract |

#### EQE - Elevators

|            |                            |
|------------|----------------------------|
| EQE-001-OT | Gen3 Core<br>Otis Elevator |
|------------|----------------------------|

#### EQE - Assembly, Elevators

|             |   |
|-------------|---|
| EQE-001-SEC | 3300 MRL Traction Elevator<br>Schindler Elevators |
|-------------|---|

#### ERA - Miscellaneous Appliances & Electronics

|            |           |
|------------|-----------|
| ERA-002-AB | ABSOCOLD  |
| ERA-007-WP | Whirlpool |
| ERA-008-WP | Whirlpool |

#### FC - Floor Sealants and Coatings

|           |   |
|-----------|---|
| FC-001-SW | 100% acrylic, low odor, waterborne floor coating.<br>Sherwin Williams |
|-----------|---|

#### FE - Fire Extinguishers and Cabinets

**GL - Glass**

ACR-001-FO Acrylic for Wall Partition Millwork  
3form

**ML - Assembly, Millwork**

ML-001 Check-In Desk - Plastic Laminate Clad Custom Millwork consisting of cabinets and countertops.  
VARIOUS MANUFACTURERS

RB-002-SC 4" Cove Base 168CA  
Shaw Contract

RB-002-MC 4" Vinyl Cove .080" Gauge - CVW05  
Mohawk Group

LA-005-PNL Thermally Fused Melamine  
Refer to Design Guide Project Manual Master for Specifications

LA-006-FM Millwork Laminate  
Formica Group North America

CT-001-WIL Public Space Countertop  
Wilsonart Laminate & Countertops

WF-001-SW Wood Stain for Millwork  
Wood Stain Colors - Minwax Stain Colors & Wood Finish Guide | Minwax

SF-001-AMP Guest Safe Deposit Boxes without envelope slot  
Amphion, a Division of Executive Safe and Security Corporation

SF-001-AMP-A1 Guest Safe Deposit Boxes with envelope slot  
Amphion, a Division of Executive Safe and Security Corporation

DR-007-OD 652 Locking Metal Curtain Rolling Counter Door  
Overhead Door

WP-006-SS Surfacing Solution

ML-002 Hydration Station - Plastic Laminate Clad Custom Millwork consisting of cabinets, shelves and countertops.  
VARIOUS MANUFACTURERS

CT-002-WIL Back of House Countertop  
Wilsonart Laminate & Countertops

ERA-006-NE Newco Enterprises, Inc.

LA-001-PNL Millwork Laminate  
Panolam Surface Systems

LA-003-PNL Thermally Fused Melamine  
Panolam Surface Systems

PL-812-MOC Hydration Station Ice Maker and Water Dispenser  
Manitowoc Ice, Inc.

MH-001-RK Rakks Shelving

MH-002-DM Doug Mockett & Company

LA-006-FM Millwork Laminate  
Formica Group North America

ML-006 Breakroom Cabinetry - Plastic Laminate Clad Custom Millwork consisting of cabinets, shelves and countertops.  
VARIOUS MANUFACTURERS

ALJ-048-SI 2' Undercabinet Strip w/Switch (connecting accessories available for connecting fixtures, see spec sheet)  
Signify/Daybrite

LA-002-PNL Millwork Laminate  
Panolam Surface Systems

CT-002-WIL Back of House Countertop  
Wilsonart Laminate & Countertops

**MR - Mirrors**

MR-001 Polished Glass Mirror, frame less  
Acceptable Glazing Manufacturer

**MT - Miscellaneous Metal**

MT-001 GC TO SOURCE

**PL - Assembly, Plumbing**

SNK-004 VARIOUS MANUFACTURERS

PL-103-PF 20 x 19 in. Rectangular Wall Mount Bathroom Sink  
R1 Ferguson

PL-202-PF Lubec Sensor Bathroom Sink Faucet  
R1 Ferguson

PL-802-PF PROFLO® 100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome  
R1 PROFLO

PL-808-PF PROFLO  
R1

SNK-004OPT VARIOUS MANUFACTURERS

PL-104-FE WALL MOUNTED LAVATORY - DUAL OPTION  
Scarabeo

PL-202-PF Lubec Sensor Bathroom Sink Faucet  
R1 Ferguson

PL-802-PF PROFLO® 100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome  
R1 PROFLO

PL-808-PF PROFLO  
R1

SNK-005 VARIOUS MANUFACTURERS

PL-102-PF Plomosa 23" Undermount Single Basin Stainless Steel Kitchen Sink  
R1 PROFLO

PL-203-PF Single Handle Kitchen Faucet  
R1 Ferguson

PL-802-PF PROFLO® 100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome  
R1 PROFLO

PL-807-FE Basket Strainers Stainless Steel  
R1 Ferguson

SNK-006 VARIOUS MANUFACTURERS

PL-105-PF PROFLO® PFMB Series 24 x 24 in. Mop Basin in White with PVC Strainer  
R1 PROFLO

PL-205-PF Non-Potable 9.3 gpm 8 in. Centerset Two Handle Wall Mount Service Sink in Polished Chrome  
R1 PROFLO

PL-803-PF Shower Drain  
R1 Ferguson

PL-809-PF Single Hose Bracket For Service Sink Black  
R1 Ferguson

PL-810-PF Eterna 5/8 x 30 in. Hose in Chrome  
R1 PROFLO

PL-811-PF 24 In. Stainless Steel Wall Guard Set  
R1 PROFLO

WCL-002

VARIOUS MANUFACTURERS

PL-303-PF

PROFLO GPF Toilet Bowl Only - Hand Lever  
PROFLO

PL-304-PF

Elongated Open Front Commercial Toilet Seat with Cover in White  
ProFLo

PL-305-SL

Regal® XL 111 1.28 gpf Diaphragm Manual Closet Flush Valve  
Sloan

WCR-02

VARIOUS MANUFACTURERS

PL-813-HW  
R1

Touch-free electric sensor water dispenser With carbon block filter with lifecycle control  
Haws

#### PTC - Ceiling Paints

PTC-001-SW

INTERIOR CEILING PAINT  
Sherwin-Williams

PTC-003-SW

Sherwin-Williams

#### PTW - Wall Paints

PTW-001-SW

INTERIOR WALL PAINT  
Sherwin-Williams

PTW-005-SW

Door + Door Frame Paint  
Sherwin-Williams

PTW-006-SW

INTERIOR WALL PAINT  
Sherwin-Williams

PTW-007-SW

INTERIOR WALL PAINT  
Sherwin-Williams

PTW-008-SW

INTERIOR WALL PAINT  
Sherwin-Williams

PTW-009-SW

Interior Gypsum Board Wall Paint  
Sherwin Williams

PTW-010-SW

Interior Gypsum Board Wall Primer  
Sherwin Williams

#### RF - Resilient Flooring

RF-001-MC

Back of House Flooring  
Mohawk Group

RF-001-SC

Resilient Flooring  
Shaw Contract

RF-002-MC

Stair Treads and Risers  
Mohawk Group

RF-002-SC

Stair Riser and Treads  
Shaw Contract

#### SF - Registration Equipment (Safes)

SF-002-DBX

Wall-Mount Drop Box W500  
Durabox

#### TA - Assembly, Toilet Accessories

LAUNDRY

VARIOUS MANUFACTURERS

TA-900-BW

Bobrick

|           |  |
|-----------|--|
| TA-01     | VARIOUS MANUFACTURERS  |
| TA-104-FE | 18 in. Grab Bar in Polished Stainless<br>ProFlo  |
| TA-105-FE | Stainless Steel Grab Bar<br>Proflo   |
| TA-106-FE | 42" Stainless Steel Grab Bar<br>Proflo   |
| TA-201-BW | Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper ...<br>Bobrick Washroom Equipment |
| TA-400-SH | Berwyn Robe Hook<br>Signature Hardware   |
| TA-400-BW | Bobrick  |
| TA-402-BW | Mirror with stainless steel frame.<br>Bobrick Washroom Equipment   |
| TA-800-KK | Koala Kare Baby Changing Stations  |
| TA-801-BW | Contura series surface mounted sanitary napkin disposal<br>Bobrick Washroom Equipment, Inc.  |
| TA-802-BW | Contura Series Recessed Paper Towel Dispenser and Waste Receptacle<br>Bobrick Washroom Equipment, Inc.   |
| TA-803-BW | 40 Oz Classic Series Surface Mounted Soap Dispenser<br>Bobrick   |
| TA-02     | VARIOUS MANUFACTURERS  |
| TA-104-FE | 18 in. Grab Bar in Polished Stainless<br>ProFlo  |
| TA-105-FE | Stainless Steel Grab Bar<br>Proflo   |
| TA-106-FE | 42" Stainless Steel Grab Bar<br>Proflo   |
| TA-201-BW | Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper ...<br>Bobrick Washroom Equipment |
| TA-400-SH | Berwyn Robe Hook<br>Signature Hardware   |
| TA-801-BW | Contura series surface mounted sanitary napkin disposal<br>Bobrick Washroom Equipment, Inc.  |
| TA-804-BW | ConturaSeries surface mounted seat cover dispenser<br>Bobrick Washroom Equipment, Inc.   |
| TA-03     | VARIOUS MANUFACTURERS  |
| TA-201-BW | Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper ...<br>Bobrick Washroom Equipment |
| TA-400-SH | Berwyn Robe Hook<br>Signature Hardware   |
| TA-400-BW | Bobrick  |
| TA-801-BW | Contura series surface mounted sanitary napkin disposal<br>Bobrick Washroom Equipment, Inc.  |
| TA-804-BW | ConturaSeries surface mounted seat cover dispenser<br>Bobrick Washroom Equipment, Inc.   |
| TA-04     | VARIOUS MANUFACTURERS  |

|           |  |
|-----------|--|
| TA-402-BW | Mirror with stainless steel frame.<br>Bobrick Washroom Equipment                                       |
| TA-802-BW | Contura Series Recessed Paper Towel Dispenser and Waste Receptacle<br>Bobrick Washroom Equipment, Inc. |
| TA-803-BW | 40 Oz Classic Series Surface Mounted Soap Dispenser<br>Bobrick   |

#### TA - Miscellaneous Washroom Accessories

|           |         |
|-----------|---------|
| TA-807-BW | Bobrick |
|-----------|---------|

#### TC - Tile Ceiling

|            |                                |
|------------|--------------------------------|
| TC-002-USG | Acoustical Ceiling Tile<br>USG |
|------------|--------------------------------|

#### TS - Transitions Strips

|                      |   |
|----------------------|---|
| TS-001-SCH <b>R1</b> | Transitions from LVT to Tile and from finished concrete to Tile<br>Schluter Systems |
| TS-002-SCH           | Finishing edge-protection profile, metal tile trim.<br>Schluter Systems             |
| TS-003-SCH <b>R1</b> | Metal Edge Trim<br>Schluter Systems   |

#### WP - Wall Panels

|           |   |
|-----------|---|
| WP-002-ML | FRP Panels<br>Marlite                                       |
| WP-004-ML | Standard FRP Wall Protection Panels<br>Marlite Wall Systems |
| WP-005-ML | TBD   |

# PREAMBLE

## Instruction For Use of Documentation

The total required information provided to design and build a StudioRes by Marriott is contained in the criteria documents identified below which relay standardized public space, guestrooms, guestroom corridors, and back of house and building site + exterior. **UNKNOWN** is the decor package for the Public Space and Guestrooms.

Comprehensive Criteria Documents for StudioRes by Marriott are:

1. Design Standards
2. Design Guideline Drawings
3. Heart of House Guideline
4. Specifications as indicated below:
  - A. Building Product Manual (BPM)
    - Volume 1 - Building Site + Exterior
    - Volume 2 - Public Space**
    - Volume 3 - Guestrooms
    - Volume 4 - Guest Laundry Equipment
  - B. Exterior Signage Specifications
  - C. Interior Signage Specifications
  - D. Interior Design Specification Manual

Alternate Sources of Information:

1. Change Bulletins
2. Additional Tools

Description Follows:

1. Design Standards provide a written macro view of the overall requirements for a StudioRes by Marriott.
2. The Design Guideline Drawings - provide more specific design direction via drawings to supplement the Design Standards.
3. The Interior Décor Spec Manual lists items required that are generally referred to as Furniture, Fixture, & Equipment or FF&E items. These items and the accepted suppliers listed, have been contracted by Marriott and can be supplied through Marriott's procurement division.
4. The Building Product Manual (BPM) includes the "guest-facing" building products (typically installed and supplied by the General Contractor) and all finishes required for the interior and exterior of the building. Marriott requires that all building products and finishes be provided by acceptable manufacturers. This document must be used in conjunction with the drawings for the contractor supplied items as specific dimensions and criteria are referenced in both documents. Because of the high quality of design expected for a StudioRes by Marriott, Marriott has specified acceptable suppliers who have worked closely with Marriott on the initial StudioRes design. All of these documents are integral elements of the complete design and construction information. The project architect is responsible for incorporating all components of the criteria documents in the development of any StudioRes by Marriott project.

## Use of Drawings

Building Product Manual (BPM) mark numbers and Interior Décor Specification Manual x-ref numbers are shown on the Design Guideline Drawings as a base number only. Refer to the BPM and Interior Decor Specification Manual for mark numbers and x-ref numbers plus a suffix for product and FFE alternates and additional acceptable manufacturers.

\* In the BPM acceptable manufacturers of same material/product are indicated by a suffix of "XX", the abbreviation of the manufacturer's name. (i.e. PL-101-MO for MOEN or PL-101-KO for Kohler). If there are multiple manufacturers, and the item looks very similar, and its only difference is a matter of style, then it is considered a variation of manufacturer and not an alternate and would receive the mfr. suffix.

\* In the BPM alternate materials/products/designs are indicated by a suffix of "A1", "A2", "A3", etc. indicating "alternate", following the base number (i.e. PL-101-A1). When only one manufacturer is listed, no manufacturer initials are indicated before the alternate suffix.

## General Compliance Requirements

The Owner's/ Franchisee's Consulting Design Professional shall be responsible for verifying and complying with all applicable laws, covenants, codes, ordinances, rules, regulations, restrictions, etc. The Design Professional shall pay close attention to the requirements of the federal accessibility law, Americans with Disability Act (ADA), local and state accessibility regulations, and the applicable fire, life safety requirements. It is also the responsibility of each hotel owner to ensure that all products have been adjusted in dimension, quantity and hand suit the specific site conditions.

## GENERAL NOTES

1. All images, photographs, renderings of specified items contained in this specification package area for general design intent and reference only.
2. Refer to the preamble for terms, conditions, abbreviations, definitions, responsibilities, and general guidelines for all specified items.
3. Refer to drawings for exact locations and/or mounting heights of furniture, fixtures, and equipment. In the event of a discrepancy between drawings and specifications, please contact Marriott International immediately for written clarification.
4. Submittal of shop drawings & finish samples to Marriott International for review and written approval is required for any item supplied by a vendor other than the specified source.
5. Design Documentation firm to verify that all flammability requirements are met for property location. The requirements noted within this specification are general and local flammability may be more stringent.
6. Install all products and finishes per manufacturer's recommendations.
7. Final quantity of items to be based on final plans, room quantity, and final matrix.

## Plumbing Fixture and Residential Appliances - General Notes

1. All plumbing fixtures and residential appliances to be of contract quality and suitable for commercial use.
2. Site measurements required.

## ABBREVIATIONS

### General Schedule Abbreviations:

|       |  |
|-------|--|
| ADA   | Americans with Disabilities Act                |
| AFF   | Above Finish Floor                             |
| ASTM  | American Society of Testing Materials          |
| AWI   | American Woodworking Institute                 |
| CEF   | Corridors, Elevators, and Foyers               |
| CF/CI | Contractor Furnished/ Contractor Installed     |
| COM   | Customer's Own Material                        |
| GC    | General Contractor                             |
| GR    | Guest Room                                     |
| GRB   | Guest Room Bath                                |
| LY    | Lineal Yard                                    |
| MF/MI | Manufacturer Furnished/ Manufacturer Installed |
| N/A   | Not Applicable                                 |

|       |   |
|-------|---|
| NFPA  | National Fire Protection Association    |
| NY    | Narrow Yards                            |
| OF/CI | Owner Furnished/ Contractor Installed   |
| OF/MI | Owner Furnished/ Manufacturer Installed |
| OF/OI | Owner Furnished/ Owner Installed        |
| RFP   | Request for Proposal                    |
| SF    | Square Feet                             |
| SY    | Square Yard                             |
| UL    | Underwriters Laboratory                 |

## A. Toilet Accessory Abbreviations:

For your use in utilizing the Toilet Accessories within the Building Product Manuals, the following information is supplied:

1. The Assembly is the type of restroom or bathroom. The Assembly is not recognized by a number.
2. Within each assembly, mark numbers are assigned to each component within the assembly. The component contains 2 characters or prefix 'TA' for Toilet Accessory Commodity. The first character of the 3 character suffix categorizes each toilet accessory commodity component, then is numbered sequentially."

- 100 – Grab Bars
- 200 – Toilet Tissue / Facial Tissue
- 300 – Glass Shelf / Iron Board Caddy
- 400 – Towel Bar / Towel Ring / Robe Hook
- 500 – Soap Dish / Shampoo Dispenser / Shower Accessory Ledge / Shower Foot Rest
- 600 – Shower Curtain Rod / Glass Shower (components)
- 700 – Shower Seat / Tub Seat
- 800 – Public Restroom (Feminine Napkin Dispenser / Paper Towel Dispenser / Receptacle / Soap Dispenser / Seat Cover)
- 900 – Miscellaneous

## B. Plumbing Fixture Abbreviations:

For your use in utilizing the Plumbing Fixtures within the Building Product Manuals, the following information is supplied:

The Assembly No. contains 3 characters or prefix to define the type of assembly. The 2 character suffix is numerically sequential. Example TUB-01.

- TUB - Tub
- WHL - Whirlpool
- SHR - Shower
- SNK - Sink
- SVS - Service Sink
- WCL - Water Closet
- URN - Urinal
- WCR - Water Cooler" "EWS - Eye Wash
- MOP - Mop Sink
- CLO - Cleanout
- FLD - Floor Drain
- FSK - Floor Sink
- LIT - Lint Interceptor
- HYD - Hydrant
- RDR - Roof Drain

Mark numbers are assigned to each component within the assembly. The component contains 2 characters or prefix 'PL' for Plumbing Commodity.

The first character of the 3 character suffix categorizes each plumbing commodity component, then is numbered sequentially. Example PL-101, PL-102, etc.

- 100 – Sinks & Mop Sinks
- 200 – Faucets
- 300 – Toilets / Urinal / Water Cooler
- 400 – Shower Heads
- 500 – Shower Diverters
- 600 – Shower Surrounds / Shower Pans / Base / Tub
- 700 – Shower Doors
- 800 – Fittings
- 900 – Miscellaneous (Floor Drains, Clean Outs)

## C. Door Hardware Abbreviations:

For your use in utilizing the Door Hardware within the Building Product Manuals, the following information is supplied:

The Assembly No. or Door Hardware Type No. contains 1 character or prefix "T". The 2 character suffix is numerically sequential. Example T-01.

Within each assembly, mark numbers are assigned to each component within the assembly. The component contains 2 characters or prefix 'DH' for Door Hardware Commodity. The 3 character suffix is numbered sequentially. Example DH-001, DH-002, etc.

### BPM (Building Product Manual) Number Nomenclature

*(items are numbered with the item prefix and then consecutive numbers starting with 001 - "Mark Number" unless indicated otherwise)*

#### Openings

|               |        |
|---------------|--------|
| Door          | DR-XXX |
| Door Frames   | DF-XXX |
| Door Hardware | DH-XXX |

#### Equipment

|                        |         |
|------------------------|---------|
| Residential Appliances | RA-XXX  |
| Food Service Equipment | EQF-XXX |
| Laundry Equipment      | EQD-XXX |

#### Electrical

|                        |        |
|------------------------|--------|
| Receptacles + Switches | EL-XXX |
|------------------------|--------|

#### Millwork

|                   |        |
|-------------------|--------|
| Millwork          | ML-XXX |
| Plastic Laminate  | LM-XXX |
| Millwork Hardware | MH-XXX |
| Countertops       | CT-XXX |

#### Architectural Lighting

|                                       |         |
|---------------------------------------|---------|
| Controls                              | ALC-XXX |
| Box Light                             | ALB-XXX |
| Track Light & Parts                   | ALT-XXX |
| Exit Lighting                         | ALX-XXX |
| Recessed                              | ALR-XXX |
| Specialty                             | ALO-XXX |
| Strip Lighting                        | ALJ-XXX |
| Exterior Lighting (touching building) | ALY-XXX |

Exterior Lighting (not touching building) ALZ-XXX

Toilet Accessories TA-XXX

100 - Grab bars

200 - Toilet tissue/ facial tissue

300 - Glass Shelf/ Iron Board Caddy

400 - Towel bar/ Towel Ring/ Robe Hook

500 - Soap Dish/ Shampoo Dispenser/ Shower Accessory Ledge/ Shower Foot Rest

600 - Shower Curtain Rod/ Glass Shower (components)

700 - Shower Seat/ Tub Seat

800 - Public Restroom (Feminine Napkin Dispenser, Paper Towel Dispenser/ Receptacle, Soap Dispenser, Seat Cover)

900 - Misc.

Plumbing Fixtures PL-XXX

100 - Sink/ Mop Sink

200 - Faucets

300 - Toilets/ Urinal/ Water Cooler

400 - Shower Heads

500 - Shower Diverters

600 - Shower surrounds/pans/base/tub

700 - Shower doors

800 - Fittings

900 - Misc. (floor drains, clean outs)

Interior Finishes

Ceiling Panel CP-XXX

Concrete CO-XXX

Corner Guards CGR-XXX

Entrance Mat EM-XXX

Floor Coatings FC-XXX

Glass GL-XXX

Glass Film GF-XXX

Grout GR-XXX

Interior Plants IP-XXX

Metal MT-XXX

Metal Railing MTR-XXX

Mirror MR-XXX

Paint - Ceiling PTC-XXX

Paint - Walls PTW-XXX

Protective Wallcovering PW-XXX

Resilient Base RB-XXX

Resilient Flooring RF-XXX

Surface Panel SP-XXX

Stone ST-XXX

Thresholds TH-XXX

Tile Base TB-XXX

Tile Ceiling TC-XXX

Tile Floor TF-XXX

Tile Wall TW-XXX

Transition Strips TS-XXX

Trim TR-XXX

Underlayment UL-XXX

|                 |        |
|-----------------|--------|
| Wood            | WD-XXX |
| Wood Base       | WB-XXX |
| Wood Finish     | WF-XXX |
| Wood Panels     | WP-XXX |
| Wood Trim       | WT-XXX |
| Decorative Film | DF-XXX |

#### Exterior Finishes

|                                   |         |
|-----------------------------------|---------|
| Exterior Insulation Finish System | EEF-XXX |
| Manufactured Stone Masonry        | MSM-XXX |
| Exterior Decorative Stone         | EDS-XXX |
| Exterior Wall Panel               | EWP-XXX |
| Exterior Roofing                  | ERF-XXX |
| Exterior Coating                  | ECT-XXX |
| Exterior Fence Material           | EFM-XXX |

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AE - Automatic Entrance Doors

## AUTOMATIC ENTRANCE DOORS

### The system shall consist of sliding a...

---

Manufacturer: Horton Automatics

Style/Series: Series 2003 Belt Drive, Single-Slide - Type 310, Model SO-SX,SX-SO (Exterior) / Type 310, Model SO-SX,SX-SO with optional muntin(Interior)

### Sales Rep

---

#### Primary

##### Customer Care

Email: [hortoncustomercare@overheaddoor.com](mailto:hortoncustomercare@overheaddoor.com)

Office Phone: (800) 531-3111

### Attributes

---

The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All components shall be factory assembled in the header, adjusted and tested.

Type: Single-sliding doors

### DIMENSIONS

Dimension Explanation: Medium stile (4") with intermediate 4-inch muntin 10-inch bottom rail

### MATERIAL/FINISH

Material Composition: Aluminum, ASTM B221, 6063-T6 alloy and temper.

Color: Clear Anodized or to match Clear Anodized, refer to notes

Finish: Refer to Notes

### PERFORMANCE

Accessibility Compliance : All door openings shall comply with ADA Chapter 4 Entrances, Doors, and Gates/ANSI A117.1.

Accessories: Hardware for emergency breakaway function: Arms and bottom pivot assemblies supplied by the manufacturer, adjustable to comply with applicable codes. Electrified slide lock shall automatically lock all sliding door panels when the door panels are in the closed position. Fail-secure carriage lock. Weather-stripping shall be slide-in type, replaceable pile mohair seals retained by aluminum extrusions. Card reader (Refer to Door Hardware Schedule) will be mounted on vestibule side of interior unit. Manufacturer's standard one-piece extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Combination Activation Motion Sensor/Safety Presence Sensor. Manufacturer's standard sign: red background with 1-inch high contrasting letters with the words "IN EMERGENCY PUSH TO OPEN." Door Panels: 1/4" tempered, clear glass. Sidelite panels: 5/8" insulated. As recommended by the storefront framing manufacturer for applications indicated.



Best Practices: Recycled content of aluminum.

Operation: Electronic automatic, single-sliding directional operation.

In compliance with NFPA 101, the sliding door panels shall allow "breakout" to the full open position to provide instant egress at any point in the door's movement. Break-out feature shall comply with requirements of Authorities Having Jurisdiction. To allow safe egress, automatic operation shall be discontinued when the sliding panel is in the "breakout" mode. Doors and sidelights shall be sized to prevent pinch points at meeting stiles.

Quality Standards: ANSI/BHMA A156.10, "American National Standard for Power Operated Pedestrian Doors." UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

#### MISCELLANEOUS

Warranty: System Warranty: 2 years

Finish Warranty: Refer to Notes

#### Notes

Maintenance Period: 12 months following date of Substantial Completion.

Finish Options:

1. Powder Coat Systems:

a. Non-Florida or Non-Coastal Projects require powder coat polyester complying with AAMA 2604, 10-year warranty. Color PPG-PCTT2314 (Enviracon 4).

b. For Florida and other coastal region projects, use 100% FEVE resin powder coating complying with AAMA 2605 with 20-year warranty. Color PPG PCNT23118 (Corafon).

2. Liquid-applied systems:

a. Use 2-coat, 50% PVDF resin system complying with AAMA 2604, 10-year warranty. Color PPG-UC110423F (Acrynar).

b. For Florida and coastal regions, use 2-coat, 70% PVDF resin system complying with AAMA 2605 with 20-year warranty. Color PPG UC110423F (Durantar).

3. Anodized Finish Systems:

a. Electrolytically Deposited Anodic Coating, Class 1, Designation AAM12C21A44 conforming to AAMA 611 with 10-year warranty.

#### Special Instructions

Opening force: Sliding doors provided with a breakaway device shall require no more than 50 lbf (222N) applied 1 inch (25 mm) from the leading edge of the lock stile for the breakout panel to open

Entrapment Force Requirements: Not more than 30 lbf required to prevent stopped door from closing

Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).

Safety Search Circuitry: Shall be provided which will recycle the doors when an object is encountered during the closing cycle. The circuitry shall search for that object on the next closing cycle by reducing the door speed at the position the object was previously encountered, and will continue to close in check speed until the doors are fully closed, at which time the doors will reset to normal speed. If the obstruction is encountered again, the doors shall come to a full stop. The door shall remain stopped until the obstruction is removed and an operate signal is given, resetting the door to its

normal speed.

The doors shall be provided with a "Fail-Secure Electric Carriage Lock" in the header to prevent the doors from sliding in the night mode. This device shall not interfere with emergency breakout function.

The doorway presence-sensing device shall be the "Optional Sensor with added threshold scan" by Horton. The sensor shall be factory-installed to the underside of the header. The interior door sensing device shall be disabled (night mode) by a key switch furnished by others and installed by Door Installer/Contractor.

## AUTOMATIC ENTRANCE DOORS

### The system shall consist of sliding a...

---

Manufacturer: Besam (Assa Abloy)  
Style/Series: Unislide OHC Series, Single-Slide - Unislide OC-S  
(Exterior) / Type 310, Unislide OC-A" with Access Control Package  
(Interior)

IMAGE NOT  
AVAILABLE

### Sales Rep

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#### Primary

Chris Hobbs  
Email: chris.hobbs@assaabloy.com  
Office Phone: (443) 340-2176

### Attributes

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The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All components shall be factory assembled in the header, adjusted and tested.

Type: Single-sliding doors

### DIMENSIONS

Dimension Explanation: Medium stile (4") with intermediate 4-inch muntin 10-inch bottom rail

### MATERIAL/FINISH

Material Composition: Aluminum, ASTM B221, 6063-T6 alloy and temper.

Color: Custom color to match Aluminum Window color and as approved by the Marriott Representative

Finish: Refer to Notes

### PERFORMANCE

Accessibility Compliance : All door openings shall comply with ADA Chapter 4 Entrances, Doors, and Gates/ANSI A117.1.

Accessories: Hardware for emergency breakaway function: Arms and bottom pivot assemblies supplied by the manufacturer, adjustable to comply with applicable codes. Electrified slide lock shall automatically lock all sliding door panels when the door panels are in the closed position. Fail-secure carriage lock. Weather-stripping shall be slide-in type, replaceable pile mohair seals retained by aluminum extrusions. Card reader (Refer to Door Hardware Schedule) will be mounted on vestibule side of interior unit. Manufacturer's standard one-piece extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Combination Activation Motion Sensor/Safety Presence Sensor. Manufacturer's standard sign: red background with 1-inch high contrasting letters with the words "IN EMERGENCY PUSH TO OPEN." Door Panels: 1/4" tempered, clear glass. Sidelite panels: 5/8" insulated. As recommended by the storefront framing

manufacturer for applications indicated.

Best Practices: Recycled content of aluminum.

Operation: Electronic automatic, single-sliding directional operation.

In compliance with NFPA 101, the sliding door panels shall allow "breakout" to the full open position to provide instant egress at any point in the door's movement. Break-out feature shall comply with requirements of Authorities Having Jurisdiction. To allow safe egress, automatic operation shall be discontinued when the sliding panel is in the "breakout" mode. Doors and sidelights shall be sized to prevent pinch points at meeting stiles.

Quality Standards: ANSI/BHMA A156.10, "American National Standard for Power Operated Pedestrian Doors." UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

### MISCELLANEOUS

Warranty: System Warranty: 2 years

Finish Warranty: Refer to Notes

### Notes

Maintenance Period: 12 months following date of Substantial Completion.

Finish Options & Colors:

1. Powder Coat Systems:

a. Non-Florida or Non-Coastal Projects require powder coat polyester complying with AAMA 2604, 10-year warranty. Color PPG-PCTT2314 (Enviracon 4).

b. For Florida and other coastal region projects, use 100% FEVE resin powder coating complying with AAMA 2605 with 20-year warranty. Color PPG-PCNT88101 (Corafon).

2. Liquid-applied systems:

a. Use 2-coat, 50% PVDF resin system complying with AAMA 2604, 10-year warranty. Color PPG-UC43350 (Acrynar).

b. For Florida and coastal regions, use 2-coat, 70% PVDF resin system complying with AAMA 2605 with 20-year warranty. Color PPG-UC43350 (Duranar).

3. Anodized Finish Systems:

a. Electrolytically Deposited Anodic Coating, Class 1, Designation AAM12C21A44 conforming to AAMA 611 with 10-year warranty.

### Special Instructions

Opening force: Sliding doors provided with a breakaway device shall require no more than 50 lbf (222N) applied 1 inch (25 mm) from the leading edge of the lock stile for the breakout panel to open

Entrapment Force Requirements: Not more than 30 lbf required to prevent stopped door from closing

Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).

Safety Search Circuitry: Shall be provided which will recycle the doors when an object is encountered during the closing cycle. The circuitry shall search for that object on the next closing cycle by reducing the door speed at the position the object was previously encountered, and will continue to close in check speed until the doors are fully closed, at which time the doors will reset to normal speed. If the obstruction is encountered again, the doors shall come to a full stop. The door shall remain stopped until the obstruction is

removed and an operate signal is given, resetting the door to its normal speed.

The doors shall be provided with a "Fail-Secure Electric Carriage Lock" in the header to prevent the doors from sliding in the night mode. This device shall not interfere with emergency breakout function.

The doorway presence-sensing device shall be the BEA Wizard Threshold" by Besam. The sensor shall be factory-installed to the underside of the header. The interior door sensing device shall be disabled (night mode) by a key switch furnished by others and installed by Door Installer/Contractor.

## AUTOMATIC ENTRANCE DOORS

### The system shall consist of sliding a...

Manufacturer: Horton Automatics

Style/Series: Series 2003 Belt Drive, Single-Slide - Type 310, Model SO-SX,SX-SO (Exterior) / Type 310, Model SO-SX,SX-SO with optional muntin(Interior)

### Sales Rep

#### Primary

##### Customer Care

Email: hortoncustomercare@overheaddoor.com

Office Phone: (800) 531-3111

### Attributes

The system shall consist of sliding aluminum doors, sidelights, header, operator, and actuating controls. All components shall be factory assembled in the header, adjusted and tested.

Type: Single-sliding doors

### DIMENSIONS

Dimension Explanation: Medium stile (4") with intermediate 4-inch muntin 10-inch bottom rail

### MATERIAL/FINISH

Material Composition: Aluminum, ASTM B221, 6063-T6 alloy and temper.

Color: Black

Finish: Refer to Notes

### PERFORMANCE

Accessibility Compliance : All door openings shall comply with ADA Chapter 4 Entrances, Doors, and Gates/ANSI A117.1.

Accessories: Hardware for emergency breakaway function: Arms and bottom pivot assemblies supplied by the manufacturer, adjustable to comply with applicable codes. Electrified slide lock shall automatically lock all sliding door panels when the door panels are in the closed position. Fail-secure carriage lock. Weather-stripping shall be slide-in type, replaceable pile mohair seals retained by aluminum extrusions. Card reader (Refer to Door Hardware Schedule) will be mounted on vestibule side of interior unit. Manufacturer's standard one-piece extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Combination Activation Motion Sensor/Safety Presence Sensor. Manufacturer's standard sign: red background with 1-inch high contrasting letters with the words "IN EMERGENCY PUSH TO OPEN." Door Panels: 1/4" tempered, clear glass. Sidelite panels: 5/8" insulated. As recommended by the storefront framing manufacturer for applications indicated.



Best Practices: Recycled content of aluminum.

Operation: Electronic automatic, single-sliding directional operation.

In compliance with NFPA 101, the sliding door panels shall allow "breakout" to the full open position to provide instant egress at any point in the door's movement. Break-out feature shall comply with requirements of Authorities Having Jurisdiction. To allow safe egress, automatic operation shall be discontinued when the sliding panel is in the "breakout" mode. Doors and sidelights shall be sized to prevent pinch points at meeting stiles.

Quality Standards: ANSI/BHMA A156.10, "American National Standard for Power Operated Pedestrian Doors." UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

#### MISCELLANEOUS

Warranty: System Warranty: 2 years

Finish Warranty: Refer to Notes

#### NOTES

Maintenance Period: 12 months following date of Substantial Completion.

Finish Options & Colors: 1. Powder Coat Systems: a. Non-Florida or Non-Coastal Projects require powder coat polyester complying with AAMA 2604, 10-year warranty. Color Black (Enviracon 4). b. For Florida and other coastal region projects, use 100% FEVE resin powder coating complying with AAMA 2605 with 20-year warranty. Color PPG-PCNT98111 Black (Corafon). 2. Liquid-applied systems: a.

Use 2-coat, 50% PVDF resin system complying with AAMA 2604, 10-year warranty. Color PPG-UCFX12090 Black (Acrynar). b. For Florida and coastal regions, use 2-coat, 70% PVDF resin system complying with AAMA 2605 with 20-year warranty. Color PPG-UC40577 Black (Duranar). 3. Anodized Finish Systems: a.

Electrolytically Deposited Anodic Coating, Class 1, Designation AAM12C21A44 conforming to AAMA 611 with 10-year warranty.

#### SPECIAL INSTRUCTIONS

Opening Force: Sliding doors provided with a breakaway device shall require no more than 50 lbf (222N) applied 1 inch (25 mm) from the leading edge of the lock stile for the breakout panel to open

Entrapment Force Requirements : Not more than 30 lbf required to prevent stopped door from closing Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).

Safety Search Circuitry: Shall be provided which will recycle the doors when an object is encountered during the closing cycle. The circuitry shall search for that object on the next closing cycle by reducing the door speed at the position the object was previously encountered, and will continue to close in check speed until the doors are fully closed, at which time the doors will reset to normal speed. If the obstruction is encountered again, the doors shall come to a full stop. The door shall remain stopped until the obstruction is removed and an operate signal is given, resetting the door to its normal speed. The doors shall be provided with a "Fail-Secure Electric Carriage Lock" in the header to prevent the doors from sliding in the night mode. This device shall not interfere with emergency breakout function. The doorway presence-sensing device shall be the "Optional Sensor with added threshold scan" by

Horton. The sensor shall be factory-installed to the underside of the header. The interior door sensing device shall be disabled (night mode) by a key switch furnished by others and installed by Door Installer/Contractor.

ALB - Architectural Lighting - Box Light

## ARCHITECTURAL LIGHTING - BOX LIGHT

### 1x4 Recessed Flat Panel

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Manufacturer: Cooper/Metalux  
Style/Series: 14FP4235C, FPSURF14

### Sales Rep

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#### Primary

Kathleen Kenny  
Email: kathleen.kenny@cooperlighting.com  
Office Phone: (678) 447-5208

### Attributes

---

1x4 Recessed Flat Panel

Type: Linear Box

#### DIMENSIONS

Width: 11-7/8"  
Length: 47-7/8"  
Height: 2-1/8"

#### MATERIAL/FINISH

Finish: White

#### MISCELLANEOUS

Lead Time: In stock to 4 weeks  
Warranty: 5 years

#### CUSTOM FIELDS

Trim: White  
On Dimming System: No  
Lamp CRI: 80  
Lamp Model #: NA  
Voltage: 120 / 277  
Lamp Quantity: NA  
Mount: Recessed ACT  
Fixture Input (Max. Watts): 38.5  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 4451  
Lamp Configuration: NA  
Lens/Shade: Clear  
Finish: White  
Reflector: N/A  
Lamp Type: Integrated LED  
Dimming Type: 0-10V  
Lamp Kelvin: 3500K

### Notes

---

Rated life: 60,000 hours



## DESCRIPTION

FPanel LED panel series provide premium performance and pleasing aesthetics. It is optimized for shallow plenum grid ceilings or surface mounting. Developed with Eaton's latest generation of solid state components and electronic driver technologies, these panels are ideal for new construction. Its refined visual optics and integrated grid retention clips provide the features needed for speed and installation flexibility. LED FPanels are an excellent lighting solution for commercial office spaces, schools, healthcare and retail merchandising areas.

|                    |   |             |  |
|--------------------|---|-------------|--|
| <b>Catalog #</b>   | 14FP4235C, FPSURF14   | <b>Type</b> |  |
| <b>Project</b>     | Four Points   | <b>Date</b> |  |
| <b>Comments</b>    | No Substitutes  |             |  |
| <b>Prepared by</b> | Kathleen Kenny, National Accounts 678-447-5208, kathleenkenny@eatonco |             |  |

## SPECIFICATION FEATURES

### Construction/Mounting

Narrow aluminum bezel is tightly held to code gauge steel back plate to protect the LEDs and optical area. Corners are seamless to provide a refined finish and maximize the light emitting surface. Integral grid locking clips and separate suspension clips are included on the panel to ensure installation flexibility in ceiling systems and to meet code when additional retention is required. Junction box is constructed of code gage galvanized steel with an easy access hinged door for high voltage and low voltage wiring access and includes trade size knockouts. The stock luminaire is less than 2 inches in depth making it an ideal choice for shallow plenums and low ceilings. May also be surface mounted using the optional kit. Options available to meet IP5X ratings as well as factory installed flexible cable.

### Controls

The FPanel is standard with a 0-10V continuous dimming driver which dims to 10% and works with most standard 0-10V control/dimmers. Combine with energy-saving products like wall dimmers, Room Controller, occupancy and daylight sensors, and lighting relay panels. Or, go wireless with optional field installed controls for either WaveLinX or LumaWatt Pro.

### Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500K, 4000K and 5000K with a minimum of 80 CRI and a 90 CRI option that is 3000K. Projected lumen maintenance based on TM21 is L73 > 60,000 hours. Electronic drivers are cULus recognized and available for 120-277V. Emergency battery pack options are available in 7 watts and 14 watts. These emergency battery packs can be factory installed as an option or field installed for remote mounting.

### Optical Shielding

Light guide is constructed of acrylic with specialized features to optimize light extraction providing excellent efficiency. White frost lens with smooth pattern provides uniform illumination as well as scratch and impact resistance.

### Compliance

Indoor luminaires are cULus listed for 25°C ambient environments, IC rated for direct insulation contact, RoHS compliant, damp location listed, and comply with IESNA LM-79 and LM-80 standards. NEMA 410 Compliant. DesignLights Consortium® Qualified and classified for DLC Standard, refer to [www.designlights.org](http://www.designlights.org) for details. Can be used for State of California Title 24 high efficacy luminaire.

### Warranty

Five year warranty.



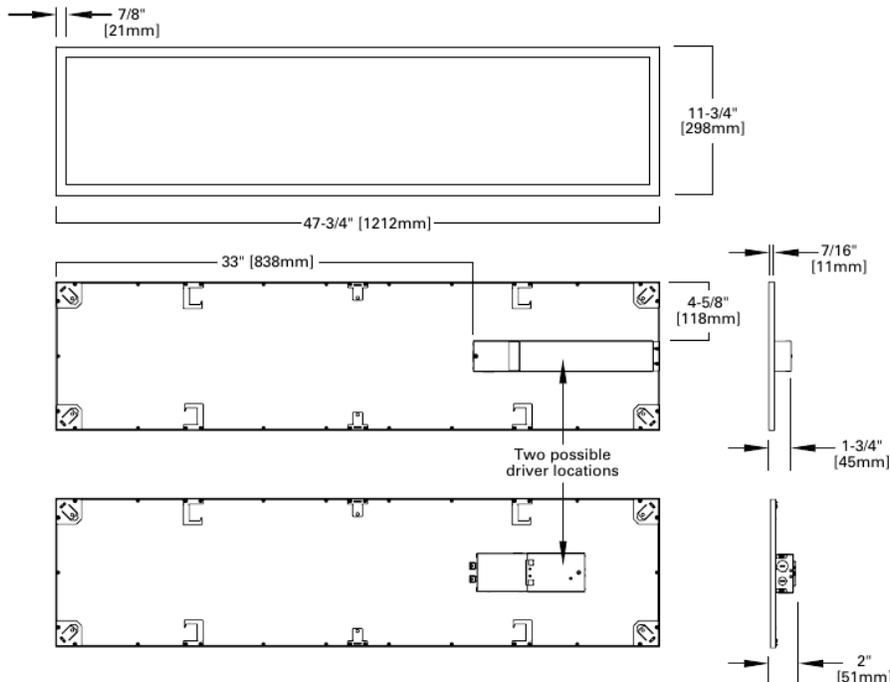
**14FP  
LED**

1' X 4' LED PANEL

General LED Panel.  
Recessed in Insulated  
Ceilings or Surface Mount



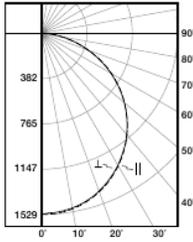
## DIMENSIONS



## LOAD DATA (STOCK PRODUCT)

|                        |          |
|------------------------|----------|
| <b>Thd</b>             | 11%      |
| <b>Power Factor</b>    | 0.96     |
| <b>Weight</b>          | 9.8 lbs. |
| <b>Low Temp. Start</b> | -20°C    |

PHOTOMETRICS



Candlepower

| Angle | Along II | 45°  | Across ⊥ |
|-------|----------|------|----------|
| 0     | 1526     | 1526 | 1526     |
| 5     | 1525     | 1521 | 1515     |
| 10    | 1505     | 1501 | 1497     |
| 15    | 1471     | 1468 | 1465     |
| 20    | 1425     | 1422 | 1418     |
| 25    | 1365     | 1363 | 1358     |
| 30    | 1294     | 1294 | 1288     |
| 35    | 1212     | 1213 | 1207     |
| 40    | 1122     | 1125 | 1118     |
| 45    | 1022     | 1026 | 1019     |
| 50    | 914      | 920  | 913      |
| 55    | 802      | 803  | 798      |
| 60    | 683      | 682  | 678      |
| 65    | 559      | 553  | 550      |
| 70    | 425      | 422  | 422      |
| 75    | 296      | 295  | 295      |
| 80    | 173      | 174  | 178      |
| 85    | 72       | 74   | 77       |
| 90    | 0        | 0    | 0        |

Coefficients of Utilization

| rc<br>rw<br>RCR | Effective floor cavity reflectance 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |     |     | 0%  |     |     |     |     |
|-----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 70                                     | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  |
| 0               | 119                                    | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 |
| 1               | 109                                    | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  |
| 2               | 99                                     | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 69  | 69  | 69  | 69  | 69  | 69  | 69  | 69  |
| 3               | 90                                     | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 60  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  |
| 4               | 82                                     | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  |
| 5               | 76                                     | 63  | 53  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  | 43  | 43  | 43  | 43  | 43  | 43  | 43  |
| 6               | 70                                     | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  | 37  | 37  | 37  | 37  | 37  | 37  | 37  |
| 7               | 65                                     | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  | 33  | 33  | 33  | 33  | 33  | 33  | 33  |
| 8               | 60                                     | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 29  | 29  | 29  | 29  | 29  | 29  | 29  | 29  |
| 9               | 56                                     | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  | 26  | 26  | 26  | 26  | 26  | 26  | 26  |
| 10              | 53                                     | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  | 24  | 24  | 24  | 24  | 24  | 24  | 24  |

14FP4240C

Electronic Driver

Linear LED 4000K

Spacing criterion:

(II) 1.26 x mounting

height, (⊥) 1.25 x

mounting height

Lumens: 4388.7

Input Watts: 39.2W

Efficacy: 112.0 lm/W

Test Report: 14FP4240C.IES

Zonal Lumen Summary

| Zone  | Lumens | % Fixture |
|-------|--------|-----------|
| 0-30  | 1186.5 | 27.0      |
| 0-40  | 1943.4 | 44.3      |
| 0-60  | 3445.8 | 78.5      |
| 0-90  | 4388.7 | 100.0     |
| 0-180 | 4388.7 | 100.0     |

Luminance Data

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|--------------|---------------------|----------------------|----------------------|
| 45           | 3889                | 3905                 | 3878                 |
| 55           | 3763                | 3767                 | 3744                 |
| 65           | 3559                | 3521                 | 3502                 |
| 75           | 3078                | 3067                 | 3067                 |
| 85           | 2223                | 2285                 | 2377                 |

ORDERING INFORMATION/PERFORMANCE

| Catalog                   | UPC          | CCT   | CRI (Min) | Delivered Nominal Lumens | Watts | Efficacy (lm/W) | Input Current (A) |      |
|---------------------------|--------------|-------|-----------|--------------------------|-------|-----------------|-------------------|------|
|                           |              |       |           |                          |       |                 | 120V              | 277V |
| 14FP4235C                 | 080083833467 | 3500K | 80        | 4451                     | 38.5  | 116             | .34               | .15  |
| 14FP4240C                 | 080083833481 | 4000K | 80        | 4389                     | 39.2  | 112             |                   |      |
| 14FP4250C                 | 080083833504 | 5000K | 80        | 4521                     | 38.9  | 116             |                   |      |
| 14FP3830C9 <sup>(1)</sup> | 080083833764 | 3000K | 90        | 3648                     | 38.9  | 94              |                   |      |

OPTIONS/ORDERING INFORMATION

|   |
|---|
| <p>IP5X=IP5X rating<br/>                     Example catalog number=14FP4240C-IP5X</p>  |
| <p>EL14W=EBPLED14W battery installed<sup>(2)</sup><br/>                     EL7W=EBPLED7W battery installed<sup>(2)</sup><br/>                     Example catalog number=14FP4240C-EL14W</p> |
| <p>A3/8-5D/18G=6' 3/8" flex with dimming leads installed<br/>                     Example catalog number=14FP4240C-A3/8-5D/18G</p>  |

ACCESSORIES/ORDERING INFORMATION

SURFACE MOUNT KIT<sup>(3)</sup>

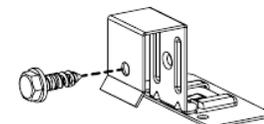
| Catalog  | UPC          |
|----------|--------------|
| FPSURF14 | 080083802708 |



CEILING RETENTION<sup>(2)</sup>

| Catalog | UPC          |
|---------|--------------|
| FPEQ    | 080083802685 |

Required by some local codes  
 Order one set for each fixture  
 (Four clips per kit)



DRYWALL FRAME KIT

| Catalog  | UPC          |
|----------|--------------|
| DF-14W-U | 662401232949 |

SHIPPING DATA

| Size    | Wt.     | Pallet (49" x 53") |
|---------|---------|--------------------|
| 1' x 4' | 12 lbs. | 51                 |

ALJ - Strip Light / Tape Light

## STRIP LIGHT / TAPE LIGHT

### 2' undercabinet strip light w/switch

---

Manufacturer: Cooper/Halo  
Style/Series: HU1124D9SMB

### Sales Rep

---

#### Primary

Kathleen Kenny  
Email: kathleen.kenny@cooperlighting.com  
Office Phone: (678) 447-5208

### Attributes

---

2' undercabinet strip light w/switch

Type: Low Profile Undercabinet

#### DIMENSIONS

Width: 4.37"  
Length: 23.98"  
Height: .76"

#### MATERIAL/FINISH

Material Composition: Extruded Aluminum Housing  
Finish: Matte Black

#### CUSTOM FIELDS

Reflector: NA  
Lamp Quantity: NA  
Mount: Surface/Undercabinet  
Lamp Model #: NA  
Finish: Matte Black  
Trim: NA  
Lamp Configuration: NA  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 660  
On Dimming System: No  
Voltage: 120V  
Fixture Input (Max. Watts): NA  
Dimming Type: Standard Incandescent Dimmer  
Lamp Type: LED  
Lens/Shade: Acrylic  
Lamp CRI: 90  
Lamp Kelvin: 3000K

### Notes

---

Fixture Life: 50,000 hrs  
Efficacy: Refer to attachment



## DESCRIPTION

Ideal for task, accent, office, cove, and utility, under and above cabinet lighting display, the Halo Undercabinet low-profile design delivers maximum energy savings with easy installation. Each fixture is equipped with a seleCCTable switch that allows users to customize color temperature of 2700K, 3000K and 4000K in 90 CRI. Fixtures are available in 9", 18", 24", 36" and 48" lengths with Matte White and Matte Black finishes. Each unit has an integrated on-off switch and offers smooth dimming down to 5% using standard dimmers\*\*. Multiple wiring options make installation a simple task.

|             |  |      |            |
|-------------|--|------|------------|
| Catalog #   | HU1124D9SMB  | Type | ALJ-048-CL |
| Project     |  | Date |            |
| Comments    |  |      |            |
| Prepared by | Kathleen Kenny, National Accounts,<br>PH: 678-447-5208 kathleen.kenny@cooperlighting.com |      |            |

## SPECIFICATION FEATURES

### Even Light Distribution

Specialized optical system consisting of tightly clustered proximity phosphor LEDs, advanced optical chamber coatings and lens materials resulting in soft illumination with high efficiency. These fixtures are ideal for task lighting.

### Color Temperature

3 position external SeleCCTable color temperature switch allows users to choose between 2700K, 3000K, and 4000K and adjust per their lighting needs.

### Wiring Flexibility

Use any combination of three different wiring methods: Bring flexible conduit or Romex directly to the 120V fixture. Conduit connector and romex strain relief hardware is included with each fixture. Otherwise users can utilize the available splice box and plug in connectors (sold separately) and to link additional fixtures to the circuit (See instructions sheets for more detail). \* Link any combination of fixtures up to 450W total load using connectors.

### Durable Low Profile Housing

Extruded aluminum housing and color matched end caps with a sleek over all height less than 1".

### Mounting

Each unit is secured directly to the mounting surface with two integral fasteners keeping installation costs and efforts low. Can be mounted in horizontal and vertical orientations.

### Optional Accessories

Optional splice box has a connection port on each side to allow for runs in either or both directions. Includes Romex/ 1/2" conduit connector. Various connector cable options and lengths provide flexibility of mounting location.

### Finish Options

Fixtures and accessories are available in both White (P) and Matte Black (MB) finishes.

### Electronic Driver & Dimming

Electronic driver provides flicker free light output and noise free operation. Designed for continuous dimming (ELV or TRIAC) down to 5% with compatible dimmers.\*\*

### Compliance & Certifications

- cULus listed
- Can be used to meet IECC, ASHRAE commercial and residential standards
- FCC Class B residential
- Damp location listed
- ENERGY STAR® certified
- Title 24
- Closet-Rated

### Factory Defaults

The fixtures are factory pre-set to 3000K.

### Warranty

Five-year limited warranty, consult website for details.  
www.cooperlighting.com



**HU11**

Value LED Undercabinet



2700K • 3000K • 4000K



ALJ-048-CL

## DIMENSIONS



| Size Description | 9 in. Nominal   | 18 in. Nominal   | 24 in. Nominal   | 36 in. Nominal | 48 in. Nominal     |
|------------------|-----------------|------------------|------------------|----------------|--------------------|
| Length "L"       | 8.98" [228.1mm] | 16.55" [420.4mm] | 23.98" [609.1mm] | 32.44" [824mm] | 47.18" [1,198.4mm] |
| Wattage          | 4.5             | 8.0              | 11.0             | 15.5           | 21.0               |
| Lumens***        | 300             | 560              | 785              | 1125           | 1540               |



\* Plug in wire option is only available on either end (side) of the fixture. Back wire option is for romex or flexible conduit wiring only.

\*\* See our website for dimming guidance information. www.cooperlighting.com

\*\*\* Performance metrics are measured at 3000K. The factory setting is 3000K.

## ENERGY DATA

Power Factor: >0.9  
THD: <20%  
Color Temperature: SeleCCTable  
2700K, 3000K, 4000K  
Color Rendering Index: 90  
Nominal Lumens/Ft: 300



Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JAB.

## ORDERING INFORMATION

SAMPLE NUMBER: HU1118D9SP ( 18 inch Dimmable fixture, SeleCCTable Color temperature, White Finish)

ALJ-048-CL

| Family                                    | Length  | Dimming             | Color Temperature                          | Finish                                    |
|---|---|---------------------|--|---|
| <b>HU11</b> =Halo Integrated Undercabinet | <b>09</b> =9"<br><b>18</b> =18"<br><b>24</b> =24"<br><b>36</b> =36"<br><b>48</b> =48" | <b>D9</b> =Dimmable | <b>S</b> =Selectable (2700K, 3000K, 4000K) | <b>P</b> =White<br><b>MB</b> =Matte Black |

1. 9" cannot be linked with direct-wire. Requires daisy chain connector accessory.

## CONNECTORS & ACCESSORIES



**HU101**  
3" Daisy Chain Connector



**HU102**  
6" Daisy Chain Connector



**HU1010**  
12" Daisy Chain Connector



**HU1011**  
18" Daisy Chain Connector



**HU103**  
24" Daisy Chain Connector



**HU104**  
120" Daisy Chain Connector



**HU115**  
48" Power Cord - 120V only



**HU109**  
Splice Box



**HU107**  
1-1/2" Male-to-Male Connector



**HU10MS**  
Master Switch

Finish: **P** = White; **MB** = Matte Black **Example:** HU101P = 3" Daisy Chain Connector, White

PHOTOMETRY

Fixture Application Illustration

MOUNTING HEIGHT 18"

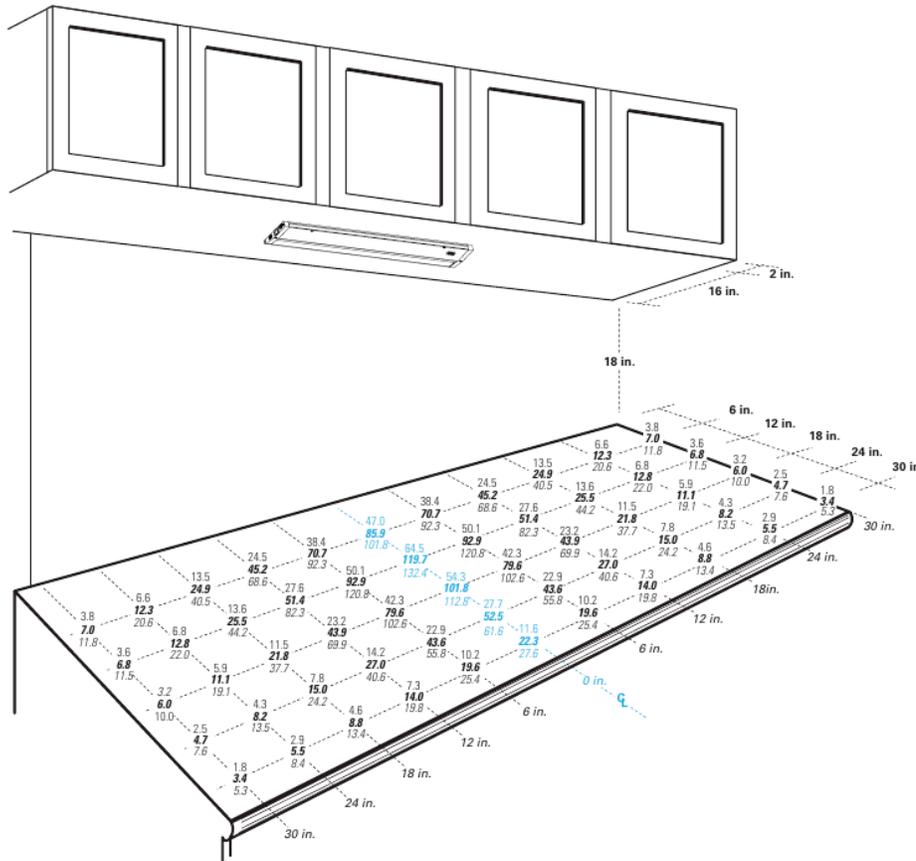
Top Number  
Report: HU1109D9SMB-3000K.IES

Middle Number  
Report: HU1118D9SMB-3000K.IES

Bottom Number  
Report: HU1124D9SMB-3000K.IES

Countertop 60" x 30"

Diagram not to scale.



18" Mounting Height

Top Number Report - HU1109D9SMB-3000K  
Middle Number Report - HU1118D9SMB-3000K  
Bottom Number Report - HU1124D9SMB-3000K

15" Mounting Height

Top Number Report - HU1109D9SMB-3000K  
Middle Number Report - HU1118D9SMB-3000K  
Bottom Number Report - HU1124D9SMB-3000K

| Width |      |      |      |       |       |       |      |      |      |      | Length |
|-------|------|------|------|-------|-------|-------|------|------|------|------|--------|
| 30in  | 24in | 18in | 12in | 6in   | 0in   | 6in   | 12in | 18in | 24in | 30in |        |
| 3.8   | 6.6  | 13.5 | 24.5 | 38.4  | 47.0  | 38.4  | 24.5 | 13.5 | 6.6  | 3.8  | 6 in   |
| 7.0   | 12.3 | 24.9 | 45.2 | 70.7  | 85.9  | 70.7  | 45.2 | 24.9 | 12.3 | 7.0  |        |
| 11.8  | 20.6 | 40.5 | 68.6 | 92.3  | 101.8 | 92.3  | 68.6 | 40.5 | 20.6 | 11.8 |        |
| 3.6   | 6.8  | 13.6 | 27.6 | 50.1  | 64.5  | 50.1  | 27.6 | 13.6 | 6.8  | 3.6  | 12 in  |
| 6.8   | 12.8 | 25.5 | 51.4 | 92.9  | 119.7 | 92.9  | 51.4 | 25.5 | 12.8 | 6.8  |        |
| 11.5  | 22.0 | 44.2 | 82.3 | 120.8 | 132.4 | 120.8 | 82.3 | 44.2 | 22.0 | 11.5 |        |
| 3.2   | 5.9  | 11.5 | 23.2 | 42.3  | 54.3  | 42.3  | 23.2 | 11.5 | 5.9  | 3.2  | 18 in  |
| 6.0   | 11.1 | 21.8 | 43.9 | 79.6  | 101.8 | 79.6  | 43.9 | 21.8 | 11.1 | 6.0  |        |
| 10.0  | 19.1 | 37.7 | 69.9 | 102.6 | 112.8 | 102.6 | 69.9 | 37.7 | 19.1 | 10.0 |        |
| 2.5   | 4.3  | 7.8  | 14.2 | 22.9  | 27.7  | 22.9  | 14.2 | 7.8  | 4.3  | 2.5  | 24 in  |
| 4.7   | 8.2  | 15.0 | 27.0 | 43.6  | 52.5  | 43.6  | 27.0 | 15.0 | 8.2  | 4.7  |        |
| 7.6   | 13.5 | 24.2 | 40.6 | 55.8  | 61.6  | 55.8  | 40.6 | 24.2 | 13.5 | 7.6  |        |
| 1.8   | 2.9  | 4.6  | 7.3  | 10.2  | 11.6  | 10.2  | 7.3  | 4.6  | 2.9  | 1.8  | 30 in  |
| 3.4   | 5.5  | 8.8  | 14.0 | 19.6  | 22.3  | 19.6  | 14.0 | 8.8  | 5.5  | 3.4  |        |
| 5.3   | 8.4  | 13.4 | 19.8 | 25.4  | 27.6  | 25.4  | 19.8 | 13.4 | 8.4  | 5.3  |        |

| Width |      |      |      |       |       |       |      |      |      |      | Length |
|-------|------|------|------|-------|-------|-------|------|------|------|------|--------|
| 30in  | 24in | 18in | 12in | 6in   | 0in   | 6in   | 12in | 18in | 24in | 30in |        |
| 3.0   | 5.5  | 12.0 | 23.8 | 41.7  | 54.2  | 41.7  | 23.8 | 12.0 | 5.5  | 3.0  | 6 in   |
| 5.6   | 10.2 | 22.2 | 43.8 | 76.6  | 99.2  | 76.6  | 43.8 | 22.2 | 10.2 | 5.6  |        |
| 9.7   | 17.9 | 37.9 | 70.6 | 100.8 | 111.3 | 100.8 | 70.6 | 37.9 | 17.9 | 9.7  |        |
| 2.9   | 5.7  | 12.4 | 28.6 | 63.0  | 90.4  | 63.0  | 28.6 | 12.4 | 5.7  | 2.9  | 12 in  |
| 5.4   | 10.7 | 23.0 | 53.3 | 116.9 | 167.5 | 116.9 | 53.3 | 23.0 | 10.7 | 5.4  |        |
| 9.4   | 19.4 | 43.8 | 96.7 | 156.1 | 168.3 | 156.1 | 96.7 | 43.8 | 19.4 | 9.4  |        |
| 2.5   | 4.8  | 10.3 | 23.7 | 51.9  | 73.9  | 51.9  | 23.7 | 10.3 | 4.8  | 2.5  | 18 in  |
| 4.7   | 9.2  | 19.4 | 44.9 | 98.2  | 139.4 | 98.2  | 44.9 | 19.4 | 9.2  | 4.7  |        |
| 8.1   | 16.6 | 36.8 | 80.4 | 129.5 | 139.9 | 129.5 | 80.4 | 36.8 | 16.6 | 8.1  |        |
| 1.9   | 3.4  | 6.6  | 13.2 | 23.8  | 30.3  | 23.8  | 13.2 | 6.6  | 3.4  | 1.9  | 24 in  |
| 3.6   | 6.6  | 12.7 | 25.1 | 45.4  | 57.8  | 45.4  | 25.1 | 12.7 | 6.6  | 3.6  |        |
| 6.0   | 11.2 | 21.7 | 40.2 | 58.4  | 64.5  | 58.4  | 40.2 | 21.7 | 11.2 | 6.0  |        |
| 1.4   | 2.2  | 3.6  | 6.1  | 8.9   | 10.4  | 8.9   | 6.1  | 3.6  | 2.2  | 1.4  | 30 in  |
| 2.6   | 4.2  | 7.0  | 11.6 | 17.3  | 20.1  | 17.3  | 11.6 | 7.0  | 4.2  | 2.6  |        |
| 4.0   | 6.6  | 10.9 | 16.9 | 22.3  | 24.4  | 22.3  | 16.9 | 10.9 | 6.6  | 4.0  |        |

Cooper Lighting Solutions is a registered trademark.

All other trademarks are property of their respective owners.

Product availability, specifications, and compliances are subject to change without notice.



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Peachtree City, GA 30269  
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www.cooperlighting.com

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February 2, 2021 1:30 PM

ALR - Recessed Linear

## RECESSED LINEAR

### Recessed Direct Mount 4" downlight wi...

Manufacturer: Cooper Lighting  
Style/Series: ML4DM10LSFL9FS1E-TL40R2GMW

#### Attributes

Recessed Direct Mount 4" downlight with matte white reflector and flange, diffuse lens. Wet Location.

Type: Recessed Downlight

#### DIMENSIONS

Diameter: 4.25"

#### MATERIAL/FINISH

Finish: White

#### MISCELLANEOUS

Lead Time: In stock or 4 weeks  
Warranty: Five year limited warranty

#### CUSTOM FIELDS

Finish: Matte White Flange Black Lens Frame  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 1000  
Mount: Recessed  
Lamp Type: LED  
Lens/Shade: Clear diffuser  
Lamp CRI: 90+  
Trim: Round Lensed Pinhole  
Reflector: NFL - 25 degree Narrow Flood  
Voltage: 120  
On Dimming System: No  
Lamp Kelvin: 3000K  
Dimming Type: NA

#### Notes

Efficacy: 83.7  
Lamp Life/Fixture Life: 50,000  
Fixture Input (Max. Watts): 9.4



|             |  |           |  |      |            |
|-------------|--|-----------|--|------|------------|
| Project     |  | Catalog # | ML4DM10LSFL9FS1E-TL40R2GMW                         | Type | ALR-029-CL |
| Prepared by | Kathleen Kenny<br>National Accounts<br>678-447-5208<br>kathleen.kenny@cooperlighting.com | Notes     | Marriott standard set fixture<br>3000K, 1000 Lumen | Date |            |



## HALO

### ML4 Canless Downlighting System

A LED fixture fitting with remote driver suitable for direct mount without a housing or junction box can be used with round and square open, lens and lens wall wash trims providing various downlight and wall wash distributions.

#### Typical Applications

Residential • Hospitality • Retail

#### Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Energy Data page 3
- Photometric Data page 4
- Product Warranty
- Dimming Guide

#### Product Certification



Refer to ENERGY STAR® Certified Products List.  
Can be used to comply with California Title 24 High Efficacy requirements.  
Certified to California Appliance Efficiency Database under JAB.

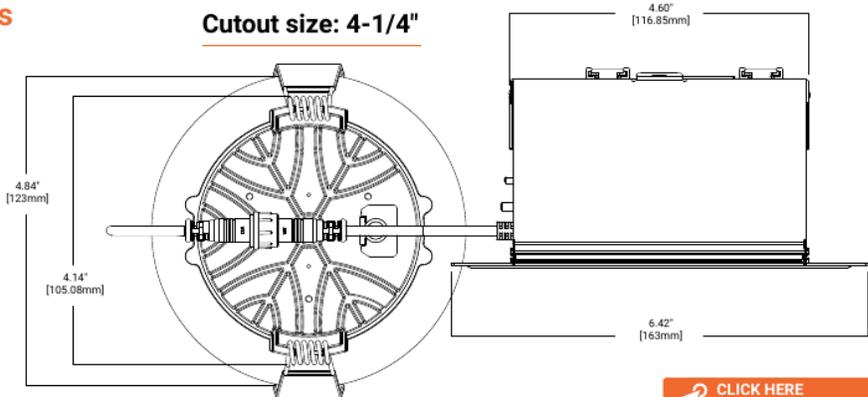
#### Product Features



#### Top Product Features

- Field selectable 2700, 3000, 3500, 4000 or 5000K CCT, 90 CRI minimum
- Optional full spectrum color, 95 CRI minimum
- Optional warm dimming, field selectable 2700 – 1800 or 3000 – 1800K CCT ranges
- Field selectable 600, 800 or 1000 lumens
- Field interchangeable 25°, 40°, 55° or wall wash distribution patterns, ships with 40 degree installed
- Installs from below, does not require a recessed housing or junction box
- Remote driver / junction box
- 120V LE/TE phase cut or 120-277V 0-10V dimming to 5% with select controls

#### Dimensional and Mounting Details



[CLICK HERE](#)  
additional dimensions

## Order Information

SAMPLE ORDER NUMBER: **ML4DM10LSFL9FS1E - TL41RMW**

A complete luminaire consists of a fixture fitting + trim, order separately.

### Fixture Fitting

| Catalog Number     | Description   |
|--------------------|---|
| ML4DM10LSFL9FS1E   | 4" Canless, Lumen Select(600/800/1000lms), 5CCT selectable, 90CRI, 40° optic, 120V, LE/TE 5% Dim    |
| ML4DM10LSFL9FSE010 | 4" Canless, Lumen Select(600/800/1000lms), 5CCT selectable, 90CRI, 40° optic, 120-277V 0-10V 5% Dim |
| ML4DM08LSFL9FS1E   | 4" Canless, Lumen Select(400/600/800lms), 5CCT selectable, 95CRI, 40° optic, 120V LE/TE 5% Dim      |
| ML4DM06FLD2W1E     | 4" Canless, 600lms, Selectable D2W, 90CRI, 40° optic 120V LE/TE 5% Dim                              |

### Accessories

| Accessories  |
|--|
| <p><b>TIR4D25NFL</b> = 25° narrow flood optic<br/> <b>TIR4D40FL</b> = 40° flood optic<br/> <b>TIR4D55WFL</b> = 55° wide flood optic<br/> <b>TIR4D25AWW</b> = 25° narrow flood asymmetric wall wash optic<br/> <b>TIR45MH12PK</b> = replacement media holder, package of 12<br/> <b>L100 Series</b> = 2.0" lens and filters, see spec sheet<br/> <b>HL4RSMF</b> = 4" Mounting Frame (Round or Square)</p> |

### Trims

### Shielding

### Flange Finish

| Trims  | Shielding                      | Flange Finish  |
|--|--------------------------------|--|
| <b>TL40R</b> = 3-1/2" conical reflector <sup>(8)</sup>                                     | <b>2G</b> = Diffuse lens       | <b>MW</b> = Matte white reflector and flange   |
| <p><b>TL41R</b> = 2" round pinhole<br/> <b>TL42S</b> = 2" square pinhole</p>               | None                           | <p><b>MW</b>=Matte white flange<br/> <b>MB</b>=Matte black flange<br/> <b>BN</b>=Brushed nickel flange<br/> <b>ORB</b>=Oil rubbed bronze flange<br/> <b>GB</b>=German bronze flange<br/> <b>BCu</b>=Brushed copper flange</p>  |
| <p><b>TL43R</b> = 2" round lens pinhole<br/> <b>TL44S</b> = 2" square lens pinhole</p>     | <b>2G</b> = Diffuse lens       | <p><b>MWWB</b> = Matte white flange, white lens frame<br/> <b>MWBB</b> = Matte white flange, black lens frame<br/> <b>MBBB</b> = Matte black flange, black lens frame<br/> <b>BNBB</b> = Brushed nickel flange, black lens frame<br/> <b>ORBBB</b> = Oil rubbed bronze flange, black lens frame<br/> <b>GBBB</b> = German bronze flange, black lens frame<br/> <b>BCuBB</b> = Brushed copper, black lens frame</p> |
| <p><b>TL45R</b> = 2" round lens wall wash<br/> <b>TL46S</b> = 2" square lens wall wash</p> | <b>6G</b> = Linear spread lens | <p><b>MWWB</b> = Matte white flange, white lens frame<br/> <b>MWBB</b> = Matte white flange, black lens frame</p>  |
| <b>Notes</b>   | <b>Notes</b>                   | <b>Notes</b>   |
| (8) TL40R trim provides 1.15" lens regression to ML4 fixture.                              |                                |  |

## Product Specifications

### Housing

- Die cast aluminum housing provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications
- Retention springs holds housing securely in 3/8" to 1-1/2" thick ceilings, can be removed for service or replacement
- Not suitable for 2x4 framing

### Optional Mounting Frame

- Pre-galvanized steel mounting frame locates fixture fittings during electrical rough-in and provides cutout guidance for drywall contractor
- Provides attachment of remote driver / junction box

### LED Array

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 3 SDCM at end points and 4 SDCM in the middle providing color accuracy and uniformity

### VividTune

- Field selectable 2700, 3000, 3500, 4000 or 5000K CCT, factory set at 3000K CCT
- Optional full spectrum color, 95 CRI minimum with R1-R15 values ranging from 92 to 100, excellent TM-30 metrics; Rf ranging from 96-98 and Rg >98
- Field selectable 600, 800 and 1000 lumens

### VividTune

- D2W™ dim-to-warm option shifts color temperature from 3000 to 1800 K CCT or 2700 to 1800 K CCT as fixture dims mimicking the black body dimming response of halogen or incandescent lamps

### Trims

- Field interchangeable trims are available in 3-1/2" aperture conical and 2-inch round or square pinhole apertures
- Available in a broad range of painted or plated finishes, can be painted in the field to match any décor
- Magnetic attachment holds trim tightly to ceiling and minimizes light leaks
- Conical trim provides 1.15" lens regression to ML4 fixture.

### Primary Optic

- Precision molded TIR optic organizes source flux into useful beams without stray lumens in the field
- Low glare, UGR < 17
- Two-piece construction with matte black mounting ring and polarized turn and lock mounting aligns optic to source and minimizes backlight in the housing
- Meets ENERGY STAR® color angular uniformity requirements, color deviation is typically less than 0.004 u' v'
- Available in narrow flood, flood, wide flood and asymmetric wall wash distributions, ships with flood optic factory installed, order alternate distributions or replacements separately

### Media

- Integral media holder accepts (2) lens or louver 2" diameter 3.0mm thick color filters, lens or louvers
- Order media separately

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut control
- Optional UNV 120-277V 50/60 Hz driver with 0 -10V analog dimming from 100% to 5%

### Remote Driver / Junction Box

- Pre-galvanized steel driver/junction box with captive hinged junction box cover
- Listed for six #12 AWG 90° C splice conductors, two in, two out plus ground
- Two 1/2" conduit pry-outs
- Two Slide-N-Side™ non-metallic (NM) wire traps allow wiring outside the box
- Accepts NM cable types: 14-2, 14-3, 12-2, 12-3 (U.S.) and 14-2, 14-3, 12-2 (Canadian)
- Three 4-port push wire nuts with clear caps for quick and reliable mains voltage connections
- Integral mounting holes facilitate direct mounting to building structure or mounting frame

### Compliance

- UL Certified US and Canada
- Damp and wet location listed, covered ceilings only and IP65, below the ceiling only with lens trims
- Airtight per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- ENERGY STAR® certified, reference Certified Light Fixtures database
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2019 JA8 High Efficacy Lighting

### Warranty

- Five-year limited warranty, consult
- website for details [www.cooperlighting.com](http://www.cooperlighting.com)

## Energy Data

|                      | ML4DM10LSFL9FS1E | ML4DM10LSFL9FSE010 |            | ML4DM08LSFL95FS1E | ML4DM06FLD2W1E |
|----------------------|------------------|--------------------|------------|-------------------|----------------|
| Lumens (nom)         | 1000             | 1000               | 1000       | 800               | 600            |
| Input Voltage (VAC)  | 120              | 120                | 277        | 120               | 120            |
| Input Current (A)    | 0.11             | 0.10               | 0.05       | 0.11              | 0.08           |
| Efficiency (LpW)     | 83.7             | 82.3               | N/A        | 65.5              | 74.7           |
| Inrush Current (A)   | 3.1              | 1.8                | 2.8        | 3.1               | 2.2            |
| Inrush Duration (ms) | 0.036            | 0.048              | 0.043      | 0.036             | 0.039          |
| THD                  | ≤ 20%            | ≤ 20%              | ≤ 20%      | ≤ 20%             | ≤ 20%          |
| PF                   | ≥ 0.90           | ≥ 0.90             | ≥ 0.90     | ≥ 0.90            | ≥ 0.90         |
| T Ambient (C)        | -30 to +40       | -30 to +40         | -30 to +40 | -30 to +40        | -30 to +40     |
| Sound Rating         | ≤ 22 dba         | ≤ 22 dba           | ≤ 22 dba   | ≤ 22 dba          | ≤ 22 dba       |

## Photometric Data

[View IES files](#)

**ML4DM10LSNFL9FS1E - TIR4D25NFL - TL41R\_TL42S\_3000K**

Spacing criterion:  
(0-180) 0.43 | (90-270) 0.43 | (Diagonal) 0.46

Beam Angle: 25°  
Field Angle: 56°  
Lumens: 1056  
Input Watts: 12.9 W  
Efficacy: 81.9 LPW  
UGR: 11  
Test Report: P601453

| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 930    | 88.1     |
| 0-40        | 1023   | 96.9     |
| 0-60        | 1054   | 99.8     |
| 0-90        | 1056   | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 94   |
|          | Rg = 99   |
| CRI/CIE  | Ra = 96.4 |
|          | R9 = 74   |

CCT - Range of 2700K- 5000K

25°

**ML4DM10LSFL9FS1E - TIR4D40FL - TL41R\_TL42S\_3000K**

Spacing criterion:  
(0-180) 0.67 | (90-270) 0.67 | (Diagonal) 0.63

Beam Angle: 40°  
Field Angle: 64°  
Lumens: 1050  
Input Watts: 12.9 W  
Efficacy: 81.4 LPW  
UGR: 11  
Test Report: P601443

| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 924    | 88       |
| 0-40        | 1017   | 96.9     |
| 0-60        | 1049   | 99.9     |
| 0-90        | 1050   | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 94   |
|          | Rg = 99   |
| CRI/CIE  | Ra = 96.4 |
|          | R9 = 74   |

CCT - Range of 2700K- 5000K

40°

**ML4DM10LSWFL9FS1E - TIR4D55WFL - TL41R\_TL42S\_3000K**

Spacing criterion:  
(0-180) 0.91 | (90-270) 0.91 | (Diagonal) 0.84

Beam Angle: 56°  
Field Angle: 79°  
Lumens: 1062  
Input Watts: 12.9 W  
Efficacy: 82.3 LPW  
UGR: 12  
Test Report: P601463

| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 846    | 79.7     |
| 0-40        | 1021   | 96.2     |
| 0-60        | 1062   | 100      |
| 0-90        | 1062   | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 94   |
|          | Rg = 99   |
| CRI/CIE  | Ra = 96.4 |
|          | R9 = 74   |

CCT - Range of 2700K- 5000K

56°

**ML4DM10LSAWW9FS1E - TIR4D25AWW - TL41R\_TL42S\_3000K**

Spacing criterion:  
(0-180) 1.31 | (90-270) 0.61 | (Diagonal) 0.81

Beam Angle: 25°  
Tilt Angle: 23°  
Lumens: 625  
Input Watts: 12.9 W  
Efficacy: 48.4 LPW  
Test Report: P601428

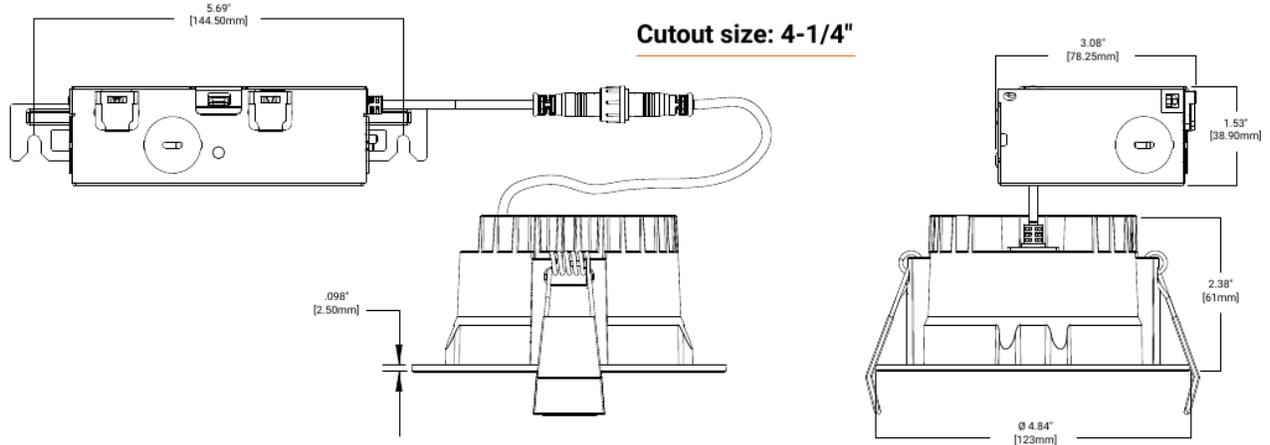
| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 389    | 62.2     |
| 0-40        | 525    | 84.1     |
| 0-60        | 618    | 98.9     |
| 0-90        | 625    | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 94   |
|          | Rg = 99   |
| CRI/CIE  | Ra = 96.4 |
|          | R9 = 74   |

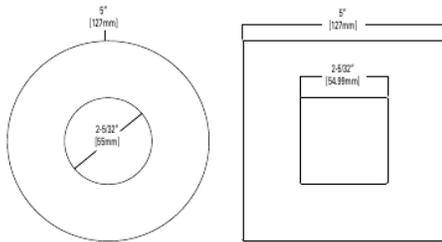
CCT - Range of 2700K- 5000K

25°

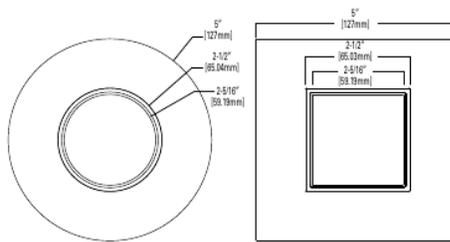
## Dimensional and Mounting Details



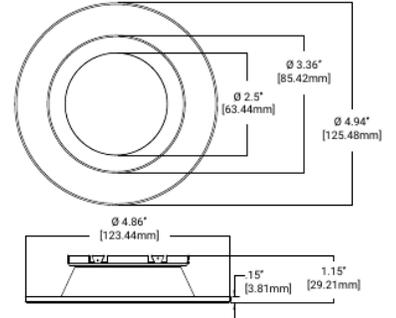
**Lens Pinhole Downlight**



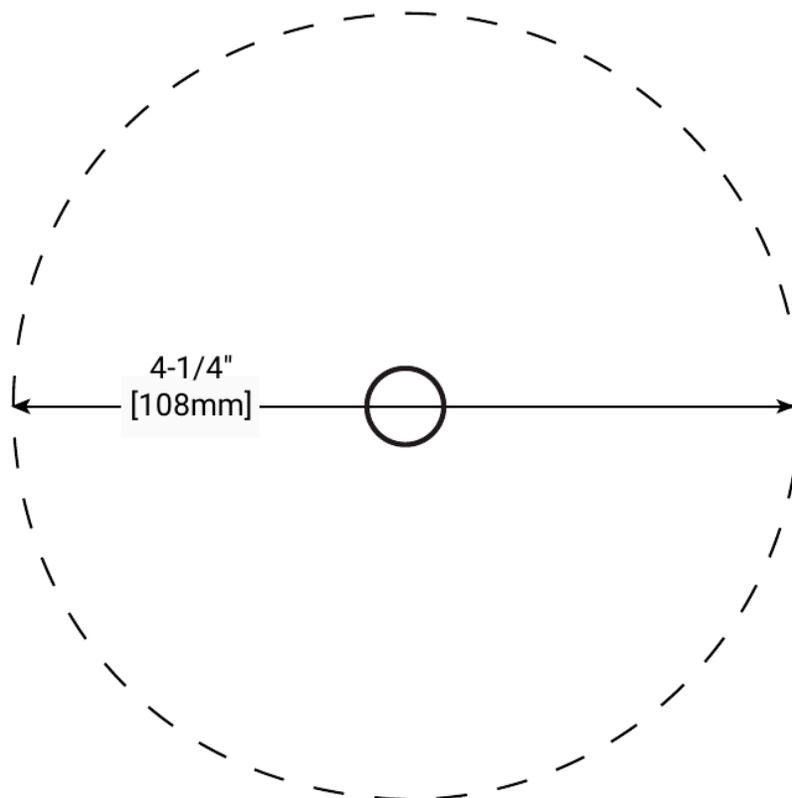
**Lens Wall Wash**



**Lens Conical Reflector**



## Cutout dimension



## RECESSED LINEAR

### 5" Downlight Recessed

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Manufacturer: Signify/Lightolier  
Style/Series: L5R10AZ10UVB/L5R10930VB/L5RDD

### Sales Rep

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#### Primary

Ryan Smillie  
Email: ryan.smillie@signify.com  
Office Phone: 408-813-3032

### Attributes

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5" Downlight Recessed

Type: Recessed Downlight

#### DIMENSIONS

Width: 5.5"  
Length: 8.5"  
Height: 3.5"

#### MISCELLANEOUS

Lead Time: In stock or 4 weeks  
Warranty: Five year limited warranty

#### CUSTOM FIELDS

Finish: Matte White  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 953  
Mount: Recessed  
Lamp Type: LED  
Lens/Shade: Flange Opal Lens  
Lamp CRI: 94  
Trim: Round 5" Aperture  
Reflector: NFL - 25 degree Narrow Flood  
Voltage: 120-277V  
On Dimming System: No  
Lamp Kelvin: 3000K  
Dimming Type: NA

### Notes

---

Lamp Life/Fixture Life: 50000  
Fixture Input (Max. Watts): 12W





**LyteCaster LED Downlights** are ideal general purpose downlighting solution, providing comfortable, quality light. Available in new construction and remodeler frame with interchangeable light engine that is offered in two lumen packages. The downlight is wet location listed and comes in 3 standard option.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Complete unit = Housing + Downlight or Adjustable Light Engine + Trim (order each separately)

**Housing**

example: L5R15AE1VB

| Series  | Lumens                 | Installation (all with AirSeal IC)                           | Dimming  | Version      |
|---|------------------------|--|--|--------------|
| <b>L5R</b>  | <b>10</b>              | <b>A</b>   | <b>Z10U</b>  | <b>VB</b>    |
| L5R LyteCaster 5" (for round and square configurations) | 10 1000lm<br>15 1500lm | A New Construction w/ Screws<br>AN New Construction w/ Nails | E1 Phase Control (ELV/TRIAC 120V)<br>Z10U 0-10V (Universal 120-277V) | VB Version B |
|   | 10 1000lm<br>15 1500lm | R Remodeler  |  |              |

**Downlight Light Engine**

example: L5R15930VB

| Series   | Lumens                 | CRI/CCT  | Finishes                    | Version      |
|--|------------------------|--|-----------------------------|--------------|
| <b>L5R</b>   | <b>10</b>              | <b>930</b>   |                             | <b>VB</b>    |
| L5R LyteCaster 5" round downlight (compatible with square trims) | 10 1000lm<br>15 1500lm | 927 90 CRI / 2700K<br>930 90 CRI / 3000K<br>935 90 CRI / 3500K<br>940 90 CRI / 4000K<br>950 90 CRI / 5000K | — Specified with Trim below | VB Version B |

**Adjustable Light Engine**

example: L5R15930WVB

| Series   | Lumens                 | CRI/CCT  | Finishes   | Version      |
|--|------------------------|--|--|--------------|
| <b>L5RA</b>  |                        |  |  | <b>VB</b>    |
| L5RA Lytecaster 5" round adjustable (trim is integrated) | 10 1000lm<br>15 1500lm | 927 90 CRI / 2700K<br>930 90 CRI / 3000K<br>935 90 CRI / 3500K<br>940 90 CRI / 4000K<br>950 90 CRI / 5000K | W White Reflector / White Flange (integral to light engine for adjustable, do not specify Trim separately) | VB Version B |

**Trim** (for downlights only)

example: L5RDW

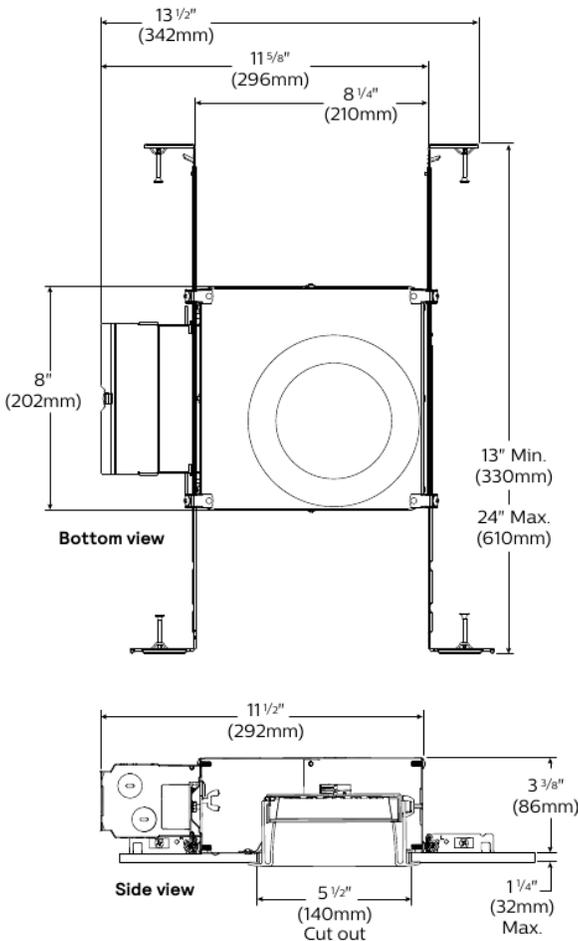
| Series  | Style/Finish/Flange  |
|---|--|
| <b>L5R</b>  | <b>DD</b>  |
| L5R LyteCaster 5" round downlight<br>L5S LyteCaster 5" square downlight | DD Open Downlight / Clear Diffuse / White Flange<br>DW Open Downlight / White Finish / White Flange<br>BW Baffle Downlight / White Finish / White Flange |



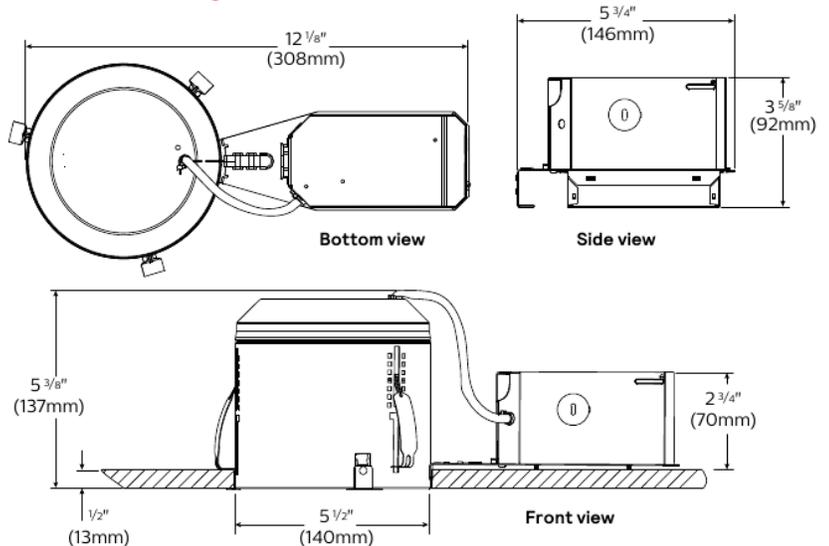
# L5R & L6S LyteCaster LED 5"

Round & Square downlights and Round adjustables (1000lm & 1500lm)

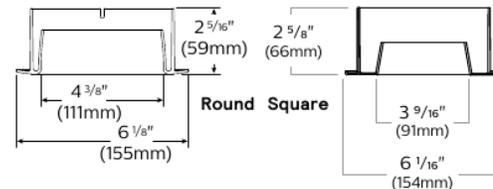
## New construction housing



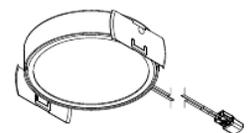
## Remodeler housing



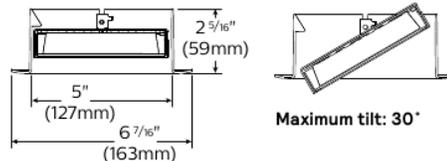
## Downlight trim



## Light engine



## Adjustable light engine/trim



## Features

**Housing:** UL listed for direct contact with thermal insulation. Airseal® housing minimizes air leakage to less than 2 CFM at 1.57PSF (or 75PA), which complies with the International Energy Conservation Code, and Washington State Energy Code (Section 502.4). This reduces heat loss and condensation in ceiling.

**Housing (new construction):** .026" galvanized steel. Access door for inspection of junction box.

**Housing (remodeler):** .032" aluminum. Integral retaining spring secures housing to ceilings up to 2" thick. Removable for access to junction box and ceiling plenum. 5 1/2" maximum for use in 2" x 6" joist construction and shallow plenum applications.

**Junction Box (new construction):** 2 1/2" x 5 3/4" x 2" (27 cu. in.) .032" galvanized steel. UL listed 90°C supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).

**Junction Box (remodeler):** 2 1/2" x 2 1/2" x 4 1/8" (29 cu in.) .031" galvanized steel. UL listed for 90°C supply conductors. Rated for branch circuit wiring supplying connected luminaires.

**Retaining clips:** Permits fast and easy installation of light engine/trim.

**Lower frame and top cover:** .026" galvanized steel. Accommodates ceilings up to 1" (25mm) thick. Deep integral lip is 3/8" (9.5mm) with four notches at 90° apart to simplify alignment. Locks into position along length of mounting bars with locking screws.

**Driver - ELV /Triac:** 120V, 50/60Hz. RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class B) for EMI/RFI (conducted & radiated). Class A sound rating.

**Driver - 0-10V:** 120/277V, 50/60Hz. RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class A) for EMI/RFI (conducted & radiated). Class A sound rating.

**Mounting bars:** .059" galvanized steel. Bars pivot for easy attachment and wire-in below ceiling line. Bars extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after a slight field modification (see Instruction sheet). Features integral self tapping phillips/square drive screws for secure attachment to wood or metal construction. Also available with integral nails. Attaches to T-bar ceilings without the need of accessories. Bars installed on shortest dimension of frame, but can be easily repositioned 90° from original position.

**Ceiling cutout:** 5 1/2" (140mm).

## ENERGY STAR®

Product family has ENERGY STAR® certification in all configurations.

## Dimming Compatibility

See LED-DIM Specification Sheet.

## Electrical

**Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty. (see Signify.com/warranties for details)

## Labels

- cULus Listed Type I.C., frames are suitable for damp location and wet listed for use in covered ceilings.
- Trims are cULus suitable for damp location.
- Complies with Air Leakage.
- ENERGY STAR® certified.

# L5R & L6S LyteCaster LED 5"

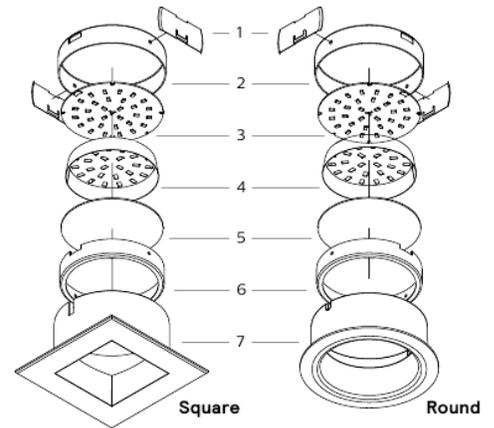
Round & Square downlights and Round adjustables (1000lm & 1500lm)

## Light Engine



## Components

- Retaining clips:** 29 gauge Stainless Steel, allows tool-less installation of light engine to trim.
- Engine housing:** (0.05") thick powder coated aluminum provides integrated thermal management allowing for a low profile at less than 3-1/2" tall.
- LED board:** High efficiency mid-flux LED's.
- Mixing chamber:** 98% reflective, highly diffuse film.
- Diffusion lens:** (0.06") thick acrylic opal lens provides an even source of illumination.
- Retaining ring:** (0.04") thick powder coated aluminum, secures module components.
- Reflector:** 30% glass reinforced injection molded polycarbonate is durable and provides a 70° cutoff to the source.



## Electrical specifications

| Frame-in kit / Remodeler    | Lumens | Input volts | Input freq. | Input current | LED drive current | Input power | LED power | THD factor | Power factor |
|-----------------------------|--------|-------------|-------------|---------------|-------------------|-------------|-----------|------------|--------------|
| L5RAE1VB / L5R10RE1VB       | 1000   | 120V        | 50/60Hz     | 0.10A         | 260mA             | 12W         | 10W       | <20%       | >0.9         |
| L5RAZ10UVB / L5R10RZ10UVB   | 1000   | 120V        | 50/60Hz     | 0.11A         | 260mA             | 13W         | 11W       | <10%       | >0.9         |
|                             |        | 277V        | 50/60Hz     | 0.06A         | 260mA             | 13W         | 11W       | <15%       | >0.9         |
| L5R15AE1VB / L5R15RE1VB     | 1500   | 120V        | 50/60Hz     | 0.16A         | 375mA             | 15W         | 13W       | <20%       | >0.9         |
| L5R15AZ10UVB / L5R15RZ10UVB | 1500   | 120V        | 50/60Hz     | 0.26A         | 375mA             | 16W         | 13W       | <10%       | >0.95        |
|                             |        | 277V        | 50/60Hz     | 0.11A         | 375mA             | 16W         | 13W       | <15%       | >0.95        |



## Trim & Finish options



Open Downlight  
Clear Diffuse  
White Flange  
(DD)

Open Downlight  
White Finish  
White Flange  
(DW)

Baffle Downlight  
White Finish  
White Flange  
(BW)

Open Downlight  
Clear Diffuse  
White Flange  
(DD)

Open Downlight  
White Finish  
White Flange  
(DW)

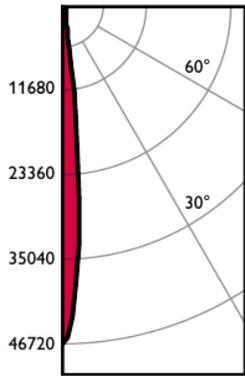
Baffle Downlight  
White Finish  
White Flange  
(BW)

White Reflector  
White Flange  
(adjustable)

# L5R & L6S LyteCaster LED 5"

Round & Square downlights and Round adjustables (1000lm & 1500lm)

90 CRI / 3000K, 650lumens



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 307     | 29     |
| 5     | 303     |        |
| 10    | 297     |        |
| 15    | 289     | 81     |
| 20    | 275     |        |
| 25    | 258     | 119    |
| 30    | 241     |        |
| 35    | 216     | 135    |
| 40    | 191     |        |
| 45    | 162     | 125    |
| 50    | 132     |        |
| 55    | 103     | 92     |
| 60    | 74      |        |
| 65    | 49      | 50     |
| 70    | 33      |        |
| 75    | 24      | 25     |
| 80    | 15      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

Housing:  
L4RAE1VB, L4RAZ10UVB  
L4R06RE1VB, L4R06RZ10UVB  
Light Engine:  
L4R06835VB  
Trim:  
L4RDW

Output lumens: 662.8lm  
Input Watts: 6.9W  
Spacing Crit.: 1.2  
Efficacy: 96.1lm/W  
CCT?: 3500K  
CRI: ≥80  
Report no<sup>3</sup>: 659GFR

### Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 12                               | 6.0'            |
| 6'                      | 9                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial Center Beam Foot-Candles | Watts per Sq. Ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 27.6                             | 0.31              |
| 6'                | 18.1                             | 0.20              |
| 7'                | 13.0                             | 0.14              |
| 8'                | 10.8                             | 0.12              |
| 9'                | 8.6                              | 0.10              |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |
|---------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |
| Wall    | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |
| RCR     | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |
| 0       | 119   | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1       | 110   | 106 | 102 | 99  | 104 | 97  | 100 | 94  | 96  | 91  | 87  |
| 2       | 101   | 94  | 88  | 83  | 92  | 82  | 89  | 80  | 86  | 78  | 75  |
| 3       | 93  | 84  | 77  | 71  | 82  | 70  | 80  | 69  | 77  | 68  | 65  |
| 4       | 86  | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
| 5       | 80  | 68  | 60  | 54  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
| 6       | 74  | 62  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
| 7       | 69  | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 53  | 42  | 39  |
| 8       | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
| 9       | 60  | 48  | 40  | 35  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
| 10      | 57  | 44  | 37  | 32  | 44  | 31  | 43  | 31  | 42  | 31  | 29  |

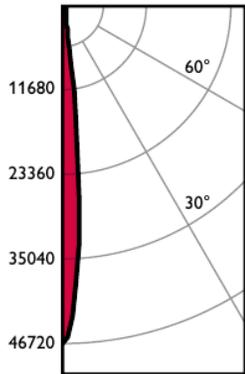
### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 229    | 34.5%      |
| 0-40 | 364    | 54.9%      |
| 0-60 | 581    | 87.6%      |
| 0-90 | 663    | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.71 |
| 80CRI 2700K: = 0.89 |
| 80CRI 3000K: = 0.97 |
| 80CRI 3500K: = 1.00 |

90 CRI / 3000K, 650lumens



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 307     | 29     |
| 5     | 303     |        |
| 10    | 297     |        |
| 15    | 289     | 81     |
| 20    | 275     |        |
| 25    | 258     | 119    |
| 30    | 241     |        |
| 35    | 216     | 135    |
| 40    | 191     |        |
| 45    | 162     | 125    |
| 50    | 132     |        |
| 55    | 103     | 92     |
| 60    | 74      |        |
| 65    | 49      | 50     |
| 70    | 33      |        |
| 75    | 24      | 25     |
| 80    | 15      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

Housing:  
L4RAE1VB, L4RAZ10UVB  
L4R06RE1VB, L4R06RZ10UVB  
Light Engine:  
L4R06835VB  
Trim:  
L4RDW

Output lumens: 662.8lm  
Input Watts: 6.9W  
Spacing Crit.: 1.2  
Efficacy: 96.1lm/W  
CCT?: 3500K  
CRI: ≥80  
Report no<sup>3</sup>: 659GFR

### Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 12                               | 6.0'            |
| 6'                      | 9                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial Center Beam Foot-Candles | Watts per Sq. Ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 27.6                             | 0.31              |
| 6'                | 18.1                             | 0.20              |
| 7'                | 13.0                             | 0.14              |
| 8'                | 10.8                             | 0.12              |
| 9'                | 8.6                              | 0.10              |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |
|---------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |
| Wall    | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |
| RCR     | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |
| 0       | 119   | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1       | 110   | 106 | 102 | 99  | 104 | 97  | 100 | 94  | 96  | 91  | 87  |
| 2       | 101   | 94  | 88  | 83  | 92  | 82  | 89  | 80  | 86  | 78  | 75  |
| 3       | 93  | 84  | 77  | 71  | 82  | 70  | 80  | 69  | 77  | 68  | 65  |
| 4       | 86  | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
| 5       | 80  | 68  | 60  | 54  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
| 6       | 74  | 62  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
| 7       | 69  | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 53  | 42  | 39  |
| 8       | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
| 9       | 60  | 48  | 40  | 35  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
| 10      | 57  | 44  | 37  | 32  | 44  | 31  | 43  | 31  | 42  | 31  | 29  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 229    | 34.5%      |
| 0-40 | 364    | 54.9%      |
| 0-60 | 581    | 87.6%      |
| 0-90 | 663    | 100.0%     |

### CRI and CCT adjustment factors

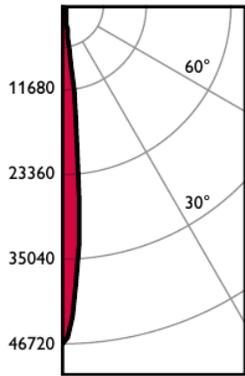
|                     |
|---------------------|
| 90CRI 2700K: = 0.71 |
| 80CRI 2700K: = 0.89 |
| 80CRI 3000K: = 0.97 |
| 80CRI 3500K: = 1.00 |

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
2. Wattage controlled to within +/- 5%.  
Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# L5R & L6S LyteCaster LED 5"

Round & Square downlights and Round adjustables (1000lm & 1500lm)

## 90 CRI / 3000K, 650 lumens



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 307     | 29     |
| 5     | 303     |        |
| 10    | 297     |        |
| 15    | 289     | 81     |
| 20    | 275     |        |
| 25    | 258     | 119    |
| 30    | 241     |        |
| 35    | 216     | 135    |
| 40    | 191     |        |
| 45    | 162     | 125    |
| 50    | 132     |        |
| 55    | 103     | 92     |
| 60    | 74      |        |
| 65    | 49      | 50     |
| 70    | 33      |        |
| 75    | 24      | 25     |
| 80    | 15      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 12                               | 6.0'            |
| 6'                      | 9                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial Center Beam Foot-Candles | Watts per Sq. Ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 27.6                             | 0.31              |
| 6'                | 18.1                             | 0.20              |
| 7'                | 13.0                             | 0.14              |
| 8'                | 10.8                             | 0.12              |
| 9'                | 8.6                              | 0.10              |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 0   |     |     |     |     |     |     |     |     |     |     |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 110 | 106 | 102 | 99  | 104 | 97  | 100 | 94  | 96  | 91  | 87  |
|                   | 2   | 101 | 94  | 88  | 83  | 92  | 82  | 89  | 80  | 86  | 78  | 75  |
|                   | 3   | 93  | 84  | 77  | 71  | 82  | 70  | 80  | 69  | 77  | 68  | 65  |
|                   | 4   | 86  | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
|                   | 5   | 80  | 68  | 60  | 54  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
|                   | 6   | 74  | 62  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
|                   | 7   | 69  | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 53  | 42  | 39  |
|                   | 8   | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
|                   | 9   | 60  | 48  | 40  | 35  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
|                   | 10  | 57  | 44  | 37  | 32  | 44  | 31  | 43  | 31  | 42  | 31  | 29  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 229    | 34.5%      |
| 0-40 | 364    | 54.9%      |
| 0-60 | 581    | 87.6%      |
| 0-90 | 663    | 100.0%     |

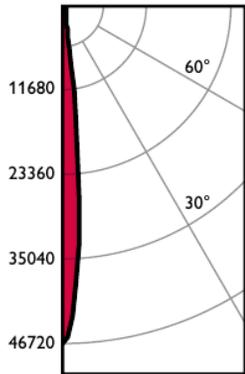
### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.71 |
| 80CRI 2700K: = 0.89 |
| 80CRI 3000K: = 0.97 |
| 80CRI 3500K: = 1.00 |

Housing:  
L4RAE1VB, L4RAZ10UVB  
L4R06RE1VB, L4R06RZ10UVB  
Light Engine:  
L4R06835VB  
Trim:  
L4RDW

Output lumens: 662.8lm  
Input Watts: 6.9W  
Spacing Crit.: 1.2  
Efficacy: 96.1lm/W  
CCT: 3500K  
CRI: ≥80  
Report no: 659GFR

## 90 CRI / 3000K, 650 lumens



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 307     | 29     |
| 5     | 303     |        |
| 10    | 297     |        |
| 15    | 289     | 81     |
| 20    | 275     |        |
| 25    | 258     | 119    |
| 30    | 241     |        |
| 35    | 216     | 135    |
| 40    | 191     |        |
| 45    | 162     | 125    |
| 50    | 132     |        |
| 55    | 103     | 92     |
| 60    | 74      |        |
| 65    | 49      | 50     |
| 70    | 33      |        |
| 75    | 24      | 25     |
| 80    | 15      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 12                               | 6.0'            |
| 6'                      | 9                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial Center Beam Foot-Candles | Watts per Sq. Ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 27.6                             | 0.31              |
| 6'                | 18.1                             | 0.20              |
| 7'                | 13.0                             | 0.14              |
| 8'                | 10.8                             | 0.12              |
| 9'                | 8.6                              | 0.10              |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 0   |     |     |     |     |     |     |     |     |     |     |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 110 | 106 | 102 | 99  | 104 | 97  | 100 | 94  | 96  | 91  | 87  |
|                   | 2   | 101 | 94  | 88  | 83  | 92  | 82  | 89  | 80  | 86  | 78  | 75  |
|                   | 3   | 93  | 84  | 77  | 71  | 82  | 70  | 80  | 69  | 77  | 68  | 65  |
|                   | 4   | 86  | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
|                   | 5   | 80  | 68  | 60  | 54  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
|                   | 6   | 74  | 62  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
|                   | 7   | 69  | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 53  | 42  | 39  |
|                   | 8   | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
|                   | 9   | 60  | 48  | 40  | 35  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
|                   | 10  | 57  | 44  | 37  | 32  | 44  | 31  | 43  | 31  | 42  | 31  | 29  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 229    | 34.5%      |
| 0-40 | 364    | 54.9%      |
| 0-60 | 581    | 87.6%      |
| 0-90 | 663    | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.71 |
| 80CRI 2700K: = 0.89 |
| 80CRI 3000K: = 0.97 |
| 80CRI 3500K: = 1.00 |

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
  2. Wattage controlled to within +/- 5%.
- Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



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## RECESSED LINEAR

### Downlight 8" Aperture - Surface Mount...

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Manufacturer: Cooper/Halo

Style/Series: PR8S15D010MW-PR8M12WDMW- 3000K

### Sales Rep

---

#### Primary

Kathleen Kenny

Email: kathleen.kenny@cooperlighting.com

Office Phone: (678) 447-5208

### Attributes

---

Downlight 8" Aperture - Surface Mount

Type: Surface Mount Downlight

### DIMENSIONS

Width: 11-11/16"

Height: 3.5"

### MATERIAL/FINISH

Finish: White

### MISCELLANEOUS

Lead Time: In stock or 4 weeks

Warranty: Five year limited warranty

### CUSTOM FIELDS

Finish: White

Delivered Lumens (LED) or Mean Lumens (Non-LED): 1591

Mount: Surface Mount

Lamp Type: LED

Lens/Shade: Clear

Lamp CRI: 82+

Trim: White

Reflector: NA

Voltage: 120-277V

On Dimming System: No

Lamp Kelvin: 3000K

Dimming Type: NA

### Notes

---

Efficacy: 96.9

Lamp Life/Fixture Life: 50000

Fixture Input (Max. Watts): 15

Special Instructions



Block and plank installations surface mount to Jbox. Use at ceilings  
10' high and below.

## DESCRIPTION

Surface 8-inch shallow lens LED medium and wide distribution downlight is available in multiple lumen combinations. Choose between 3000K, 3500K and 4000K CCT in the field with seleCCTable™ technology. Suitable for commercial new construction or renovation work. Coordinated recessed versions are also available. Use for general area lighting where high efficiency and long life are required.

|             |  |      |             |
|-------------|--|------|-------------|
| Catalog #   | PR8S15D010MW-PR8M12WDMW-3000K  | Type | ALR-030A2   |
| Project     |  | Date | August 2020 |
| Comments    |  |      |             |
| Prepared by | Kathleen Kenny National Accounts Ph: 678-447-5208<br>kathleen.kenny@cooperlighting.com |      |             |

## SPECIFICATION FEATURES

### Mechanical

#### Housing

- One piece spun aluminum surface mount housing is available in powder coat matte white and matte black and painted metallic silver finishes.
- May be used for new construction or renovation work.

#### Mounting

- Provided with mounting pattern for direct installation to 3-1/4" and 4" octagonal or 4" square junction box.

#### LED Module

- Self-flanged aluminum housing maximizes thermal performance.
- LED array uses a plurality of mid-power surface mount LED packages delivering high flux and excellent efficiency.
- Switch selectable 3000K, 3500K or 4000K CCT reduces ordering complexity and provides flexibility in the field.
- Color point accuracy within 3 SDCM and 80 CRI minimum provides color quality and uniformity.
- Passive thermal management achieves L70 at 50,000 hours.
- Integral connector allows quick connection during installation.

#### LED Module – Lens Optics

- Medium and wide beam interchangeable polymer lens pre-installed in LED module
- Optional field installed wall wash kit offers 360° rotation, allowing the housing to be installed in any orientation

#### Retention

- Module retained with two torsion springs holding the LED module tight to the housing.

#### Electrical

##### Driver

- Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation.
- Continuous, dimming from 100% to 1% using 0 -10V analog control.

#### Compliance

- cULus Listed/Classified, wet location labeled for covered ceilings.
- IP55 rated
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08 and TM-30-15.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® Certified. See energystar.gov website for current information.

#### Warranty

- Limited 5-year warranty, see website for details.  
[www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)



**PR8S10**  
**PR8S15**  
**PR8S20**  
**PR8S30**  
**PR8S40**

ALR-030A2

**PR8M12**  
**PR8M34**

**1000, 1500, 2000,**  
**3000 & 4000**  
**Lumen Series**

**8-Inch Shallow Lens**  
**LED Surface Downlight**

**Medium, Wide &**  
**Wall Wash Distribution**

seleCCTable™



## ORDERING INFORMATION

### CYLINDER SAMPLE NUMBER: PR8S40D010MW

A complete luminaire consists of a cylinder and LED module, order separately.

| Frame   | Lumens  | Driver  | Finish  |
|---|---|---|---|
| PR8S = 8" aperture LED downlight surface mount cylinder | 10 = 1,000 lumens (nominal)<br>15 = 1,500 lumens (nominal)<br>20 = 2,000 lumens (nominal)<br>30 = 3,000 lumens (nominal)<br>40 = 4,000 lumens (nominal) | D010 = 120-277V 50/60Hz, 0-10V 100% to 1% dimming | MW = Matte White<br>MB = Matte Black<br>MMS = Matte Metallic Silver |

### MODULE SAMPLE NUMBER: PR8M34MDMW

A complete luminaire consists of a frame and LED module, order separately.

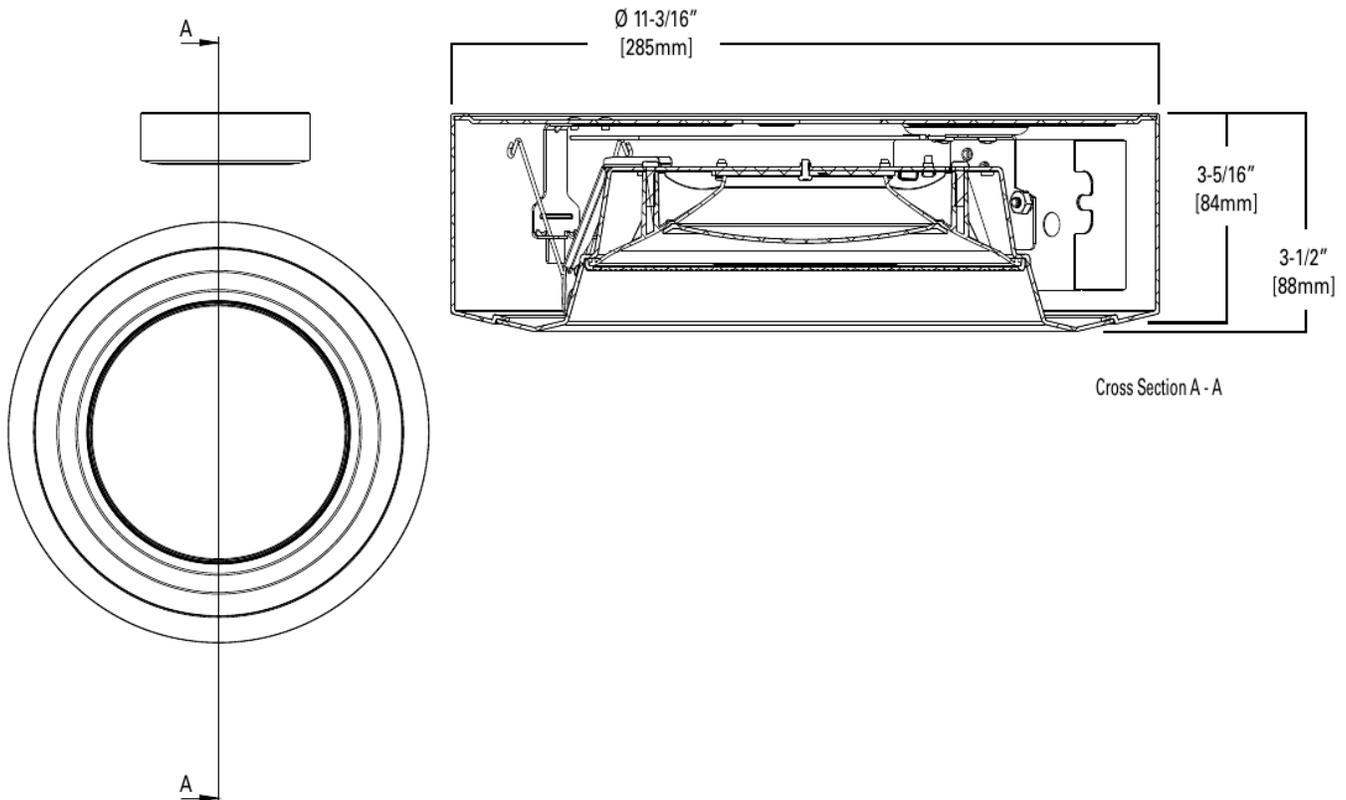
| LED Module   | Shielding  | Flange Finish   |
|--|--|---|
| PR8M12 = Downlight LED module for PR8 series, provides 1000, 1500 or 2000 lumens (nominal) depending on connected frame type<br>PR8M34 = Downlight LED module for PR8 series, provides 3000 or 4000 lumens (nominal) depending on connected frame type | MD = Medium distribution plastic lens<br>WD = Wide distribution plastic lens | MW = Matte White<br>MB = Matte Black<br>MMS = Matte Metallic Silver |

### Accessories

PR8WW = Field Installed wall wash optic for PR8M12 and PR834 modules  
PR8MD = Replacement 8" medium distribution lens for PR8M12 and PR8M34 modules  
PR8WD = Replacement 8" wide distribution lens for PR8M12 and PR8M34 modules

ALR-030A2

## DIMENSIONS



## LUMEN TABLES

| 1000 Lumen, 10.5W                                    | 3000K  |     | 3500K  |     | 4000K  |     |
|--|--------|-----|--------|-----|--------|-----|
|  | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| Medium Distribution Lens, Matte White Trim           | 1176   | 112 | 1326   | 126 | 1245   | 119 |
| Medium Distribution Lens, Matte Black Trim           | 1072   | 102 | 1209   | 115 | 1134   | 108 |
| Medium Distribution Lens, Matte Metallic Silver Trim | 1137   | 108 | 1282   | 122 | 1203   | 115 |
| Wide Distribution Lens, Matte White Trim             | 1172   | 112 | 1322   | 126 | 1240   | 118 |
| Wide Distribution Lens, Matte Black Trim             | 1063   | 101 | 1198   | 114 | 1125   | 107 |
| Wide Distribution Lens, Matte Metallic Silver Trim   | 1126   | 107 | 1270   | 121 | 1192   | 114 |
| Wall Wash Optic, Matte White Trim                    | 996    | 95  | 1130   | 108 | 1061   | 101 |

| 1500 Lumen, 15W                                      | 3000K  |     | 3500K  |     | 4000K  |     |
|--|--------|-----|--------|-----|--------|-----|
|  | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| Medium Distribution Lens, Matte White Trim           | 1597   | 106 | 1800   | 120 | 1690   | 113 |
| Medium Distribution Lens, Matte Black Trim           | 1455   | 97  | 1641   | 109 | 1540   | 103 |
| Medium Distribution Lens, Matte Metallic Silver Trim | 1543   | 103 | 1740   | 116 | 1633   | 109 |
| Wide Distribution Lens, Matte White Trim             | 1591   | 106 | 1794   | 120 | 1684   | 112 |
| Wide Distribution Lens, Matte Black Trim             | 1443   | 96  | 1627   | 108 | 1527   | 102 |
| Wide Distribution Lens, Matte Metallic Silver Trim   | 1529   | 102 | 1724   | 115 | 1618   | 108 |
| Wall Wash Optic, Matte White Trim                    | 1349   | 90  | 1534   | 102 | 1440   | 96  |

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| 2000 Lumen, 22W                                      | 3000K  |     | 3500K  |     | 4000K  |     |
|--|--------|-----|--------|-----|--------|-----|
|  | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| Medium Distribution Lens, Matte White Trim           | 2186   | 99  | 2465   | 112 | 2313   | 105 |
| Medium Distribution Lens, Matte Black Trim           | 1992   | 91  | 2246   | 102 | 2108   | 96  |
| Medium Distribution Lens, Matte Metallic Silver Trim | 2113   | 96  | 2382   | 108 | 2236   | 102 |
| Wide Distribution Lens, Matte White Trim             | 2179   | 99  | 2456   | 112 | 2305   | 105 |
| Wide Distribution Lens, Matte Black Trim             | 1975   | 90  | 2227   | 101 | 2090   | 95  |
| Wide Distribution Lens, Matte Metallic Silver Trim   | 2093   | 95  | 2360   | 107 | 2215   | 101 |
| Wall Wash Optic, Matte White Trim                    | 1847   | 84  | 2100   | 95  | 1971   | 90  |

| 3000 Lumen, 28.5W                                    | 3000K  |     | 3500K  |     | 4000K  |     |
|--|--------|-----|--------|-----|--------|-----|
|  | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| Medium Distribution Lens, Matte White Trim           | 3217   | 113 | 3630   | 127 | 3376   | 118 |
| Medium Distribution Lens, Matte Black Trim           | 2917   | 102 | 3292   | 116 | 3062   | 107 |
| Medium Distribution Lens, Matte Metallic Silver Trim | 3092   | 108 | 3488   | 122 | 3244   | 114 |
| Wide Distribution Lens, Matte White Trim             | 3200   | 112 | 3610   | 127 | 3358   | 118 |
| Wide Distribution Lens, Matte Black Trim             | 2901   | 102 | 3274   | 115 | 3045   | 107 |
| Wide Distribution Lens, Matte Metallic Silver Trim   | 3075   | 108 | 3469   | 122 | 3227   | 113 |
| Wall Wash Optic, Matte White Trim                    | 2702   | 95  | 3053   | 107 | 2840   | 100 |

| 4000 Lumen, 43.5W                                    | 3000K  |     | 3500K  |     | 4000K  |     |
|--|--------|-----|--------|-----|--------|-----|
|  | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| Medium Distribution Lens, Matte White Trim           | 4397   | 101 | 4961   | 114 | 4614   | 106 |
| Medium Distribution Lens, Matte Black Trim           | 3987   | 92  | 4498   | 103 | 4184   | 96  |
| Medium Distribution Lens, Matte Metallic Silver Trim | 4225   | 97  | 4767   | 110 | 4433   | 102 |
| Wide Distribution Lens, Matte White Trim             | 4372   | 101 | 4933   | 113 | 4588   | 105 |
| Wide Distribution Lens, Matte Black Trim             | 3965   | 91  | 4473   | 103 | 4161   | 96  |
| Wide Distribution Lens, Matte Metallic Silver Trim   | 4201   | 97  | 4740   | 109 | 4409   | 101 |
| Wall Wash Optic, Matte White Trim                    | 3698   | 85  | 4172   | 96  | 3880   | 89  |

## ENERGY DATA

| Lumens                | 1000 Series |       |
|-----------------------|-------------|-------|
| Input Voltage         | 120V        | 277V  |
| Input Current         | 0.09A       | 0.04A |
| Input Power           | 10.5W       | 11.2W |
| THD: ≤ 20%            |             |       |
| PF: ≥ 0.90            |             |       |
| T Ambient -30 - +40°C |             |       |
| Sound Rating ≤ 22dba  |             |       |

| Lumens                | 1500 Series |       |
|-----------------------|-------------|-------|
| Input Voltage         | 120V        | 277V  |
| Input Current         | 0.125A      | 0.06A |
| Input Power           | 15W         | 15.5W |
| THD: ≤ 20%            |             |       |
| PF: ≥ 0.90            |             |       |
| T Ambient -30 - +40°C |             |       |
| Sound Rating ≤ 22dba  |             |       |

| Lumens                | 2000 Series |       |
|-----------------------|-------------|-------|
| Input Voltage         | 120V        | 277V  |
| Input Current         | 0.18A       | 0.08A |
| Input Power           | 22W         | 22.5W |
| THD: ≤ 20%            |             |       |
| PF: ≥ 0.90            |             |       |
| T Ambient -30 - +40°C |             |       |
| Sound Rating ≤ 22dba  |             |       |

| Lumens                | 3000 Series |       |
|-----------------------|-------------|-------|
| Input Voltage         | 120V        | 277V  |
| Input Current         | 0.24A       | 0.10A |
| Input Power           | 28.5W       | 28.5W |
| THD: ≤ 20%            |             |       |
| PF: ≥ 0.90            |             |       |
| T Ambient -30 - +40°C |             |       |
| Sound Rating ≤ 22dba  |             |       |

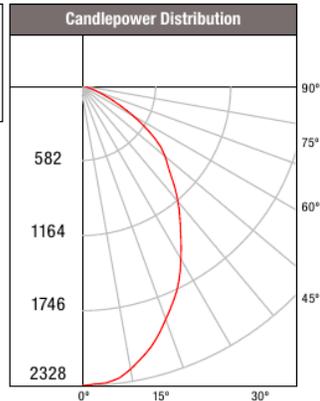
| Lumens                | 4000 Series |       |
|-----------------------|-------------|-------|
| Input Voltage         | 120V        | 277V  |
| Input Current         | 0.36A       | 0.16A |
| Input Power           | 43.5W       | 43W   |
| THD: ≤ 20%            |             |       |
| PF: ≥ 0.90            |             |       |
| T Ambient -30 - +40°C |             |       |
| Sound Rating ≤ 22dba  |             |       |

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## MEDIUM DISTRIBUTION PHOTOMETRY

PR8S40D010 - PR8M34MDMW - 3500K  
Spacing Criteria = 1.04  
Lumens per Watt = 96.4 Lm/W  
Test No. P210615  
Test Model: PR8S40D010-PR8M34MDMW-3500K

| Zonal Lumen Summary |        |           |
|---------------------|--------|-----------|
| Zone                | Lumens | % Fixture |
| 0-30                | 1614   | 38.5      |
| 0-40                | 2461   | 58.7      |
| 0-60                | 3839   | 91.5      |
| 0-90                | 4195   | 100       |



| Candela Distribution |         |
|----------------------|---------|
| Degrees Vertical     | Candela |
| 0°                   | 2328    |
| 5                    | 2314    |
| 10                   | 2234    |
| 20                   | 1929    |
| 30                   | 1554    |
| 40                   | 1174    |
| 50                   | 855     |
| 60                   | 468     |
| 70                   | 142     |
| 80                   | 11      |
| 90                   | 0       |

| Luminance            |                   |
|----------------------|-------------------|
| (Average Candela/M²) |                   |
| Degree               | Avg. 0° Luminance |
| 45                   | 43273             |
| 55                   | 36950             |
| 65                   | 20335             |
| 75                   | 7184              |
| 85                   | 0                 |

| Cone of Light Footcandles     |                           |                     |                    |
|-------------------------------|---------------------------|---------------------|--------------------|
| Distance to Illuminated Plane | Initial Nadir Footcandles | Beam (ft.)          |                    |
|                               |                           | L <sub>Length</sub> | W <sub>Width</sub> |
| 5.5'                          | 77                        | 5.6                 | 5.6                |
| 7'                            | 47.5                      | 7.2                 | 7.2                |
| 8'                            | 36.4                      | 8.2                 | 8.2                |
| 9'                            | 28.7                      | 9.2                 | 9.2                |
| 10'                           | 23.3                      | 10.2                | 10.2               |
| 12'                           | 16.2                      | 12.4                | 12.4               |

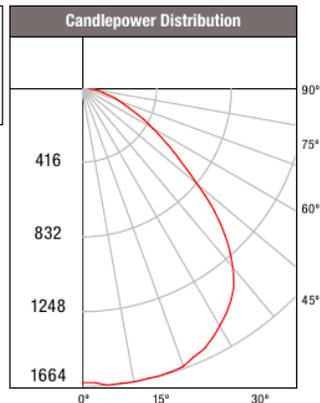
Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.  
Footcandle values are initial, apply appropriate light loss factors where necessary.

\*CBCP

## WIDE DISTRIBUTION PHOTOMETRY

PR8S40D010 - PR8M34WDMW - 3500K  
Spacing Criteria = 1.37  
Lumens per Watt = 95.9 Lm/W  
Test No. P210645  
Test Model: PR8S40D010-PR8M34WDMW-3500K

| Zonal Lumen Summary |        |           |
|---------------------|--------|-----------|
| Zone                | Lumens | % Fixture |
| 0-30                | 1367   | 32.8      |
| 0-40                | 2267   | 54.3      |
| 0-60                | 3670   | 88        |
| 0-90                | 4172   | 100       |



| Candela Distribution |         |
|----------------------|---------|
| Degrees Vertical     | Candela |
| 0°                   | 1641    |
| 5                    | 1663    |
| 10                   | 1664    |
| 20                   | 1651    |
| 30                   | 1533    |
| 40                   | 1306    |
| 50                   | 838     |
| 60                   | 456     |
| 70                   | 221     |
| 80                   | 61      |
| 90                   | 0       |

| Luminance            |                   |
|----------------------|-------------------|
| (Average Candela/M²) |                   |
| Degree               | Avg. 0° Luminance |
| 45                   | 48127             |
| 55                   | 33429             |
| 65                   | 23210             |
| 75                   | 15667             |
| 85                   | 11393             |

| Cone of Light Footcandles     |                           |                     |                    |
|-------------------------------|---------------------------|---------------------|--------------------|
| Distance to Illuminated Plane | Initial Nadir Footcandles | Beam (ft.)          |                    |
|                               |                           | L <sub>Length</sub> | W <sub>Width</sub> |
| 5.5'                          | 54.3                      | 7.4                 | 7.4                |
| 7'                            | 33.5                      | 9.4                 | 9.4                |
| 8'                            | 25.7                      | 10.8                | 10.8               |
| 9'                            | 20.3                      | 12.2                | 12.2               |
| 10'                           | 16.4                      | 13.6                | 13.6               |
| 12'                           | 11.4                      | 16.2                | 16.2               |

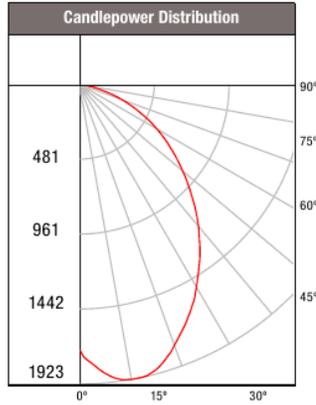
Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.  
Footcandle values are initial, apply appropriate light loss factors where necessary.

\*CBCP

## WALL WASH PHOTOMETRY

PR8S40D010 - PR8M34WW - 3500K  
Spacing Criteria = 0.99  
Lumens per Watt = 81.1 Lm/W  
Test No. P210675  
Test Model: PR8S40D010-PR8M34WW-3500K

| Zonal Lumen Summary |        |           |
|---------------------|--------|-----------|
| Zone                | Lumens | % Fixture |
| 0-30                | 1207   | 34.2      |
| 0-40                | 1869   | 53        |
| 0-60                | 2999   | 85        |
| 0-90                | 3528   | 100       |



| Candela Distribution |         |
|----------------------|---------|
| Degrees Vertical     | Candela |
| 0°                   | 1699    |
| 5                    | 1860    |
| 10                   | 1923    |
| 20                   | 1782    |
| 30                   | 1502    |
| 40                   | 1189    |
| 50                   | 866     |
| 60                   | 576     |
| 70                   | 292     |
| 80                   | 60      |
| 90                   | 0       |

| Luminance            |                   |
|----------------------|-------------------|
| (Average Candela/M²) |                   |
| Degree               | Avg. 0° Luminance |
| 45                   | 44638             |
| 55                   | 38547             |
| 65                   | 31514             |
| 75                   | 18110             |
| 85                   | 5201              |

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| Single Unit Footcandles                              |      |      |      |      |     |     |     |   |
|--|------|------|------|------|-----|-----|-----|---|
| 2.5' from wall<br>(distance from fixture along wall) |      |      |      |      |     |     |     |   |
|  | 1    | 2    | 3    | 4    | 5   | 6   | 7   | 8 |
| 1  | 43.8 | 31.9 | 14.4 | 5.7  | 2.4 | 1   | 0.5 |   |
| 2  | 62.9 | 50.8 | 29.1 | 14.5 | 7.1 | 3.5 | 1.8 |   |
| 3  | 50.2 | 43.3 | 29   | 17   | 9.6 | 5.4 | 3.1 |   |
| 4  | 34.3 | 30.8 | 23.1 | 15.4 | 9.7 | 6   | 3.7 |   |
| 5  | 23   | 21.2 | 17.1 | 12.5 | 8.7 | 5.8 | 3.9 |   |
| 6  | 15.6 | 14.7 | 12.5 | 9.8  | 7.3 | 5.2 | 3.7 |   |
| 7  | 10.9 | 10.4 | 9.1  | 7.5  | 5.9 | 4.5 | 3.3 |   |
| 8  | 7.9  | 7.5  | 6.8  | 5.8  | 4.7 | 3.8 | 2.9 |   |
| 9  | 5.8  | 5.6  | 5.1  | 4.5  | 3.8 | 3.1 | 2.5 |   |
| 10   | 4.4  | 4.2  | 3.9  | 3.5  | 3   | 2.6 | 2.1 |   |

| Multiple Unit Footcandles                    |      |      |      |
|--|------|------|------|
| 2.5' from wall<br>(spacing between fixtures) |      |      |      |
|  | 1    | 2    | 3    |
| 1  | 49.6 | 44.5 | 49.6 |
| 2  | 77.4 | 79.5 | 77.4 |
| 3  | 67.2 | 72.7 | 67.2 |
| 4  | 49.7 | 54.4 | 49.7 |
| 5  | 35.5 | 38.7 | 35.5 |
| 6  | 25.4 | 27.4 | 25.4 |
| 7  | 18.4 | 19.6 | 18.4 |
| 8  | 13.6 | 14.3 | 13.6 |
| 9  | 10.3 | 10.7 | 10.3 |
| 10   | 7.9  | 8.2  | 7.9  |

| Multiple Unit Footcandles                    |      |      |      |
|--|------|------|------|
| 2.5' from wall<br>(spacing between fixtures) |      |      |      |
|  | 1    | 2    | 3    |
| 1  | 46.2 | 28.9 | 46.2 |
| 2  | 69.9 | 58.2 | 69.9 |
| 3  | 59.7 | 58   | 59.7 |
| 4  | 44   | 46.3 | 44   |
| 5  | 31.7 | 34.2 | 31.7 |
| 6  | 22.9 | 24.9 | 22.9 |
| 7  | 16.8 | 18.2 | 16.8 |
| 8  | 12.6 | 13.5 | 12.6 |
| 9  | 9.6  | 10.2 | 9.6  |
| 10   | 7.4  | 7.9  | 7.4  |

Specifications and dimensions subject to change without notice.

## RECESSED LINEAR

### Downlight 7" Aperture - Surface Mount...

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Manufacturer: Signify/Lightolier  
Style/Series: SlimSurface LED S7R 9 30K 10



### Sales Rep

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#### Primary

Ryan Smillie  
Email: ryan.smillie@signify.com  
Office Phone: 408-813-3032

### Attributes

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Downlight 7" Aperture - Surface Mount

Type: Surface Mount Downlight

### DIMENSIONS

Width: 7"  
Height: 5/8"

### MATERIAL/FINISH

Finish: White

### MISCELLANEOUS

Lead Time: In stock or 4 weeks  
Warranty: Five year limited warranty

### CUSTOM FIELDS

Finish: White  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 1081  
Mount: Surface Mount  
Lamp Type: LED  
Lens/Shade: Clear  
Lamp CRI: 90  
Trim: White  
Reflector: NA  
Voltage: 120-277V  
On Dimming System: No  
Lamp Kelvin: 3000K  
Dimming Type: NA

### Notes

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Efficacy: 80lpw  
Lamp Life/Fixture Life: 50,000 Hours  
Fixture Input (Max. Watts): 13.5

Special Instructions

Block and plank installations surface mount to Jbox. Use at ceilings  
10' high and below.



SlimSurface is a 5/8" thick LED surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface round apertures are available as a 5" 650lm, 7" 1000lm and 10" 2200lm fixture.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

example: S5R830K7AL

| Series   | CRI                       | CCT  | Lumens    | Finish  | Dimming   |
|--|---------------------------|--|-----------|---|---|
| <b>S7R</b>                                     | <b>9</b>                  | <b>30K</b>                                       | <b>10</b> |  |  |
| <b>S5R</b> SlimSurface 5" Round                | 8 80<br>9 90 <sup>1</sup> | 27K 2700K<br>30K 3000K<br>35K 3500K<br>40K 4000K | 7 650lm   | — White<br>AL Aluminum<br>BK Black<br>W White<br>AL Aluminum<br>BK Black          | blank ELV / Triac (120V)<br>Z10U 0-10V (120V-277V)                                |
| <b>S7R</b> SlimSurface 7" Round                | 8 80<br>9 90 <sup>1</sup> | 27K 2700K<br>30K 3000K<br>35K 3500K<br>40K 4000K | 10 1000lm | — White<br>AL Aluminum<br>BK Black<br>W White<br>AL Aluminum<br>BK Black          | blank ELV / Triac (120V)<br>Z10U 0-10V (120V-277V)                                |
| <b>S10R</b> SlimSurface 10" Round <sup>2</sup> | 8 80<br>9 90 <sup>1</sup> | 27K 2700K<br>30K 3000K<br>35K 3500K<br>40K 4000K | 22 2200lm | W White<br>AL Aluminum<br>BK Black<br>MT Metallic                                 | blank ELV / Triac (120V)<br>Z10U 0-10V (120V-277V)                                |



- Configurations using 90 CRI are only available with 2700K & 3000K CCT.
- IMPORTANT: SlimSurface LED 10" round installs into 4-11/16" J-box (not wet location listed).**

### Features

- Flange:** One piece plastic flange. Injection molded white, applied aluminum or black.
- Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
- Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
- LED Strip:** Utilizes LEDs.
- Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty\*
- Compliance:** Non-conductive fixture for shower light application (not applicable to metal trim model).

### Dimming

Intended for ELV/Triac (120V) or 0-10V dimming (120V-277V) based on the configuration. Min 90°C supply conductors.

### Electrical

**Electronic power supply:** RoHS compliant. Class 2 power unit. Unit tolerates sustained open and short circuit output conditions without damage.

| Electrical specifications | Dimming | Input volts | Input frequency | Input current | Input Power | THD Factor | Power Factor | Minimum Operating Temp. |
|---------------------------|---------|-------------|-----------------|---------------|-------------|------------|--------------|-------------------------|
| Slim 5" 650lm             | Triac   | 120V        | 50/60Hz         | 0.08A         | 9.5W        | <15%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.09A         | 10.1W       | <20%       | >0.9         | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.04A         | 10.2W       | <20%       | >0.9         | -20°C                   |
| Slim 7" 1000lm            | Triac   | 120V        | 50/60Hz         | 0.13A         | 14.2W       | <15%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.12A         | 14.4W       | <20%       | >0.9         | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.06A         | 14.7W       | <20%       | >0.9         | -20°C                   |
| Slim 10" 2200lm           | Triac   | 120V        | 50/60Hz         | 0.20A         | 23.2W       | <20%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.20A         | 23.2W       | <10%       | >0.95        | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.09A         | 24.6W       | <15%       | >0.95        | -20°C                   |

For more details, please see LED-DIM-DL spec sheet.  
 \* See Philips.com/warranties for warranty details.

### Labels

cULus listed. ENERGY STAR® certified. All models are damp location rated for walls or ceilings. The 5" & 7" are suitable for ceiling mount wet locations when installed per instructions.



# S5R, S7R & S10R SlimSurface LED

## Round 5", 7" and 10" Apertures

### Compatibility (10" Round)

Install into 4-11/16" J-box:



4 11/16" square (metal)  
Compatible with S10R only

### Compatibility (5" & 7" Round)

Installs into standard J-box applications for 5" & 7" models:



3 1/2" round (plastic)



4" square (plastic)

Not compatible with S5R



4" octagonal (metal)



4" square (metal)

Not compatible with S5R



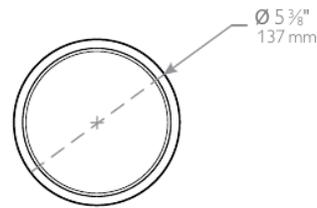
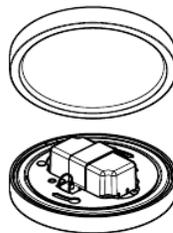
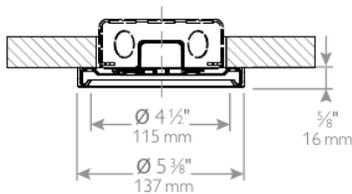
Fire rated J-box

Fire rated classification is per the ceiling and junction box ratings.

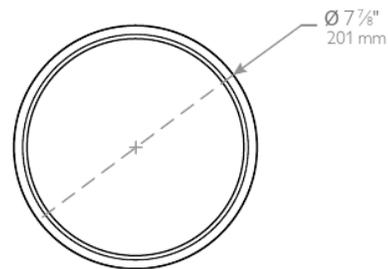
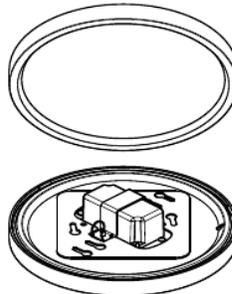
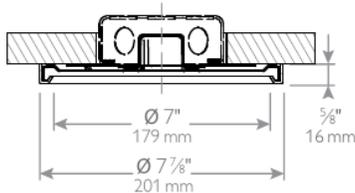
Note: A 2 1/8" deep octagon junction box is recommended for through circuit wiring applications.

### Dimensions

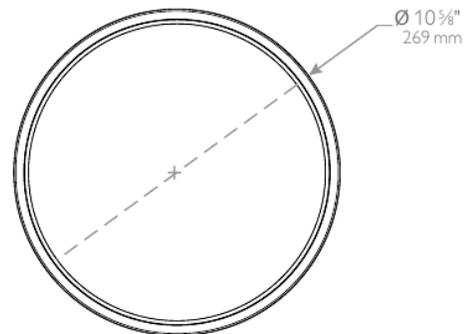
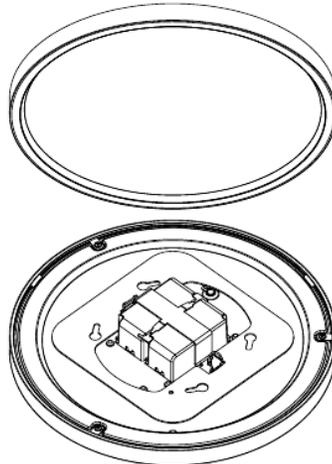
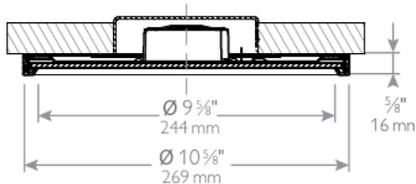
#### SlimSurface LED 5" downlight



#### SlimSurface LED 7" downlight



#### SlimSurface LED 10" downlight

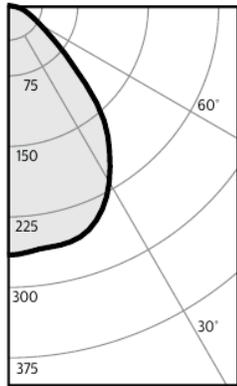


# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S5R927K7 • 10W LED, 90 CRI, 2700 K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 266     | 25     |
| 5     | 263     |        |
| 10    | 261     |        |
| 15    | 260     | 736    |
| 20    | 254     |        |
| 25    | 239     | 110    |
| 30    | 217     |        |
| 35    | 190     | 118    |
| 40    | 160     |        |
| 45    | 118     | 91     |
| 50    | 81      |        |
| 55    | 55      | 51     |
| 60    | 40      |        |
| 65    | 30      | 31     |
| 70    | 23      |        |
| 75    | 18      | 18     |
| 80    | 11      |        |
| 85    | 4       | 5      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 11                               | 6.0'            |
| 6'                      | 7                                | 7.2'            |
| 7'                      | 5                                | 8.4'            |
| 8'                      | 4                                | 9.6'            |
| 9'                      | 3                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 21.8                             | 0.40             |
| 6'                | 14.2                             | 0.26             |
| 7'                | 10.2                             | 0.19             |
| 8'                | 8.5                              | 0.16             |
| 9'                | 6.8                              | 0.13             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 98  | 100 | 95  | 97  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 73  | 84  | 73  | 82  | 72  | 79  | 70  | 67  |
|                   | 4   | 88  | 78  | 70  | 64  | 76  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 64  | 57  | 51  | 64  | 51  | 62  | 50  | 60  | 50  | 48  |
|                   | 7   | 71  | 59  | 51  | 46  | 58  | 46  | 57  | 45  | 56  | 45  | 43  |
|                   | 8   | 67  | 54  | 47  | 42  | 54  | 41  | 53  | 41  | 51  | 41  | 39  |
|                   | 9   | 63  | 50  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 37  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 46  | 35  | 45  | 34  | 44  | 34  | 33  |

### Report#: 1053GFR

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 523lms | Efficacy:          | 57.4lm/w |
| Spacing Criterion:         | 1.2    | CCT <sup>2</sup> : | 2700K    |
| Beam Angle:                | 87°    | CRI:               | 90min    |
| Input Watts <sup>2</sup> : | 9.1W   |                    |          |

### Zonal lumens & percentages

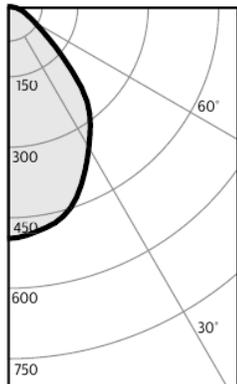
| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 208    | 39.8%      |
| 0-40 | 326    | 62.5%      |
| 0-60 | 469    | 89.7%      |
| 0-90 | 522    | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

## S7R927K10 • 14W LED, 90 CRI, 2700 K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 496     | 46     |
| 5     | 490     |        |
| 10    | 479     |        |
| 15    | 464     | 130    |
| 20    | 433     |        |
| 25    | 391     | 180    |
| 30    | 348     |        |
| 35    | 309     | 193    |
| 40    | 265     |        |
| 45    | 197     | 152    |
| 50    | 135     |        |
| 55    | 92      | 85     |
| 60    | 68      |        |
| 65    | 51      | 52     |
| 70    | 40      |        |
| 75    | 30      | 32     |
| 80    | 21      |        |
| 85    | 9       | 10     |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 20                               | 5.5'            |
| 6'                      | 14                               | 6.6'            |
| 7'                      | 10                               | 7.7'            |
| 8'                      | 8                                | 8.8'            |
| 9'                      | 6                                | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 21.8                             | 2.89             |
| 6'                | 14.2                             | 1.90             |
| 7'                | 10.2                             | 1.35             |
| 8'                | 8.5                              | 1.13             |
| 9'                | 6.8                              | 0.90             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 71  | 67  |
|                   | 4   | 88  | 78  | 70  | 65  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 51  | 61  | 50  | 48  |
|                   | 7   | 71  | 59  | 52  | 46  | 59  | 46  | 57  | 46  | 56  | 45  | 43  |
|                   | 8   | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 42  | 52  | 41  | 39  |
|                   | 9   | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |

### Report#: 962GFR

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 880lms | Efficacy:          | 65.2lm/w |
| Spacing Criterion:         | 1.1    | CCT <sup>2</sup> : | 2700K    |
| Beam Angle:                | 83°    | CRI:               | 90min    |
| Input Watts <sup>2</sup> : | 13.5W  |                    |          |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 356    | 40.5%      |
| 0-40 | 549    | 62.4%      |
| 0-60 | 786    | 89.3%      |
| 0-90 | 880    | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

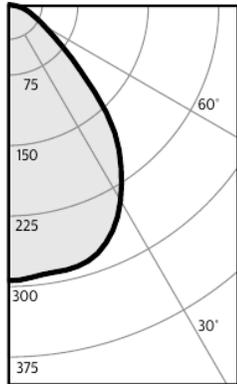
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
 2. Wattage: controlled to within 5%  
 3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S5R827K7 • 10W LED, 80 CRI, 2700 K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 294     | 28     |
| 5     | 291     | 81     |
| 10    | 289     | 121    |
| 15    | 288     | 131    |
| 20    | 281     | 102    |
| 25    | 265     | 57     |
| 30    | 241     | 34     |
| 35    | 211     | 21     |
| 40    | 178     | 13     |
| 45    | 131     | 5      |
| 50    | 91      |        |
| 55    | 62      |        |
| 60    | 45      |        |
| 65    | 34      |        |
| 70    | 26      |        |
| 75    | 20      |        |
| 80    | 13      |        |
| 85    | 4       |        |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 12                               | 6.0'            |
| 6'                      | 8                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 24.2                             | 2.77             |
| 6'                | 15.8                             | 1.82             |
| 7'                | 11.3                             | 1.30             |
| 8'                | 9.5                              | 1.08             |
| 9'                | 7.5                              | 0.87             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 105 | 100 | 95  | 97  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 94  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 73  | 84  | 84  | 82  | 72  | 79  | 70  | 67  |
|                   | 4   | 88  | 78  | 70  | 64  | 76  | 76  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 70  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 64  | 57  | 51  | 64  | 64  | 62  | 50  | 60  | 50  | 48  |
|                   | 7   | 71  | 59  | 51  | 46  | 58  | 58  | 57  | 45  | 56  | 45  | 43  |
|                   | 8   | 67  | 54  | 47  | 42  | 54  | 54  | 53  | 41  | 51  | 41  | 39  |
|                   | 9   | 63  | 50  | 43  | 38  | 50  | 50  | 49  | 38  | 48  | 37  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 46  | 46  | 45  | 34  | 44  | 34  | 33  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 231    | 39.7%      |
| 0-40 | 362    | 62.3%      |
| 0-60 | 521    | 89.6%      |
| 0-90 | 581    | 100.0%     |

### CRI and CCT adjustment factors

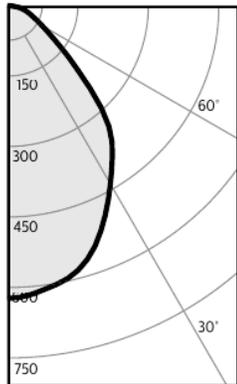
|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

### Report #: 1054GFR

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 581lms | Efficacy:          | 62.5lm/w |
| Spacing Criterion:         | 1.2    | CCT <sup>2</sup> : | 2700 K   |
| Beam Angle:                | 87°    | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 9.3W   |                    |          |

## S7R827K10 • 14W LED, 80 CRI, 2700 K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 625     | 59     |
| 5     | 618     | 164    |
| 10    | 604     | 227    |
| 15    | 584     | 244    |
| 20    | 546     | 193    |
| 25    | 494     | 108    |
| 30    | 440     | 65     |
| 35    | 390     | 41     |
| 40    | 337     | 13     |
| 45    | 250     |        |
| 50    | 170     |        |
| 55    | 117     |        |
| 60    | 85      |        |
| 65    | 65      |        |
| 70    | 51      |        |
| 75    | 39      |        |
| 80    | 27      |        |
| 85    | 12      |        |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 25                               | 5.5'            |
| 6'                      | 17                               | 6.6'            |
| 7'                      | 13                               | 7.7'            |
| 8'                      | 10                               | 8.8'            |
| 9'                      | 8                                | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 24.2                             | 3.68             |
| 6'                | 15.8                             | 2.42             |
| 7'                | 11.3                             | 1.73             |
| 8'                | 9.5                              | 1.44             |
| 9'                | 7.5                              | 1.15             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 71  | 67  |
|                   | 4   | 88  | 78  | 70  | 65  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 51  | 61  | 50  | 48  |
|                   | 7   | 71  | 59  | 52  | 46  | 59  | 46  | 57  | 46  | 56  | 45  | 43  |
|                   | 8   | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 42  | 52  | 41  | 39  |
|                   | 9   | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 449    | 40.4%      |
| 0-40 | 693    | 62.3%      |
| 0-60 | 994    | 89.3%      |
| 0-90 | 1113   | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

### Report #: 964GFR

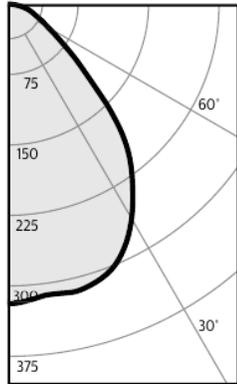
|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1113lms | Efficacy:          | 83.1lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>2</sup> : | 2700 K   |
| Beam Angle:                | 83°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 13.4W   |                    |          |

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S5R830K7 • 10W LED, 80CRI, 3000K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 319     | 30     |
| 5     | 315     |        |
| 10    | 313     |        |
| 15    | 313     | 88     |
| 20    | 306     |        |
| 25    | 290     | 131    |
| 30    | 264     |        |
| 35    | 231     | 142    |
| 40    | 197     |        |
| 45    | 146     | 109    |
| 50    | 100     |        |
| 55    | 69      | 62     |
| 60    | 50      |        |
| 65    | 38      | 37     |
| 70    | 29      |        |
| 75    | 22      | 22     |
| 80    | 15      |        |
| 85    | 6       | 6      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 13                               | 6.0'            |
| 6'                      | 9                                | 7.2'            |
| 7'                      | 7                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 26.2                             | 3.06             |
| 6'                | 17.1                             | 2.01             |
| 7'                | 12.2                             | 1.43             |
| 8'                | 10.2                             | 1.19             |
| 9'                | 8.1                              | 0.96             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 98  | 100 | 95  | 97  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 73  | 84  | 73  | 82  | 72  | 79  | 70  | 67  |
|                   | 4   | 88  | 78  | 70  | 64  | 76  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 64  | 57  | 51  | 64  | 51  | 62  | 50  | 60  | 50  | 48  |
|                   | 7   | 71  | 59  | 51  | 46  | 58  | 46  | 57  | 45  | 56  | 45  | 43  |
|                   | 8   | 67  | 54  | 47  | 42  | 54  | 41  | 53  | 41  | 51  | 41  | 39  |
|                   | 9   | 63  | 50  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 37  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 46  | 35  | 45  | 34  | 44  | 34  | 33  |

### Report#: 1055GFR

Output lumens: 628lms  
Spacing Criterion: 1.2  
Beam Angle: 87°  
Input Watts²: 9.1W

Efficacy: 69.0lm/w  
CCT²: 3000K  
CRI: 80min

### Zonal lumens & percentages

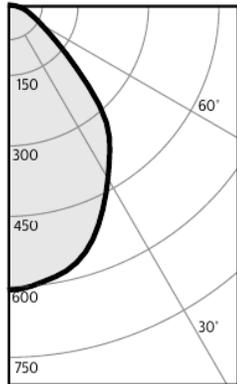
| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 249    | 39.7%      |
| 0-40 | 391    | 62.3%      |
| 0-60 | 562    | 89.6%      |
| 0-90 | 628    | 100.0%     |

### CRI and CCT adjustment factors

90 CRI 2700K = 84%  
80 CRI 2700K = 100%  
80 CRI 3000K = 100%  
80 CRI 3500K = 105%  
80 CRI 4000K = 109%

## S7R830K10 • 14W LED, 80CRI, 3000K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 607     | 57     |
| 5     | 601     |        |
| 10    | 588     |        |
| 15    | 568     | 159    |
| 20    | 531     |        |
| 25    | 480     | 221    |
| 30    | 427     |        |
| 35    | 379     | 237    |
| 40    | 328     |        |
| 45    | 243     | 187    |
| 50    | 165     |        |
| 55    | 113     | 105    |
| 60    | 83      |        |
| 65    | 63      | 63     |
| 70    | 49      |        |
| 75    | 37      | 39     |
| 80    | 26      |        |
| 85    | 12      | 13     |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 24                               | 5.5'            |
| 6'                      | 17                               | 6.6'            |
| 7'                      | 12                               | 7.7'            |
| 8'                      | 9                                | 8.8'            |
| 9'                      | 7                                | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 26.2                             | 3.55             |
| 6'                | 17.1                             | 2.33             |
| 7'                | 12.2                             | 1.66             |
| 8'                | 10.2                             | 1.39             |
| 9'                | 8.1                              | 1.11             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 71  | 67  |
|                   | 4   | 88  | 78  | 70  | 65  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 51  | 61  | 50  | 48  |
|                   | 7   | 71  | 59  | 52  | 46  | 59  | 46  | 57  | 46  | 56  | 45  | 43  |
|                   | 8   | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 42  | 52  | 41  | 39  |
|                   | 9   | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |

### Report#: 961GFR

Output lumens: 1081lms  
Spacing Criterion: 1.1  
Beam Angle: 83°  
Input Watts²: 13.5W

Efficacy: 80.0lm/w  
CCT²: 3000K  
CRI: 80min

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 437    | 40.4%      |
| 0-40 | 674    | 62.3%      |
| 0-60 | 966    | 89.4%      |
| 0-90 | 1081   | 100.0%     |

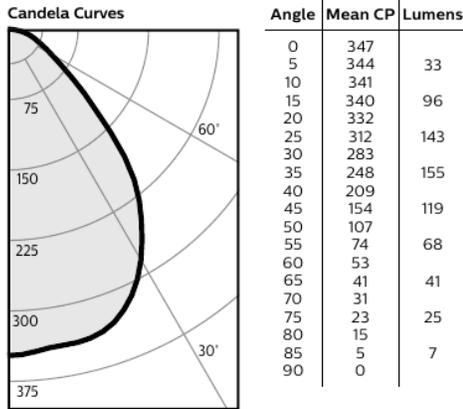
### CRI and CCT adjustment factors

90 CRI 2700K = 84%  
80 CRI 2700K = 100%  
80 CRI 3000K = 100%  
80 CRI 3500K = 105%  
80 CRI 4000K = 109%

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S5R835K7 • 10W LED, 80CRI, 3500K



Report#: 1056GFR

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 685lms | Efficacy:          | 75.3lm/w |
| Spacing Criterion:         | 1.2    | CCT <sup>3</sup> : | 3500K    |
| Beam Angle:                | 87°    | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 9.1W   |                    |          |

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 14                               | 6.0'            |
| 6'                      | 10                               | 7.2'            |
| 7'                      | 7                                | 8.4'            |
| 8'                      | 5                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 28.6                             | 3.34             |
| 6'                | 18.7                             | 2.19             |
| 7'                | 13.3                             | 1.56             |
| 8'                | 11.2                             | 1.30             |
| 9'                | 8.9                              | 1.04             |

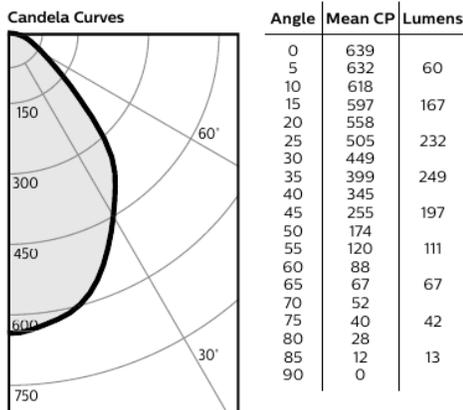
38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 111 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 98  | 100 | 95  | 95  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 82  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 73  | 84  | 73  | 82  | 72  | 72  | 70  | 67  |
|                   | 4   | 88  | 78  | 70  | 64  | 76  | 64  | 74  | 63  | 63  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 56  | 56  | 53  |
|                   | 6   | 76  | 64  | 57  | 51  | 64  | 51  | 62  | 50  | 50  | 50  | 48  |
|                   | 7   | 71  | 59  | 51  | 46  | 58  | 46  | 57  | 45  | 45  | 45  | 43  |
|                   | 8   | 67  | 54  | 47  | 42  | 54  | 41  | 53  | 41  | 41  | 41  | 39  |
|                   | 9   | 63  | 50  | 43  | 38  | 50  | 38  | 49  | 38  | 38  | 37  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 46  | 35  | 45  | 34  | 34  | 34  | 33  |

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 272    | 39.6%      |
| 0-40 | 426    | 62.2%      |
| 0-60 | 613    | 89.5%      |
| 0-90 | 685    | 100.0%     |

| CRI and CCT adjustment factors |  |
|--------------------------------|--|
| 90 CRI 2700K = 84%             |  |
| 80 CRI 2700K = 100%            |  |
| 80 CRI 3000K = 100%            |  |
| 80 CRI 3500K = 105%            |  |
| 80 CRI 4000K = 109%            |  |

## S7R835K10 • 14W LED, 80CRI, 3500K



Report#: 965GFR

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1139lms | Efficacy:          | 84.4lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>3</sup> : | 3500K    |
| Beam Angle:                | 83°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 13.5W   |                    |          |

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 26                               | 5.5'            |
| 6'                      | 18                               | 6.6'            |
| 7'                      | 13                               | 7.7'            |
| 8'                      | 10                               | 8.8'            |
| 9'                      | 8                                | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 28.6                             | 3.74             |
| 6'                | 18.7                             | 2.45             |
| 7'                | 13.3                             | 1.75             |
| 8'                | 11.2                             | 1.46             |
| 9'                | 8.9                              | 1.17             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 71  | 67  |
|                   | 4   | 88  | 78  | 70  | 65  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 51  | 61  | 50  | 48  |
|                   | 7   | 71  | 59  | 52  | 46  | 59  | 46  | 57  | 46  | 56  | 45  | 43  |
|                   | 8   | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 42  | 52  | 41  | 39  |
|                   | 9   | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 459    | 40.3%      |
| 0-40 | 708    | 62.2%      |
| 0-60 | 1016   | 89.2%      |
| 0-90 | 1139   | 100.0%     |

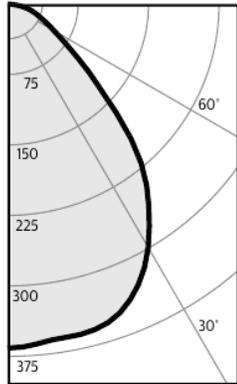
| CRI and CCT adjustment factors |  |
|--------------------------------|--|
| 90 CRI 2700K = 84%             |  |
| 80 CRI 2700K = 100%            |  |
| 80 CRI 3000K = 100%            |  |
| 80 CRI 3500K = 105%            |  |
| 80 CRI 4000K = 109%            |  |

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S5R840K7 • 10W LED, 80 CRI, 4000K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 366     |        |
| 5     | 363     | 35     |
| 10    | 360     |        |
| 15    | 359     | 101    |
| 20    | 350     |        |
| 25    | 329     | 151    |
| 30    | 299     |        |
| 35    | 262     | 163    |
| 40    | 221     |        |
| 45    | 163     | 126    |
| 50    | 113     |        |
| 55    | 79      | 72     |
| 60    | 57      |        |
| 65    | 44      | 44     |
| 70    | 34      |        |
| 75    | 25      | 27     |
| 80    | 16      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 15                               | 6.0'            |
| 6'                      | 10                               | 7.2'            |
| 7'                      | 7                                | 8.4'            |
| 8'                      | 6                                | 9.6'            |
| 9'                      | 5                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 30.3                             | 3.54             |
| 6'                | 19.8                             | 2.32             |
| 7'                | 14.1                             | 1.66             |
| 8'                | 11.8                             | 1.38             |
| 9'                | 9.4                              | 1.10             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 98  | 100 | 95  | 97  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 73  | 84  | 73  | 82  | 72  | 79  | 70  | 67  |
|                   | 4   | 88  | 78  | 70  | 64  | 76  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 64  | 57  | 51  | 64  | 51  | 62  | 50  | 60  | 50  | 48  |
|                   | 7   | 71  | 59  | 51  | 46  | 58  | 46  | 57  | 45  | 56  | 45  | 43  |
|                   | 8   | 67  | 54  | 47  | 42  | 54  | 41  | 53  | 41  | 51  | 41  | 39  |
|                   | 9   | 63  | 50  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 37  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 46  | 35  | 45  | 34  | 44  | 34  | 33  |

### Report#: 1057GFR

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 726lms | Efficacy:          | 79.8lm/w |
| Spacing Criterion:         | 1.2    | CCT <sup>3</sup> : | 4000K    |
| Beam Angle:                | 87°    | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 9.1W   |                    |          |

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 726lms | Efficacy:          | 79.8lm/w |
| Spacing Criterion:         | 1.2    | CCT <sup>3</sup> : | 4000K    |
| Beam Angle:                | 87°    | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 9.1W   |                    |          |

### Zonal lumens & percentages

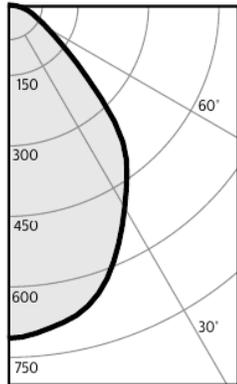
| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 286    | 39.5%      |
| 0-40 | 450    | 62.0%      |
| 0-60 | 648    | 89.3%      |
| 0-90 | 726    | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

## S7R840K10 • 14W LED, 90 CRI, 2700K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 710     |        |
| 5     | 702     | 66     |
| 10    | 686     |        |
| 15    | 663     | 186    |
| 20    | 620     |        |
| 25    | 560     | 258    |
| 30    | 499     |        |
| 35    | 443     | 276    |
| 40    | 382     |        |
| 45    | 283     | 218    |
| 50    | 193     |        |
| 55    | 133     | 122    |
| 60    | 97      |        |
| 65    | 74      | 74     |
| 70    | 57      |        |
| 75    | 44      | 46     |
| 80    | 30      |        |
| 85    | 14      | 15     |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 28                               | 5.5'            |
| 6'                      | 20                               | 6.6'            |
| 7'                      | 14                               | 7.7'            |
| 8'                      | 11                               | 8.8'            |
| 9'                      | 9                                | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 30.3                             | 4.17             |
| 6'                | 19.8                             | 2.74             |
| 7'                | 14.1                             | 1.96             |
| 8'                | 11.8                             | 1.63             |
| 9'                | 9.4                              | 1.30             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |
|                   | 3   | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 71  | 67  |
|                   | 4   | 88  | 78  | 70  | 65  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |
|                   | 5   | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |
|                   | 6   | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 51  | 61  | 50  | 48  |
|                   | 7   | 71  | 59  | 52  | 46  | 59  | 46  | 57  | 46  | 56  | 45  | 43  |
|                   | 8   | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 42  | 52  | 41  | 39  |
|                   | 9   | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |
|                   | 10  | 59  | 47  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |

### Report#: 963GFR

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1262lms | Efficacy:          | 94.2lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>3</sup> : | 4000K    |
| Beam Angle:                | 83°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 13.4W   |                    |          |

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1262lms | Efficacy:          | 94.2lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>3</sup> : | 4000K    |
| Beam Angle:                | 83°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 13.4W   |                    |          |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 510    | 40.4%      |
| 0-40 | 786    | 62.3%      |
| 0-60 | 1127   | 89.3%      |
| 0-90 | 1262   | 100.0%     |

### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90 CRI 2700K = 84%  |
| 80 CRI 2700K = 100% |
| 80 CRI 3000K = 100% |
| 80 CRI 3500K = 105% |
| 80 CRI 4000K = 109% |

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S10R830K22 • 24W LED, 80 CRI, 3000 K

| Candela Curves | Angle | Mean CP | Lumens |
|----------------|-------|---------|--------|
|                | 0     | 1027    |        |
|                | 5     | 1017    | 97     |
|                | 10    | 1008    |        |
|                | 15    | 992     | 279    |
|                | 20    | 947     |        |
|                | 25    | 871     | 399    |
|                | 30    | 776     |        |
|                | 35    | 685     | 429    |
|                | 40    | 597     |        |
|                | 45    | 459     | 351    |
|                | 50    | 313     |        |
|                | 55    | 223     | 204    |
|                | 60    | 161     |        |
|                | 65    | 122     | 122    |
|                | 70    | 93      |        |
|                | 75    | 70      | 74     |
|                | 80    | 46      |        |
|                | 85    | 20      | 23     |
|                | 90    | 0       |        |

Report#: S10R927K22BK

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1977lms | Efficacy:          | 84.1lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>2</sup> : | 3000K    |
| Beam Angle:                | 87°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 23.5W   |                    |          |

| Single unit data        |                                  |                 |
|-------------------------|----------------------------------|-----------------|
| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
| 5'                      | 41                               | 5.5'            |
| 6'                      | 29                               | 6.6'            |
| 7'                      | 21                               | 7.7'            |
| 8'                      | 16                               | 8.8'            |
| 9'                      | 13                               | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

| Multiple unit data - RCR 2 |                                  |                  |
|----------------------------|----------------------------------|------------------|
| Spacing on center          | Initial center beam foot-candles | Watts per sq.ft. |
| 5'                         | 83.4                             | 1.04             |
| 6'                         | 54.8                             | 0.68             |
| 7'                         | 39.1                             | 0.49             |
| 8'                         | 32.6                             | 0.41             |
| 9'                         | 26.1                             | 0.33             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

| Coefficients of utilization |   |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ceiling                     | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|                             | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall                        | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR                         | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio           | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                             | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                             | 2   | 102 | 95  | 90  | 85  | 93  | 84  | 90  | 82  | 87  | 80  | 76  |
|                             | 3   | 95  | 86  | 79  | 73  | 84  | 72  | 81  | 71  | 79  | 70  | 67  |
|                             | 4   | 88  | 77  | 70  | 64  | 76  | 63  | 74  | 63  | 71  | 62  | 59  |
|                             | 5   | 82  | 70  | 62  | 56  | 69  | 56  | 67  | 56  | 65  | 55  | 53  |
|                             | 6   | 76  | 64  | 56  | 50  | 63  | 50  | 61  | 50  | 60  | 49  | 47  |
|                             | 7   | 71  | 59  | 51  | 45  | 58  | 45  | 57  | 45  | 55  | 45  | 43  |
|                             | 8   | 66  | 54  | 46  | 41  | 53  | 41  | 52  | 41  | 51  | 41  | 39  |
|                             | 9   | 62  | 50  | 43  | 37  | 49  | 37  | 48  | 37  | 47  | 37  | 35  |
|                             | 10  | 59  | 47  | 39  | 34  | 46  | 34  | 45  | 34  | 44  | 34  | 32  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 775    | 39.2%      |
| 0-40 | 1203   | 60.9%      |
| 0-60 | 1758   | 88.9%      |
| 0-90 | 1977   | 100.0%     |

## S10R835K22 • 24W LED, 80 CRI, 3500 K

| Candela Curves | Angle | Mean CP | Lumens |
|----------------|-------|---------|--------|
|                | 0     | 1000    |        |
|                | 5     | 990     | 94     |
|                | 10    | 981     |        |
|                | 15    | 966     | 271    |
|                | 20    | 922     |        |
|                | 25    | 847     | 388    |
|                | 30    | 754     |        |
|                | 35    | 664     | 416    |
|                | 40    | 579     |        |
|                | 45    | 442     | 339    |
|                | 50    | 300     |        |
|                | 55    | 212     | 195    |
|                | 60    | 153     |        |
|                | 65    | 117     | 117    |
|                | 70    | 89      |        |
|                | 75    | 67      | 71     |
|                | 80    | 44      |        |
|                | 85    | 20      | 22     |
|                | 90    | 0       |        |

Report#: 963GFR

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1913lms | Efficacy:          | 80.0lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>2</sup> : | 3500K    |
| Beam Angle:                | 87°     | CRI:               | 80min    |
| Input Watts <sup>2</sup> : | 23.9W   |                    |          |

| Single unit data        |                                  |                 |
|-------------------------|----------------------------------|-----------------|
| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
| 5'                      | 40                               | 5.5'            |
| 6'                      | 28                               | 6.6'            |
| 7'                      | 20                               | 7.7'            |
| 8'                      | 16                               | 8.8'            |
| 9'                      | 12                               | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

| Multiple unit data - RCR 2 |                                  |                  |
|----------------------------|----------------------------------|------------------|
| Spacing on center          | Initial center beam foot-candles | Watts per sq.ft. |
| 5'                         | 80.8                             | 1.06             |
| 6'                         | 53.0                             | 0.70             |
| 7'                         | 37.9                             | 0.50             |
| 8'                         | 31.6                             | 0.41             |
| 9'                         | 25.2                             | 0.33             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

| Coefficients of utilization |   |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ceiling                     | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|                             | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall                        | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR                         | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio           | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                             | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                             | 2   | 102 | 95  | 90  | 85  | 93  | 84  | 90  | 82  | 87  | 80  | 76  |
|                             | 3   | 95  | 86  | 79  | 73  | 84  | 72  | 81  | 71  | 79  | 70  | 67  |
|                             | 4   | 88  | 77  | 70  | 64  | 76  | 64  | 74  | 63  | 72  | 62  | 59  |
|                             | 5   | 82  | 70  | 62  | 57  | 69  | 56  | 67  | 56  | 65  | 55  | 53  |
|                             | 6   | 76  | 64  | 56  | 51  | 63  | 50  | 62  | 50  | 60  | 50  | 47  |
|                             | 7   | 71  | 59  | 51  | 45  | 58  | 45  | 57  | 45  | 55  | 45  | 43  |
|                             | 8   | 67  | 54  | 47  | 41  | 54  | 41  | 52  | 41  | 51  | 41  | 39  |
|                             | 9   | 62  | 50  | 43  | 38  | 50  | 38  | 49  | 37  | 48  | 37  | 35  |
|                             | 10  | 59  | 47  | 39  | 35  | 46  | 34  | 45  | 34  | 44  | 34  | 32  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 754    | 39.4%      |
| 0-40 | 1170   | 61.2%      |
| 0-60 | 1703   | 89.0%      |
| 0-90 | 1913   | 100.0%     |

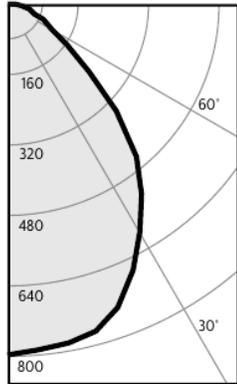
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

# S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

## S10R927K22 • 23W LED, 90 CRI, 2700 K

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 794     |        |
| 5     | 788     | 75     |
| 10    | 781     |        |
| 15    | 769     | 216    |
| 20    | 732     |        |
| 25    | 669     | 307    |
| 30    | 595     |        |
| 35    | 525     | 328    |
| 40    | 453     |        |
| 45    | 344     | 265    |
| 50    | 238     |        |
| 55    | 162     | 149    |
| 60    | 116     |        |
| 65    | 87      | 87     |
| 70    | 66      |        |
| 75    | 49      | 52     |
| 80    | 32      |        |
| 85    | 13      | 15     |
| 90    | 0       |        |

### Report#: S10R927K22BK

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1493lms | Efficacy:          | 65.5lm/w |
| Spacing Criterion:         | 1.1     | CCT <sup>3</sup> : | 2700 K   |
| Beam Angle:                | 86°     | CRI:               | 90 min   |
| Input Watts <sup>2</sup> : | 22.8W   |                    |          |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 32                               | 5.5'            |
| 6'                      | 22                               | 6.6'            |
| 7'                      | 16                               | 7.7'            |
| 8'                      | 12                               | 8.8'            |
| 9'                      | 10                               | 9.9'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 63.3                             | 1.01             |
| 6'                | 41.5                             | 0.66             |
| 7'                | 29.7                             | 0.47             |
| 8'                | 24.7                             | 0.39             |
| 9'                | 19.8                             | 0.32             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              |   |     |     |     |     |     |     |     |     |     |     |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1                 | 111   | 107 | 103 | 100 | 105 | 98  | 100 | 95  | 97  | 93  | 88  |     |
| 2                 | 103   | 96  | 90  | 85  | 94  | 84  | 90  | 82  | 87  | 80  | 77  |     |
| 3                 | 95  | 86  | 79  | 74  | 85  | 73  | 82  | 72  | 79  | 70  | 67  |     |
| 4                 | 88  | 78  | 70  | 64  | 77  | 64  | 74  | 63  | 72  | 62  | 60  |     |
| 5                 | 82  | 71  | 63  | 57  | 70  | 57  | 68  | 56  | 66  | 56  | 53  |     |
| 6                 | 76  | 65  | 57  | 51  | 64  | 51  | 62  | 50  | 60  | 50  | 48  |     |
| 7                 | 71  | 59  | 51  | 46  | 58  | 46  | 57  | 45  | 56  | 45  | 43  |     |
| 8                 | 67  | 55  | 47  | 42  | 54  | 42  | 53  | 41  | 52  | 41  | 39  |     |
| 9                 | 63  | 51  | 43  | 38  | 50  | 38  | 49  | 38  | 48  | 38  | 36  |     |
| 10                | 59  | 47  | 40  | 35  | 46  | 35  | 46  | 35  | 45  | 35  | 33  |     |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 598    | 40.0%      |
| 0-40 | 925    | 62.0%      |
| 0-60 | 1339   | 89.7%      |
| 0-90 | 1493   | 100.0%     |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



ALX - Exit / Emergency Lighting

## EXIT / EMERGENCY LIGHTING

### Die Cast Aluminum Emergency Exit ligh...

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Manufacturer: Cooper Lighting  
Style/Series: Surelites CX71SD R1

### Sales Rep

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#### Primary

Kathleen Kenny  
Email: kathleen.kenny@cooperlighting.com  
Office Phone: (678) 447-5208

### Attributes

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Die Cast Aluminum Emergency Exit light sign with Battery Backup and Self Diagnostics

Type: Exit

#### DIMENSIONS

Width: 12-5/8"  
Height: 8-1/4"  
Depth: 2-1/4"

#### MISCELLANEOUS

Lead Time: In Stock or 4 weeks  
Warranty: Fixture: 5 year Battery: 7 year pro-rata

#### CUSTOM FIELDS

Efficacy: TBD  
Finish: Aluminum  
Fixture Input (Max. Watts): 13 W  
Lamp Life/Fixture Life: 50,000 hrs  
Lamp Type: LED/RED  
Mount: Wall/Ceiling Mounting  
On Dimming System: No  
Voltage: UNV 120-277



|             |  |           |        |      |            |
|-------------|--|-----------|--------|------|------------|
| Project     |  | Catalog # | CX71SD | Type | ALX-002-CL |
| Prepared by | Kathleen Kenny<br>National Accounts<br>678-447-5208<br>kathleen.kenny@cooperlighting.com | Notes     |        | Date | 4/2022     |



## Sure-Lites

### CX Series

Die-Cast Aluminum  
Surface Mount LED Lamps  
Exit Lighting

#### Typical Applications

Office • Education • Healthcare • Hospitality  
• Retail • Industrial • Manufacturing

#### Interactive Menu

- Order Information [page 2](#)
- Product Warranty

#### Product Certification



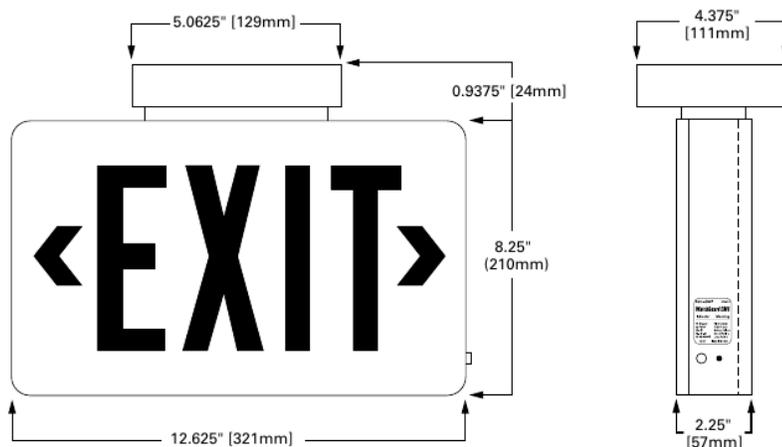
#### Product Features



#### Top Product Features

- Dual voltage input 120/277 VAC, 60 Hz
- Die-cast aluminum housing
- Die-cast canopy included
- LED Lamping
- Labor savings self-diagnostics (CX7 only)

#### Dimensional Details



## Ordering Information

SAMPLE ORDER NUMBER: **CX71SD, CX72WHSD, CX6SB7**

| Family                                 | Series            | Face Options   | Housing Finish  | Options   |
|--|-------------------|--|---|---|
| <b>CX</b> =Die Cast Aluminum Exit, LED | <b>6</b> =AC only | <b>1</b> =Single<br><b>2</b> =Double<br><b>S</b> =Open Face for Signage <sup>(1)</sup> | <b>Blank</b> =Brushed Aluminum Face w/Black Housing<br><b>WH</b> =White<br><b>BK</b> =Black | <b>Blank</b> =No additional options<br><b>2C</b> =Two Circuit Option (CX6 only) |
|  |                   | <b>Notes</b><br>(1) Consult factory for additional custom signage options.             |   |   |

| Family                                 | Series                 | Face Options   | Housing Finish  | Options  |
|--|------------------------|--|---|--|
| <b>CX</b> =Die Cast Aluminum Exit, LED | <b>7</b> =Self Powered | <b>1</b> =Single<br><b>2</b> =Double<br><b>S</b> =Open Face for Signage <sup>(1)</sup> | <b>Blank</b> =Brushed Aluminum Face w/Black Housing<br><b>WH</b> =White<br><b>BK</b> =Black | <b>Blank</b> =No additional options<br><b>SD</b> =Self-diagnostics (standard) with Fire Alarm Interface Capability (CX7 only) <sup>(2)</sup> |
|  |                        | <b>Notes</b><br>(1) Consult factory for additional custom signage options.             |   | <b>Notes</b><br>(2) Blue Letters, White LED does not have the "SD" option.   |

### Options for non-EXIT signs

| Signage Options (Color)   | Signage Options (Common Signs)  |
|---|---|
| <b>Blank</b> =EXIT sign<br><b>R</b> =Red letter, Red LED<br><b>G</b> =Green letter, Green LED<br><b>B</b> =Blue letter, White LED (Non-SD Only) | <b>Blank</b> =EXIT sign<br><b>1</b> = "AREA OF RESCUE"<br><b>2</b> = "SALIDA"<br><b>3</b> = "STAIRS"<br><b>4</b> = "AREA OF REFUGE"<br><b>5</b> = "IN USE"<br><b>6</b> = "NOT AN EXIT"<br><b>7</b> = "(WHEEL CHAIR SYMBOL)"<br><b>8</b> = "X-RAY ON"<br><b>9</b> = "LASER IN USE"<br><b>10</b> = "DO NOT ENTER" |

### Available Accessories (Order Separately)

| Protection Devices   | Pendant Kit  |
|--|--|
| <b>WG10</b> =Wall mount wire guard<br><b>WGS11</b> =Ceiling or End mount wire guard<br><b>VS1</b> =Polycarbonate Vandal Shield<br><b>VS1WP</b> =Polycarbonate Vandal Shield, Weather Proof | <b>CAX18PKWH</b> =18" Pendant Kit, White<br><b>CAX18PKBK</b> =18" Pendant Kit, Black<br><b>CAX18PKHTWH</b> =18" Hang True Pendant Kit, White |

## Product Specifications

### Electrical

- General Features**
- Field selected red and green sign capability standard on all units (units shipped red, field convert to green with supplied parts)
- Dual Voltage Input 120/277 VAC, 60Hz
- AC Only**
- Optional 2C (Two circuit, FTBR) available in 120/277 VAC in standard and emergency operation
- Self Powered**
- Sure-Lites EZ Key patented external battery disconnect feature – prevents unnecessary battery drainage, saves on installation time
- Solid-state Voltage Limited Charger
- Brownout Circuit
- Low-Voltage Disconnect
- Test Switch/Power Indicator Light
- Standard 24 hour recharge time (max)
- Self-Diagnostic feature Self-Diagnostics standard for CX7 self-powered series

### Housing Construction

- Die cast aluminum housing
- Die cast canopy included (for mounting convenience only)
- no electrical components in canopy)
- Universal pattern knockouts on
- rear of single face housing for direct mounting to junction box
- Knockout provided on housing for surface attachment
- Exit can be universally mounted: ceiling, wall or end
- Choice of three finishes: black housing with brushed aluminum face, white housing with white face or black housing with black face
- NFPA 101 compliant knockout chevrons allow quick conversion to directional signs
- Single and double faced signs available, order separately

### Code Compliance

- UL 924 Listed
- UL Damp Location (0-40° C)
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes
- Suitable for Floor Proximity Installation
- UL Listed for 2C (FTBR)

### Lamp Data

- AC LED: Red and green LED lamps provide uniform diffused illumination
- DC: Red and green LED DC lamps (Brighter in emergency mode)

### Warranty

- Exit – 5 year
- Battery: 7-Year pro-rata

## Technical Data

### Lamps

- CX Series Exits use energy efficient, long life LED's to provide uniform diffuse illumination of the exit face. These red and green LEDs require no maintenance and consume less than one watt, on average.

### Housing Construction

- Die cast aluminum with Brushed Aluminum face and black trim standard. Optional finishes include White and Black. NFPA 101 compliant knockout chevrons for easy conversion to directional sign. Universal pattern knockouts are in the back of the single face housing for direct mounting to junction box. Die cast aluminum alloy canopy included for universal mounting. Canopy is included for mounting convenience only—no electrical components in canopy.

### Lens

- Lenses for the CX Series Exits are made from durable, impact resistant polycarbonate. All exit faces are designed with full 3/4" stroke snap-out or snap-in chevron directional indicators to insure maximum visibility and compliance with the latest codes. Units come with red lenses installed and green lenses included for field selectable red or green signs.

### Sure-Lites EZ Key External Battery Disconnect (Self Powered Only)

- Patented technology that allows installers to externally control the battery connection. Better than line latching, allows installers to choose when the battery is connected so that it stays fresh longer. Allows battery to be disconnected after installation but before building is occupied, enabling emergency circuit to be shut down for power savings.

### Brownout Circuit (Self Powered Only)

- The brownout circuit on Sure-Lites' exits monitors the flow of AC current to the exit and activates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballasted fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

### Solid-State Transfer (Self Powered Only)

- The CX Series Exit incorporates solid-state switching which eliminates corroded and pitted contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC voltage and automatically energizes the lamps using DC power. Upon restoration of AC power, the DC power will be disconnected and the charger will automatically recharge the battery.

### Low Voltage Disconnect (Self Powered Only)

- When the battery's terminal voltage falls, the low-voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored, preventing deep battery discharge.

### Test Switch/Power Indicator Light (Self Powered Only)

- A test switch located on the side of the exit permits the activation of the emergency circuit for a complete operational systems check. The Power Indicator Light provides visual assurance that the AC power is on.

### Sealed Nickel Cadmium Battery (Self Powered Only)

- Sure-Lites sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. The sealed rechargeable nickel cadmium battery offers high discharge rates and stable performance over a wide range of temperatures, from 0-40° C. The specially designed re-sealable vent automatically controls cell pressure, assuring safety and reliability. This battery is best suited for harsh ambient temperatures because the electrolyte is not active in the electrochemical process.

### "2C" (AC Only)

- The "2C" Option enables the Exits to operate per the requirements of UL 924 when connected simultaneously to both normal and emergency power circuits (two circuit operation—UL Category FTBR—Emergency Lighting and Power Equipment). The "2C" Option alters the standard Exit such that it complies with and is UL Listed under the FTBR Category. This option should only be used for exits which are intended to be connected simultaneously to normal and emergency power circuits, but cannot support two hot inputs. Only one of the normal or emergency circuits can be powered. If both are powered simultaneously, it will make the Exit inoperable. Both circuits have universal 120/277 VAC standard.

### Self Diagnostics Option (Self Powered Only)

- The self-diagnostic unit will automatically perform all tests required by UL924, and NFPA 101. The system indicates the status of the exit at all times using the LED indicator near the test switch on the side of the unit. A 90 minute battery power (emergency mode) simulation test will occur randomly once every 12 months. A 30 second battery power simulation test will occur every 30 days.

### Photocell Test Switch

- Allows verification of proper operation of the transfer circuit and emergency lamps with a laser pointer (laser is sold as an accessory). The emergency lamps will test for 30 seconds when activated.



Laser tester

Part Number = LASER  
(sold separately)

### Warranty

- All Sure-Lites' products are backed by a firm five-year warranty against defects in material and workmanship. Maintenance-free, long-life, sealed nickel cadmium batteries carry a seven-year pro-rata warranty.

## Energy and Performance Data

Maximum power consumption under all charge conditions:

### AC Only, 120V - Red

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 0.98   | 0.12          |

### AC Only, 277V - Red

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.04   | 0.06          |

### Self Powered, 120V - Red

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 0.98   | 0.12          |

### Self Powered, 277V - Red

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.03   | 0.06          |

### AC Only, 120V - Green

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.02   | 0.13          |

### AC Only, 277V - Green

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.12   | 0.06          |

### Self Powered, 120V - Green

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.00   | 0.13          |

### Self Powered, 277V - Green

| Amps: | Watts: | Power Factor: |
|-------|--------|---------------|
| 0.07  | 1.09   | 0.05          |

## EXIT / EMERGENCY LIGHTING

### Die Cast Aluminum Emergency Exit ligh...

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Manufacturer: Signify/Chloride  
Style/Series: SCN1R

### Sales Rep

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#### Primary

Ryan Smillie  
Email: ryan.smillie@signify.com  
Office Phone: 408-813-3032

### Attributes

---

Die Cast Aluminum Emergency Exit light sign with Battery Backup

Type: Exit

#### DIMENSIONS

Width: 13.2"  
Height: 9.2"  
Depth: 1.7"

#### MISCELLANEOUS

Lead Time: In stock or 4 weeks  
Warranty: 5 years

#### CUSTOM FIELDS

Fixture Input (Max. Watts): 1W  
Lamp Kelvin: Red  
Lamp Type: LED/RED  
Mount: Wall/Ceiling Mounting  
On Dimming System: No  
Voltage: UNV 120-277



# CHLORIDE

by Signify

## Exit/Emergency

SC Series

Cast aluminum exit sign



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Example: SCN1RWICT

SC

#### Series

SC - Symmetry Series Die Cast LED Exit

#### Battery

N - Nickel Cadmium  
A - AC Only

#### Face Options

1 - Single Double  
2 - Double  
U - Universal Two Faces, Backplate and Canopy

#### Letter Color

R - Red  
G - Green

#### Stencil Face/Housing Color

W - White Stencil Face, White Housing  
B - Black Stencil Face, Black Housing  
WA - Brushed Aluminum Face, White Housing  
BA - Brushed Aluminum Face, Black Housing  
N - Brushed Aluminum Face, Natural Aluminum Housing

#### Model Designator<sup>1</sup>

IC - Intelli-Charge Diagnostics  
ICT - Self-Testing Diagnostics (non-audible, self-powered models only)  
ICTA - Audible Self-Testing Diagnostics (self-powered models only)

#### Options<sup>2</sup>

2CKT1 - 120/120 Two Circuit VAC (AC-only models)  
2CKT2 - 277/277 Two Circuit VAC (AC-only models)  
BF - Buzzer/Flasher (emergency units only)  
BZ - Buzzer (emergency units only)  
DC - 12-48 VDC Input (AC only models)  
DL - Damp Location Listing 0°C to 40°C  
EX - Special Input Transformer (specify voltage & frequency)  
FA - Fire Alarm Activated Flasher  
FL - Emergency Mode Flasher (emergency units only)  
SW - Special Wording/Graphics<sup>3</sup>  
TP - Tamperproof Hardware and Bit  
VRS - Vandal Resistant Lens with Tamperproof Hardware & Bit

### Accessories<sup>4</sup> (Order Separately)

CPKIT12W - Pendant Kit, 12" White, Includes Exit Adapter Plate  
CPKIT12B - Pendant Kit, 12" Black, Includes Exit Adapter Plate  
ICIR - Intelli-Charge Infra-Red Remote  
T15TPTOOL - Tamperproof Screwdriver  
PCS1 - Polycarbonate Vandal Shield  
WG4 - Wire Guard, Surface Wall Mount  
WG10 - Wire Guard, End Mount

### Footnotes

- For self-testing models refer to ICT and ICTA options.
- Some option combinations may impact UL listing. Consult factory for specifics.
- Requires 'open-face' design.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

### codes and standards

- UL listed to standard 924
- UL damp location listing optional
- IBC, BOCA, and OSHA illumination standard
- NFPA 70 (National Electric Code)
- NFPA 101 (Life Safety Code)
- NEMA Premium certified
- Certified to the California Energy Commission in accordance with California law

### construction

- Two piece die cast aluminum construction with NFPA compliant field selectable chevrons.
- Housing and stencil face castings are available with durable epoxy based powder coat paint or brushed aluminum finishes.
- A positive latching exit stencil face provides secure closure yet is easily accessible for installation, maintenance, and inspection.

### installation

- The SC Series is available in single, double, and universal configurations.
- A mounting canopy is supplied to accommodate surface ceiling and end mounting.
- A universal knockout pattern is provided on the backplate for surface wall mounting.

### electronics

- 120/277 VAC dual voltage input with surge protection is standard on all models.
- Self powered models feature the Intelli-Charge circuit where the charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation.

- Self powered models include brownout detection, AC lockout, low voltage disconnect, AC Power indicator, charge status indicator, audible user-interface controls, visual LED system fault indicator, and tactile push to test switch.
- Additional equipment safety features include reverse battery polarity detection and protection, and reverse utility power detection and protection.
- All self-powered models include an on-board IR receiver for use with the optional hand-held remote (ICIR).
- Self-testing electronics (optional)  
The diagnostic/charging platform with optional self-testing mode automatically runs a one minute self-test every 30 days and a 30 minute test on the sixth and twelfth month in accordance with NFPA 101. A one minute or 90 minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.
- Operating temperature range  
AC only models: -40°F (-40°C) to 104°F (40°C).  
Self-powered models - standard location: 65°F (19°C) to 85°F (30°C).  
Self powered models - damp location: 32°F (0°C) to 104°F (40°C).
- Power consumption  
AC only red: 0.032 A (120VAC), 0.015 A (277VAC), PF = 0.94.  
AC only green: 0.035 A (120 VAC), 0.016 A (277VAC), PF = 0.92  
Self powered red: 0.039 A (120 VAC), 0.018 A (277VAC), PF = 0.94.  
Self powered green: 0.040 A (120VAC), 0.018 A (277VAC), PF = 0.94.



# SC Cast aluminum LED exit sign

## lamps

- Illumination of the stencil face is accomplished with long lasting, high output Light Emitting Diodes (LEDs).
- Hot spots and striations are eliminated by the internal "light chamber" allowing for even illumination in normal and emergency situations.
- Average legend illumination levels exceed 25fl (79 cd/m<sup>2</sup>) during normal and emergency operation.

## options

- **2CKT1** – Available on AC only configured models to accommodate inputs from a normally on circuit and an AC emergency circuit from a generator or emergency inverter circuit limited to 120 VAC circuits.
- **2CKT2** – Available on AC only configured models to accommodate inputs from a normally on circuit and an AC emergency circuit from a generator or emergency inverter circuit limited to 277 VAC circuits.
- **BF** – This option enables the exit sign to buzz and flash together when the sign is operating under battery power. The buzzer and flashing rate is an approximate 50% duty cycle.
- **BZ** – This option enables the exit sign to buzz when the sign is operating under battery power. The buzzer rate is an approximate 50% duty cycle.
- **DC** – The DC option is reserved for AC only configured models and accommodates wiring to a remote emergency battery unit. The DC input is not polarity sensitive and accepts 12 to 48 VDC from a remote source.
- **DL** – Damp location listed products include various levels of corrosion protection on printed circuit board assemblies and other metallic parts. Environmental testing throughout a range of ambient temperature and 88% relative humidity.
- **EX** – The special input transformer option allows for input voltage and frequencies beyond the standard 120/277 VAC, 60 Hz input.

## battery

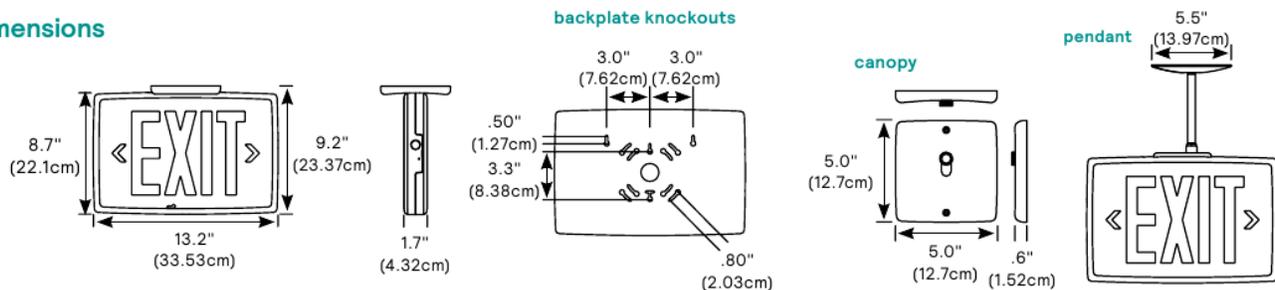
- Maintenance free sealed nickel cadmium battery
- Provides a minimum of 90 minutes of emergency power.

## warranty

- Five full year warranty on electronics and unit.

- **FA** – This option provides a two-wire harness for the electrical connection to the fire control panel. Should the fire panel activate an alarm, the exit sign will flash at a rate of approximately 50% duty cycle.
- **FL** – This option causes the exit sign to flash when the sign is operating under battery power. The flashing rate is approximately a 50% duty cycle.
- **TP** – The tamper proof option provides torx T15 hardware with center pin reject and the bit required to secure and access the equipment for future servicing.
- **ICT** – The self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one-minute test every thirty days with a 30-minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display.
- **ICTA** – The audible self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one-minute test every thirty days with a 30-minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display and an audible alarm.
- **BAC** – This option meets the requirements of the Buy American Act of 1933 (BAA).

## dimensions



## Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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Markham, ON, Canada L6C 2S3  
Telephone 800-668-9008

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## EXIT / EMERGENCY LIGHTING

### 2 Head emergency battery - white. For...

---

Manufacturer: Cooper Lighting  
Style/Series: Surelites SEL25SD R1

### Sales Rep

---

#### Primary

Kathleen Kenny  
Email: kathleen.kenny@cooperlighting.com  
Office Phone: (678) 447-5208

### Attributes

---

2 Head emergency battery - white. For use with ALX-002 fixture.

Type: Exit

#### DIMENSIONS

Width: 14"  
Height: 4-3/4"  
Depth: 1-3/4"

#### MISCELLANEOUS

Lead Time: In Stock or 4 weeks  
Warranty: Fixture: 5 year

#### CUSTOM FIELDS

Color: White  
Finish: White  
Fixture Input (Max. Watts): 1  
Lamp Kelvin: White  
Lamp Type: LED/WHITE  
Mount: Wall/Ceiling Mounting  
On Dimming System: No  
Voltage: 4.8



## EXIT / EMERGENCY LIGHTING

### Dual Head Egress Fixture. For use wit...

---

Manufacturer: Signify/Chloride  
Style/Series: CLU2NW2R

### Sales Rep

---

#### Primary

Ryan Smillie  
Email: ryan.smillie@signify.com  
Office Phone: 408-813-3032

### Attributes

---

Dual Head Egress Fixture. For use with ALX-002 fixture.

Type: Dual Head Emergency

#### DIMENSIONS

Width: 10 1/4"  
Height: 4-3/4"  
Depth: 2 5/8"

#### MATERIAL/FINISH

Color: White

#### MISCELLANEOUS

Lead Time: In stock or 4 weeks  
Warranty: 5 Years

#### CUSTOM FIELDS

Fixture Input (Max. Watts): 2 x 1W  
Lamp Kelvin: White  
Lamp Type: LED/WHITE  
Mount: Wall/Ceiling Mounting  
On Dimming System: No  
Voltage: UNV 120-277

CLU2



# CHLORIDE

by ignify

## Exit/Emergency

Compac

Emergency unit CLU2, CLU3



CLU2



CLU3



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

The Chloride Compac emergency units were designed to complement the Compac exit/emergency family in looks and reliability. They allow for immediate and safe egress in low light situations and work in harmony within commercial and light industrial applications. The CLU2 two lamp head model can be adjusted to provide the optimum amount of illumination. The CLU3's center lamp head is stationary while the two side lamps can be adjusted for the perfect left and right angles. These units come standard with self-diagnostic/self-test features to assure that they are ready at any time.

### Ordering guide

Example: CLU2NWTD

| Series                                  | Battery                        | Color                            | Options <sup>1</sup>  |
|---|--------------------------------|----------------------------------|---|
| <input type="text"/>                    | <input type="text" value="N"/> | <input type="text"/>             | <input type="text"/>  |
| CLU2 Compac LED emergency unit, 2 lamps | N Nickel Metal Hydride battery | W White finish<br>B Black finish | 2R <sup>2</sup> Remote capability<br>TD <sup>3</sup> Time delay<br>LX <sup>4</sup> Laser testing<br>LH <sup>5</sup> Less lamp heads<br>LS <sup>6</sup> Less Self-test feature |
| CLU3 Compac LED emergency unit, 3 lamps | N Nickel Metal Hydride battery | W White finish<br>B Black finish | 1R <sup>7</sup> Remote capability<br>TD <sup>3</sup> Time delay<br>LX <sup>4</sup> Laser testing  |

- Optional features cannot be combined with other optional features
- CLU2 feeds 2 single or 1 dual LED remote unit
- 15 minute delay
- Performs a manual test up to 40ft from unit. See RLT accessory for laser tester

- Available in white finish housing only, feeds 4 single or 2 dual LED remote lamp heads
- Contains self-diagnostic electronics but does not perform the automatic monthly test. Available in white finish housing only
- CLU3 unit with the 1R option feeds 1 LED remote lamp head

### Accessories (order separately)

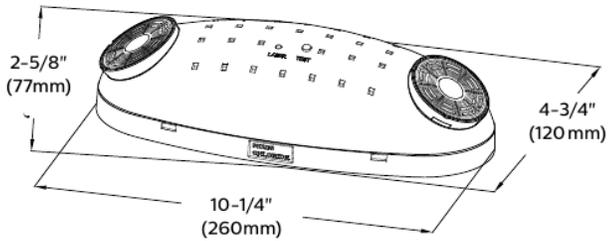
- WG5 - Wire guard (for CLC exit/unit combos mounted flat against the wall)
- RLT - Remote Laser Tester



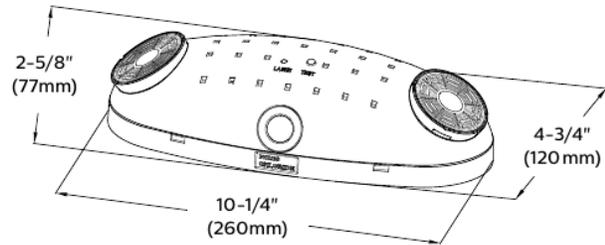
# CLU2/CLU3 Compac emergency unit

## Dimensions

CLU2



CLU3



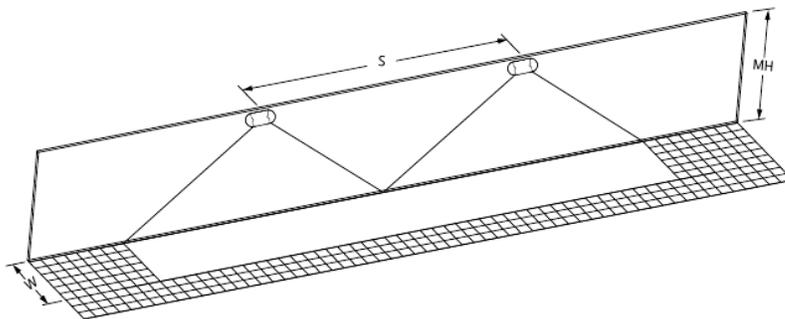
## Performance

Meets Life Safety Code Illumination standard average of 1.0 FC, no point less than 0.1 FC max to min ratio of 40:1. Assumes open space with no obstructions. NFPA 101, Life Safety Code matches California Fire Code of Regulations, Title 24. Normal operation (off/standby) is not to be confused with emergency operation.

|                      | Compac CLU2/3 emergency unit performance |         |                                   |         |
|----------------------|--|---------|-----------------------------------|---------|
|                      | 80/50/20 Reflectance <sup>†</sup>        |         | 10/10/10 Reflectance <sup>‡</sup> |         |
| Center-to-Center     | 3' Path                                  | 6' Path | 3' Path                           | 6' Path |
| CLU3 Unit            | 76'                                      | 76'     | 75'                               | 75'     |
| CLU2 Unit            | 76'                                      | 60'     | 63'                               | 55'     |
| Single Unit Coverage | 3' Path                                  | 6' Path | 3' Path                           | 6' Path |
| CLU3 Unit            | 64'                                      | 64'     | 61'                               | 57'     |
| CLU2 Unit            | 56'                                      | 52'     | 48'                               | 40'     |

<sup>†</sup>Based on 6ft corridor and 9ft ceiling height and a mounting height of 7.5ft.

<sup>‡</sup>Based on 200ft by 200ft open area and 30ft ceiling height.



# CLU2/CLU3 Compac emergency unit

## Codes and standards

- NFPA 70 (National Electric Code)
- NFPA 101 (Life Safety Code)
- ETL listed to Standard 924
- UL Listed for damp locations

## Construction

- Wall or ceiling mounted
- UL 94 V-0.5VA Flame rated, UV stable thermoplastic housing
- Provisions for surface mounted conduit to top of wall mounted unit
- Back plate keyhole slots are easily removable knockouts for securing to single gang boxes, 3" J-boxes and 4" J-boxes

## Installation

- Designed for wall or ceiling mount with a universal J-box pattern on back plate
- Surface conduit entry on top of housing in center of backplate
- CLUX unit mounts single gang boxes, 3" J-boxes and 4" J-boxes

## Electronics

- 120/277VAC, 50-60Hz dual voltage selectable input
- Surge protected, solid state circuitry
- Charging systems are complete with low voltage disconnect (prevents deep discharge of battery), battery lockout (prevents discharge of battery during installation), and brownout protection

## Power consumption

- CLU2 120V=0.036 / 277V=0.030
- CLU3 120V=0.055 / 277V=0.040

## Lamps

- CLU2 unit contains two - 2.2W adjustable LED lamp heads longlife LED lamp source head (5000K)
- CLU3 unit contains three - 2.2W LED lamp heads longlife LED lamp source head (5000K) (two adjustable, one fixed)

## Battery

- Maintenance-free sealed 7.2v Nickel Metal Hydride battery
- Manual test switch and LED light indicator
- Supplies emergency illumination for a minimum of 90 minutes
- Batteries have an approximated service life of 6 to 8 years at a operating temperature range of 10°C to 40°C (50°F to 104°F)

## Remote capability

- CLU2 emergency unit provides enough remote capability to supply DC power to 2 (CLR1W) LED remote lamps heads or 1 (CLR2W) dual LED remote lamp head.
- CLU3 provides enough remote capability to feed one CLR1W LED remote lamp head.

## Listings

- California Energy Commission, Title 20 compliant (Battery Charger)

## Warranty

- Five year full warranty on unit.

## Self-diagnostics/Self-test

The CLU2/3 units contain self-diagnostic/self-test electronics as a standard feature. An automatic self-test is performed every month for 3 minutes, and a 30 minute self-test every six months. A manual test may also be performed at anytime by pressing the manual test button.

### Manual testing:

| Test button | Length of test |
|-------------|----------------|
| 1 press     | 30 seconds     |
| 2 presses   | 3 minutes      |
| 3 presses   | 30 minutes     |
| 4 presses   | 90 minutes     |

### Self-Diagnostic Red status indicator:

| Indicator    | Status   |
|--------------|--|
| One blink    | Battery is not connected                           |
| Two blinks   | Battery voltage has dropped below acceptable value |
| Three blinks | Charger board circuit fault                        |
| Four blinks  | Transfer fault                                     |
| Five blinks  | Lamp fault   |
| Six blinks   | Remote lamp head fault                             |
| Seven blinks | EXIT Led strip fault                               |

The Self-diagnostic/self-test electronics meets the requirements of the National Electric Code and/or the National Fire Protection Association.

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AS - Aluminum Storefront

## ALUMINUM STOREFRONT

### Interior and Exterior Aluminum Storef...

Manufacturer: Kawneer

Style/Series: TRIFAB VERSAGLAZE 451 FRAMING SYSTEM

### Sales Rep

### Other

Ian Cable

Email: iancable@kawneer.com

Office Phone: 603-552-3541

### Attributes

Interior and Exterior Aluminum Storefront Framing, Doors, Door Frames, Lights, and Fixed Windows.

Type: Aluminum-Framed Storefront system, thermally-broken.

### DIMENSIONS

Depth: 4-1/2"

Dimension Explanation: 2" sightline

### MATERIAL / FINISH

Material Composition: Aluminum extrusions, complying with ASTM B221, 6063-T6 alloy and temper. Glazing as specified below.

Color: Black

Finish: Frosted Glass Insert

### PERFORMANCE

Acoustical Performance: Enhanced OITC and STC Performance available. Comply with the Owner's requirements according to project conditions.

Best Practices: Recycled content of aluminum.

Quality Standards: AAMA "Storefront and Entrance Manual". 1.

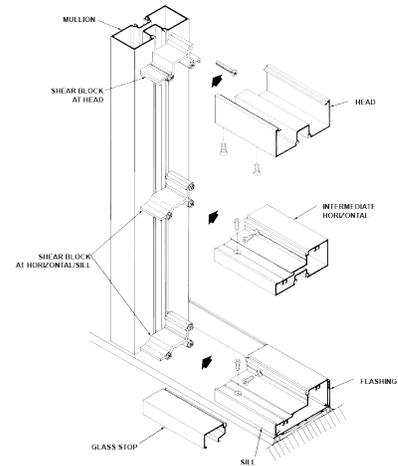
ANSI/AAMA 101 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Structural Performance: 1. Design for windload of 30 PSF with maximum deflection in both vertical and horizontal mullions not to exceed 1/175 of span. a. Water Penetration: ASTM E331 no water penetration at a test pressure of 6.24 PSF. Air Leakage per ASTM E283: Fixed window walls maximum of 0.06 CFM per sq. ft. of total exterior surface areas.

Thermal Performance: System U-factor shall comply with requirements of Authorities Having Jurisdiction.

### MISCELLANEOUS

Warranty: 5 years (Structural). For Finish warranties, refer to Finish article above.



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**Notes**

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Where required, provide safety glass complying with CPSC 16 CFR Part 1201. Insulating Glass complying with IGCC requirements and as follows: - Total Thickness: 1" - Thickness of Each Pane: 1/4" - Air Space Thickness: 1/2" Glass shall be fully-tempered or laminated where required. Where required, provide safety glass complying with CPSC 16 CFR Part 1201. Low-e coating shall be applied to No. 2 surface. Minimum insulated glass assembly performance: - Visible Light Transmittance (VLT): 70 - Solar Heat Gain Coefficient (SHGC): 0.38 Light to Solar Gain (LSG) Ratio: 1.85 Sealing System: Manufacturer's Standard Dual Seal as follows: - Desiccant: Molecular Sieve or Silica Gel or Blend of Both. - Spacer Material: Manufacturer's Standard Metal with Anodized Finish.

## SECTION 084113: ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

This suggested guide specification has been developed using the current edition of the Construction Specifications Institute (CSI) "Manual of Practice," including the recommendations for the CSI three-part Section Format and the CSI Page Format. Additionally, the development concept and organizational arrangement of the American Institute of Architects (AIA) MasterSpec® Program has been recognized in the preparation of this guide specification. Neither CSI, AIA, USGBC, nor ILFI endorse specific manufacturers and products. The preparation of the guide specification assumes the use of standard contract documents and forms, including the "Conditions of the Contract," published by the AIA.

**EDITOR NOTE:** Instructions to the editor appear in RED. This style does not exist in the standard CSI template.

### PART 1 GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section covers Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
- B. Types of Kawneer Aluminum Storefront Systems include:
  - 1. Trifab® VersaGlaze® 451 Framing System
    - a. 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension
    - b. Non-thermal
    - c. Front, center, back, multi-plane, structural silicone or weatherseal (type B) glazed
    - d. Screw spline, shear block, stick, or punched opening
  - 2. Trifab® VersaGlaze® 451 Framing System – Impact Resistant and Blast Mitigation
    - a. 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension
    - b. Non-thermal
    - c. Front, center, back, multi-plane, structural silicone or weatherseal (type B) glazed
    - d. Impact resistant, blast mitigation glazing
    - e. Screw spline, shear block, stick, or punched opening
- C. Related Sections:

**EDITOR NOTE:** The sections listed below are specified elsewhere. However, Kawneer recommends single-source responsibility for all of these sections as described in the Quality Assurance article below.

- 1. 072700: Air Barriers
- 2. 079200: Joint Sealants
- 3. 083213: Sliding Aluminum-Framed Glass Doors
- 4. 084113: Aluminum-Framed Entrances and Storefronts
- 5. 084413: Glazed Aluminum Curtain Walls

6. 085113: Aluminum Windows
7. 088000: Glazing
8. 107113: Exterior Sun Control Devices
9. 122600: Interior Daylighting Devices

### 1.3 DEFINITIONS

- A. For fenestration industry standard terminology and definitions, refer to the Fenestration & Glazing Industry Alliance (FGIA) Glossary (AAMA AG-13).

### 1.4 PERFORMANCE REQUIREMENTS

#### A. General Performance:

1. Product to comply with the specified performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction, as determined by testing of aluminum storefront systems representing those indicated for this project.
2. Aluminum storefront systems shall withstand movements of supporting structure including, but not limited to, story drift, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
3. Failure includes any of these events:
  - a. Thermal stresses transferring to building structure
  - b. Glass breakage
  - c. Loosening or weakening of fasteners, attachments, and other components
  - d. Failure of operating units

#### B. Delegated Design:

1. Design aluminum storefront systems, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

#### C. Wind Loads:

**EDITOR NOTE:** Provide wind load design pressures in PSF and include applicable building code and year edition.

1. The storefront system shall include anchorage that is capable of withstanding the following wind load design pressures:
  - a. Inward: (\_\_\_\_\_) psf or (\_\_\_\_\_) Pa
  - b. Outward: (\_\_\_\_\_) psf or (\_\_\_\_\_) Pa
2. The design pressures are based on the (\_\_\_\_\_) Building Code, (\_\_\_\_\_) Edition.

#### D. Air Leakage:

**EDITOR NOTE:** Performance results for air infiltration are based upon ASTM and AAMA standards. Consult your local Kawneer representative concerning specific project performance requirements.

1. The test specimen shall be tested in accordance with ASTM E 283.
2. With interior seal, air leakage rate shall not exceed 0.06 cfm/ft<sup>2</sup> (0.3 l/s · m<sup>2</sup>) at a static air pressure differential of 6.2 psf (300 Pa).

3. Without interior seal, air leakage rate shall not exceed 0.06 cfm/ft<sup>2</sup> (0.3 l/s · m<sup>2</sup>) at a static air pressure differential of 1.6 psf (75 Pa).
4. CSA A440 Fixed Rating

E. Water Resistance:

**EDITOR NOTE:** Performance results for water resistance are based upon ASTM and FGIA/AAMA standards. Consult your local Kawneer representative concerning specific project performance requirements, sill flashing details, and installation instructions.

1. The test specimen shall be tested in accordance with ASTM E 331.
2. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501.
3. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501 with optional Air/Vapor Barrier Tie-in.
4. There shall be no leakage at a minimum static air pressure differential of 10 psf (479 Pa) as defined in AAMA 501 with optional sill flashing.

F. Uniform Load:

1. A static air design load of 35 psf (1680 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330.
2. There shall be no deflection in excess of L/175 of the span of any framing member.
3. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

G. Seismic:

1. When tested to AAMA 501.4, system must meet design displacement (elastic) of 0.010 times the story height and ultimate displacement (inelastic) of 1.5 times the design displacement.

H. Thermal Movements:

1. Allow for thermal movements resulting from the following:
  - a. 0°F (-18 C) to 180°F (82 C) maximum change (range) in ambient and surface temperatures
  - b. 75°F (24 C) test interior ambient air temperature
2. Test performance shows no buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested according to AAMA 501.5 for a minimum 3 cycles.

I. Thermal Transmittance (U-factor):

1. Thermal transmittance test results are based upon 1" (25.4 mm) clear high-performance insulating glass [1/4" (e=0.035, #2), 1/2" warm edge spacer and argon fill gas, 1/4"].
2. When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall not be more than:
  - a. Glass to exterior .47 (low-e) or 0.61 (clear) or project specific (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per AAMA 507 or (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per NFRC 100.
  - b. Glass to center .44 (low-e) or 0.61 (clear) or project specific (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per AAMA 507 or (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per NFRC 100.

- c. Glass to interior .41 (low-e) or 0.56 (clear) or project specific (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per AAMA 507 or (\_\_\_\_) Btu/hr/ft<sup>2</sup>/°F per NFRC 100.

J. Condensation Resistance Factor (CRF):

1. The glass to exterior CRF, when tested to AAMA Specification 1503, shall not be less than 70<sub>frame</sub> and 69<sub>glass</sub> (low-e) or 69<sub>frame</sub> and 58<sub>glass</sub> (clear)
2. The glass to center CRF, when tested to AAMA Specification 1503, shall not be less than 62<sub>frame</sub> and 68<sub>glass</sub> (low-e) or 63<sub>frame</sub> and 56<sub>glass</sub> (clear)
3. The glass to interior CRF, when tested to AAMA Specification 1503, shall not be less than 56<sub>frame</sub> and 67<sub>glass</sub> (low-e) or 54<sub>frame</sub> and 58<sub>glass</sub> (clear)

K. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC):

1. Sound transmission loss test results in accordance with AAMA 1801 are based upon 1" (25.4 mm) clear double laminated insulating glass with PVB interlayer (1/8", 0.030", 1/8", 1/2" AS, 1/8", 0.030", 1/8").
2. The glass to exterior ratings, when tested to ASTM E1425 and ASTM E90, shall not be less than STC 38 and OITC 31.
3. The glass to center ratings, when tested to ASTM E1425 and ASTM E90, shall not be less than STC 37 and OITC 30.
4. The glass to interior ratings, when tested to ASTM E1425 and ASTM E90, shall not be less than STC 38 and OITC 30.

L. Impact Resistance Performance:

**EDITOR NOTE:** Choose impact resistance performance if needed to meet project requirements.

1. The test specimen shall be tested in accordance with ASTM E 1886, information in ASTM E 1996 and TAS 201/203.
2. Large-Missile Impact: For aluminum-framed systems located within 30 feet (9.1 m) of grade.
3. Small-Missile Impact: For aluminum-framed systems located above 30 feet (9.1 m) of grade.

M. Blast Mitigation Performance:

**EDITOR NOTE:** Choose blast mitigation performance if required to meet project requirements.

1. The test specimen shall be tested or proven through analysis to meet ASTM F1642, GSA-TS01, and UFC 04-010.01 performance criteria.
2. To meet UFC 04-010.01, B-3.1 Standard 10 for Windows and Skylights, the following options are available:
  - a. Section B-3.1.1 Dynamic analysis
  - b. Section B-3.1.2 Testing
  - c. Section B-3.1.3 ASTM F2248 Design Approach

N. Environmental Product Declaration (EPD): Shall have a Type III Product-Specific EPD created from a Product Category Rule.

O. Material Ingredient Reporting:

**EDITOR NOTE:** Include Material Ingredient Reporting if this section is necessary to meet project requirements or for any project that includes Green Building Certifications such as LEED, Living Building Challenge (LBC), and so on.

**EDITOR NOTE: Material Ingredient Reporting applies only for anodized products.**

1. Shall have a complete list of chemical ingredients to at least 100 ppm (0.01%) that covers 100% of the product.
2. Acceptable documentation includes:
  - a. Manufacturer's inventory with Chemical Abstract Service Registration Number (CASRN or CAS#):
    - 1) Kawneer's Material Transparency Summary (MTS)

## 1.5 SUBMITTALS

### A. Product Data:

1. For each type of aluminum-framed storefront system indicated, include:
  - a. Construction details
  - b. Material descriptions
  - c. Dimensions of individual components and profiles
  - d. Hardware
  - e. Finishes
  - f. Installation instructions
2. Recycled Content:

**EDITOR NOTE: Include these Recycled Content specifications if needed to meet project requirements or for a project that includes Green Building Certifications such as LEED, Living Building Challenge (LBC), etc.**

**EDITOR NOTE: If Recycled Content requirements are not specified, prime (zero recycled content) aluminum could be supplied.**

- a. Provide documentation that aluminum has a minimum of 40% mixed pre- and post-consumer recycled content.
- b. Provide a sample document illustrating project-specific information that will be provided after product shipment.
- c. After product has shipped, provide project-specific recycled content information:
  - 1) Indicate recycled content, including the percentage of pre- and post-consumer recycled content per unit of product.
  - 2) Indicate the relative dollar value of recycled content product to the total dollar value of product included in the project.
  - 3) Indicate the location for recovery of recycled content.
  - 4) Indicate the location of the manufacturing facility.
3. Environmental Product Declaration (EPD):
  - a. Include a Type III Product-Specific EPD created from a Product Category Rule.
4. Material Ingredient Reporting:

**EDITOR NOTE: Include the Material Ingredient Reporting section only for anodized products.**

- a. Include documentation for material reporting that has a complete list of chemical ingredients to at least 100 ppm (0.01%) that covers 100% of the product.

### B. Shop Drawings:

1. Plans
  2. Elevations
  3. Sections
  4. Details
  5. Hardware
  6. Attachments to other work
  7. Operational clearances
  8. Installation details
- C. Samples for Initial Selection:
1. Provide samples for units with factory-applied color finishes.
  2. Provide samples of hardware and accessories involving color selection.
- D. Samples for Verification:
1. Provide a verification sample for aluminum-framed storefront system and required components.
- E. Product Test Reports:
1. Provide test reports for each type of aluminum-framed storefront used in the project.
  2. Test reports must be based on evaluation of comprehensive tests performed by a qualified preconstruction testing agency.
  3. Test reports must indicate compliance with performance requirements.
- F. Fabrication Sample:
1. Provide a fabrication sample of each vertical-to-horizontal intersection of aluminum-framed systems, made from 12" (304.8 mm) lengths of full-size components and showing details of the following:
    - a. Joinery, including concealed welds
    - b. Anchorage
    - c. Expansion provisions
    - d. Glazing
    - e. Flashing and drainage
- G. Entrance Door Hardware Schedule:
1. Schedule shall be prepared by or under the supervision of supplier.
  2. Schedule shall detail fabrication and assembly of entrance door hardware, including procedures and diagrams.
  3. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications:
1. Installer must have successfully installed the same or similar units required for the project and other projects of similar size and scope.

- B. Manufacturer Qualifications:
  - 1. Manufacturer must be capable of providing aluminum-framed storefront systems that meet or exceed performance the stated performance requirements.
  - 2. Manufacturer must be capable of fabricating exterior sunshades and glazed aluminum curtain walls and storefront systems that meet or exceed the stated performance requirements.
  - 3. Manufacturer must document this performance by the inclusion of test reports and calculations.
- C. Source Limitations:
  - 1. Obtain aluminum-framed storefront system through one source from a single manufacturer.
- D. Product Options:
  - 1. Drawings indicate size, profiles, and dimensional requirements of aluminum-framed storefront system and are based on the specific system indicated. Refer to Division 01 Product Requirements Section. Do not modify size and dimensional requirements.
  - 2. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- E. Mockups:
  - 1. Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  - 2. Build mockups for the type(s) of storefront elevation(s) indicated, in location(s) shown on drawings.
  - 3. Build mockups for the type(s) of sunshade elevation(s) indicated, in location(s) shown on drawings.
- F. Pre-installation Conference:
  - 1. Conduct conference at project site to comply with requirements in Division 01 Project Management and Coordination Section.
- G. Structural-Sealant Glazing must comply with ASTM C 1401, "Guide for Structural Sealant Glazing" for design and installation of structural-sealant-glazed systems.
- H. Structural-Sealant Joints: Design reviewed and approved by structural-sealant manufacturer.

## 1.7 PROJECT CONDITIONS

- A. Field Measurements:
  - 1. Verify actual dimensions of aluminum-framed storefront openings by field measurements before fabrication.
  - 2. Indicate measurements on shop drawings.

## 1.8 WARRANTY

- A. Submit manufacturer's standard warranty for owner's acceptance.
- B. Warranty Period:

1. Two years from Date of Substantial Completion of the project provided however that in no event shall the Limited Warranty begin later than six months from date of shipment by manufacturer.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

#### A. Basis-of-Design Product:

1. Kawneer Company, Inc.
2. Trifab® VersaGlaze® 451 Framing System
  - a. 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension
  - b. Non-thermal
  - c. Front, center, back, multi-plane, structural silicone or weatherseal (type B) glazed
  - d. Screw spline, shear block, stick, or punched opening
3. Trifab® VersaGlaze® 451 Framing System – Impact Resistant and Blast Mitigation
  - a. 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension
  - b. Non-thermal
  - c. Front, center, back, multi-plane, structural silicone or weatherseal (type B) glazed
  - d. Impact resistant, blast mitigation glazing
  - e. Screw spline, shear block, stick, or punched opening

#### B. Subject to compliance with requirements, provide a comparable product by the following:

**EDITOR NOTE:** Provide information below indicating approved alternatives to the basis-of-design product.

1. Manufacturer: (\_\_\_\_\_)
2. Series: (\_\_\_\_\_)
3. Profile Dimension: (\_\_\_\_\_)

#### C. Substitutions:

1. Refer to Division 01 Substitutions Section for procedures and submission requirements.
2. Pre-Contract (Bidding Period) Substitutions:
  - a. Submit written requests ten (10) days prior to bid date.
3. Post-Contract (Construction Period) Substitutions:
  - a. Submit written request in order to avoid installation and construction delays.
4. Product Literature and Drawings:
  - a. Submit product literature and drawings modified to suit specific project requirements and job conditions.
5. Certificates:
  - a. Submit certificate(s) certifying that the substitute manufacturer (1) attests to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacture, and fabrication of aluminum storefronts for a period of not less than ten (10) years. (*Company Name*)
6. Test Reports:

- a. Submit test reports verifying compliance with each test requirement required by the project.
7. Samples:
  - a. Provide samples of typical product sections and finish samples in manufacturer's standard sizes.
- D. Substitution Acceptance:
  1. Acceptance will be in written form, either as an addendum or modification.
  2. Acceptance will be documented by a formal change order signed by the owner and contractor.

## 2.2 MATERIALS

### A. Aluminum Extrusions:

1. Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish
2. Not less than 0.070" (1.8 mm) wall thickness at any location for the main frame
3. Complying with ASTM B221: 6063-T6 alloy and temper
4. Recycled Content:

**EDITOR NOTE:** Include these Recycled Content specifications if needed to meet project requirements or for a project that includes Green Building Certifications such as LEED, Living Building Challenge (LBC), etc.

**EDITOR NOTE:** If Recycled Content requirements are not specified, prime (zero recycled content) aluminum could be supplied.

- a. Shall have a minimum of 40% mixed pre- and post-consumer recycled content.
- b. Indicate recycled content, including the percentage of pre- and post-consumer recycled content per unit of product.
- c. Indicate the relative dollar value of recycled content product to the total dollar value of product included in the project.
- d. Indicate the location for recovery of recycled content.
- e. Indicate the location of the manufacturing facility.

### B. Fasteners:

1. Nonmagnetic stainless steel or other materials must be non-corrosive and compatible with aluminum members, trim hardware, anchors, and other components.

### C. Anchors, Clips, and Accessories:

1. Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.
2. Anchors, clips, and accessories shall provide sufficient strength to withstand the design pressure indicated.

### D. Reinforcing Members:

1. Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.

2. Reinforcing members must provide sufficient strength to withstand the design pressure indicated.
- E. Sealant:
  1. For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.
- F. Tolerances:
  1. References to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.
- G. Red List Free:

**EDITOR NOTE:** Red List Free applies only for anodized products.

**EDITOR NOTE:** Retain the appropriate paragraph below; delete the other paragraph (and its sub-paragraphs, if applicable).

1. All parts and materials comply with the Living Building Challenge/DECLARE Red List and the Cradle-to-Cradle (C2C) Banned List:
  - a. PVC-free
  - b. Neoprene-free
2. Product does not contain PVC or Neoprene.

## 2.3 STOREFRONT FRAMING SYSTEM

- A. Brackets and Reinforcements:
  1. Manufacturer's standard high-strength aluminum with non-staining, non-ferrous shims for aligning system components.
- B. Fasteners and Accessories:
  1. Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories must be compatible with adjacent materials.
  2. Where exposed, fasteners and accessories shall be stainless steel.
- C. Perimeter Anchors:
  1. When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
- D. Packing, Shipping, Handling, and Unloading:
  1. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- E. Storage and Protection:
  1. Store materials so that they are protected from exposure to harmful weather conditions.
  2. Handle material and components to avoid damage.
  3. Protect material against damage from elements, construction activities, and other hazards before, during, and after installation.

## 2.4 GLAZING SYSTEMS

- A. Glazing to meet requirements in Division 08 Glazing Section.
- B. Glazing Gaskets:
  - 1. Manufacturer's standard compression types
  - 2. Replaceable, extruded EPDM rubber
- C. Spacers and Setting Blocks:
  - 1. Manufacturer's standard elastomeric type
- D. Bond-Breaker Tape:
  - 1. Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.
- E. Glazing Sealants for structural-sealant-glazed systems as recommended by manufacturer for joint type, and as follows:
  - 1. Structural Sealant:
    - a. ASTM C 1184
    - b. Single-component neutral-curing silicone formulation that is compatible with the system components with which it comes in contact
    - c. Specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in the aluminum-framed systems indicated
    - d. Color: Black
  - 2. Weatherseal sealant:
    - a. ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O
    - b. Single-component neutral-curing formulation that is compatible with the structural sealant and other system components with which it comes in contact
    - c. Recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use
    - d. Color: Matching structural sealant

## 2.5 ENTRANCE DOOR SYSTEMS

**EDITOR NOTE:** If Entrances are not used in your project, remove this section.

- A. Refer to Entrance Doors as specified in Division 084113 Aluminum-Framed Entrances and Storefronts Section.
- B. Refer to Entrance Door Hardware as specified in Division 084113 Door Hardware Section.

## 2.6 ACCESSORY MATERIALS

- A. Versoleil® SunShade:
  - 1. Anchors shall be painted:
    - a. Select from Kawneer's standard paints and colors. Custom colors are available upon request.

2. Louvers and fascia shall be painted or anodized:
  - a. Painted: Select from Kawneer's standard paints and colors. Custom colors are available upon request.
  - b. Anodized: Select from Kawneer's anodized finishes.
- B. InLighten® Light Shelf:
  1. Aluminum light shelf system that consists of anchor channels, support beams, fascia trims, and Aluminum Composite Material (ACM) panels.
  2. Anchored directly to the curtain wall intermediate horizontal members.
  3. Interior-mounted to reflect daylight deeper into interior space.
  4. Light Shelf system consists of:
    - a. Aluminum Composite Material (ACM) panel, 4 mm thick.
    - b. Translucent polycarbonate panel, 4 mm or 16 mm thick.
    - c. ACM finish on upper and lower surface selected from Kawneer standard finishes.
    - d. Extruded aluminum outriggers and fascia.
    - e. Extruded aluminum anchor designed to secure to compatible verticals of framing system.
    - f. Anchor shall be designed to engage shelf so as to allow the shelf to rotate down and safely hang on its own for cleaning.
    - g. Extruded aluminum shear blocks designed to hinge on the anchors to allow rotating individual shelves for cleaning.
    - h. Panel/shelf projection not exceeding 30" (762 mm).
    - i. Mullion spacing of framing system shall not exceed 6' (1.83 m) on center.
    - j. Panel/shelf deflection shall not exceed 1/120 of horizontal span length.
  5. Framing system to support Light Shelf (select one from list):

**EDITOR NOTE: Delete from the list below the framing system that does not apply to this project.**

    - a. Curtain wall framing system
    - b. Storefront framing system
  6. Submittals for Light Shelf:
    - a. Manufacturer's installation instructions
    - b. Samples for verification:
      - 1) Factory-applied finish as selected by architect
      - 2) Functioning Light Shelf sample demonstrating operation
    - c. Shop drawing, including plans, elevations, sections, fabrication, and installation details
    - d. Validation from manufacturer of single-source for light shelf and framing system and compatibility between the systems
- C. Joint Sealants:
  1. For installation at perimeter of aluminum-framed systems, as specified in Division 07 Joint Sealants Section.
- D. Bituminous Paint:
  1. Cold-applied asphalt-mastic paint
  2. Complies with SSPC-Paint 12 requirements except containing no asbestos

3. Formulated for 30-mil (0.762 mm) thickness per coat

## 2.7 FABRICATION

- A. Fabricate framing member components that, when assembled, have the following characteristics:
  1. Profiles that are sharp, straight, and free of defects or deformations
  2. Accurately fitted joints that are flush, hairline, and weatherproof
  3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior
  4. Physical and thermal isolation of glazing from framing members
  5. Accommodations for thermal and mechanical movements of glazing and framing that maintain required glazing edge clearances
  6. Provisions for field replacement of glazing
  7. Fasteners, anchors, and connection devices that are concealed from view to the greatest extent possible
- B. Mechanically Glazed Framing Members:
  1. Fabricate for flush glazing without projecting stops.
- C. Structural-Sealant-Glazed Framing Members:
  1. Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.
- D. Storefront Framing:
  1. Fabricate components for assembly using manufacturer's standard installation instructions.
- E. After fabrication, clearly mark components to identify their locations in project according to shop drawings.

## 2.8 ALUMINUM FINISHES

- A. Finish designations that are prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. Factory Finishing:
  1. Kawneer Permanodic® AA-M10C21A44, AAMA 611, Architectural Class I Color Anodic Coating (Color \_\_\_\_\_)
  2. Kawneer Permanodic® AA-M10C21A41, AAMA 611, Architectural Class I Clear Anodic Coating (Color #14 Clear) (Optional)
  3. Kawneer Permanodic® AA-M10C21A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear) (Standard)
  4. Kawneer Permafluor™ (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color \_\_\_\_\_)
  5. Kawneer Permادize® (50% PVDF), AAMA 2604, Fluoropolymer Coating (Color \_\_\_\_\_)
  6. Kawneer Permacoat™ AAMA 2604, Powder Coating (Color \_\_\_\_\_)
  7. Other: Manufacturer \_\_\_\_\_ Type \_\_\_\_\_ (Color \_\_\_\_\_)

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. With installer present, examine openings, substrates, structural support, anchorage, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work:
1. Verify rough opening dimensions.
  2. Verify levelness of sill plate.
  3. Verify operational clearances.
  4. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components for proper water management.
  5. Masonry Surfaces:
    - a. Masonry surfaces must be visibly dry and free of excess mortar, sand, and other construction debris.
  6. Wood Frame Walls:
    - a. Wood frame walls must be dry, clean, sound, well nailed, free of voids, and without offsets at joints.
    - b. Ensure that nail heads are driven flush with surfaces in opening and within 3" (76.2 mm) of opening.
  7. Metal Surfaces:
    - a. Metal surfaces must be dry and clean (free of grease, oil, dirt, rust, corrosion, and welding slag).
    - b. Ensure that metal surfaces are without sharp edges or offsets at joints.
- B. Proceed with installation only after correcting unsatisfactory conditions.

### 3.2 INSTALLATION

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum-framed storefront system, accessories, and other components.
- B. Install aluminum-framed storefront system so that components:
1. Are level, plumb, square, and true to line
  2. Are without distortion and do not impede thermal movement
  3. Are anchored securely in place to structural support
  4. Are in proper relation to wall flashing and other adjacent construction
- C. Set sill members in bed of sealant or with gaskets, as indicated, for weather-tight construction.
- D. Install aluminum-framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within aluminum-framed storefront system to the exterior.
- E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

### 3.3 FIELD QUALITY CONTROL

#### A. Field Tests:

1. Architect shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured.
2. Conduct tests for air infiltration and water penetration with manufacturer's representative present.
3. Tests that do not meet the specified performance requirements and units that have deficiencies shall be corrected as part of the contract amount.
4. Testing shall be performed per AAMA 503 by a qualified independent testing agency. Refer to Testing Section for payment of testing and testing requirements.
5. Air Infiltration Tests:
  - a. Conduct tests in accordance with ASTM E 783.
  - b. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft<sup>2</sup>, whichever is greater.
6. Water Infiltration Tests:
  - a. Conduct tests in accordance with ASTM E 1105.
  - b. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 6.2 psf (300 Pa).

#### B. Manufacturer's Field Services:

1. Upon owner's written request, provide periodic site visit by manufacturer's field service representative.

### 3.4 ADJUSTING, CLEANING, AND PROTECTION

#### A. Adjusting: Not applicable.

#### B. Protection:

1. Protect installed product's finish surfaces from damage during construction.

#### C. Cleaning:

1. Clean glass immediately after installation.
  - a. Comply with glass manufacturer's written recommendations for final cleaning and maintenance.
  - b. Remove non-permanent labels and clean surfaces.
2. Clean aluminum surfaces.
3. Avoid damaging protective coatings and finishes.
4. Remove excess sealants, glazing materials, dirt, and other substances.
5. Repair or replace damaged installed products.
6. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during the construction period.
7. Remove construction debris from project site and legally dispose of debris.

### END OF SECTION 084113

## NOTES AND DISCLAIMERS

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor. It is the responsibility of the owner, the specifier, the architect, the general contractor, and the installer and the fabricator/transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Such information is believed to be reliable, but Kawneer shall have no responsibility or liability for results obtained or damages resulting from such use.

This guide specification is intended to be used by a qualified construction specifier. The guide specification is not intended to be used verbatim as a project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm and the particular requirements of a specific construction project.

Kawneer grants no license under, and shall have no responsibility or liability for infringement of, any patent or other proprietary right. Nothing in this document should be construed as a warranty or guarantee by Kawneer, and the only applicable warranties will be those set forth in Kawneer acknowledgment or in any printed warranty documents issued by Kawneer. The foregoing may be waived or modified only in writing by a Kawneer officer.

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CGR - Wall and Corner Guards

## WALL AND CORNER GUARDS

### Rigid Vinyl Corner Guard, 90 Degrees

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Manufacturer: IPC  
Style/Series: 34xxN Copy

### Sales Rep

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#### Primary

Jenny S Fromm  
Email: jfromm@inprocorp.com  
Office Phone: 262.679.9010 ext. 5183

### Attributes

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Rigid Vinyl Corner Guard, 90 Degrees

Type: Corner Guard

#### DIMENSIONS

Width: 3/4"  
Length: 3/4"  
Dimension Explanation: x Full Height (Above Wall Base)

#### MATERIAL/FINISH

Material Composition: Extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifiers. No plasticizers shall be added.  
Color: #0238 Feather  
Finish: Textured

#### PERFORMANCE

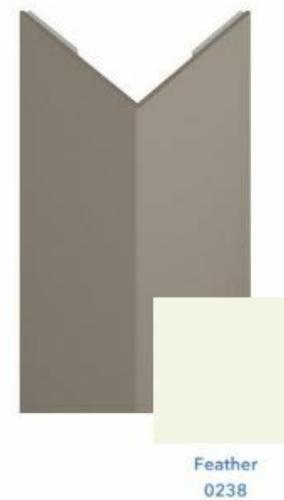
Accessories: Manufacturer's recommended adhesive  
Best Practices: Greenguard Gold Certified  
Fire/Smoke Rating: UL Classified corner guards conforming with NFPA Class A fire rating. Surface Burning characteristics as determined by UL-723 (ASTM E-84), shall be flame spread of 10 and smoke development of 350-450.  
Quality Standards: Fungal and Bacterial Resistance as tested in accordance with ASTM G-21 and AST

#### MISCELLANEOUS

Warranty: Standard IPC Limited Lifetime Warranty against material and manufacturing defects.

#### CUSTOM FIELDS

Mount: NA  
Edge: NA  
Finish: Textured  
Length: Field Verify  
Product: Tape On Corner Guard (Without Tape)  
Wing Size: 3/4"



---

**Notes**

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There are some locations where the wall is a partial height wall.  
Coordinate height of corner guard with the Design Guideline  
Drawings.  
Product Data Sheet: <https://tinyurl.com/ync2xatk>

## WALL AND CORNER GUARDS

### Rigid Vinyl Corner Guard, 90 Degrees

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Manufacturer: IPC  
Style/Series: 34xxN Copy

### Sales Rep

---

#### Primary

Jenny S Fromm  
Email: [jfromm@inprocorp.com](mailto:jfromm@inprocorp.com)  
Office Phone: 262.679.9010 ext. 5183

### Attributes

---

Rigid Vinyl Corner Guard, 90 Degrees

Type: Corner Guard

#### DIMENSIONS

Width: 3/4"  
Length: 3/4"  
Dimension Explanation: x Full Height (Above Wall Base)

#### MATERIAL/FINISH

Material Composition: Extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifiers. No plasticizers shall be added.  
Color: #0151 Graystone  
Finish: Textured

#### PERFORMANCE

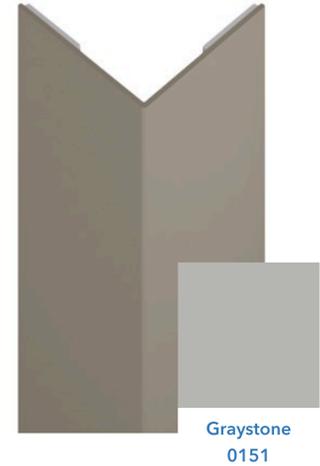
Accessories: Manufacturer's recommended adhesive  
Best Practices: Greenguard Gold Certified  
Fire/Smoke Rating: UL Classified corner guards conforming with NFPA Class A fire rating. Surface Burning characteristics as determined by UL-723 (ASTM E-84), shall be flame spread of 10 and smoke development of 350-450.  
Quality Standards: Fungal and Bacterial Resistance as tested in accordance with ASTM G-21 and AST

#### MISCELLANEOUS

Warranty: Standard IPC Limited Lifetime Warranty against material and manufacturing defects.

#### CUSTOM FIELDS

Mount: NA  
Edge: NA  
Finish: Textured  
Length: Field Verify  
Product: Tape On Corner Guard (Without Tape)  
Wing Size: 3/4"



Graystone  
0151

**Notes**

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Product Data Sheet: <https://tinyurl.com/ync2xatk>

## WALL AND CORNER GUARDS

### Heavy-Duty Stainless Steel Corner Guards

---

Manufacturer: Schluter Systems  
Style/Series: K15V2A/250

### Sales Rep

---

#### Primary

Steve Brasington  
Email: SBrasington@schluter.com  
Office Phone: (803) 429-2950

### Attributes

---

Heavy-Duty Stainless Steel Corner Guards

Type: ECK-K Corner Guard, 90 Degree Angle

#### DIMENSIONS

Width: 9/16"  
Length: 9/16"  
Height: 8'-2 1/2"

#### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Polished Stainless Steel

#### PERFORMANCE

Accessories: Adhesive per manufacturer's recommendations

#### MISCELLANEOUS

Warranty: 5-Year Limited Warranty

#### CUSTOM FIELDS

Mount: NA  
Edge: NA  
Finish: NA  
Length: NA  
Product: NA  
Wing Size: NA

### Notes

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Manufacturer Data Sheet:<https://tinyurl.com/2p82zfs3>



## WALL AND CORNER GUARDS

### The 2600 Chair Rail provides a narrow...

Manufacturer: Inpro Corporation  
Style/Series: 2600 Chair Rail

### Sales Rep

#### Primary

Jenny S Fromm  
Email: [jfromm@inprocorp.com](mailto:jfromm@inprocorp.com)  
Office Phone: 262.679.9010 ext. 5183

### Attributes

The 2600 Chair Rail provides a narrow profile with 3" height for targeted wall protection against areas where chairs leave scratches, dents and chips.

Item type: Chair Rail  
Model: 2600 Chair Rail

### DIMENSIONS

Height: 3"  
Depth: 1"

### MATERIAL/FINISH

Color: #0283 Sterling  
Finish: Rigid  
Material Composition: Vinyl

### PERFORMANCE

Fire/Smoke Rating: UL Classified chair rails conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by UL-723 (ASTM E-84), shall be flame spread of 10 and smoke development of 350 - 450.  
Best Practices: Greenguard Certified

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/yut35hch>



Sterling  
0283

CO - Concrete

## CONCRETE

### Clear, Waterborne, Curing and Sealing...

---

Manufacturer: BASF - Construction Systems  
Style/Series: MasterKure CC 1315WB

### Attributes

---

Clear, Waterborne, Curing and Sealing Compound

Type: Curing and Sealing Compound

### MATERIAL/FINISH

Color: Clear, Non-yellowing

### PERFORMANCE

Best Practices: Low-VOC compliant  
Quality Standards: ASTM C 1315, 25% solids minimum, Type I, Class B

### CUSTOM FIELDS

Abrasion: NA  
Finish: NA  
Hardness: NA  
Composition: NA  
Eco-Feature(s) \*as per manufacturer: NA  
Coefficient of Friction: NA

### Notes

---

Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) dry.

IMAGE NOT  
AVAILABLE

CT - Countertops

## COUNTERTOPS

### Window Sills

---

Manufacturer: Belstone Products  
Style/Series: Dodi Php

### Sales Rep

---

#### Primary

Scott Smith  
Email: [scott@belstoneproducts.com](mailto:scott@belstoneproducts.com)  
Office Phone: (818) 373-4900 xt 24

### Attributes

---

Window Sills

Type: Engineered Quartz

### DIMENSIONS

Dimension Explanation: Refer to drawings for size and thickness

### MATERIAL / FINISH

Material Composition: Quartz aggregate, resin, and color pigments formed into flat slabs. Slabs shall contain a minimum of 88% quartz.  
Color: Artax  
Finish: Polished Edge

### PERFORMANCE

Accessories: Adhesive per Manufacturer's Recommendation  
Notes / Special Instructions: Provide Label Per Specification Section 12 36 61. Special Instructions Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) and at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.



DFR - Doors and Frames

## DOORS AND FRAMES

### Pre-finished interior door frames, sq...

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Manufacturer: GenFrame™ Series | Gensteel Doors  
Style/Series: GenFrame™ Series

### Sales Rep

---

#### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com  
Office Phone: 770.795.9564 x 310

### Attributes

---

Pre-finished interior door frames, square profile.

Item Type: Interior door frames

### MATERIAL / FINISH

Color: According to the brand finish scheme.  
Finish: Factory primed and finished.

### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1  
Accessories: Frame anchors  
Acoustical Performance: STC 38 minimum  
Best Practices: Recycled content  
Compressive Strength: NA  
Fire/Smoke Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.  
Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"  
Structural Performance: ANSI/SDI Level 2, Performance Level B (Heavy-Duty)

### MISCELLANEOUS

Warranty: Life of building

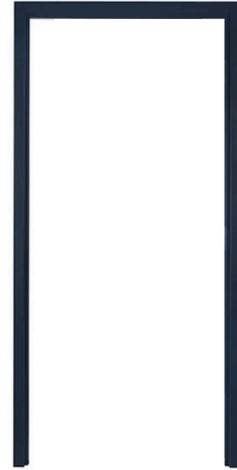
### CUSTOM FIELDS

Hardware: Prepared for ANSI strikes and pre-drilled for door silencers/ gasketing as applicable.  
Fire Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.  
Louver: Manufacturer's standard fire-rated automatic louvers. Refer to Mechanical Drawings for locations.

### Notes

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Special Instructions



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Clearances: 1/8" at jambs and heads; 3/4" at bottom; 1/4" at meeting edges of pairs of doors.

Interior Guestroom Door Frames: Continuously welded corners; or Hollow Metal Drywall "Knock-Down" Type door frames; or Prefinished Frames (Timely or Rediframe).

DFR-002



# GENFRAME™ SERIES

Tough to the core™

GenFrame™ DW/MA-12  
 GenFrame™ DW/MA-14  
 GenFrame™ DW/MA-16  
 GenFrame™ DW/MA-18  
 GenFrame™ DW/MA-22



Product meets ANSI 250.8 requirements

Gensteel offers a full range of steel frames in standard or custom sizes and profiles. Steel frames are available for dry wall or masonry applications in 12, 14, 16, and 18 gauge for 1¾ in. (45 mm) doors and in 22 gauge for 1½ in. (35 mm) doors. All standard frames are manufactured from galvanized steel and are reinforced to receive specified architectural hardware in accordance to ANSI A115 standards. Frames are also available in stainless steel, lead-lined (x-ray) and G90 galvanized steel.

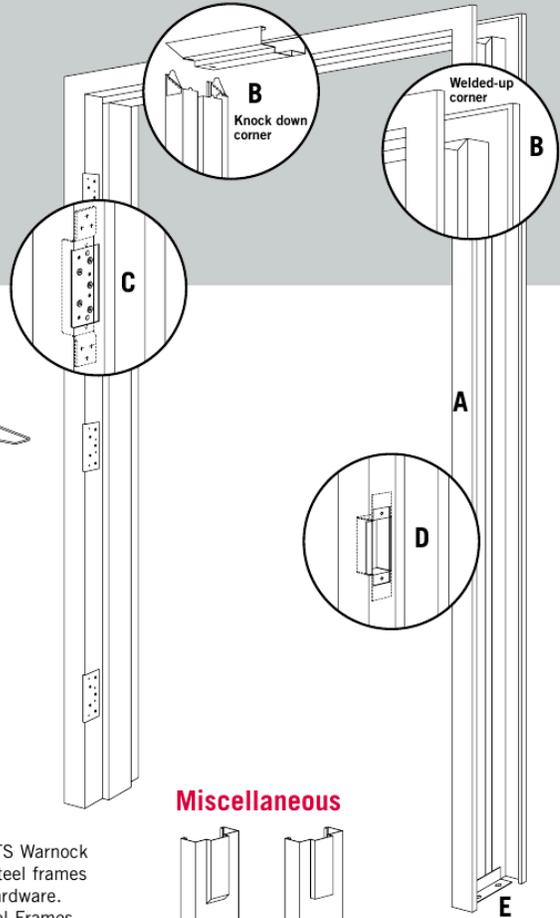
Gensteel also offers a full line of frames with thermal break for cold climate exterior applications.

#### General Specifications

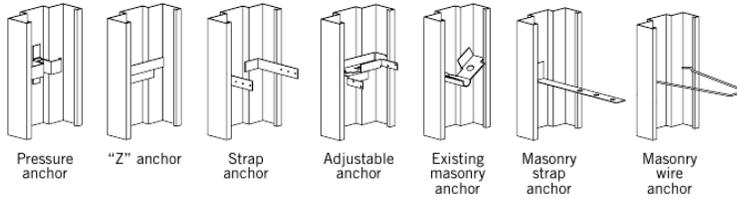
- Standard frames are available as welded-up or knock down (KD).
- Hinge jambs are prepared and reinforced to receive 3 standard weight 4½" x 4½" (114 mm x 114 mm) butt hinges. Hinge reinforcements can easily be converted to accommodate heavy weight hinges.
- Strike jambs are prepared and reinforced to receive one standard 4¾" (124 mm) strike in accordance to ANSI A115.1.
- Hinge and strike jambs are supplied with appropriate wall anchors.
- On welded-up frames, all welded joints are ground smooth and touched-up with primer paint to provide a seamless look.

## Frame Construction

- A 12, 14, 16, 18 or 22 gauge galvanized steel.
- B Knock down or welded-up corners.
- C 10 gauge high frequency dual purpose hinge reinforcement with return bend for added strength. Can easily be converted to accommodate heavy weight hinges.
- D 18 gauge ASA strike reinforcement with closed back.
- E 18 gauge floor anchor.
- High precision **QUICKFIT™** certified assembly.



## Available Wall Anchors



| Recommended Uses   | Light Duty | Standard Duty | Medium Duty | Heavy Duty | Extra Heavy Duty |
|--------------------|------------|---------------|-------------|------------|------------------|
| GenFrame™ DW/MA-12 |            |               |             |            | X                |
| GenFrame™ DW/MA-14 |            |               |             | X          | X                |
| GenFrame™ DW/MA-16 |            |               | X           | X          |                  |
| GenFrame™ DW/MA-18 |            | X             | X           |            |                  |
| GenFrame™ DW/MA-22 | X          |               |             |            |                  |

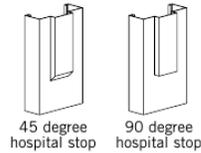
## Fire Labels



Gensteel fire labeled steel frames are approved by both Intertek Testing Services (ITS Warnock Hersey) and Underwriters Laboratories (UL) Fire Labeling Programs\*. Fire labeled steel frames must be installed with an equivalent fire labeled door with approved fire listed hardware. For fire labeling restrictions and limitations refer to the Fire Labeling Guide for Steel Frames.

\* 22 gauge frames cannot be fire rated

## Miscellaneous



## Fire Labeling Guide for Steel Frames

| Type                                       | Min. Gauge | Min. Throat Opening                          | Max Frame Rebate Sizes  |   | Available Rating         | Notes   |
|--|------------|--|---|---|--------------------------|---|
|  |            |  | Single  | Double  |                          |   |
| Basic frames                               | 16         | 3 1/2" double rabbet<br>2 1/2" single rabbet | 4'0" x 10'0"  | 8'0" x 10'0"  | 3 h<br>1 1/2 h<br>45 min | For drywall or masonry openings.<br>Available knock down or welded-up   |
|  | 18         | 4 1/2"                                       | 3'0" x 7'0"   | 6'0" x 7'0"   |                          |   |
| Frames with center mullion                 | 16         | 3 1/2" double rabbet<br>2 1/2" single rabbet | —   | 4'0" x 8'0"   | 3 h<br>1 1/2 h<br>45 min | For drywall or masonry openings.<br>Center mullion may be fixed or removable.   |
| Double egress frames                       | 16         | 3 1/2"                                       | —   | 8'0" x 8'0"   | 3 h, 1 1/2 h, 45 min     | For drywall or masonry openings.  |
| Multi-opening frames                       | 16         | 2 1/2"                                       | —   | 12'0" x 8'0" with no individual opening to exceed 8'0" x 8'0"           | 1 1/2 h<br>45 min        | For masonry openings.<br>Mullions may be fixed or removable.  |
| Transom frames with or without transom bar | 16         | 3"   | 4'0" x 11'2" transom panel height ≤ 4'2",<br>door opening height ≤ 9'0"   | 8'0" x 11'0" transom panel height ≤ 4'0",<br>door opening height ≤ 9'0" | 1 1/2 h<br>45 min        | For drywall or masonry openings   |
| Glazed or paneled screens                  | 16         | 3"   | 13'6" x 12'0" overall for masonry opening<br>11'4" x 10'0" overall for drywall opening<br>maximum door opening size 8'0" x 8'0" |   | 45 min                   | Glazed opening area ≤ 1296 in. <sup>2</sup><br>per glazed opening.<br>Glazing width & height ≤ 4'6".                              |
|  | 16         | 4 1/2"                                       | 10'2" x 10'1" overall for drywall or masonry openings<br>maximum door opening size 8'0" x 8'0"                                  |   | 1 1/2 h<br>45 min        | Transom panel size ≤ 3'5" x 2'2".<br>Side panel area ≤ 1296 in. <sup>2</sup> per side panel<br>with width ≤ 2'6" & height ≤ 4'6". |
| Window frames                              | 16         | 3"   | 13'6" x 12'0" overall for masonry opening<br>11'4" x 10'0" overall for drywall opening  |   | 45 min                   | Glazed opening area ≤ 1296 in. <sup>2</sup><br>per glazed opening.<br>Glazing width & height ≤ 4'6".                              |

As a result of Gensteel's ongoing quest for improvement, technical specifications are subject to change without notice.



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Toll free: **1-866-GENSTEEL (436-7833)**  
Telephone: (514) 733-3562 Fax: (514) 733-1932

Manufacturing Plant: Cornwall, Ontario  
U.S. Manufacturing Plant: Plattsburgh, NY

[www.gensteeldoors.com](http://www.gensteeldoors.com)

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## DOORS AND FRAMES

### Standard double rabbet hollow metal f...

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Manufacturer: Steelcraft / Allegion

Style/Series: F Series, MU Series

### Sales Rep

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#### Primary

Nick Batrouney

Email: nickb@discoverParagon.com

Office Phone: 770.795.9564 x 310

#### Secondary

Customer Service

Email: N/A2

### Attributes

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Standard double rabbet hollow metal frame with welded corners

Type: Exterior/Interior Hollow Metal Door Frames

### DIMENSIONS

Dimension Explanation: Refer to Design Guideline Drawings Door Schedule

### MATERIAL/FINISH

Material Composition: 16-gauge (0.053-inch) thick steel sheet for interior and exterior applications; Exterior frames shall be 0.30 ounces per square foot per side, hot-dipped galvanized or electrolytic zinc-coated steel with a stretcher level degree of flatness  
Color: Refer to Design Guideline Drawings

Finish: Manufacturer Standard Factory-primed, field-painted (See Project-specific Mark # for paint color)

### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1 current version

Acoustical Performance: Refer to Brand Design Guideline Standards

Best Practices: Recycled content

Fire/Smoke Rating: ASTM E152; NFPA 80 "Standard for Fire Doors, Fire Windows."

Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"

Structural Performance: ANSI/SDI Level 2, Performance Level B (Heavy-Duty)

### MISCELLANEOUS

Lead Time: 4 Weeks

Warranty: 1 Year from Purchase Date



**CUSTOM FIELDS**

Frame Type: Standard Double Rabbet Hollow Metal Frame with Welded Corners

Finish: Primed

Fire Rating: Actual rating to be determined by the Architect based on location and code requirements.

Quality Standards: NA

Hardware: Refer to Design Guideline Drawings Door Schedule and hardware specifications. Prepared for ANSI strikes and pre-drilled for door silencers/ gasketing as applicable.

**Notes**

Product Data Web Link: <https://tinyurl.com/efz45xtd>

Fastening: Lock in stud anchors to secure frame to perimeter construction

Reinforcement: Concealed metal reinforcements for hardware as required and security anchor system on strike jamb

All Exterior Door Frames, Public Space, Back-of-House, and Guest Room Entry Door Frames shall have continuously welded corners.

**Special Instructions**

Clearances: 1/8" at jambs and heads; 3/4" at bottom; 1/4" at meeting edges of pairs of doors.

DH - Assembly, Door Hardware

**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Interior Stairs (Door #26 Stair A, 32 Stair B)

**DOOR  
HARDWARE**

## 10 NESTED ITEMS

| Code/Tag   | Product Name                         | Quantity |
|------------|--------------------------------------|----------|
| DH-001-MK  | MPB79 Hinge                          | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge    | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop        | 0.0      |
| DH-029-YA  | 700 Series Architectural Exit Device | 0.0      |
| DH-029-CLR | A2200EO36 Exit Device                | 0.0      |
| DH-032-PK  | S88_ Adhesive Gaskets                | 0.0      |
| DH-034-YA  | 2700 Series Door Closer              | 0.0      |
| DH-034-CLR | N900PBF Door Closer                  | 0.0      |
| DH-081-YA  | AU-628F                              | 0.0      |
| DH-081-CLR | PAS30L                               | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA  
156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

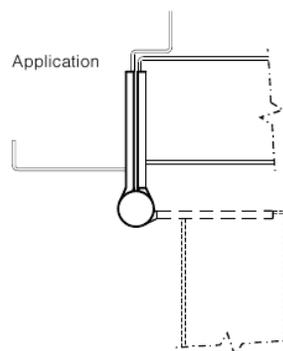
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

### Options:

| Code | Description       |
|------|-------------------|
| NRP* | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



800-346-7707 | www.mckinneyhinge.com  
Check the web site for the up-to-date catalog

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**McKinney**  
**ASSA ABLOY**

Experience a safer  
and more open world

## Cal-Royal BB31 4.5" x 4.5" Ball Beari...

---

Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

## Sales Rep

---

### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

### DIMENSIONS

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

### MATERIAL / FINISH

Finish: US652 Stain Chrome

Material Composition: 1040 steel

### PERFORMANCE

Quality Standards: ANSI/BHMA A156.1

### HINGE

Knuckle: 5

## Notes

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<https://tinyurl.com/yzchz3hj>



## Wrought Concave Wall Stop

---

Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

---

### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle  
Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

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Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 700 Series Architectural Exit Device

---

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

---

## Attributes

Item Type: 7100(F) Rim

### DIMENSIONS

Door Opening Width: -36 for 30" - 36" (76cm - 91cm) doors  
Stile Width: 4-1/2" (114mm)  
Projection: 3-1/4" (83mm) active, 2-3/4" (70mm) dogged  
Door Thickness: 1-3/4" (44mm) standard. Optional door thicknesses available to 4-1/2"; specify door thickness when ordering.

### MATERIAL / FINISH

Finish: 630 Satin Stainless Steel  
Material Composition: stainless steel

### PERFORMANCE

Fire/Smoke Rating: FVSR/FVSR - Panic hardware; GXHX/GXHX7 - Fire exit hardware (F) (4' x 8' single, 8' x 8' pairs, 3 hr.)  
Operation: 3/4" throw deadlocking stainless steel pullman latchbolt  
Quality Standards: Certified A156.3 Type 1, Grade 1

### MISCELLANEOUS

Lead Time: TBD



## A2200 & AF2200 Rim Type Panic and Fir...

---

Manufacturer: Cal-Royal Door Hardware

Style/Series: A2200EO36 Exit Device

## Sales Rep

---

### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA)

Item Type: A2200EO36 Exit Device

### DIMENSIONS

Width: 30" to 36" door width

Length: 32"

Thickness: 1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims

### MATERIAL / FINISH

Finish: Aluminum (Alum)

Material Composition: Stainless Steel

### PERFORMANCE

Accessibility Compliance : Americans with Disability Act (ADA)

Compliant, 5 lbs. opening force.

Best Practices: UL Listed for Panic and UL10C, UBC 7-2-1997 codes.

Fire/Smoke Rating: UL Listed for Fire Exit Hardware. 3 hours.

Quality Standards: ANSI A156.3, GRADE 1 heavy duty exit device in surface vertical rod and rim designs.

### MISCELLANEOUS

Warranty: Lifetime



## A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA) A2260V & AF2260V Vertical Rod Panic and Fire Exit Devices (ADA) ANSI A156.3, Grade 1



### Features & Construction

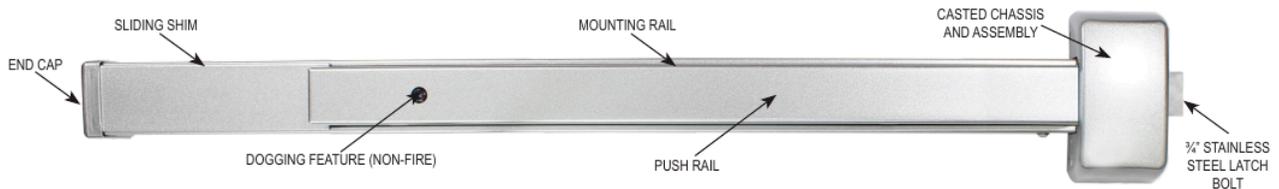
- ◆ **Retrofits Sargent 12-2828 & 12-2838 Series**
- ◆ Americans with Disability Act (ADA) compliant. 5 lbs opening force on ADA product only
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 Hours
- ◆ Conforms & Meets ADA Regulations (ADA products only)
- ◆ (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of Stainless Steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1

# A2200 & AF2200 ADA Series

## GRADE 1 Rim Type Exit Device



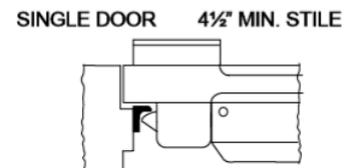
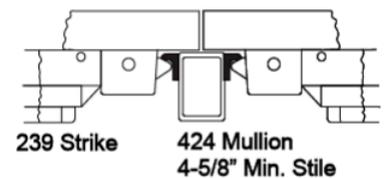
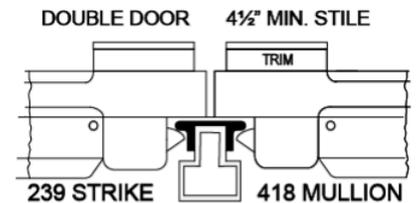
### Specifications

|                                  |  |
|----------------------------------|--|
| <b>For Doors.....</b>            | 1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims   |
| <b>Chassis.....</b>              | Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)  |
| <b>Cover.....</b>                | Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout   |
| <b>Mounting.....</b>             | Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices.  |
| <b>End Cap.....</b>              | Steel construction   |
| <b>Alarm.....</b>                | Available. See page 74   |
| <b>Hand.....</b>                 | Non handed, center hub. 2 3/4" backset   |
| <b>Latch Bolt.....</b>           | Stainless Steel 3/4" throw   |
| <b>Spring.....</b>               | Stainless Steel throughout   |
| <b>ANSI Standard.....</b>        | A156.3, Grade 1  |
| <b>Rail Assembly.....</b>        | Heavy gauge steel, painted   |
| <b>Strike.....</b>               | 239 packed standard (See strike page)  |
| <b>Dogging Feature.....</b>      | Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available  |
| <b>Mullion.....</b>              | Available  |
| <b>UL and ULC Listed.....</b>    | A2200 Series for panic. AF2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes. |
| <b>Finish.....</b>               | Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold  |
| <b>Electronic Functions.....</b> | (ELR) Electrical Latch Retraction and RX & LX Signal Switch available  |

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Minimum Stile Requirements 4" escutcheon trims & 4 1/2" for Thumbpiece and rose trims



### DIMENSIONS

|  |                         |                     |                       |
|--|-------------------------|---------------------|-----------------------|
| <b>Touchbar height to finished floor</b> | 41" (1041 mm) at center |                     |                       |
| <b>Touchbar projection</b>               |                         |                     |                       |
| Neutral                                  | 2 1/2" (64 mm)          |                     |                       |
| Depressed                                | 1 3/4" (45 mm)          |                     |                       |
| <b>MODEL</b>                             | <b>ACTUAL LENGTH</b>    | <b>MAX CUT DOWN</b> | <b>DOOR SIZE</b>      |
| A2200EO24 and AF2200EO24                 | 20"                     | 2"                  | 22" to 24" door width |
| A2200EO32 and AF2200EO32                 | 28"                     | 6"                  | 26" to 32" door width |
| A2200EO36 and AF2200EO36                 | 32"                     | 6"                  | 30" to 36" door width |
| A2220EO48 and AF2220EO48                 | 44"                     | 12"                 | 36" to 48" door width |

# A2260V & AF2260V ADA Series

## GRADE 1 Vertical Rod Type Exit Device



**LIFETIME WARRANTY**

**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

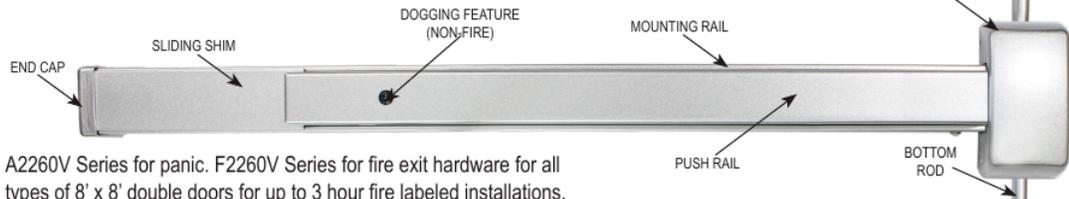


### Specifications

- For Doors.....** 1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
- Top & Bottom Chassis.....** Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
- Cover.....** Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
- Mounting.....** Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
- End Cap.....** Steel construction
- Alarm.....** Available. Prefix "NALRM" before MODEL #
- Hand.....** Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
- Latch Bolt & Spring.....** Stainless steel
- ANSI Standard.....** A156.3, Grade 1
- Rail Assembly.....** Heavy gauge steel, painted
- Strike.....** See strike page
- Dogging Feature.....** Allen-type key furnished standard on non-fire labeled devices

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**



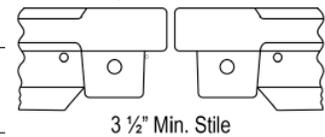
- UL and ULC Listed.....** A2260V Series for panic. F2260V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
- Finish.....** Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

### DIMENSIONS

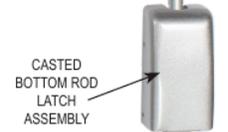
|   |  |
|---|--|
| Touchbar height to finished floor             | 41" (1041 mm) at center                                  |
| Touchbar projection                           |  |
| Neutral                                       | 2 1/2" (64 mm)   |
| Depressed                                     | 1 3/4" (45 mm)   |
| Panic grade top & bottom latch case           | 3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)      |
| Fire grade top latch case                     | 3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)   |
| Fire grade bottom latch case                  | 3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)      |
| Top and bottom rod length for 36" x 84" doors | Top rod 39 3/16" (995 mm), bottom rod 37 3/16" (945 mm)  |
| Top and bottom rod length for 48" x 96" doors | Top rod 51 3/16" (1300 mm), bottom rod 37 3/16" (945 mm) |
| Vertical Rods                                 | 1/2" (13 mm) Round tubing                                |

### Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



| MODEL  | ACTUAL LENGTH | MAX CUT DOWN | DOOR SIZE             |
|--|---------------|--------------|-----------------------|
| A2210V2484, AF2210V2484  | 20"           | 2"           | 22" to 24" door width |
| A2260V3684, AF2260V3684, A2270V3284, AF2270V3284, A2290V3696, AF2290V3696, A2250V36120 | 32"           | 6"           | 30" to 36" door width |
| A2280V4896, AF2280V4896, A2240V48120   | 44"           | 12"          | 36" to 48" door width |



**Adhesive Gasket/ Hospitality Products**

Manufacturer: Assa Abloy - Pemko  
Style/Series: S88\_ Adhesive Gaskets

**Sales Rep****Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

Adhesive Gasket/ Hospitality Products

Item Type: S88\_

**DIMENSIONS**

Width: 1/2"  
Length: TBD  
Height: 1/4"  
Weight: .08 lbs per foot

**MATERIAL / FINISH**

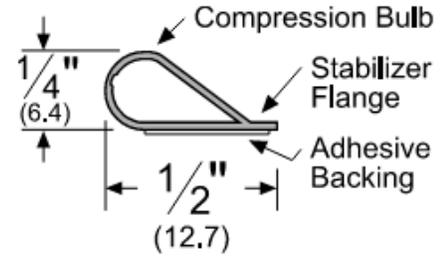
Color: Black

**PERFORMANCE**

Best Practices: ANSI R0E154, R0E155 Tested to ASTM E-283-04 (2012)  
Fire/Smoke Rating: Tested to UL 1784 and meets the requirements of NFPA 105-201  
Quality Standards: GreenGuard GOLD Certification  
Acoustical Performance: Tested to ASTM E90 - 2009

**MISCELLANEOUS**

Lead Time: 4 working days (or less)  
Warranty: 2 years if installed within 6 months  
Notes / Special Instructions: S88\_ is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations



## 4400 Series Door Closer

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 2700 Series Door Closer

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

4400 Series Door Closer

### DIMENSIONS

Door Thickness: 1 3/4"

### MATERIAL / FINISH

Finish: 689

Material Composition: Cast aluminum body

### PERFORMANCE

Best Practices: ANSI/BHMA A156.4, Grade 1

Accessibility Compliance : comply with requirements for the Americans with Disabilities Act ANSI/BHMA A117.1

Fire/Smoke Rating: UL / cUL listed for use on fire rated doors

Operation: Rack and pinion design

### MISCELLANEOUS

Warranty: 30-year limited warranty

### CUSTOM FIELDS

### SURFACE CLOSER

Cover Material : Molded plastic cover

Opening Degree : All standard arm applications allow doors to swing 180°, conditions permitting



---

Manufacturer: CAL-ROYAL  
Style/Series: N900PBF Door Closer

---

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

---

## Attributes

Item Type: N900PBF Door Closer

### DIMENSIONS

Length: 11 3/4"

Height: 2"

Depth: 2 7/8"

### MATERIAL / FINISH

Finish: US26D Satin Chrome

Material Composition: Cast Aluminum Body

### PERFORMANCE

Accessibility Compliance : Meets ADA requirements - A117.1

Accessibility Code

Best Practices: ANSI 156.4 Grade 1

Fire/Smoke Rating: UL Listed

### MISCELLANEOUS

Warranty: Limited Lifetime Warranty

### CUSTOM FIELDS

#### SURFACE CLOSER

Cover Material : Full plastic cover standard

Mounting Type: Parallel Arm (Push Side), Regular (Pull Side), Top

Jamb (Push Side)

Opening Degree : up to 180 degrees



## Dummy Trim Free-Wheeling

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: AU-628F

### Attributes

---

Dummy Trim Free-Wheeling

Item Type: AU-628F

#### DIMENSIONS

Width: 3"

Height: 10-1/4"

Thickness: 13/16"

#### MATERIAL / FINISH

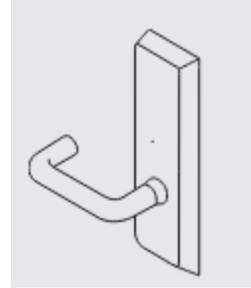
Finish: 630

#### PERFORMANCE

Best Practices: Certified ANSI/BHMA A156.3, Grade 1.

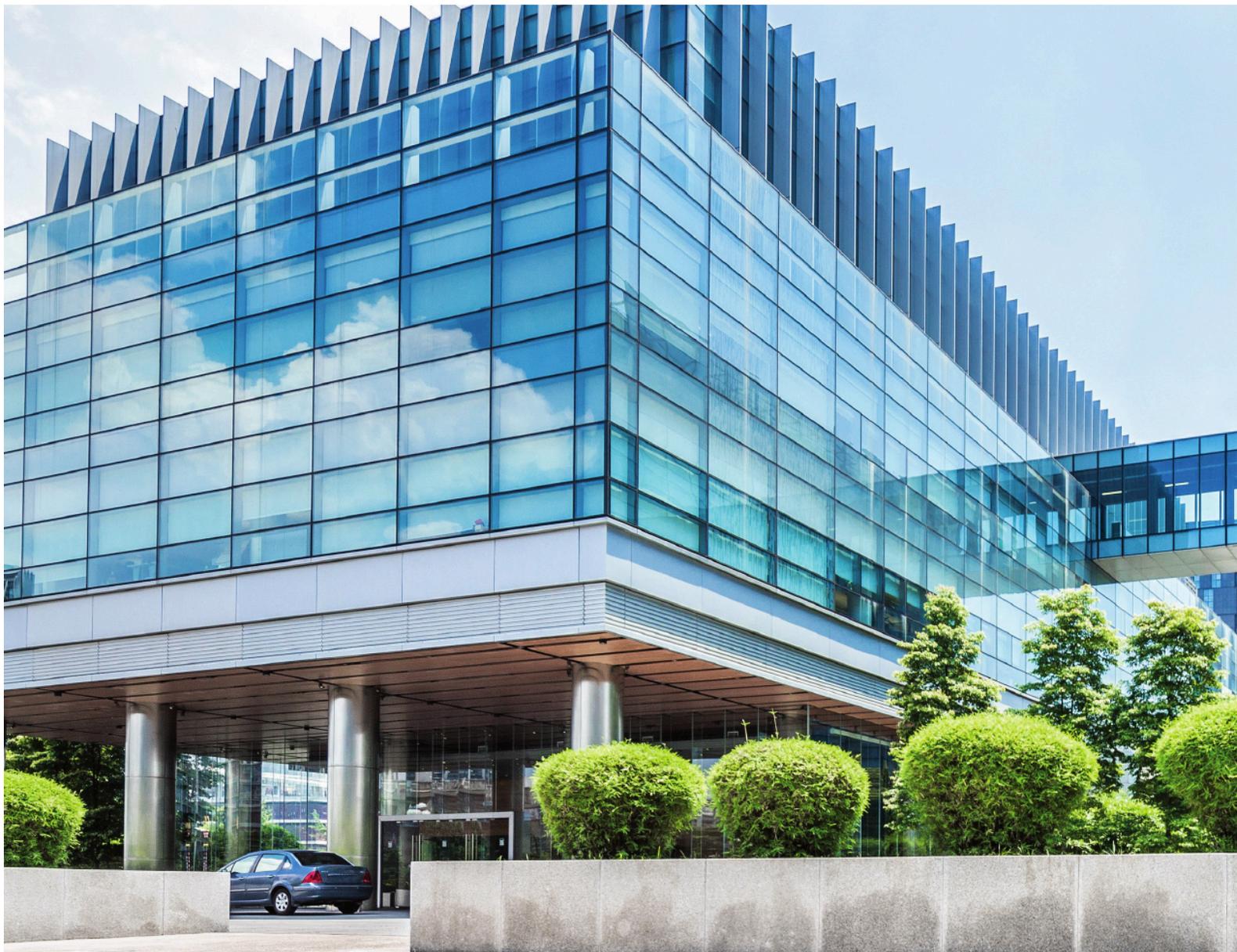
#### MISCELLANEOUS

Warranty: 5-year limited warranty.





# 7000 Series Architectural Exit Device



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## 7000 Series Exit Devices

Yale® 7000 Series Exit Devices deliver an unparalleled combination of durability, innovation and aesthetics. With ANSI/BHMA Grade 1 certification and a full range of mechanical and electromechanical functions and accessories, the 7000 Series can be easily integrated into existing security or fire alarm systems to ensure the safety of every opening. The simple, clean lines and variety of available finishes suit the modern decor of any commercial building.

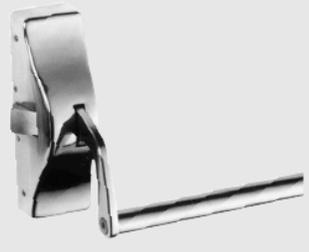
When the beauty of your facility matters almost as much as life safety, Yale Works for You<sup>SM</sup>.

# Introduction



Yale® Commercial Solutions offers innovative and reliable products to solve the challenges of commercial, retail, hospitality, assisted living, mixed-use, and multi-family properties. With over 150 years of door hardware experience, Yale's expertise extends beyond products to people - and provides the service and support you expect.

Featuring durable products to meet all your facilities' requirements - and the quality you expect from a leader in the hardware industry. Yale works for you<sup>SM</sup>.

| Yale Exit Devices  |   |   |  |
|--|---|---|--|
| 6000 Series  | 2100 Series   | 1800 Series   | 1500 Series  |
|    |   |    |    |
| <ul style="list-style-type: none"> <li>• Ideal for facilities that require modern form and full functionality to meet their life safety needs</li> <li>• Wide &amp; Narrow Stile Applications</li> <li>• Rim, Squarebolt, CVR, SVR &amp; Mortise</li> <li>• Mechanical &amp; Electro-Mechanical Functions</li> <li>• Aluminum rail assembly with Architectural Metals</li> <li>• Solid Cast Flush End Cap</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• 10 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for commercial applications and budget conscious end users</li> <li>• Narrow &amp; Wide Stile Applications</li> <li>• Rim, Squarebolt, CVR &amp; SVR</li> <li>• Mechanical Functions</li> <li>• ANSI/BHMA Grade 1 Certified</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Architectural &amp; Painted Finishes</li> <li>• 3 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for back of the house where function and code compliance are the requirement</li> <li>• Wide Stile Applications</li> <li>• Rim &amp; SVR</li> <li>• Mechanical Functions</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Powder-coat Painted Finishes</li> <li>• 1 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for renovation projects where historical preservation is the desired look</li> <li>• Wide Stile Applications</li> <li>• Rim, CVR, SVR &amp; Mortise</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Architectural &amp; Painted Finishes</li> <li>• 1 Year Warranty</li> </ul> |



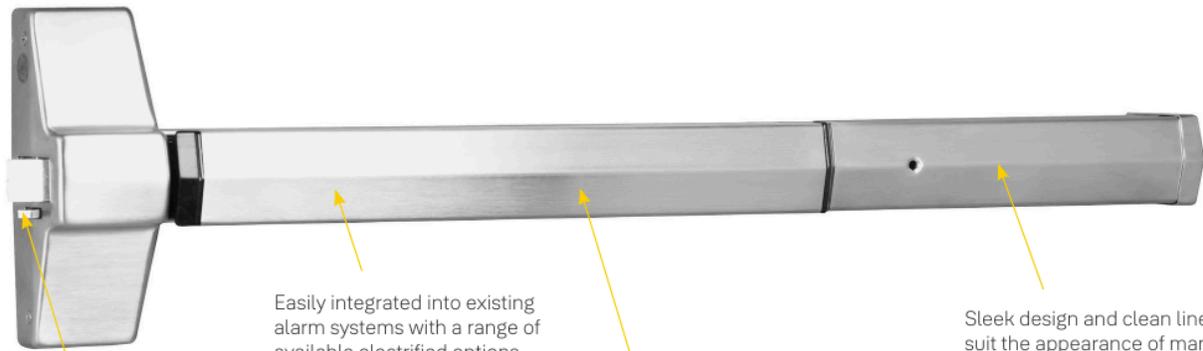
# Benefits & Features

## Benefits

- **Innovative:** Featuring patented security options including SquareBolt® latchbolt and delayed egress function
- **Durable:** Heavy-duty steel components are ANSI/BHMA Grade 1 certified for the ultimate in strength and security
- **Flexibility:** Various options available to customize this exit device to suit any opening
- **Clean, modern look:** Sleek design with a variety of attractive finish options to suit any decor

## Features

- High quality steel chassis and heavy-duty components
- Full range of mechanical and electromechanical options to suit any life safety application and pair with existing security systems
- ANSI/BHMA Grade 1 certified
- UL/cUL listed for panic and fire doors
- Windstorm certified (refer to local codes)  Hurricane
- Five year mechanical warranty, one year trim warranty, two year warranty on electrical options and components



Available with various configurations including rim, SquareBolt®, surface/ concealed vertical rod, to suit any opening

Easily integrated into existing alarm systems with a range of available electrified options

Constructed with high quality steel and heavy-duty components for durability

Sleek design and clean lines suit the appearance of many modern commercial buildings

## Now Available with Motorized Electric Latch Retraction!

The Motorized Electric Latch Retraction (MELR) feature provides remote-controlled latch retraction that delivers quiet, smooth operation for convenient, hassle-free egress. Easily installed in new applications and available as retrofit rail kit assemblies for field updates, the MELR features maintenance-free design with few moving parts using 86% less power consumption during retraction than solenoid devices. Plus, MELR is powered by a standard power supply, simplifying installation and increasing system design flexibility. See page 32 for more details.



# Finishes



| ANSI/BHMA Code<br>Finish Description   |  |  |   |  |  |
|--|--|--|---|--|--|
| <b>605</b><br>Bright Brass,<br>Clear Coated  | <b>611</b><br>Bright Bronze, Clear<br>Coated                                       | <b>612</b><br>Satin Bronze, Clear<br>Coated  | <b>613E</b><br>Dark Oxidized Satin<br>Bronze - equivalent                           | <b>619*</b><br>Satin Nickel Plated,<br>Clear Coated                                  | <b>625</b><br>Bright Chrome Plated<br>(540F trim only)                               |
|   |   |   |   |   |   |
| <b>626*</b><br>Satin Chrome Plated<br>(Trim only)                                  | <b>629</b><br>Bright Stainless Steel   | <b>630*</b><br>Satin Stainless Steel   | <b>693</b><br>Black Painted   | <b>BSP</b><br>Black Suede<br>Powder Coat   | <b>WSP</b><br>White Suede<br>Powder Coat   |
|  |  |  |  |  |  |

613, 626 and 722 finishes available as Special Product Requests only. Please contact Customer Service for more information.

\*Finish available with MicroShield® antimicrobial coating, additional finishes by special application. Consult factory for availability.

MicroShield coating may vary finish color from architectural standards. MicroShield is not intended as a substitute for traditional infection control programs such as hand hygiene or use of disinfectants. Coated products must still be cleaned to ensure the surfaces will be free of destructive microbes. Yale makes no representations or warranties, express or implied, as to the efficacy of MicroShield.

## Finishes For Touchbar Covers Only

| ANSI/BHMA Code  | Finish Description             |
|-----------------|--------------------------------|
| BN <sup>3</sup> | Semi-gloss black fused polymer |
| LUM             | Lumi-lite Photoluminescence    |
| SS              | Stainless Steel                |

## Lumi-Lite

Lumi-lite uses photoluminescence technology to provide visibility of exit doors in low-light, no light or smoky conditions. Lumi-lite can be ordered with your 7000 Series Exit Device or easily retrofitted to existing devices. See Lumi-lite Touchpad Cover on page 57 for more information.



# How To Order



From this outline select the Model Number for the Yale® 7000 Exit Device Series you require.

| 7 | X   | X   | X  | Mechanical/Electrical  | Size | Design                             | Trim                     | Finish            | Other Info.  |
|---|---|---|--|--|------|------------------------------------|--------------------------|-------------------|--|
|   | <b>Second Digit:</b><br>"1" - Standard device, 4-1/2" (114mm) or wider door stile.<br><br>"2" - Narrow stile door or narrow escutcheon trim (500F, 510F Series) | <b>Third Digit:</b><br>"0" - Rim Device, Pullman Latch<br><br>"1" - SVR Device up to 8'<br><br>"2" - CVR Device, Metal Doors up to 8'<br><br>"3" - Mortise Device<br><br>"5" - SquareBolt®, Rim Security<br><br>"6" - CVR Device over 8', wood door or LBR<br><br>"7" - SVR Device over 8' or LBR | <b>Fourth Digit:</b><br>"0" - Standard<br><br>"5" - Cylinder Dogging (Not with suffix "F") | <b>Mechanical Feature</b> <br>"F" - Fire Exit Device<br><br>"M" - Narrow escutcheon trim in 4-1/2" (114mm) or wider door stile<br><br>"LBR" - Less Bottom Rod <sup>2</sup><br><br>"L5" - Mortise Device, Entry by Key with/without Rigid Lever <sup>1</sup><br><br>"L8" - Mortise Device, Entry by Lever<br><br>"T5" - Mortise Device with Thumbpiece Trim<br><br>"T8" - Mortise Device, Active Thumbpiece Trim<br><br>"2" - Double Cylinder Device <sup>3</sup><br><br>"WS" - Windstorm Certified Products <sup>5, 6, 7</sup><br><br><b>Electrical Feature</b><br>"-A" - Alarm Kit<br>"-B" - Bar Monitor or Signaling<br>"-D" - Delayed Egress<br>"-G" - Electric Dogging<br>"-O" - Outside Trim Monitor or Signaling<br>"-MELR" - Motorized Electric Latch Retraction<br>"-S" - Latchbolt Status Monitor or Signaling<br>"-Safe" - Mortise Device Trim Control (lever only)<br>"-Secure" - Mortise Device Trim Control (lever only) |      | <b>Trim Design</b><br>(Lever only) | <b>Trim Model Number</b> | <b>See page 4</b> | <b>Other Information:</b><br><b>Door Hand</b> - RHR or LHR<br><br><b>Door Thickness</b> - Over 1-3/4" (45mm)<br><br><b>Fastener Options</b> - TORX® Security Screws SNB (wood, composite, or unreinforced metal doors)<br><br><b>Specialty Cylinders &amp; Components</b><br><br><b>Lumi-lite:</b> LUM |

## Ordering Examples

### Exit Device Only

7150D-36 x 619 x RHR x SNB

### Exit Device with Trim and Cylinder\*

7170F90-9-48 x AU626F x 605 x LHR x 1109 GA 0-bit

### Trim Only

MO656F x 630 x RHR x LC

### Double Cylinder Exit Device with Trim

7150F-2-36 x AU626F x 630

\*Yale® exit devices and trims are processed separately. To aid in order processing, the device, trim and cylinder should be detailed as separate line items. These items can be ordered on one line item as shown, but they will be entered to the factory and acknowledged separately.

It is recommended that exit devices and trim for the same opening be ordered together. Standard product is for 1-3/4" (44mm) reinforced metal doors. Accessories detached from the device and trim should be specified separately. Materials by others are required to be fit for the purpose as detailed in this catalog and the product installation literature.

### Notes:

1. Required for electrical feature, Suffix "-SAFE" or "-SECURE".
2. LBR available on 7160(F90) and 7170(F90) devices only.
3. For double cylinder devices, suffix "-2" after fourth digit.
4. If "-24" device is to be used with a DOW greater than 24", the device will ship without UL label. The 12" touchpad will not cover 50% of the device touchbar length.
5. "WS" applies only to 7150(F), 7250M(F) and 7170(F) devices.
6. Maximum opening size 8'0" x 8'0".
7. Contact Ceco, Curries® or Fleming for detailed frame/door requirements and limitations.

# 7110(F) Surface Vertical Rod



The 7110(F) is a surface vertical rod exit device to be used on wide stile or flush doors up to 8' (fire) and 10' (panic) where two-point latching is desired.

## Features

- Designed for wide stile and flush doors
- Handed. Specify hand (field reversible)
- Bottom deadbolt for secure latching
- Fully adjustable roller strike

## Applications

- Pairs of doors
- Double egress
- Metal, wood or composite door materials



## Specifications

|                            |  |
|----------------------------|--|
| <b>Door Opening Width</b>  | -24 for 24" (60cm) doors<br>-36 for 30" - 36" (76cm - 91cm) doors<br>-48 for 36" - 48" (91cm - 122cm) doors<br>Optional sizes can be special ordered. Consult Technical Product Support.   |
| <b>Door Opening Height</b> | Standard door height 7' (213cm), with the device centerline at 39-15/16" (101cm) from floor. Optional heights up to 8' (fire) and 10' (panic) available by using rod extensions. For fire rated openings over 8', see 7170F SVR. |
| <b>Door Thickness</b>      | 1-3/4" (44mm) standard. Optional door thicknesses available to 4-1/2"; specify door thickness when ordering.   |
| <b>Minimum Stile Width</b> | 4-1/2" (114mm)   |
| <b>Projection</b>          | 3-1/4" (83mm) active, 2-3/4" (70mm) dogged   |
| <b>Latchbolt</b>           | Top: 3/4" (19mm) throw, pullman-type with automatic deadlatching<br>Bottom: 5/8" (16mm) throw deadbolt, held retracted during door swing   |
| <b>Vertical Rods</b>       | 1/2" O.D. tubular brass, bronze or stainless steel with rod guides   |
| <b>Strike</b>              | Top: Roller type 791. Bottom: Flush mounted 790. 794 floor strike optional (threshold openings).   |
| <b>Fasteners</b>           | Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.   |
| <b>Trims</b>               | 620F series escutcheon trim, 630F series pull/thumbpiece trim, 680F series offset pull trim, 540F series rose trim. See pages 22-24.   |
| <b>ANSI/BHMA</b>           | Certified A156.3 Type 2, Grade 1   |
| <b>UL/cUL</b>              | FVSR/FVSR7 - Panic hardware; GXHX/GXHX7 - Fire exit hardware (F) (8' x 8' pairs, 3 hr.)  |
| <b>Dogging</b>             | Hex key dogging supplied standard on panic devices   |
| <b>Options</b>             | Cylinder dogging, shim kit #724, sex nuts and bolts, rod extensions, bottom pullman latch (panic only)<br>MicroShield®, Lumi-lite  |
| <b>Warranty</b>            | 5-year limited   |





## Escutcheons

| 480F Series                 | 500F Series            | 510F Series            | 620F/650F Series       | 630F/660F/670F Series     | 680F Series            |
|-----------------------------|------------------------|------------------------|------------------------|---------------------------|------------------------|
|                             |                        |                        |                        |                           |                        |
| Projection: 2-13/32" (61mm) | Projection: see levers | Projection: see levers | Projection: see levers | Projection: 2-1/8" (54mm) | Projection: see levers |

## Roses

### 540F Series



Projection: 3-1/2" (89mm)

## Standard Trims

All Yale exit device trims (except mortise trim) feature the unique Free-Wheeling lever mechanism, similar to our 5400LN cylindrical lock. This Free-Wheeling trim features a clutch mechanism which allows the lever to float down 60 degrees when operated in the locked condition, improving vandal resistance.

|                            |                           |                            |
|----------------------------|---------------------------|----------------------------|
| <b>Arcadia AR</b>          | <b>Augusta AU</b>         | <b>Carmel CR</b>           |
|                            |                           |                            |
| Projection: 3-1/4" (82mm)  | Projection: 2-5/8" (61mm) | Projection: 3-1/8" (79mm)  |
| <b>Jefferson JN</b>        | <b>Monroe MO</b>          | <b>Pacific Beach PB</b>    |
|                            |                           |                            |
| Projection: 2-9/16" (65mm) | Projection: 3" (76mm)     | Projection: 3-5/16" (84mm) |
| <b>Pinehurst PN</b>        | <b>Virginia VI</b>        | <b>Hampton HA</b>          |
|                            |                           |                            |
| Projection: 3-1/16" (78mm) | Projection: 3-1/8" (79mm) | Projection: 3-3/8" (86mm)  |

Note: Projection dimensions are provided using the 620F series escutcheon plates.

# 7100 Series Trims



## 620F and 650F Series Escutcheon Trim



- Certified ANSI/BHMA A156.3, Grade 1.
- Trim thrubolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon and Free-Wheeling trim resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Dimensions: 3" x 10-1/4" x 13/16" (76mm x 260mm x 19mm).
- Cylinders not included. See page 45-48 for cylinder options. 1-1/2" mortise cylinder required for mortise trim.
- Available with AR, AU, CR, JN, MO, PB, PN, VI and HA lever designs. See page 22.
  - Finishes: 605, 606, 611, 612, 613E, 619, 626, 629, 630, 693, BSP
- Available with Reflections® lever designs. See page 21.
  - Finishes: 605, 606, 611, 612, 613E, 619, 626, 629, 630, BSP
- Trim ordering example: AU626F x 626 x RHR.
- 5-year limited warranty.



| Application  | Cylinder         | Classroom/<br>Storeroom<br>Cylinder<br>Controls<br>Thumbturn | Exit Only<br>Blank<br>Plate | Nightlatch<br>Access<br>by Key | Classroom<br>Cylinder<br>Controls<br>Lever | Storeroom<br>Cylinder<br>Controls<br>Lever | Nightlatch<br>Cylinder<br>by Lever | Passage | Dummy<br>Trim<br>Free-<br>Wheeling | Dummy<br>Rigid<br>Lever |
|--|------------------|--|-----------------------------|--------------------------------|--|--|------------------------------------|---------|------------------------------------|-------------------------|
| 7100(F)<br>7150(F)<br>7110(F)<br>7120(F)<br>7160(F)<br>7170(F) | Rim              | 603F <sup>1</sup>  | 620F                        | 621F <sup>2</sup>              | 626F                                       | 626F <sup>1</sup>                          | 627F <sup>2</sup>                  | 628F    | 628F <sup>1</sup>                  | 629F                    |
| 7130(F)  | Mortise          | —  | 620F                        | 651F                           | 656F                                       | —  | 656F                               | 658F    | —                                  | 658F                    |
| 7100(F)-2<br>7150(F)-2   | Rim x Rim        | —  | —                           | —                              | 626F                                       | —  | —                                  | —       | —                                  | —                       |
| 7130(F)-2  | Mortise x<br>Rim | —  | —                           | —                              | 656F                                       | —  | —                                  | —       | —                                  | —                       |
| ANSI   |                  | 11/12  | 01                          | 03                             | 08   | 09   | 03                                 | 14      | 02                                 | 02                      |

1. 09, 12 and Free Wheeling 02 achieved with single trim modification at installation.  
 2. Not recommended for use with vertical rod devices.  
 3. 08 only  
 For 626, 629 & 630 finishes the escutcheon is plated to simulate stainless steel.  
 For 629 & 630 finishes the standard levers are plated to simulate stainless steel.  
 Free-Wheeling is not available on mortise trim.  
 For 620F series trim, optional door thickness available up to 4-1/2", specify on order.



# Functions

## Lever Trims

| SquareBolt®<br>7150(F)<br>7250<br>7250M(F)<br>Inside Outside |  | Rim<br>7100(F)<br>7200<br>7200M(F)<br>Inside Outside |  | Surface Vertical Rod<br>7110(F)<br>7170(F)<br>7210<br>7210M(F)<br>Inside Outside |  | Concealed Vertical Rod<br>7120(F)<br>7160(F)<br>7220<br>7220M(F)<br>Inside Outside |  | Mortise<br>7130(F) | Type                      | ANSI Function No. | Function Description   |
|--|--|--|--|--|--|--|--|--------------------|---------------------------|-------------------|--|
|  |  |  |  |  |  |  |  |                    | Exit Only/<br>Blank Plate | 01<br>-           | Exit only, no trim.<br>Exit only, blank plate.   |
|  |  |  |  |  |  |  |  |                    | Dummy                     | 02                | Entrance by trim when<br>actuating bar is locked<br>down.  |
|  |  |  |  |  |  |  |  |                    | Nightlatch                | 03                | Entrance by trim when<br>latchbolt is retracted by<br>key. Key removable only<br>when locked.    |
|  |  |  |  |  |  |  |  |                    | Classroom                 | 08                | Entrance by lever. Key<br>locks or unlocks lever.  |
|  |  |  |  |  |  |  |  |                    | Storeroom                 | 09                | Entrance by lever only<br>when released by key.<br>Key removable only when<br>locked.            |
|  |  |  |  |  |  |  |  |                    | Passage                   | 14                | Entrance by trim when<br>latchbolt is released by<br>lever. Lever always active,<br>no cylinder. |

Note: 09 and Free-Wheeling 02 achieved with a single modification at installation.

## Double Cylinder Exit Device Lever Trims

| SquareBolt®<br>7150(F)-2<br>Inside Outside |  | Rim<br>7100(F)-2<br>Inside Outside |  | Mortise<br>7130(F)-2<br>Inside Outside |  | Type      | ANSI Function No. | Function Description  |
|--|--|------------------------------------|--|--|--|-----------|-------------------|---|
|  |  |                                    |  |  |  | Classroom | 08                | Entrance by lever. Key either side<br>locks or unlocks lever. |

# Functions



| SquareBolt®<br>7150(F)<br>7250<br>7250M(F)<br>Inside Outside | Rim<br>7100(F)<br>7200<br>7200M(F)<br>Inside Outside | Surface Vertical<br>Rod<br>7110(F)<br>7170(F)<br>7210<br>7210M(F)<br>Inside Outside | Concealed<br>Vertical Rod<br>7120(F)<br>7160(F)<br>7220<br>7220M(F)<br>Inside Outside | Mortise<br>7130(F) | Type                      | ANSI<br>Function<br>No. | Function Description   |
|--|--|---|---|--------------------|---------------------------|-------------------------|--|
|  |  |   |   |                    | Exit Only/<br>Blank Plate | 01<br>-                 | Exit only, no trim.<br>Exit only, blank plate.   |
|  |  |   |   |                    | Dummy/<br>Pull Plate      | 02                      | Entrance by trim when<br>actuating bar is locked<br>down.  |
|  |  |   |   |                    | Nightlatch                | 03                      | Entrance by trim when<br>latchbolt is retracted by key.<br>Key removable only when<br>locked.              |
|  |  |   |   |                    | Classroom                 | 05                      | Entrance by thumbpiece.<br>Key locks or unlocks<br>thumbpiece.   |
|  |  |   |   |                    | Storeroom                 | 06                      | Entrance by thumbpiece<br>only when released by key.<br>Key removable only when<br>locked.                 |
|  |  |   |   |                    | Passage                   | 15                      | Entrance by trim when latch<br>is released by thumbpiece.<br>Thumbpiece is always active,<br>no cylinder.  |
|  |  |   |   |                    | Classroom                 | 11                      | Entrance by control turn<br>piece. Key locks or unlocks<br>control.  |
|  |  |   |   |                    | Storeroom                 | 12                      | Entrance by control turn<br>piece only when released by<br>turning key. Key removable<br>only when locked. |



## 7100 Series

The 7100 is the perfect choice for wide stile panic and fire-rated applications. The smooth architectural lines provide pleasing aesthetics to accent a building's appearance, and looks aren't always deceiving. Beneath the strong exterior lie the components to meet the demanding security and access control needs of today. The delayed egress option is just one of the many electromechanical options offered to enhance security. Complementing the 7100 series with the 600F series heavy-duty trim completes the package for a heavy-duty, security hardware package.

## Applications

| Single Door                   | UL Listing | Maximum Opening | Application  |   |  |
|-------------------------------|------------|-----------------|--|---|--|
| <b>SquareBolt®</b>            |            |                 |  |   |  |
| 7150/7150-2                   | Panic      | 4' x *          | Surface applied; single-point latching.  |   |  |
| 7150F/7150F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| 7150WS                        | Panic      | 4' x 8'         | Surface applied; single-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |   |  |
| 7150FWS                       | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Rim</b>                    |            |                 |  |   |  |
| 7100/7100-2                   | Panic      | 4' x *          | Surface applied; single-point latching.  |   |  |
| 7100F/7100F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Mortise</b>                |            |                 |  |   |  |
| 7130/7130-2                   | Panic      | 4' x *          | Mortised in door; single-point latching.   |   |  |
| 7130F/7130F-2                 | 1-1/2 Hr.  | 4' x 9'         |  |   |  |
| 7130F/7130F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Surface Vertical Rod</b>   |            |                 |  |   |  |
| 7110                          | Panic      | 4' x 8'         | Surface applied; two-point latching.   |   |  |
| 7170                          | Panic      | 4' x 10'        |  |   |  |
| 7170 x LBR                    | Panic      | 4' x 10'        | Surface applied; one-point latching.   |   |  |
| 7170WS                        | Panic      | 4' x 8'         | Surface applied; two-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes).    |   |  |
| <b>Concealed Vertical Rod</b> |            |                 |  |   |  |
| 7120                          | Panic      | 4' x 8'         | Rods concealed in door; two-point latching.  |   |  |
| 7160                          | Panic      | 4' x 10'        |  |   |  |
| 7160 x LBR                    | Panic      | 4' x 10'        |  | Rods concealed in door; one-point latching. |  |

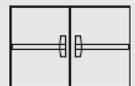
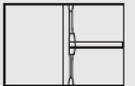
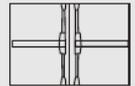
\*UL does not set a door height limitation on panic applications.

| Pair of Doors with Removable Mullion | UL Listing | Maximum Opening | Application   |  |
|--------------------------------------|------------|-----------------|---|--|
| <b>SquareBolt® x SquareBolt®</b>     |            |                 |   |  |
| 7150 x 7150 x M200 Series            | Panic      | 8' x 10'        | Two independent active doors with removable mullion.  |  |
| 7150F x 7150F x M200F Series         | 3 Hr.      | 8' x 8'         |   |  |
| 7150WS x 7150WS x M200FWS            | Panic      | 8' x 8'         | Two independent active doors with removable mullion. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |  |
| 7150FWS x 7150FWS x M200FWS          | 3 Hr.      | 8' x 8'         |   |  |
| <b>Rim x Rim</b>                     |            |                 |   |  |
| 7100 x 7100 x M200 Series            | Panic      | 8' x 10'        | Two independent active doors with removable mullion.  |  |
| 7100F x 7100F x M200F Series         | 3 Hr.      | 8' x 8'         |   |  |

# Applications



| Pair of Doors                                 | UL Listing | Maximum Opening | Application  |
|---|------------|-----------------|--|
| <b>Surface Vertical Rod</b>                   |            |                 |  |
| 7110 x 7110                                   | Panic      | 8' x 8'         | Two independent doors with two-point latching, swinging in the same direction.   |
| 7110F x 7110F                                 | 3 Hr.      | 8' x 8'         |  |
| 7170 x 7170                                   | Panic      | 8' x 10'        | Two independent doors with one- or two-point latching, swinging in the same direction.   |
| 7170F90 x 7170F90                             | 1-1/2 Hr.  | 8' x 10'        |  |
| 7170F x 7170F                                 | 3 Hr.      | 8' x 8'         | Two independent doors with two-point latching, swinging in opposite directions. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |
| 7170WS x 7170WS                               | Panic      | 8' x 8'         |  |
| 7170FWS x 7170FWS                             | 1-1/2 Hr.  | 8' x 8'         |  |
| <b>Surface Vertical Rod (Double Egress)</b>   |            |                 |  |
| 7110 x 7110                                   | Panic      | 8' x 8'         | Two independent doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.                                     |
| 7110F x 7110F                                 | 3 Hr.      | 8' x 8'         |  |
| 7170 x 7170                                   | Panic      | 8' x 10'        | Two independent doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.   |
| 7170F90 x 7170F90                             | 1-1/2 Hr.  | 8' x 10'        |  |
| 7170F x 7170F                                 | 3 Hr.      | 8' x 8'         |  |
| <b>Surface Vertical Rod x Mortise</b>         |            |                 |  |
| 7110 x 7130                                   | Panic      | 8' x 8'         | Overlapping astragal required for 3-hour openings. Coordinator required with standard ANSI strike.   |
| 7110F x 7130F                                 | 3 Hr.      | 8' x 8'         |  |
| 7110F x 7130F x Open Back Strike              | 1-1/2 Hr.  | 8' x 8'         | Overlapping astragal required for fire-rated openings. Coordinator required with standard ANSI strike.   |
| 7170 x 7130                                   | Panic      | 8' x 10'        |  |
| 7170F90 x 7130F                               | 1-1/2 Hr.  | 8' x 9'         |  |
| <b>Concealed Vertical Rod</b>                 |            |                 |  |
| 7120 x 7120                                   | Panic      | 8' x 8'         | Two independent metal doors with two-point latching, swinging in the same direction.   |
| 7120F x 7120F                                 | 3 Hr.      | 8' x 8'         |  |
| 7160 x 7160                                   | Panic      | 8' x 10'        | Two independent metal or wood doors with one- or two-point latching, swinging in the same direction.   |
| 7160F90 x 7160F90                             | 1-1/2 Hr.  | 8' x 10'        |  |
| 7160F x 7160F                                 | 3 Hr.      | 8' x 8'         |  |
| <b>Concealed Vertical Rod (Double Egress)</b> |            |                 |  |
| 7120 x 7120                                   | Panic      | 8' x 8'         | Two independent metal doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.                               |
| 7120F x 7120F                                 | 3 Hr.      | 8' x 8'         |  |
| 7160 x 7160                                   | Panic      | 8' x 10'        | Two independent metal or wood doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.                               |
| 7160F90 x 7160F90                             | 1-1/2 Hr.  | 8' x 10'        |  |
| 7160F x 7160F                                 | 3 Hr.      | 8' x 8'         |  |



# Sample Specifications



## Specification

Exit devices shall be 7000 Series Pushpad Exit Devices as manufactured by Yale Locks & Hardware.

The exit device chassis shall be cold forged steel, electroplated for corrosion resistance, and shall be architecturally finished brass, bronze or stainless steel. The pushpad mechanism shall be constructed of extruded aluminum and shall be scalped with architecturally finished brass, bronze or stainless steel. The maximum projection shall be 3-1/4" when the pushpad is active and 2-3/4" when the pushpad is dogged down. Nylon bearings and stainless steel springs shall be used for long life and durability; only torsion springs are acceptable. Rear and active case covers shall be wrought brass or bronze and shall be plated to match the exit bar. Plastic or painted covers are not acceptable. Latchbolts shall be steel and shall incorporate a deadlocking latch for increased security. Devices without deadlocking latches are not acceptable. Mounting screws shall be concealed to deter tampering. Devices shall be closed on all sides with no pinch points. Exit devices shall be easily field sized to accommodate various door widths.

Panic-listed exit devices shall have single point, one quarter turn hex key dogging standard. Optional cylinder dogging shall be available on panic listed devices. Devices with hex key dogging shall be easily field converted to cylinder dogging. Panic listed devices shall be available less dogging.

Trims shall be throughbolted with concealed fasteners. Escutcheon and pull-type trims shall be constructed of brass or bronze. All lever trims shall use cast or forged levers. On rim, SquareBolt® and vertical rod trims with cylinders, the mechanism that locks and unlocks the trim shall be housed in the trim and not in the active case of the exit device. Lever trims (except mortise) shall be Free-Wheeling with clutch mechanism allowing lever to rotate 60° when locked for ideal protection. Lever trims shall match those on Yale® mortise and cylindrical locksets.

Exit devices and trims shall be furnished in ANSI/BHMA standard architectural finishes.

Exit devices shall be listed by Underwriters Laboratories (UL) for safety as panic hardware. Fire-rated devices shall be listed for A label and lesser class doors.

Certification:  
ANSI/BHMA A156.3, Grade 1

Devices, trims and cylinders shall be from one manufacturer.

Devices and 600 Series trim shall carry a five-year limited warranty.

500 Series trim shall carry a one-year limited warranty.

Electronic components shall carry a two-year limited warranty.

## Delayed Egress Specification

Delayed egress exit devices shall be 7100/7200 Series (rim, SquareBolt®, mortise or concealed vertical rod) with the "D" suffix, manufactured by Yale Locks & Hardware.

The delayed egress device secures the door in the locked mode. Depressing the pushpad for less than three seconds will sound the device siren without initiating the alarm. Depressing the pushpad longer than three seconds will initiate an irreversible local audible beeping tone and allow the device to release for egress after 15 seconds. The alarm will continue until reset by the mechanical key switch located on the device. (When acceptable by local code agency, the delay period may be increased to 30 seconds, or other approved amount of time. Consult factory.)

Devices shall be 24 volts DC.

The exit device chassis shall be cold forged steel, electroplated for corrosion resistance, and shall be architecturally finished brass, bronze or stainless steel. The pushpad mechanism shall be constructed of extruded aluminum and shall be scalped with architecturally finished brass, bronze or stainless steel. The maximum projection shall be 3-1/4" when the pushpad is active and 2-3/4" when the pushpad is depressed. Nylon bearings and steel springs shall be used for long life and durability. Active case and alarm end cover shall be wrought brass, bronze or stainless steel and shall be plated to match the exit bar. Painted or plastic covers or end caps are not acceptable. Latchbolts shall be steel and shall incorporate a deadlocking latch for increased security. Devices without deadlocking latches are not acceptable. Mounting screws shall be concealed to deter tampering. Devices shall be closed on all sides with no pinch points. Device active cover and end cap attaching screws shall be security TORX®. When required, door position switches used on rim or SquareBolt devices shall be incorporated into the latch assembly of the device to allow added security.

Trims shall be thru-bolted with concealed fasteners. Escutcheon and pull-type trims shall be constructed of brass, bronze or stainless steel. All lever trims shall use cast or forged levers. On rim, SquareBolt and vertical rod trims with cylinders, the mechanism that locks and unlocks the trim shall be housed in the trim and not in the active head of the exit device. Lever trims shall match those on Yale mortise and cylindrical locksets. Lever trims (except mortise) must have a clutch or Free-Wheeling spring assembly when in the locked mode for ideal protection and reduced damage to the trim. Rigid lever trims are not acceptable.

Exit devices, trims and cylinders must be from one manufacturer.

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Manufacturer: Cal-Royal Door Hardware  
Style/Series: PAS30L

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### Sales Rep

#### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

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### Attributes

Item Type: PAS30L

#### DIMENSIONS

Length: 4-3/4"

Diameter: 3-1/2"

#### MATERIAL / FINISH

Finish: US26D Satin Chrome

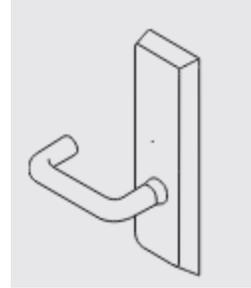
#### PERFORMANCE

Best Practices: Trim always operable and free. ANSI Function - 14

Grade: Non-handed Grade 1

#### MISCELLANEOUS

Lead Time: TBD



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Interior Vestibule Entry (Automatic Sliding Doors) (Door #11,12)

**DOOR  
HARDWARE**

## 3 NESTED ITEMS

| Code/Tag   | Product Name                           | Quantity |
|------------|--|----------|
| DH-054-AI  | Lef 3I                                 | 0.0      |
| DH-060-SA  | Saflok Quantum RFID Reader - RCU US26D | 0.0      |
| DH-089-DCI | DCI PS17                               | 0.0      |

## Analog 3-Channel Master Station with ...

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Manufacturer: Airphone  
Style/Series: Lef 3l

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

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Analog 3-Channel Master Station with Selective Door Release

Item Type: LEF-3L

### DIMENSIONS

Width: 5-5/8"  
Height: 7-1/16"  
Depth: 2-1/8"

### MATERIAL / FINISH

Finish: n/a

### PERFORMANCE

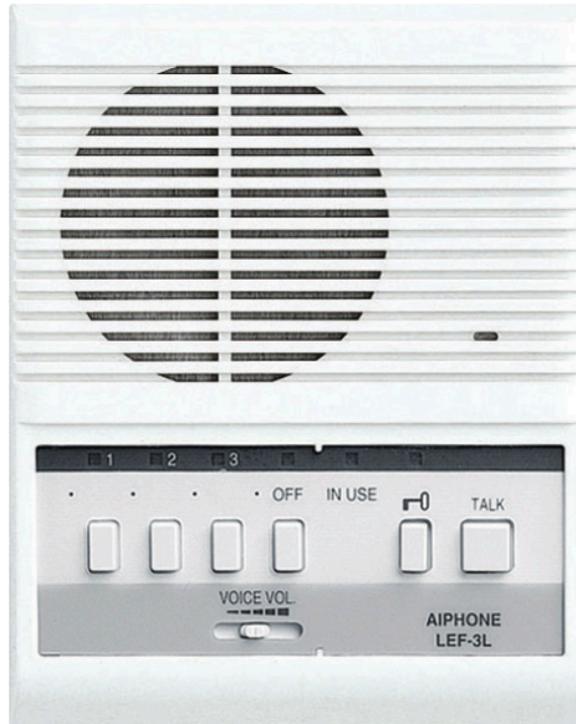
Accessibility Compliance : Hands-free communication at responding station LED and tone to announce incoming calls

Operation: Press-to-talk, release-to-listen at master station. Hands-free at responding station.

### MISCELLANEOUS

Lead Time: TBD





## DESCRIPTION

The LEF-3L is a selective calling open voice style master station with selective door release capability. The LEF-3L has a maximum capacity of four stations, including itself. The system can be designed to meet a wide variety of needs, including any combination of master and sub stations up to its maximum capacity.

Incoming calls from a sub or door station are annunciated with a momentary electronic mono-tone and an LED, remaining lit for approximately 20 seconds. Communication at the calling master is press-to-talk, release-to-listen. The person at the receiving station speaks hands-free. The person at the master station can selectively call and talk with a person at any other sub or master station in the system.

An RY-PA relay is required for each external device. External devices can be door release mechanisms, or any other device that can be activated with a relay. The RY-PA has a "normally open" output, but can be modified to "normally closed".

Master stations can be wall or desk mounted. Sub stations are available in surface or flush mount styles. Outdoor stations are available in surface or flush mount styles.

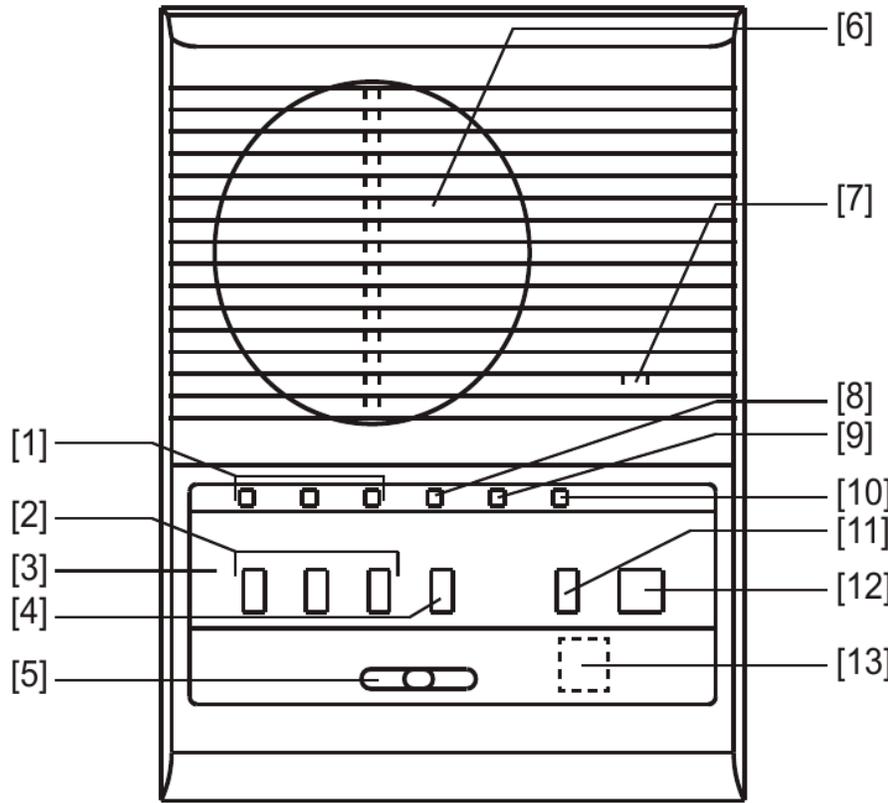
## FEATURES

- Up to 4 stations
- Flexible system, mix any 4 master and submaster stations
- LED and tone to announce incoming calls
- Push-to-talk to calling master station
- Hands-free communication at responding station
- Large variety of sub stations, surface, or flush mount
- Selective monitoring
- Selective door release
- Voice and call tone volume controls

# LEF-3L

## Analog 3-Channel Master Station with Selective Door Release

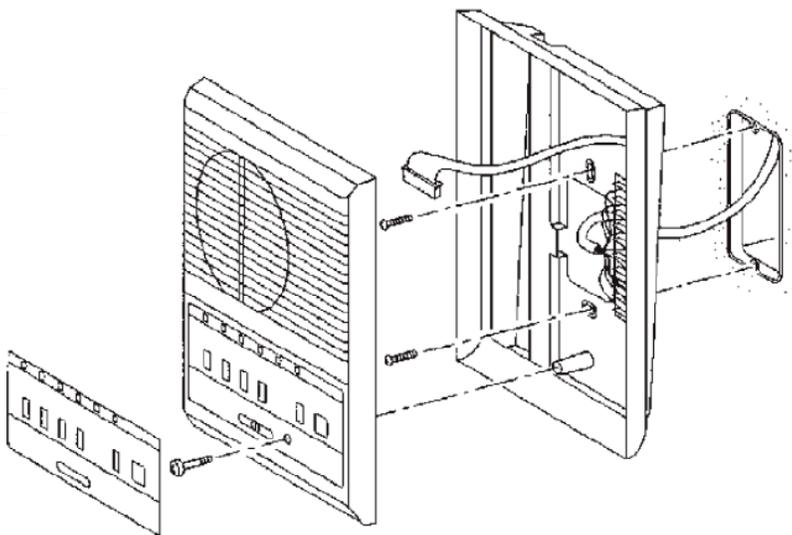
### FEATURE CALL-OUT



### FEATURE LEGEND

- [1] Sub call-in LED (channels 1-3)
- [2] Station selector button (channels 1-3)
- [3] Directory card
- [4] Off button
- [5] Voice volume control
- [6] Speaker
- [7] Microphone
- [8] Station selected LED
- [9] In-use LED
- [10] Door Release LED
- [11] Door Release button
- [12] Talk button
- [13] Call tone volume control (hidden)

### MOUNTING & INSTALLATION



**TECHNICAL SPECIFICATIONS**

|                                   |   |
|-----------------------------------|---|
| <b>Power Source:</b>              | 12V DC, 300mA per station. Use PS-1208UL, or PS-1225UL for systems with BG-10C.   |
| <b>Output:</b>                    | 800mW @ 20 $\Omega$ (reception)<br>500mW @ 20 $\Omega$ (transmission)   |
| <b>Communication:</b>             | Press-to-talk, release-to-listen at master station. Hands-free at responding station.   |
| <b>Talk Channel:</b>              | 1 talkpath. Occupied LED when in use.   |
| <b>Wiring:</b>                    | 5 common wires (E, R, Y, +, -), plus 1 individual wire per station, looped.<br>Sub stations: 2 wires homerun in single master systems, or 2 common wires (E, -), plus 1 individual wire per station, looped or homerun. |
| <b>Relay Contact:</b>             | RY-PA, normally open or normally closed output, 1A, up to 110V AC or 24V DC.  |
| <b>Capacity:</b>                  | Up to 4 stations, intermixable  |
| <b>Wiring Distance:</b>           | 650' w/22AWG; 1600' w/18AWG   |
| <b>Speaker Sensitivity:</b>       | 40dB  |
| <b>Total Harmonic Distortion:</b> | Less than 5% at rated output power  |
| <b>Signal to Noise Ratio</b>      | 60dB  |
| <b>Frequency Response:</b>        | -3dB, 770-6800Hz  |
| <b>Operation Temp:</b>            | 32°~104°F (0°~40°C)   |
| <b>Dimensions:</b>                | 7-1/16" H x 5-5/8" W x 2-1/8" D   |

**COMPATIBLE COMPONENTS**

- LEF Series Master Stations
- LE- or LS- Series Sub/Door Stations
- BG-10C All Call/Chime Adaptor
- PS-1208UL Power Supply, PS-1225UL with BG-10C
- RY-PA Door Release Relay
- BA-1 Paging Adaptor
- RY-AC/A External Signaling Relay

## Stand-alone remote RFID reader to con...

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Manufacturer: dormakaba

Style/Series: Saflok Quantum RFID Reader - RCU US26D

### Attributes

---

Stand-alone remote RFID reader to control electronic access control devices in perimeter areas, common areas, and restricted areas.

Item Type: RFID reader - remote

#### DIMENSIONS

Width: 4.56"

Height: 4.5"

Depth: 0.75"

#### MATERIAL / FINISH

Finish: US26D

Material Composition: Steel

#### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1

Classification: 22-08 71 00 - Door Hardware

Operation: Electronic 12V DC

#### MISCELLANEOUS

Warranty: Lifetime



### Notes

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<https://tinyurl.com/4bj6uupa>

### The DCI PS17 is a power limited power...

---

Manufacturer: Door Controls International  
Style/Series: DCI PS17

### Sales Rep

---

#### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

### Attributes

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The DCI PS17 is a power limited power supply that will convert 115VAC/60Hz input into two individually PTC protected 12VDC or 24VDC outputs (refer to specifications)

Item Type: DCI PS17

#### DIMENSIONS

Width: 7.5"  
Height: 8.5"  
Depth: 3.5"

#### MATERIAL / FINISH

Finish: n/a

#### PERFORMANCE

Best Practices: UL Listing for Access Controls (UL294) and applications requiring an interface with Fire Alarm Control Panels  
Voltage: 1.75A continuous supply current @ 12VDC or 24VDC  
Installation/Maintenance : See cut sheet

IMAGE NOT  
AVAILABLE



# Door Controls International

## PS17

### Power Supply Installation Instructions

#### Overview:

The DCI PS17 is a power limited power supply that will convert 115VAC/60Hz input into two individually PTC protected 12VDC or 24VDC outputs (*refer to specifications*).

It is intended for use in applications requiring UL Listing for Access Controls (UL294) and applications requiring an interface with Fire Alarm Control Panels.

It must be installed in accordance with National and Local Electrical Codes and Regulations.

#### Specifications:

- UL Listed for Access Control System Units (UL 294).
- Switch selectable 12VDC or 24VDC power limited output
- Input 115VAC/60Hz, .6 amp.
- 1.75A continuous supply current @ 12VDC or 24VDC
- Filtered and electronically regulated output
- Aux relay output (Form "C", 1 amp @ 28VDC)
- AC Fail output relay (Form "C", 1 amp @ 28 VDC)

Enclosure dimensions: 8.5"H x 7.5"W x 3.5"D



#### Power Supply Output Specifications:

| Output VDC | Switch Position | Max. Load DC |
|------------|-----------------|--------------|
| 12VDC      | SW1 Open        | 1.75 amp     |
| 24VDC      | SW1 Closed      | 1.75 amp     |

#### Installation Instructions:

The PS17 should be installed in accordance with the National Electrical Code and all applicable Local Regulations.

**See Terminal Identification Chart on Page 2 for a description of each terminal function.**

1. Mount the PS17 in desired location.
2. Connect 115VAC to the black and white flying leads of the transformer. Secure green wire lead to earth ground.  
Use 18 AWG for all power connections (relay DC outputs). Use 22, 20, or 18 AWG for power limited circuits (trigger inputs, dry outputs).  
Keep power limited wiring separate from non-power limited wiring (115VAC from all DC Outputs & trigger). Minimum .25" spacing must be provided.
3. Open SW1 for 12VDC output - Close SW1 for 24VDC.
4. Measure output voltage before connecting. This helps avoid potential damage.
5. Jumper TRG1 and TRG2 unless continuity is provided through a fire alarm circuit as shown on page 3.
6. Connect appropriate signaling notification devices to AC Fail supervisory outputs marked NC, C, NO.
7. For Access Control Device & Fire Alarm Interface connections refer to desired Applications Diagrams (page 3) and Terminal Identification Chart (page 2).

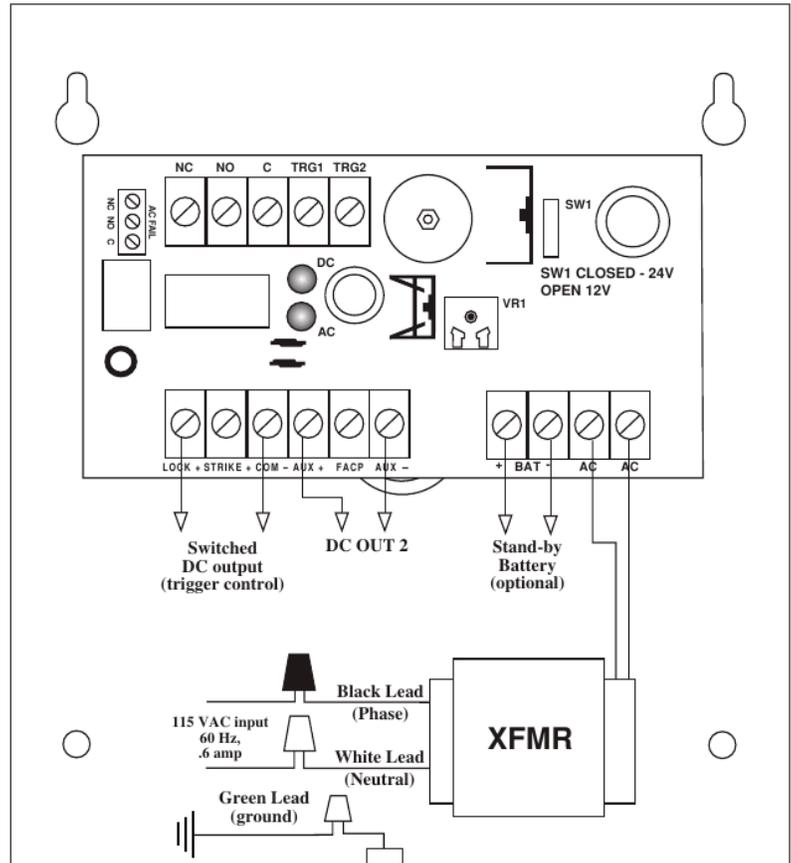
**LED Diagnostics:**

|          |            |                     |
|----------|------------|---------------------|
| RED (DC) | GREEN (AC) | POWER SUPPLY STATUS |
| ON       | ON         | Normal Function     |
| OFF      | ON         | No DC Output        |
| OFF      | OFF        | System Off          |

**Maintenance:**

Unit should be tested at least once a year for the proper operation as follows:

Output Voltage Test: Under normal load conditions, the DC output voltage should be checked for proper voltage Level (refer to Power Supply Output Specifications Chart).



**Terminal Identification:**

| Terminal Legend | Function / Description  |
|-----------------|---|
| TRG1 & TRG2     | These input terminals are designed to connect to the closed “C” and “NO” terminals of an access control or fire alarm relay. These must be jumpered otherwise. These terminals control LOCK+, and STRIKE+, as well as PS17 output relay contacts “NC”, “NO”, “C”. |
| LOCK+           | This terminal provides DC output voltage when TRG1 TRG2 are shorted together and are typically used to power electromagnetic locks. Two locks may be connected in parallel on LOCK+ and “COM-”  |
| STRIKE+         | This terminal provides DC output voltage when TRG1 and TRG2 are unshorted and are typically used to power Electric Strikes.   |
| NC, NO, C       | Isolated dry Form “C” contracts. Shortening TRG1 and TRG2 together causes these contacts to switch. They are typically used for controlling multiple power supplies with fire alarm tie-in (refer to Fig. 4 and Fig. 5, page 3).                                  |
| AUX+            | Continuous positive (+)DC power output voltage. It is not affected by TRG1, TRG2 operation.   |
| COM-            | Common negative (-) output (ground).  |
| FACP            | Spare wiring terminal used for fire alarm tie-in application (refer to Fig. 3, page 3)  |
| BAT+/BAT-       | Stand-by battery connections.   |

## Application Diagrams:

Fig. 1 - Typical single mag lock or door strike installation with fire alarm tie-in using trigger controlled output:

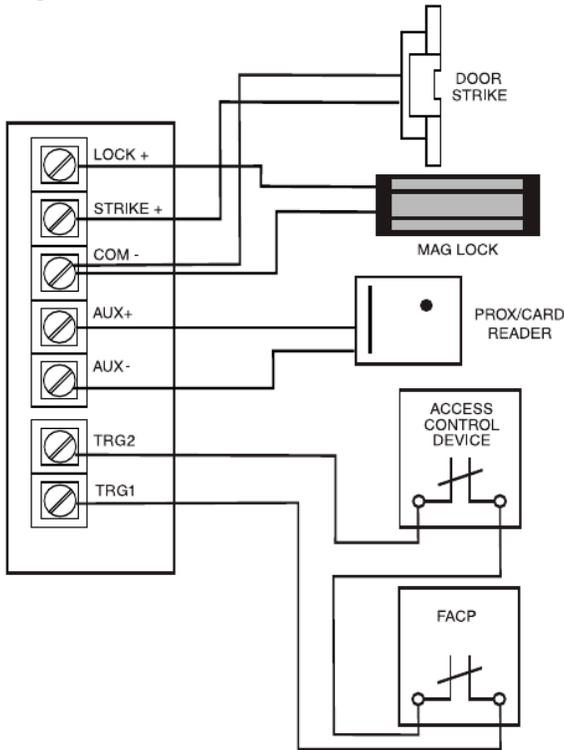


Fig. 2 - Typical dual mag lock installation with fire alarm tie-in using trigger controlled outputs:

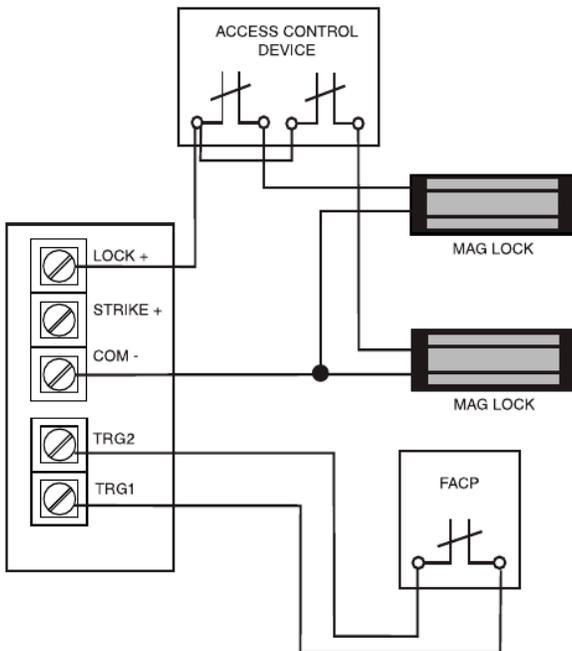


Fig. 3 - Typical mag lock with fire alarm tie-in using aux output installation:

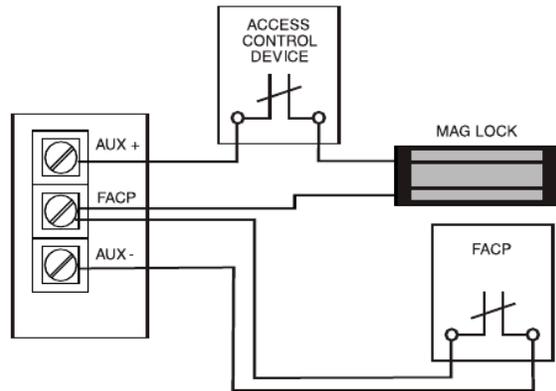


Fig. 4 - Latching fire alarm tie-in with manual reset:

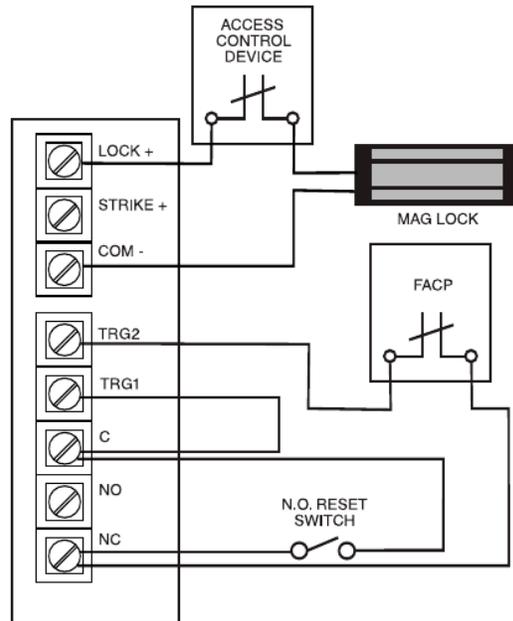
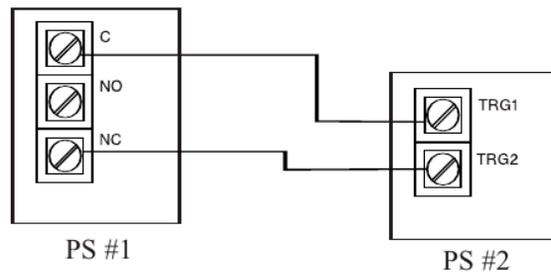


Fig. 5 - Multiple PS17 power supply connections:



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: AHU/ Check In/ Employee Break/ Mechanical/  
Housekeeping (Door#21,23,24,31,34,35,36)

**DOOR  
HARDWARE**

## 7 NESTED ITEMS

| Code/Tag   | Product Name                                | Quantity |
|------------|---|----------|
| DH-001-MK  | MPB79 Hinge                                 | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge           | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop               | 0.0      |
| DH-032-PK  | S88_ Adhesive Gaskets                       | 0.0      |
| DH-034-CLR | N900PBF Door Closer                         | 0.0      |
| DH-034-YA  | 2700 Series Door Closer                     | 0.0      |
| DH-050-SA  | Saflok Quantum RFID x BLE Continental; US15 | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA  
156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

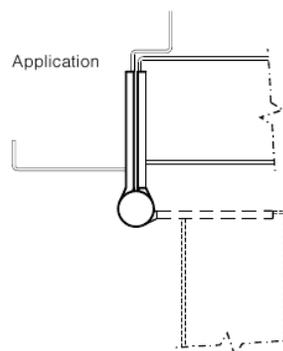
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



### MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

#### Options:

| Code        | Description       |
|-------------|-------------------|
| <b>NRP*</b> | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



800-346-7707 | www.mckinneyhinge.com  
Check the web site for the up-to-date catalog

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**McKinney**  
**ASSA ABLOY**

Experience a safer  
and more open world

## Cal-Royal BB31 4.5" x 4.5" Ball Beari...

---

Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

## Sales Rep

---

### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

### DIMENSIONS

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

### MATERIAL / FINISH

Finish: US652 Stain Chrome

Material Composition: 1040 steel

### PERFORMANCE

Quality Standards: ANSI/BHMA A156.1

### HINGE

Knuckle: 5

## Notes

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<https://tinyurl.com/yzchz3hj>



## Wrought Concave Wall Stop

---

Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

---

### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle  
Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

**Adhesive Gasket/ Hospitality Products**

Manufacturer: Assa Abloy - Pemko  
Style/Series: S88\_ Adhesive Gaskets

**Sales Rep****Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

Adhesive Gasket/ Hospitality Products

Item Type: S88\_

**DIMENSIONS**

Width: 1/2"  
Length: TBD  
Height: 1/4"  
Weight: .08 lbs per foot

**MATERIAL / FINISH**

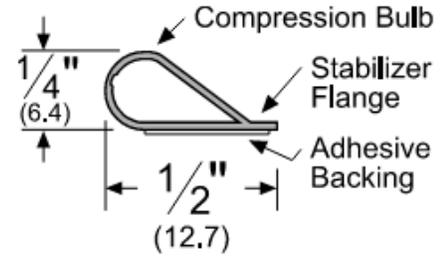
Color: Black

**PERFORMANCE**

Best Practices: ANSI R0E154, R0E155 Tested to ASTM E-283-04 (2012)  
Fire/Smoke Rating: Tested to UL 1784 and meets the requirements of NFPA 105-201  
Quality Standards: GreenGuard GOLD Certification  
Acoustical Performance: Tested to ASTM E90 - 2009

**MISCELLANEOUS**

Lead Time: 4 working days (or less)  
Warranty: 2 years if installed within 6 months  
Notes / Special Instructions: S88\_ is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations



---

Manufacturer: CAL-ROYAL  
Style/Series: N900PBF Door Closer

---

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

---

## Attributes

Item Type: N900PBF Door Closer

### DIMENSIONS

Length: 11 3/4"

Height: 2"

Depth: 2 7/8"

### MATERIAL / FINISH

Finish: US26D Satin Chrome

Material Composition: Cast Aluminum Body

### PERFORMANCE

Accessibility Compliance : Meets ADA requirements - A117.1

Accessibility Code

Best Practices: ANSI 156.4 Grade 1

Fire/Smoke Rating: UL Listed

### MISCELLANEOUS

Warranty: Limited Lifetime Warranty

### CUSTOM FIELDS

#### SURFACE CLOSER

Cover Material : Full plastic cover standard

Mounting Type: Parallel Arm (Push Side), Regular (Pull Side), Top

Jamb (Push Side)

Opening Degree : up to 180 degrees



## 4400 Series Door Closer

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 2700 Series Door Closer

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

4400 Series Door Closer

### DIMENSIONS

Door Thickness: 1 3/4"

### MATERIAL / FINISH

Finish: 689

Material Composition: Cast aluminum body

### PERFORMANCE

Best Practices: ANSI/BHMA A156.4, Grade 1

Accessibility Compliance : comply with requirements for the Americans with Disabilities Act ANSI/BHMA A117.1

Fire/Smoke Rating: UL / cUL listed for use on fire rated doors

Operation: Rack and pinion design

### MISCELLANEOUS

Warranty: 30-year limited warranty

### CUSTOM FIELDS

### SURFACE CLOSER

Cover Material : Molded plastic cover

Opening Degree : All standard arm applications allow doors to swing 180°, conditions permitting



### Electronic mortise lockset with 1" (2...

---

Manufacturer: by Saflok/dormakaba

Style/Series: Saflok Quantum RFID x BLE Continental; US15

### Notes

---

Case hardened full 1 inch (ANSI) Throw. Deadbolt with panic release function - deadbolt and latch are automatically retracted by inside handle for easy egress in case of emergency



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Public Restroom (Door #18)

**DOOR  
HARDWARE**

## 10 NESTED ITEMS

| Code/Tag   | Product Name                              | Quantity |
|------------|---|----------|
| DH-001-MK  | MPB79 Hinge                               | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge         | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop             | 0.0      |
| DH-010-CLR | Challenger SG Series Privacy Set          | 0.0      |
| DH-010-YA  | 4602In Au Privacy Lever Set               | 0.0      |
| DH-032-PK  | S88_ Adhesive Gaskets                     | 0.0      |
| DH-034-CLR | N900PBF Door Closer                       | 0.0      |
| DH-034-YA  | 2700 Series Door Closer                   | 0.0      |
| DH-037-CLR | IND90-G2 ANSI GRADE 2 INDICATOR DEADBOLTS | 0.0      |
| DH-037-YA  | D100 Series Auxiliary Locks               | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA

156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

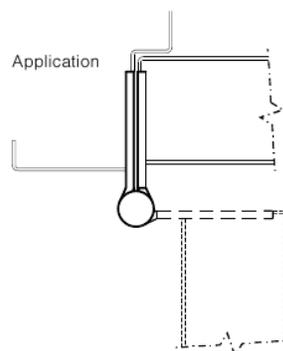
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



### MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

#### Options:

| Code        | Description       |
|-------------|-------------------|
| <b>NRP*</b> | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



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## Cal-Royal BB31 4.5" x 4.5" Ball Beari...

---

Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

## Sales Rep

---

### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

### DIMENSIONS

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

### MATERIAL / FINISH

Finish: US652 Stain Chrome

Material Composition: 1040 steel

### PERFORMANCE

Quality Standards: ANSI/BHMA A156.1

### HINGE

Knuckle: 5

## Notes

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<https://tinyurl.com/yzchz3hj>



## Wrought Concave Wall Stop

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Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

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### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle

Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

## Non Clutch Mechanism Cylindrical Leve...

Manufacturer: Cal-Royal Door Hardware  
Style/Series: Challenger SG Series Privacy Set

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

Non Clutch Mechanism Cylindrical Leverset

Item Type: BA-SG05

### DIMENSIONS

Door Thickness: 1  $\frac{3}{8}$ " to 1  $\frac{3}{4}$ "  
Backset: 2  $\frac{5}{8}$ " Standard, 2  $\frac{3}{4}$ ", 3  $\frac{3}{4}$ " and 5" extension available.  
Latch Faceplate: 2  $\frac{1}{4}$ " x 1  $\frac{1}{8}$ " for 2  $\frac{3}{4}$ " backset, 2  $\frac{1}{4}$ " x 1" for 2  $\frac{5}{8}$ " backset.  
Strikes: 2  $\frac{1}{4}$ " x 1" Faceplate and T-Strike.  
Bore Diameter: 1" for the latch. 2  $\frac{1}{8}$ " for lock housing.

### MATERIAL / FINISH

Finish: US4 Satin Brass

### PERFORMANCE

Fire/Smoke Rating: UL Listed 3 Hour Rated  
Operation: 6-pin "C" keyway cylinder, 2 keys per lock.  
Quality Standards: Meets or exceeds requirements of BHMA / ANSI A156.2 series 4000 for Grade 2 (FF-H-106C)

### MISCELLANEOUS

Lead Time: TBD



## Privacy Lever Set

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Manufacturer: Schlage  
Style/Series: 4602In Au Privacy Lever Set

## Sales Rep

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### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Privacy Lever Set

Item Type: Lockset

### **MATERIAL / FINISH**

Finish: 626, Satin Chrome

### **PERFORMANCE**

Quality Standards: UL 3 Hour Fire Rating; ANSI/BHMA A156.2 Series 4000, Grade 1; ANSI A117.1 Accessibility Code

Fire Rating: UL-cUL fire rated up to 3 hours

### **MISCELLANEOUS**

Lever Design: AU (Augusta)

### **MISCELLANEOUS**

Warranty: 3 Years



## Notes

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<https://tinyurl.com/4vtbw3rm>



# 4600(LN) Series

ANSI/BHMA Grade 2 Certified Cylindrical Locks



# Table of Contents



## Contents

|                          |     |
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## 4600(LN) Cylindrical Locks

Yale® 4600(LN) cylindrical locks are the ideal choice for a wide variety of commercial applications where consistent quality, ease of use and installation are required at an economical price. The 4600(LN) Series is certified to ANSI/BHMA Grade 2 standards and is UL fire-listed for all functions, ensuring reliability and peace of mind.

To make your building work better with your budget, Yale Works for You<sup>SM</sup>.

# Benefits & Features



## Benefits

- **Versatile:** Field reversible handing and other product options offer flexibility in many commercial applications
- **Economical:** Priced affordably to suit projects of all budgets
- **Secure:** Quality security from a trusted brand for over 170 years
- **Strong & Reliable:** ANSI/BHMA Grade 2 certified for long life and reliability

## Features

- Field reversible handing for easy installation
- Range of functions and options for a wide variety of commercial applications
- Available in five trims and nine finishes
- ADA compliant for ease of accessibility



## Specifications

|                       |   |
|-----------------------|---|
| <b>Door Prep</b>      | ANSI/BHMA A156.115  |
| <b>Door Thickness</b> | Adjustable for doors 1-3/8" to 1-3/4" (35mm to 44mm)  |
| <b>Backset</b>        | 2-3/4" (70mm) standard, 2-3/8" (60mm) optional  |
| <b>Handing</b>        | Non-handed, field reversible  |
| <b>Latchbolt</b>      | 2-3/4" (70mm) backset, 1/2" (13mm) throw latchbolt plain or deadlocking. See page 10 for additional options.  |
| <b>Strike</b>         | ANSI strike 4-7/8" x 1-1/4" x 1-1/4" (124mm x 32mm x 32mm) lip to center. See page 11 for additional options. |
| <b>Through-bolts</b>  | Optional through-bolts provided. Installation is at the discretion of the installer.                          |
| <b>ANSI/BHMA</b>      | Certified Grade 2, ANSI/BHMA A156.2, Series 4000  |
| <b>UL/cUL</b>         | Listed for 3 hour fire doors  |
| <b>Windstorm</b>      | Certified, check local codes.   |
| <b>Warranty:</b>      | 3 years   |



Hurricane



# How To Order



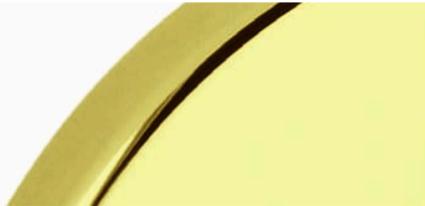
| Design  | Function   | Hand     | Latch                    | Strike   | Cylinder  | Door Thickness                                       | Keying   | Finish   |
|---|--|----------|--------------------------|--|---|--|--|--|
| <b>Levers</b>   | 4601LN - Passage or Closet Latch (Lever)   | Specify  | See page 10 for options. | 497 strike standard for lever trim; 371 T-strike standard for knob trim. See page 11 for additional options. | 1805 (knob) or 1806 (lever) 6-pin cylinder standard; see page 9 for additional options. | Adjustable between 1-3/8" to 1-3/4"; please specify. | KR (keyed random) standard, see page 9 for additional details/options. | 605 - Bright Brass, Clear Coated<br>606 - Satin Brass, Clear Coated<br>612 - Satin Bronze, Clear Coated<br>613E - Dark Oxidized Satin Bronze - equivalent<br>625 - Bright Chrome Plated<br>626 - Satin Chrome Plated<br>629 - Bright Stainless Steel<br>630 - Satin Stainless Steel<br>BSP - Black Suede Powder Coat |
| AU - Augusta<br>MO - Monroe<br>PB - Pacific Beach<br>TB | 4601 - Passage or Closet Latch (Knob)<br>4602LN - Privacy, Bedroom or Bath Lock (Lever)<br>4602 - Privacy, Bedroom or Bath Lock (Knob) | RH<br>LH |                          |  |   |  |  |  |
| <b>Knob</b>   | 4604LN - Entry Lock (Lever only)   |          |                          |  |   |  |  | Not all finishes available for all trims, see page 5 for details.  |
| CA - Carolina   | 4605LN - Storeroom or Closet Lock (Lever)  |          |                          |  |   |  |  |  |
|   | 4605 - Storeroom or Closet Lock (Knob)   |          |                          |  |   |  |  |  |
|   | 4607LN - Entry Lock (Lever)  |          |                          |  |   |  |  |  |
|   | 4607 - Entry Lock (Knob)   |          |                          |  |   |  |  |  |
|   | 4608LN - Classroom Lock (Lever)  |          |                          |  |   |  |  |  |
|   | 4608 - Classroom Lock (Knob)   |          |                          |  |   |  |  |  |
|   | 4628LN - Communicating Passage Lock (Lever only)   |          |                          |  |   |  |  |  |
|   | 4655LN - Single Dummy Trim (Lever)   |          |                          |  |   |  |  |  |
|   | 4655 - Single Dummy Trim (Knob)  |          |                          |  |   |  |  |  |

## Ordering Example

| Design | Function | Hand | Latch  | Strike | Cylinder | Door Thickness | Keying | Finish |
|--------|----------|------|--------|--------|----------|----------------|--------|--------|
| AU     | 4607LN   | RH   | MCD234 | 497    | 1806     | 1-3/4"         | KR     | 626    |

# Finishes



| ANSI/BHMA Code<br>Finish Description  |  |   |
|---|--|---|
| <b>605</b><br><b>Bright Brass, Clear Coated</b>                                     | <b>606</b><br><b>Satin Brass, Clear Coated</b>                                       | <b>612</b><br><b>Satin Bronze, Clear Coated</b>                                       |
|    |    |    |
| <b>613E</b><br><b>Dark Oxidized Satin Bronze - equivalent</b>                       | <b>625<sup>1</sup></b><br><b>Bright Chrome Plated</b>                                | <b>626<sup>1</sup></b><br><b>Satin Chrome Plated</b>                                  |
|   |   |   |
| <b>629<sup>2</sup></b><br><b>Bright Stainless Steel</b>                             | <b>630<sup>2</sup></b><br><b>Satin Stainless Steel</b>                               | <b>BSP<sup>1</sup></b><br><b>Black Suede Powder Coat</b>                              |
|  |  |  |

1. Finish available for lever trim only.

2. Finish available for knob trim only.

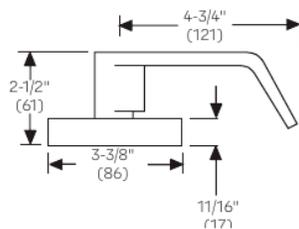
# Trim Designs



## Lever

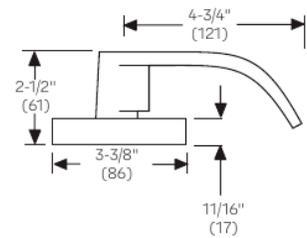
### Augusta AU

Lever: Cast Zinc  
Rose: Wrought Brass



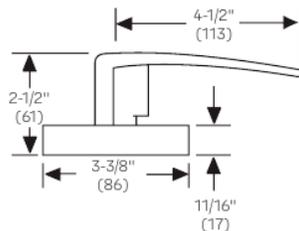
### Pacific Beach PB

Lever: Cast Zinc  
Rose: Wrought Brass



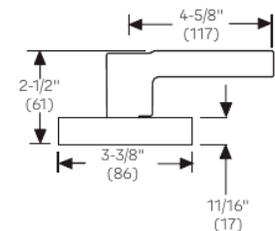
### Monroe MO

Lever: Cast Zinc  
Rose: Wrought Brass



### TB

Lever: Cast Zinc  
Rose: Wrought Brass

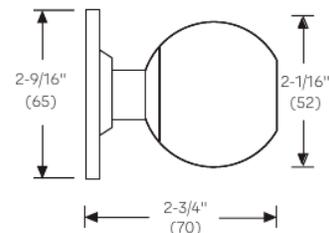


Note: Except for 626 finish, extended lead times apply for Monroe (MO) lever handle. Contact Customer Service for more information.

## Knob

### Carolina CA

Knob: Stainless Steel or Wrought Brass  
Rose: Stainless Steel or Wrought Brass

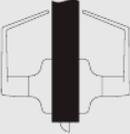
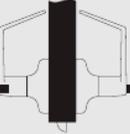
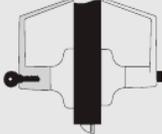
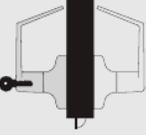
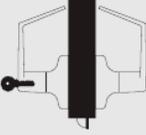
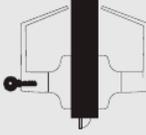
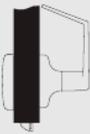


All levers and knob available with small format interchangeable core. See page 9 for details.

Dimensions shown are in inches/mm.

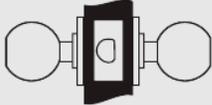
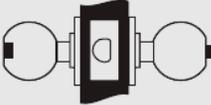
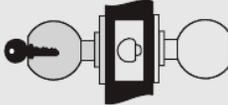
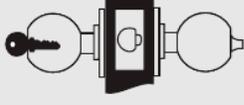
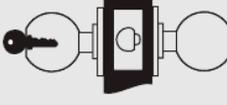
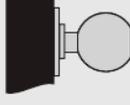


## Levers

|   |  |   |
|---|--|---|
| <p><b>4601LN (F75)</b></p>  <p><b>Passage or Closet Latch</b></p> <ul style="list-style-type: none"> <li>• For doors that do not require locking.</li> <li>• Either lever operates latchbolt at all times.</li> </ul>  | <p><b>4602LN (F76A)</b></p>  <p><b>Privacy, Bedroom or Bath Lock</b></p> <ul style="list-style-type: none"> <li>• For lavatory or other privacy doors.</li> <li>• Either lever operates latchbolt unless outside lever is locked by pushbutton inside.</li> <li>• Button automatically releases when inside lever is turned or door is closed.</li> <li>• Emergency release in outside lever.</li> <li>• Inside lever always active.</li> </ul>   | <p><b>4604LN (F82A)</b></p>  <p><b>Entry Lock</b></p> <ul style="list-style-type: none"> <li>• For entrance or office doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked from inside).*</li> <li>• Pushing button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)</li> <li>• Latchbolt is operated by key in outside lever or by rotating inside lever.</li> <li>• Inside lever always active.</li> </ul> |
| <p><b>4605LN (F86)</b></p>  <p><b>Storeroom or Closet Lock</b></p> <ul style="list-style-type: none"> <li>• For use on storeroom, utility, exit doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Latchbolt operated by lever inside, key in outside lever.</li> <li>• Outside lever always rigid.</li> <li>• Inside lever always active.</li> </ul>  | <p><b>4607LN (F109)</b></p>  <p><b>Entry Lock</b></p> <ul style="list-style-type: none"> <li>• For entrance, general home or office doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked from inside).</li> <li>• Pushing turn button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)</li> <li>• Outside lever may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.</li> <li>• Latchbolt is operated by key in outside lever or by rotating inside lever.</li> <li>• Inside lever always active.</li> </ul> | <p><b>4608LN (F84)</b></p>  <p><b>Classroom Lock</b></p> <ul style="list-style-type: none"> <li>• For classroom or utility room doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked by key).</li> <li>• Inside lever always active.</li> <li>• Key releases outside lever.</li> </ul>  |
| <p><b>4628LN (F111)</b></p>  <p><b>Communicating Passage Lock</b></p> <ul style="list-style-type: none"> <li>• For twin communicating or exit doors where one side operation is required.</li> <li>• Also when space is limited between door and switch panel.</li> <li>• Deadlocking latchbolt.</li> <li>• One lever operation.</li> <li>• Blank rose.</li> <li>• Should be used only where rooms have more than one entrance.</li> </ul> | <p><b>4655LN</b></p>  <p><b>Single Dummy Trim</b></p> <ul style="list-style-type: none"> <li>• For non-operational levers used for decorative trim.</li> <li>• Rigid lever.</li> </ul>  |   |

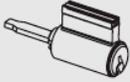
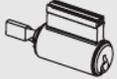


## Knobs

| 4601 (F75)   | 4602 (F76A)   | 4605 (F86)   |
|--|---|--|
|  <p><b>Passage or Closet Latch</b></p> <ul style="list-style-type: none"> <li>• For doors that do not require locking.</li> <li>• Either knob operates latchbolt at all times.</li> </ul>   |  <p><b>Privacy, Bedroom or Bath Lock</b></p> <ul style="list-style-type: none"> <li>• For lavatory or other privacy doors.</li> <li>• Either knob operates latchbolt unless outside knob is locked by pushbutton inside.</li> <li>• Button automatically releases when inside knob is turned or door is closed.</li> <li>• Emergency release in outside knob.</li> <li>• Inside knob always active.</li> </ul> |  <p><b>Storeroom or Closet Lock</b></p> <ul style="list-style-type: none"> <li>• For use on storeroom, utility, exit doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Latchbolt operated by knob inside, key in outside knob.</li> <li>• Outside knob always rigid.</li> <li>• Inside knob always active.</li> </ul> |
| 4607 (F109)  | 4608 (F84)  | 4655   |
|  <p><b>Entry Lock</b></p> <ul style="list-style-type: none"> <li>• For entrance, general home or office doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either knob operates latchbolt (except when outside knob is locked from inside).</li> <li>• Pushing turn button in inside knob locks outside knob. (Automatically releases when inside knob is turned or key is rotated in locked outside knob.)</li> <li>• Outside knob may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.</li> <li>• Latchbolt is operated by key in outside knob or by rotating inside knob.</li> <li>• Inside knob always active.</li> </ul> |  <p><b>Classroom Lock</b></p> <ul style="list-style-type: none"> <li>• For classroom or utility room doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either knob operates latchbolt (except when outside knob is locked by key).</li> <li>• Inside knob always active.</li> <li>• Key releases outside knob.</li> </ul>   |  <p><b>Single Dummy Trim</b></p> <ul style="list-style-type: none"> <li>• For non-operational levers used for decorative trim.</li> <li>• Rigid knob.</li> </ul>   |

# Cylinders/Keying



| Illustration  | Type                  | Model Number | Number of Pins |
|---|-----------------------|--------------|----------------|
|  | Key-in-Knob Cylinder  | 1805 (Knob)  | 6              |
|  | Key-in-Lever Cylinder | 1806 (Lever) | 6              |

### Keying:

All cylinders furnished standard 6-pin, keyed random in Yale® PARA keyway, pinned to Yale .019" specification. Each cylinder furnished with two nickel silver keys. Optional Yale keyways available upon request, extended lead times may apply.

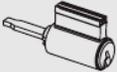
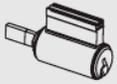
### Options:

Cylinders available 0-bitted, keyed alike, master keyed or construction master keyed upon request. Cylinders provided in 605 and 626 finishes only.

## Levers/Knobs Accepting Small Format Interchangeable Cores

| Illustration  | Cylinder Type  | Prefix                                   | Ordering Example  |
|---|--|--|-------------------|
|  | SFIC (Accepts all Small Format Interchangeable Cores) 6- or 7-pin. | B<br>(i.e. B-AU, B-MO, B-PB, B-TB, B-CA) | B-PB-4607LN x 626 |

## Other Manufacturers Keyway Cylinders/Cores

| Illustration  | Type  | Model Number | Number of Pins      |
|---|---|--------------|---------------------|
|  | Best® Keyway Core. Available keyed random, master keyed or uncombined. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M. | A600         | 6 or 7<br>(Specify) |
|  | Schlage® C Keyway Knob Cylinder. Available 0-bitted or keyed random.  | 2805 x C     | 6                   |
|  | Schlage® C Keyway Lever Cylinder. Available 0-bitted or keyed random.   | 2806 x C     | 6                   |
|  | Corbin Russwin L4 Keyway Cylinder. Available keyed random.  | 3806 x L4    | 6                   |
|   | Corbin 60 Keyway Cylinder. Available keyed random.  | 3806 x 60    | 6                   |
|   | Russwin D1 Keyway Cylinder. Available keyed random.   | 3806 x D1    | 6                   |
|   | Sargent® LA Keyway Cylinder. Available keyed random.  | 3806 x LA    | 6                   |
|   | Schlage® E Keyway Cylinder. Available keyed random.   | 3806 x E     | 6                   |

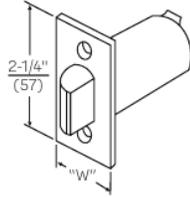
Note: 2805, 2806 and 3806 cylinders are supplied with applicable tailpieces that are needed to operate 4600(LN) locksets. These cylinders are not ANSI/BHMA certified.



# Latchbolts

## Plain Latchbolts

Model No. MCP234 supplied standard with all 4600(LN) series locksets without locking function. Model No. MCP234 latchbolt has a 2-1/4" x 1-1/8" front with a 2-3/4" backset and a 1/2" bolt throw. Optional latchbolts available to special order.

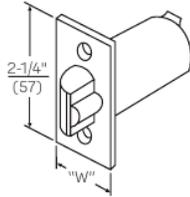


| Model Number | Front  | Backset       | Throw       | "W" Front Width | Latch Diameter* |
|--------------|--------|---------------|-------------|-----------------|-----------------|
| MCP238       | Square | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCP238R      | Round  | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCP234       | Square | 2-3/4" (70mm) | 1/2" (13mm) | 1-1/8" (29mm)   | 7/8" (22mm)     |

\*1/8" sleeve (P/N 14-0378-9001) supplied with all latchbolts to accommodate 1" preps.

## Deadlocking Latchbolts

Model No. MCD234 supplied standard with all 4600(LN) series locksets with locking function. Model No. MCD234 latchbolt has a 2-1/4" x 1-1/8" front with a 2-3/4" backset and a 1/2" bolt throw. Optional latchbolts available to special order.



| Model Number | Front  | Backset       | Throw       | "W" Front Width | Latch Diameter* |
|--------------|--------|---------------|-------------|-----------------|-----------------|
| MCD238       | Square | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCD238R      | Round  | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCD234       | Square | 2-3/4" (70mm) | 1/2" (13mm) | 1-1/8" (29mm)   | 7/8" (22mm)     |

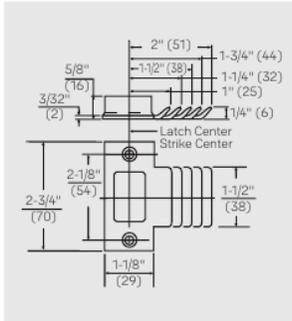
\*1/8" sleeve (P/N 14-0378-9001) supplied with all latchbolts to accommodate 1" preps.

Note: Locksets ordered with 2-3/8" backset square or round latchbolts will automatically include the corresponding 70S or 71S full lip strike as standard. Order must specify if alternate strike required.

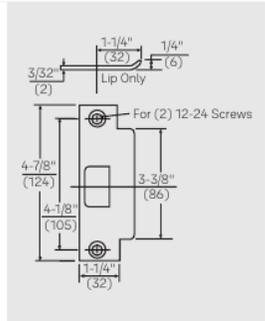
# Strikes



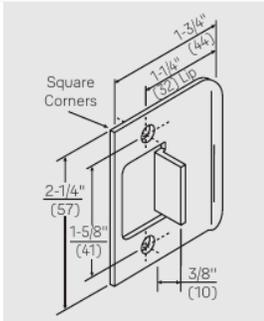
Yale® 4600(LN) locks are available with a variety of strike options. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in a variety of lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb, accounting for any interfering trim (i.e. wood molding) and then add 1/4" (6mm) for curved lip. All strikes are reversible. Strikes are fabricated of either brass, bronze or stainless steel, depending on the lockset trim finish. When ordering strikes separately, specify the finish required.



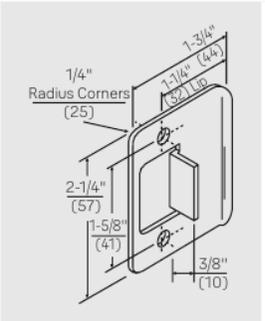
**Model No. 371 T-Strike (Standard for Knob - Optional for Lever)**  
 2-3/4" x 1-1/8" x 1-1/4" (70mm x 29mm x 32mm) lip to center supplied standard for knob. 1", 1-1/2", 1-3/4" and 2" curved lip lengths available by special order. Wrought strike box supplied.



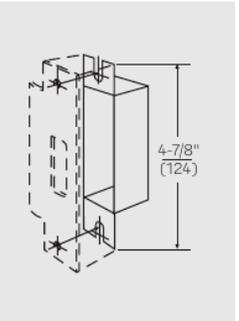
**Model No. 497 ANSI Strike (Standard for Lever - Optional for Knob)**  
 For door and frames with ANSI/BHMA A156.115 preparations. 4-7/8" x 1-1/4" x 1-1/4" (124mm x 32mm x 32mm) lip to center supplied standard for lever. 1-1/8", 1-1/2", and 1-3/4" lip lengths available by special order. Available with optional 202 Strike Box. Specify 497 x 202.



**Model No. 70S Full Lip Strike (Optional for Knob or Lever)**  
 2-1/4" x 1-3/4" x 1-1/4" (57mm x 44mm x 32mm) lip to center with full lip anti-rattle tab.



**Model No. 71S Full Lip Strike (Optional for Knob or Lever)**  
 1/4" radius. Similar in dimensions and function to the 70S Strike but with radius corners for easy mortising by power tools. Anti-rattle tab.



**Model No. 202 Strike Box**  
 Available to special order. Specify 497 x 202.

## Attaching Screws

### For Model Nos. 371, 70S, and 71S

#8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screws.

### For Model No. 497

#12-24 x 1" (25mm) Phillips flat head combination wood and machine screws.



**Trusted every day**

**Phone**

1-855-557-5078

**Customer Service Email**

[customerservice.yale@assaabloy.com](mailto:customerservice.yale@assaabloy.com)

**Technical Product Support Email**

[techsupport.yale@assaabloy.com](mailto:techsupport.yale@assaabloy.com)

**Order Entry Email**

[orders.yaleus@assaabloy.com](mailto:orders.yaleus@assaabloy.com)

**Fax**

1-800-338-0965

**Website**

[www.yalecommercial.com](http://www.yalecommercial.com)

## Contact Us

**U.S.A.**

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Berlin, CT 06037-4004

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Fax: 1-800-338-0965

[yalecommercial.com](http://yalecommercial.com)

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**ASSA ABLOY Door Security Solutions Canada**

Address: 160 Four Valley Drive

Vaughan, Ontario L4K 4T9

Tel: 1-800-461-3007

Fax: 1-800-461-8989

[assaabloydss.ca](http://assaabloydss.ca)

**International:**

**ASSA ABLOY Americas International**

Tel: 1-905-821-7775

Fax: 1-905-821-1429

[assaabloyai.com](http://assaabloyai.com)

**THE YALE BRAND**, with its unparalleled global reach and range of products, reassures more people in more countries than any other consumer locking solution.

**THE ASSA ABLOY GROUP** is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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**Adhesive Gasket/ Hospitality Products**

Manufacturer: Assa Abloy - Pemko  
Style/Series: S88\_ Adhesive Gaskets

**Sales Rep****Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

Adhesive Gasket/ Hospitality Products

Item Type: S88\_

**DIMENSIONS**

Width: 1/2"  
Length: TBD  
Height: 1/4"  
Weight: .08 lbs per foot

**MATERIAL / FINISH**

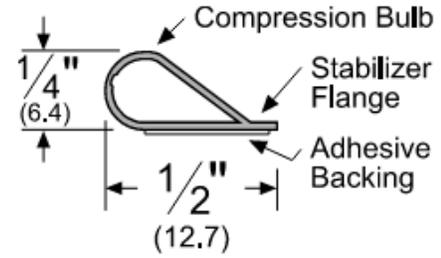
Color: Black

**PERFORMANCE**

Best Practices: ANSI R0E154, R0E155 Tested to ASTM E-283-04 (2012)  
Fire/Smoke Rating: Tested to UL 1784 and meets the requirements of NFPA 105-201  
Quality Standards: GreenGuard GOLD Certification  
Acoustical Performance: Tested to ASTM E90 - 2009

**MISCELLANEOUS**

Lead Time: 4 working days (or less)  
Warranty: 2 years if installed within 6 months  
Notes / Special Instructions: S88\_ is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations



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Manufacturer: CAL-ROYAL  
Style/Series: N900PBF Door Closer

---

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

---

## Attributes

Item Type: N900PBF Door Closer

### DIMENSIONS

Length: 11 3/4"

Height: 2"

Depth: 2 7/8"

### MATERIAL / FINISH

Finish: US26D Satin Chrome

Material Composition: Cast Aluminum Body

### PERFORMANCE

Accessibility Compliance : Meets ADA requirements - A117.1

Accessibility Code

Best Practices: ANSI 156.4 Grade 1

Fire/Smoke Rating: UL Listed

### MISCELLANEOUS

Warranty: Limited Lifetime Warranty

### CUSTOM FIELDS

#### SURFACE CLOSER

Cover Material : Full plastic cover standard

Mounting Type: Parallel Arm (Push Side), Regular (Pull Side), Top

Jamb (Push Side)

Opening Degree : up to 180 degrees



## 4400 Series Door Closer

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 2700 Series Door Closer

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

4400 Series Door Closer

### DIMENSIONS

Door Thickness: 1 3/4"

### MATERIAL / FINISH

Finish: 689

Material Composition: Cast aluminum body

### PERFORMANCE

Best Practices: ANSI/BHMA A156.4, Grade 1

Accessibility Compliance : comply with requirements for the Americans with Disabilities Act ANSI/BHMA A117.1

Fire/Smoke Rating: UL / cUL listed for use on fire rated doors

Operation: Rack and pinion design

### MISCELLANEOUS

Warranty: 30-year limited warranty

### CUSTOM FIELDS

### SURFACE CLOSER

Cover Material : Molded plastic cover

Opening Degree : All standard arm applications allow doors to swing 180°, conditions permitting



## Indicator Deadbolts

---

Manufacturer: Cal-Royal Door Hardware

Style/Series: IND90-G2 ANSI GRADE 2 INDICATOR DEADBOLTS

## Sales Rep

---

### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Indicator Deadbolts

Item Type: IND90-G2

### DIMENSIONS

Strike: 1 1/8" x 2 3/4" square corner.

Thickness: Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

Latch: 1" for latch, 1 1/2" or 2 1/8" for lock housing.

Diameter: 2 9/16"

### MATERIAL / FINISH

Finish: US26D Satin Chrome

Material Composition: Stainless Steel

### PERFORMANCE

Best Practices: Conforms with ANSI A156.36, Grade 2

Accessibility Compliance : ADA Ergonomic thumbturn

Fire/Smoke Rating: Adjustable UL Listed 3 Hour Fire Rated

### MISCELLANEOUS

Lead Time: TBD



## D100 Series Indicator x Thumbturn

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: D100 Series Auxiliary Locks

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

D100 Series Indicator x Thumbturn

Item Type: D292

### DIMENSIONS

Width: 1" (25mm) throw, solid steel deadbolt with hardened, free spinning, steel pin insert.

Backset: 2-3/4"

### MATERIAL / FINISH

Finish: US26D

Material Composition: Steel

### PERFORMANCE

Best Practices: Certified ANSI/BHMA A156.36 Grade 2

Fire/Smoke Rating: When used in conjunction with the primary latching device, are UL - cUL listed

Quality Standards: Can be installed on doors prepared to ANSI/BHMA A156.115 specifications using a simple bored-hole installation for square or beveled doors, opening in or out.

### MISCELLANEOUS

Warranty: 1 year mechanical



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Fitness Center/ Guest Laundry (Door# 14,16)

**DOOR  
HARDWARE**

1 NESTED ITEMS

| Code/Tag  | Product Name                                   | Quantity |
|-----------|--|----------|
| DH-050-SA | Saflok Quantum RFID x BLE<br>Continental; US15 | 0.0      |

### Electronic mortise lockset with 1" (2...

---

Manufacturer: by Saflok/dormakaba

Style/Series: Saflok Quantum RFID x BLE Continental; US15

### Notes

---

Case hardened full 1 inch (ANSI) Throw. Deadbolt with panic release function - deadbolt and latch are automatically retracted by inside handle for easy egress in case of emergency



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Main Laundry (Door# 20)

**DOOR  
HARDWARE**

## 9 NESTED ITEMS

| Code/Tag   | Product Name   | Quantity |
|------------|--|----------|
| DH-001-MK  | MPB79 Hinge  | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge                    | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop                        | 0.0      |
| DH-030-BRN | Ap50 050 Thick Metal Ansi Standard Duty Over 24 High | 0.0      |
| DH-032-PK  | S88_Adhesive Gaskets                                 | 0.0      |
| DH-042-YA  | 3501 Door Closer                                     | 0.0      |
| DH-042-CLR | N900 PBF   | 0.0      |
| DH-050-SA  | Saflok Quantum RFID x BLE Continental; US15          | 0.0      |
| DH-086-CLR | MF6341   | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA

156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

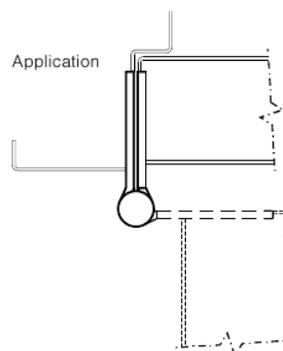
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



### MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

#### Options:

| Code        | Description       |
|-------------|-------------------|
| <b>NRP*</b> | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



800-346-7707 | www.mckinneyhinge.com  
Check the web site for the up-to-date catalog

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**McKinney**  
**ASSA ABLOY**

Experience a safer  
and more open world

**Cal-Royal BB31 4.5" x 4.5" Ball Beari...**

---

Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

**Sales Rep**

---

**Primary**

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

**Attributes**

---

Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

**DIMENSIONS**

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

**MATERIAL / FINISH**

Finish: US652 Stain Chrome

Material Composition: 1040 steel

**PERFORMANCE**

Quality Standards: ANSI/BHMA A156.1

**HINGE**

Knuckle: 5

**Notes**

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<https://tinyurl.com/yzchz3hj>



## Wrought Concave Wall Stop

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Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

---

### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle  
Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

**.050 Thick, Metal - ANSI Standard Dut...**

---

Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: Ap50 050 Thick Metal Ansi Standard Duty Over 24 High

**Sales Rep**

---

**Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

---

.050 Thick, Metal - ANSI Standard Duty Over 24" High

Item Type: Part# AP50

**DIMENSIONS**

Height: 24"  
Thickness: .050

**MATERIAL / FINISH**

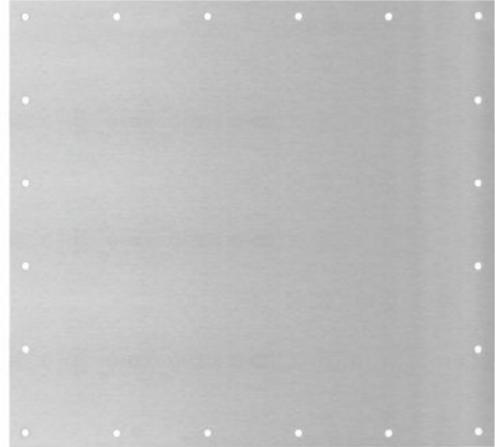
Finish: US32D/630 – Satin Stainless Steel

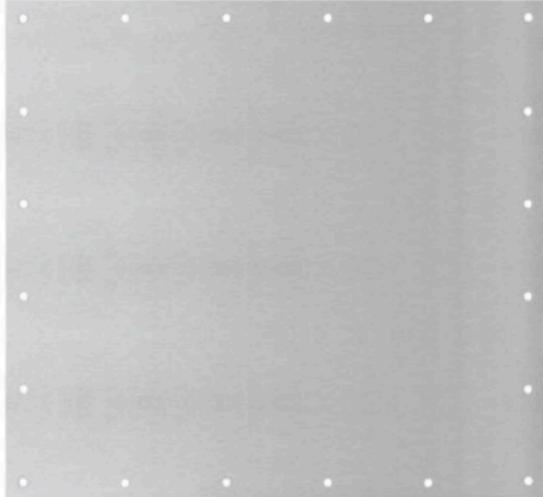
**PERFORMANCE**

Options: See Cutsheet for details  
Best Practices: ANSI J101

**MISCELLANEOUS**

Lead Time: TBD





## Part# AP50

**.050 Thick, Metal - ANSI Standard Duty Over 24" High**

|                 |   |
|-----------------|---|
| <b>Finishes</b> | US3/605 – Bright Brass<br>US4/606 – Satin Brass<br>US5/609 – Antique Brass<br>US10/612 – Satin Bronze<br>US10B/613 – Dark Bronze Oxidized<br>US15/619 - Satin Nickel Plated<br>US28/628 – Satin Anodized Aluminum<br>US32/629 – Bright Stainless Steel<br>US32D/630 – Satin Stainless Steel<br>Flat Black Powder Coat / S.S.<br>Dark Bronze Powder Coat / S.S.<br>US3PVD - Bright Brass Plated<br>US4PVD- Satin Brass Plated<br>US10PVD - Satin Bronze Plated<br>US32D Diamond - Satin Stainless Steel<br>Stamped |
|-----------------|---|

|                         |   |
|-------------------------|---|
| <b>Mounting Options</b> | Standard - #6 × 5/8" SMS<br>Tape - 3M™ Scotch Mount Tape<br>Magnetic - magnetic adhesive<br>Blank - no screw holes<br>TEK - #6 × 5/8" self drilling screws<br>TORX - #6 × 5/8" Torx security screws |
|-------------------------|---|

|                |   |
|----------------|---|
| <b>Options</b> | B3E - Bevel 3 Edges<br>B4E - Bevel 4 Edges<br>CSK - Countersunk Screws<br>1-3/4" Return - specify straight edge or beveled door<br>U.L. Certification |
|----------------|---|

|                        |  |
|------------------------|--|
| <b>Cut Out Options</b> | Louver<br>Corner Notch<br>Window<br>2-1/8" Rose<br>1-1/4" Cylinder |
|------------------------|--|

|             |      |
|-------------|------|
| <b>ANSI</b> | J101 |
|-------------|------|

**Adhesive Gasket/ Hospitality Products**

Manufacturer: Assa Abloy - Pemko  
Style/Series: S88\_ Adhesive Gaskets

**Sales Rep****Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

Adhesive Gasket/ Hospitality Products

Item Type: S88\_

**DIMENSIONS**

Width: 1/2"  
Length: TBD  
Height: 1/4"  
Weight: .08 lbs per foot

**MATERIAL / FINISH**

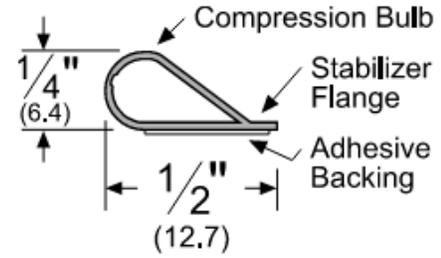
Color: Black

**PERFORMANCE**

Best Practices: ANSI R0E154, R0E155 Tested to ASTM E-283-04 (2012)  
Fire/Smoke Rating: Tested to UL 1784 and meets the requirements of NFPA 105-201  
Quality Standards: GreenGuard GOLD Certification  
Acoustical Performance: Tested to ASTM E90 - 2009

**MISCELLANEOUS**

Lead Time: 4 working days (or less)  
Warranty: 2 years if installed within 6 months  
Notes / Special Instructions: S88\_ is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations



## 3501 Door Closer

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 3501 Door Closer

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

3501 Door Closer

Item Type: 3501 Door Closer

### DIMENSIONS

Door Thickness: 1 3/4"

Depth: 2-1/8" (54mm) projection (standard covers)

Diameter: 1-1/4" (32mm) diameter piston

### MATERIAL / FINISH

Finish: 689

Material Composition: Cast aluminum body

### PERFORMANCE

Accessibility Compliance : ADA compliant

Best Practices: ANSI/BHMA Grade 1 certified for long life and reliability

Fire/Smoke Rating: All Yale series 3301/3501 closers with non-hold open arms are listed by Underwriters Laboratories for labeled fire doors

### MISCELLANEOUS

Lead Time: TBD

### SURFACE CLOSER

Opening Degree : All standard arm applications (with slim, full or metal covers) allow doors to swing 180 degrees, conditions permitting



## Cal-Royal's Finest Hydraulic Door Clo...

Manufacturer: Cal-Royal Door Hardware  
Style/Series: N900 PBF

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards GRADE 1  
Heavy-Duty Full Feature Multi-Size Commercial Door Closer

Item Type: N900 PBF

### DIMENSIONS

Length: 11 ¾"  
Height: 2"  
Depth: 2 7/8"  
Width: 36"

### MATERIAL / FINISH

Finish: Aluminum

### PERFORMANCE

Accessibility Compliance : Meets ADA regulation  
Fire/Smoke Rating: ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies  
Operation: Universal Application. Non-Handed for Standard, Top Jamb, or Parallel Arm Installation.

### MISCELLANEOUS

Lead Time: TBD

### SURFACE CLOSER

Mounting Type: 6 Attaching Holes for Extra Secure Mounting to Door or Frame  
Opening Degree : up to 180 degrees



# 900 SERIES

ANSI A156.4 Grade 1, Full Cover, Multi-Size Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



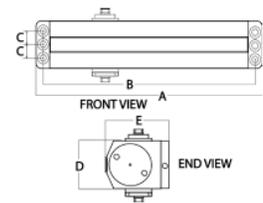
- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards Grade 1
- Heavy-Duty Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Center and Other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Decorative Covers are available including 32D
- Optional Adjustable Delayed Action for Handicapped or Elderly

## FEATURES

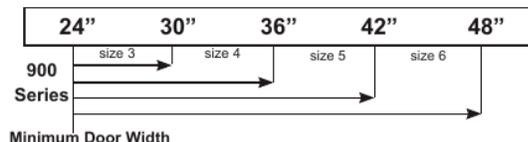
- Hydraulic Door Closer
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- 6 Attaching Holes for Extra Secure Mounting to Door or Frame
- Available in Alum, Duro, Gold, White, US3, 26, 26D, 10, 15, 10B, 32D, 4 and 5 Finishes
- Optional Adjustable Delayed Action (DA). Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted Up to 1 Minute
- Barrier Free (BF) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to Provide Easier Opening for Handicapped or Elderly



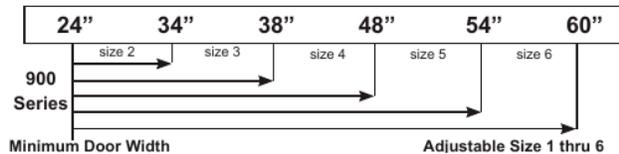
| DESCRIPTION                  | SIZE    |
|------------------------------|---------|
| A. Length of Closer Body     | 11 3/4" |
| B. Horizontal Mounting Holes | 11 1/8" |
| C. Vertical Mounting Holes   | 9/16"   |
| D. Height of Closer Body     | 2"      |
| E. Projection from Door      | 2 7/8"  |



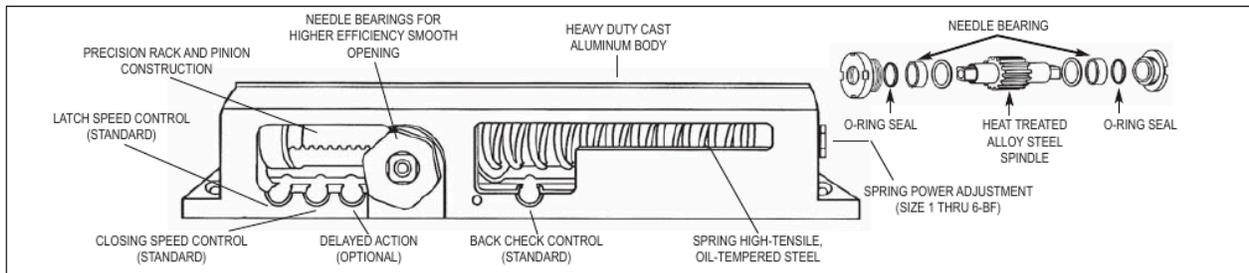
### EXTERIOR (and VESTIBULE) DOOR WIDTH



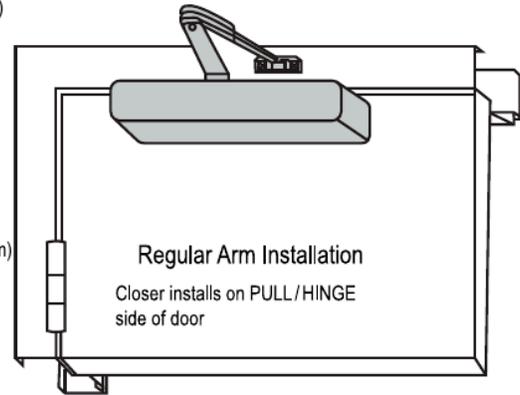
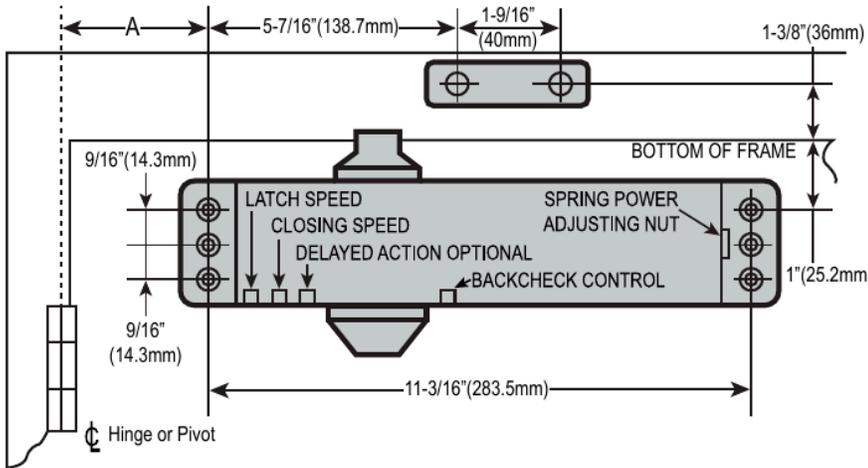
### INTERIOR DOOR WIDTH



Conforms to Standards UL10C and UBC7-2-1997

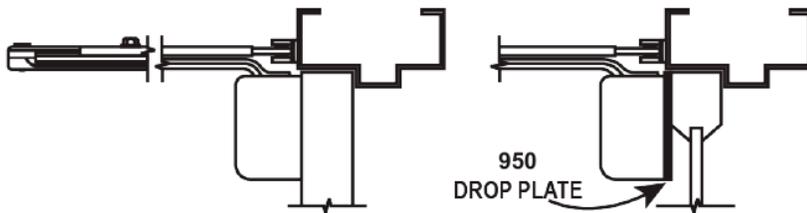


## 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

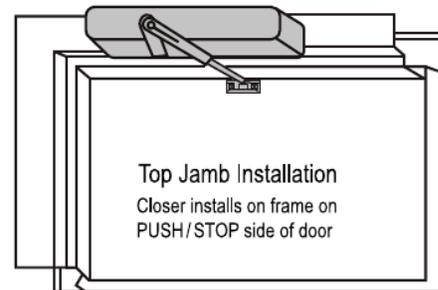
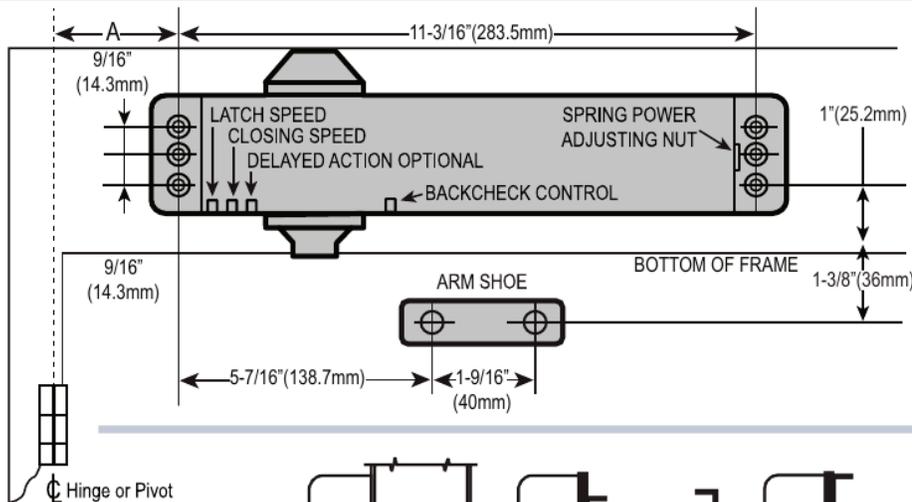


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

| OPENING     | DIM A           |
|-------------|-----------------|
| TO 120°     | 7-3/32 (180mm)  |
| 120° - 180° | 3-15/16 (100mm) |



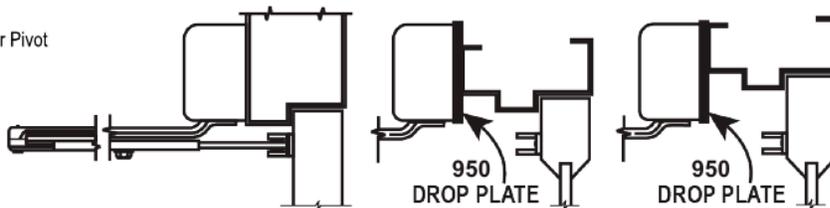
## 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



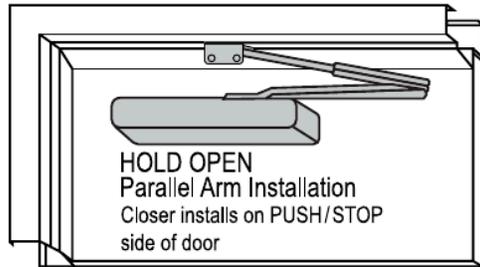
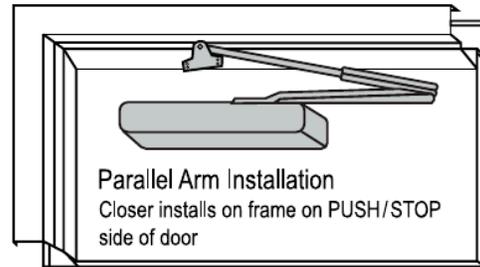
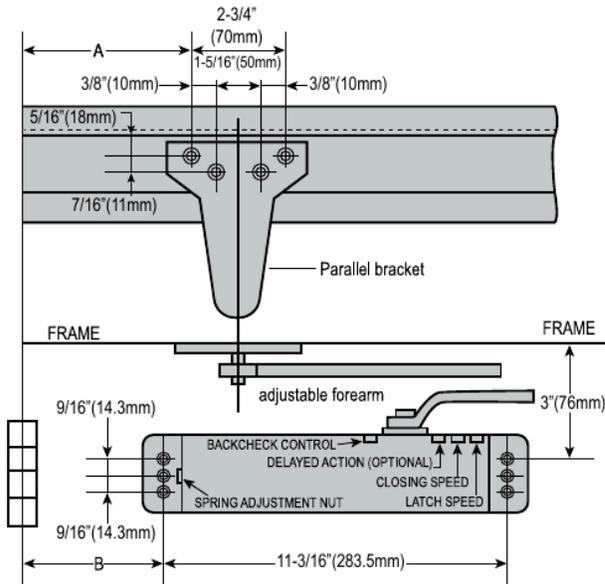
Hinge Edge of Door

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

| OPENING     | DIM A           |
|-------------|-----------------|
| TO 120°     | 7-3/32 (180mm)  |
| 120° - 180° | 3-15/16 (100mm) |

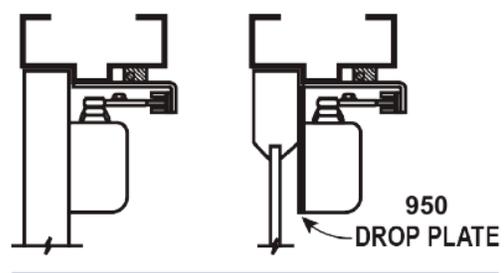


## 900 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



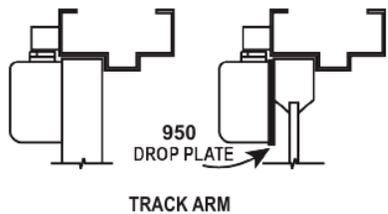
| OPENING     | DIM A            | DIM B          |
|-------------|------------------|----------------|
| TO 120°     | 9-1/2(241.5 mm)  | 6-1/8 (156 mm) |
| 120° - 180° | 5-7/8 (149.7 mm) | 2-9/16 (65 mm) |

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

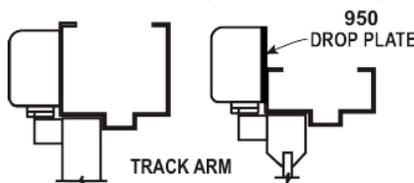


## 900 SERIES : OPTIONAL INSTALLATION

### REGULAR ARM (PULL SIDE)



### TOP JAMB (PUSH SIDE)



**MAXIMUM OPENING:** 180°(Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

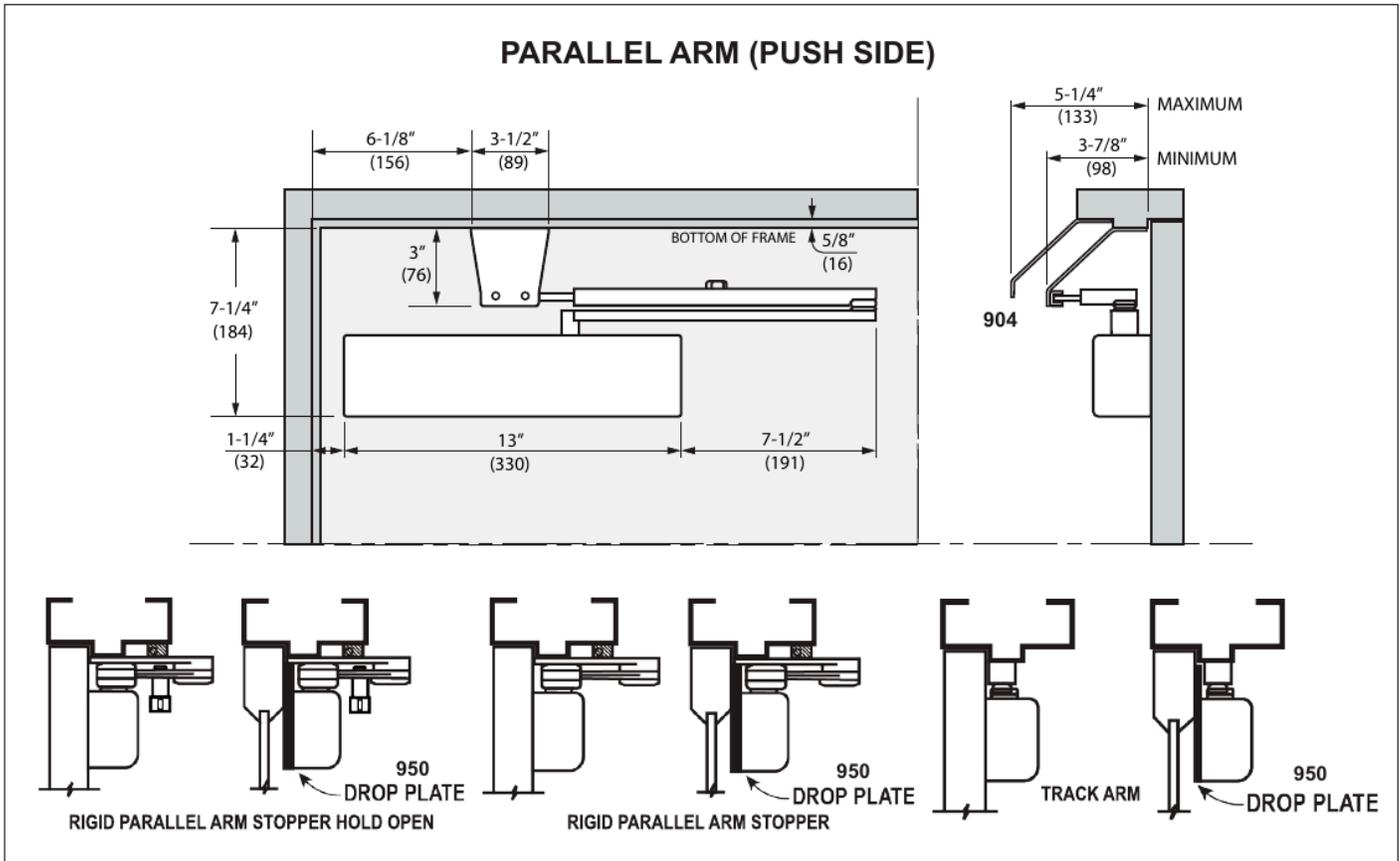
#### ARMS

- 901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- 900EXT - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- 945AR - Door Closer Arm (Main and Regular Forearm)
- TRACK / 900 - Slide Track Arm with Removable Hold-Open

#### BRACKETS

- 950 - Flat Drop Plate for Top Rail less than 3 1/2"

## 900 SERIES : OPTIONAL INSTALLATION



**MAXIMUM OPENING:** 180° (Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

#### ARMS

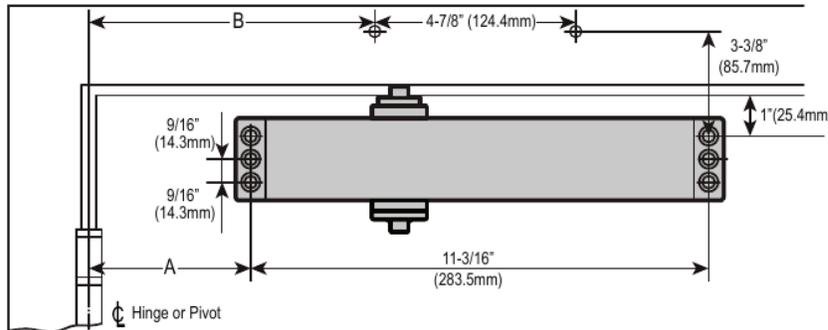
- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm ( 3" extension ) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

#### BRACKETS

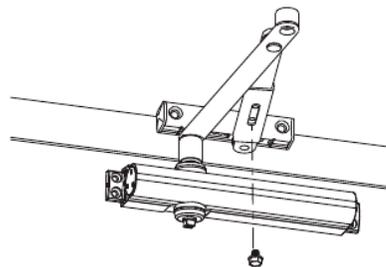
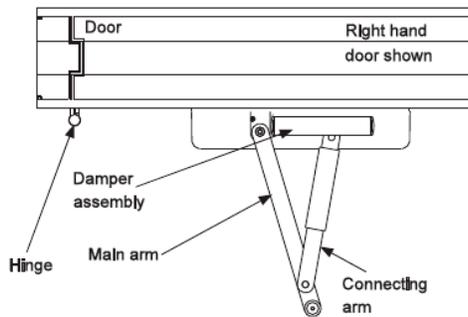
- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **950** - Flat Drop Plate for Top Rail less than 3 1/2"

## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

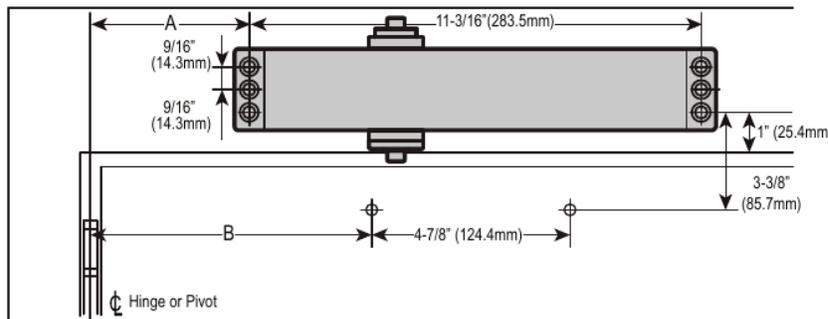


| OPENING | DIM A               | DIM B                |
|---------|---------------------|----------------------|
| TO 85°  | 9-3/8"<br>(238.6mm) | 12-1/4"<br>(312mm)   |
| TO 90°  | 8-3/4"<br>(222.6mm) | 11-5/8"<br>(296mm)   |
| TO 100° | 7-7/8"<br>(200.6mm) | 10-13/16"<br>(274mm) |
| TO 110° | 7-1/8"<br>(180.6mm) | 10-1/16"<br>(255mm)  |

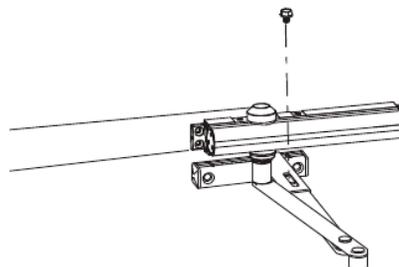
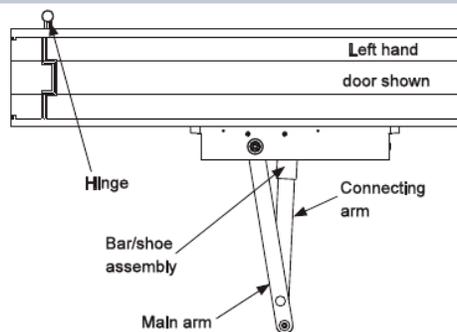


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



| OPENING | DIM A              | DIM B                |
|---------|--------------------|----------------------|
| TO 85°  | 8-5/16"<br>(211mm) | 11"<br>(279mm)       |
| TO 90°  | 8"<br>(203mm)      | 10-11/16"<br>(271mm) |
| TO 100° | 6-7/8"<br>(175mm)  | 9-9/16"<br>(243mm)   |
| TO 110° | 6-1/4"<br>(159mm)  | 8-15/16"<br>(227mm)  |

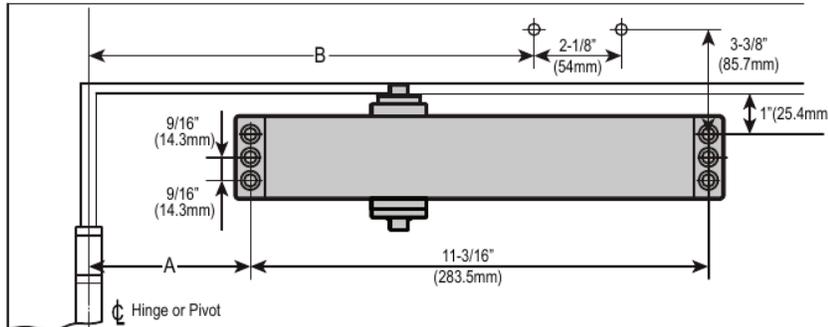


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

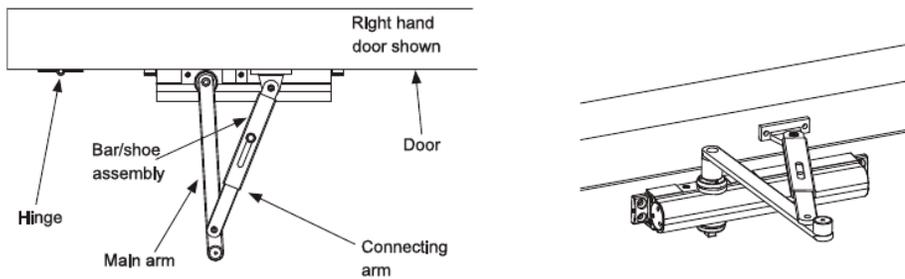
# RHDSTP ARM INSTALLATION

## Cushion Heavy Duty Stop Arm

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

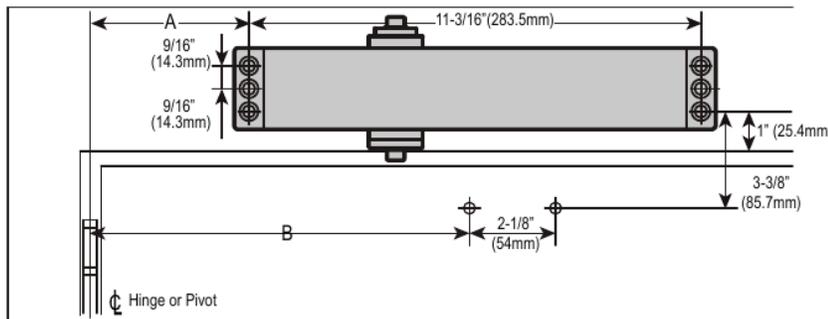


| OPENING | DIM A                 | DIM B                |
|---------|-----------------------|----------------------|
| TO 85°  | 6-1/4"<br>(158.6mm)   | 14-5/16"<br>(364mm)  |
| TO 90°  | 5-5/8"<br>(142.6mm)   | 14"<br>(355mm)       |
| TO 95°  | 4-13/16"<br>(122.6mm) | 13-11/16"<br>(348mm) |
| TO 100° | 5-3/4"<br>(145.6mm)   | 13-1/16"<br>(332mm)  |
| TO 105° | 4-1/4"<br>(107.6mm)   | 12-3/4"<br>(323mm)   |
| TO 110° | 4-1/8"<br>(104.6mm)   | 12-5/16"<br>(313mm)  |

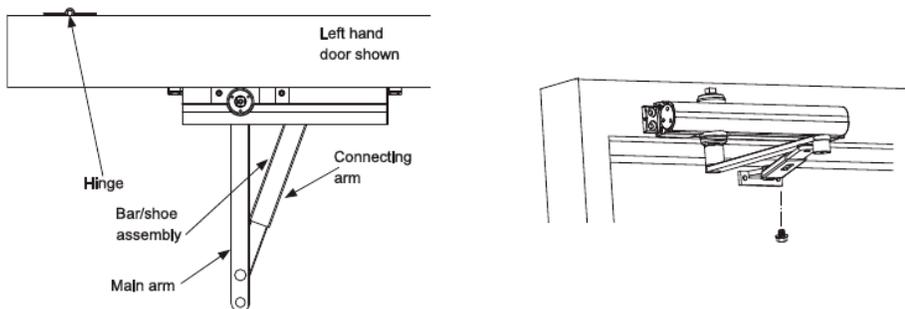


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



| OPENING | DIM A               | DIM B                |
|---------|---------------------|----------------------|
| TO 85°  | 6-7/8"<br>(174.6mm) | 13-3/8"<br>(339mm)   |
| TO 90°  | 6-1/8"<br>(155.6mm) | 12-13/16"<br>(326mm) |
| TO 95°  | 5-7/8"<br>(149.6mm) | 12-7/16"<br>(316mm)  |
| TO 100° | 5-5/8"<br>(142.6mm) | 12"<br>(304mm)       |
| TO 105° | 5-3/8"<br>(136.6mm) | 11-11/16"<br>(297mm) |
| TO 110° | 5-1/8"<br>(129.6mm) | 11-7/16"<br>(291mm)  |



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### Electronic mortise lockset with 1" (2...

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Manufacturer: by Saflok/dormakaba

Style/Series: Saflok Quantum RFID x BLE Continental; US15

### Notes

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Case hardened full 1 inch (ANSI) Throw. Deadbolt with panic release function - deadbolt and latch are automatically retracted by inside handle for easy egress in case of emergency



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Manufacturer: Cal-Royal Door Hardware  
Style/Series: MF6341

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## Sales Rep

### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

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## Attributes

Item Type: MF6341

### DIMENSIONS

Width: 1"  
Length: 6 3/4"  
Throw: 5/8"  
Diameter: Bolt tip is 1/2" Diameter

### MATERIAL / FINISH

Finish: US26D  
Material Competition : UL Listed Solid Brass

### PERFORMANCE

Best Practices: Conforms to ANSI/BHMA A156.16, L04251  
Fire/Smoke Rating: UL Listed for fire-rated metal doors

### MISCELLANEOUS

Lead Time: TBD

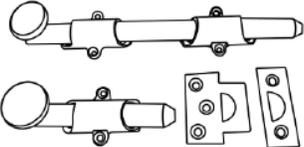
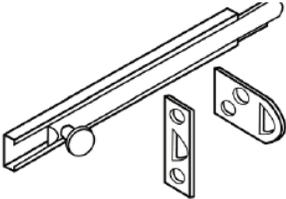
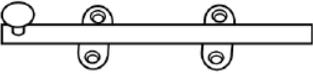


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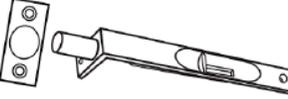
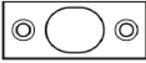
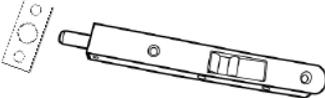
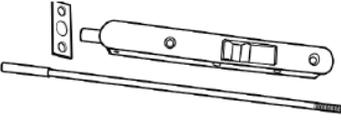
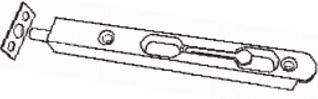
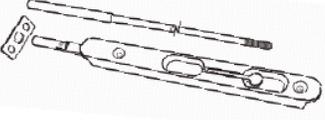
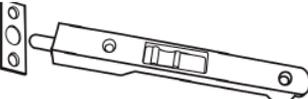
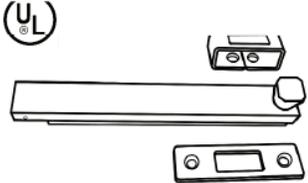
## Notes

Manufacturer Information: <https://tinyurl.com/m5mzwvst>

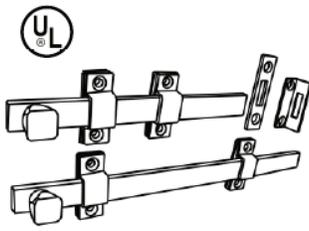
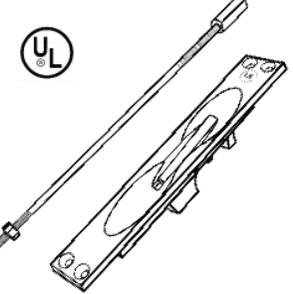
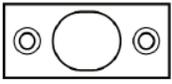
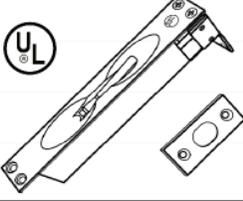
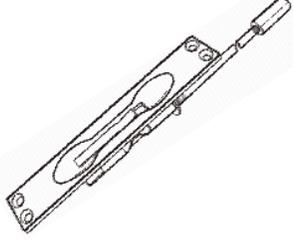
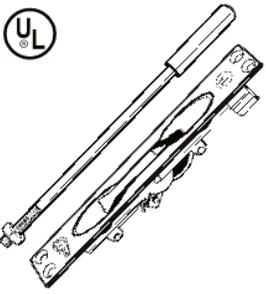
**SECURITY BOLTS**

| ILLUSTRATION  | ITEM NO | DESCRIPTION   | FINISH                                  | INNER QTY | MASTER QTY | UNIT |
|---|---------|---|---|-----------|------------|------|
|   |         |   | US3                                     |           |            | Each |
|   | DDSB4   | Solid Brass 4" Decorative Dutch Door Bolt<br>Packed with Mortise and Universal Strikes.   | US26, 10B,<br>US15A, 15, 5<br>US1       | 10        | 60         | Each |
|   | DDSB8   | Solid Brass 8" Decorative Dutch Door Bolt<br>Packed with Mortise and Universal Strikes.   | US3                                     | 10        | 60         | Each |
|   | DDSB12  | Solid Brass 12" Decorative Dutch Door Bolt<br>Packed with Mortise and Universal Strikes.  | US3                                     | 10        | 60         | Each |
|    |         |   | US26, 10B,<br>US15A, 15, 5<br>US1       |           |            | Each |
|   | DDSB18  | Solid Brass 18" Decorative Dutch Door Bolt<br>Packed with Mortise and Universal Strikes.  | US3                                     | 10        | 60         | Each |
|   | DDSB24  | Solid Brass 24" Decorative Dutch Door Bolt<br>Packed With Mortise and Universal Strikes.  | US3                                     | 10        | 60         | Each |
|   |         |   | US3, 5,<br>US26, 10B,<br>US15, 15A      | 1         | 1          | Each |
|  | ANGSTRK | Angle Strike for Decorative Heavy Duty<br>Surface Bolt  |   |           |            |      |
|   | SB873   | 3" Brass Surface Bolt,<br>Poly Packed with Screws.  | US3, 15, 26,<br>US15A, 10B, 5           | 20        | 400        | Each |
|   | SB874   | 4" Brass Surface Bolt,<br>Poly Packed with Screws.  | US3, 15, 26,<br>US15A, 10B, 5           | 20        | 200        | Each |
|   | SB876   | 6" Brass Surface Bolt,<br>Poly Packed with Screws.  | US3, 15, 26,<br>US15A, 10B, 5           | 20        | 200        | Each |
|  |         |   | US3, 15, 26,<br>US15A, 10B, 5           | 10        | 100        | Each |
|   | SB8712  | 12" Brass Surface Bolt,<br>Poly Packed with Screws.   |   |           |            |      |
|   | DCSB4   | Decorative 4" Surface Bolt<br><b>Included:</b> Packed in Individual<br>Poly-bagged with 2 Strikes and Screws.<br>Comparable to IVES No. 043 Surface Bolt. | US3, 5, 10B,<br>US15, 15A,<br>US26, 26D | 50        | 300        | Each |
|  |         |   |   |           |            |      |
|   | DCSB6   | Decorative 6" Surface Bolt<br><b>Included:</b> Packed in Individual<br>Poly-bagged with 2 Strikes and Screws.<br>Comparable to IVES No. 043 Surface Bolt. | US3, 5, 10B,<br>US15, 15A,<br>US26, 26D | 50        | 200        | Each |
|  |         |   |   |           |            |      |

## SECURITY BOLTS

| ILLUSTRATION  | ITEM NO                 | DESCRIPTION   | FINISH                                  | INNER QTY | MASTER QTY | UNIT |
|---|-------------------------|---|---|-----------|------------|------|
|    | SMB85R                  | 6" <b>Steel</b> Flush Bolt Round End.<br>1" Throw<br>ANSI / BHMA L04201   | US10B, 15,<br>US26D                     | 10        | 100        | Each |
|    | MB85R                   | 6" <b>Solid Brass</b> Flush Bolt Round End.<br>1" Throw<br>ANSI / BHMA L04201   | US3<br>US5, 10B, 26,<br>US26D, 15, 15A  | 10        | 100        | Each |
|    | MB86S                   | 6" <b>Solid Brass</b> Flush Bolt Square End.<br>1" Throw<br>ANSI / BHMA L04201  | US3<br>US5, 10B, 26,<br>US26D, 15, 15A  | 10        | 100        | Each |
|    | STRKMB85R               | Strike for MB85R and MB86S.<br>Packed with 2 screws.  | US3, 5, 10B,<br>US15, 15A,<br>US26, 26D | 10        | 50         | Each |
|    | FBG6                    | Solid Brass Single Route<br>Flush Bolt Round End,<br>Similar to (IVES #260) Size 7"   | US3, 5, 26,<br>US26D, 15, 15A           |           | 100        | Each |
|   | STRKFBG6                | Strike for FBG6 and FBGEX12<br>Packed with 2 screws   | US3, 5, 10B,<br>US26, 26D,<br>US15, 15A | 10        | 100        | Each |
|  | FBGEX12                 | Solid Brass Single Route<br>Extension Flush Bolt, 18" Rod,<br>Size 7 3/8", 3/8" Throw.<br>Round Both Ends   | US3, 5, 26,<br>US26D, 15, 15A           | 2         | 100        | Each |
|  | FLPFB400                | Flip Style Mortise Flush Bolt<br>7" L x 3/4" W; Throw: 3/4";<br>Strike: 1 1/2" L x 5/8" W   | US3, 15, 26D<br>US5, 10B,<br>US15A, 26  | 10        | 100        | Each |
|  | EXTFB-1                 | Flip Style Mortise Flush Bolt<br>with 18" Extension Rod<br>7 7/16" L x 3/4" W; Throw: 11/16";<br>Strike: 1 1/2" L x 5/8" W  | US3, 5, 10B,<br>US26, 26D,<br>US15, 15A | 2         | 100        | Each |
|  | ZDFB800                 | Solid One Piece<br>Heavy Construction,<br>Diecast Base,<br>Single Route Flush Bolt,<br>Round End. Size 6 3/4"   | US3, 5, 15,<br>US10B, 26,<br>US26D      | 10        | 100        | Each |
|  | UL453<br>(SBUL8 before) | UL Listed 8" Surface Bolt.<br>Features Tamper-Resistant Mounting.<br>Concealed Screw, Steel Construction.<br>Bolt Throw – 1", Width 1",<br>Projection 1 5/8", Length 8"<br>Comparable to IVES #361<br>ANSI / BHMA A156.16, L04161 | US26D                                   | 1         | 36         | Each |

## SECURITY BOLTS

| ILLUSTRATION  | ITEM NO                      | DESCRIPTION  | FINISH                               | INNER QTY | MASTER QTY | UNIT |
|---|------------------------------|--|--------------------------------------|-----------|------------|------|
|    | UL831<br>(ESBUL50 before)    | UL Listed 8" Surface Mounted Heavy Duty Surface Bolt. Steel Construction. Bolt Throw 1", Width 3/4", Length 8", Projection 1 5/16". Packed with Mortise and Universal Strikes. Comparable to IVES #453 ANSI / BHMA A156.16, L04161 | US26D                                | 1         | 50         | Each |
|   | UL831-12<br>(ESBUL12 before) | 12" Length, Same Specs as Above  | US26D                                | 1         | 50         | Each |
|    | MF6341                       | UL Listed Solid Brass Lever Extension Flush Bolt. Commercial Type, 1" x 6 3/4", 12" Extension, 5/8" Throw. New Extruded Brass Design. ANSI / BHMA A156.16, L04081  | US26D, 3                             | 2         | 50         | Each |
|   | FBROD-12                     | 12" Extended Rod for MF6341  | US10, 10B, US4, 5, 26, US15, 15A, L1 |           |            | Each |
|   | FBROD-18                     | 18" Extended Rod for MF6341  |                                      |           |            |      |
|   | FBROD-24                     | 24" Extended Rod for MF6341  |                                      | 1         | 1          | Each |
|   | FBROD-36                     | 36" Extended Rod for MF6341  |                                      |           |            |      |
|   | FBROD-48                     | 48" Extended Rod for MF6341  |                                      |           |            |      |
|   | STRKMF                       | Strike for MF6341 Packed with 2 screws in a nylon bag  | US3, 10B, US15, 26, US26D            | 1         | 1          | Each |
|  | WF6341                       | UL Listed Solid Brass Lever Extension Flush Bolt. Commercial Type, 1" x 6 3/4", 5/8" Throw. <b>For Wood or Composite Doors.</b> ANSI / BHMA A156.16, L04081  | US3, 10B, US15, 26, US26D            | 1         | 50         | Each |
|  | SBFB825                      | Stamped Brass Manual Flush Bolt. Commercial Type, 1" x 6 3/4", 12" Extension, 3/4" Throw.  | US3                                  | 2         | 50         | Each |
|   |                              | Non-Handed Extended Rods Available. See MF6341 (above).  | US10B, 15, US26D                     |           |            | Each |
|  | FBS-100                      | Stainless Steel, UL Listed Flip Style Mortise Flush Bolt Commercial Type, 1" x 6 3/4", Rod: 12" from center of flush bolt to the tip of the bolt. 3/4" Throw. Non-Handed UL Listed No. R14281 ANSI / BHMA A156.16                  | US32D                                | 2         | 50         | Each |
|   | RD-12                        | 12" Extended Rod for FBS-100   |                                      |           |            |      |
|   | RD-18                        | 18" Extended Rod for FBS-100   |                                      |           |            |      |
|   | RD-24                        | 24" Extended Rod for FBS-100   |                                      | 1         | 1          | Each |
|   | RD-36                        | 36" Extended Rod for FBS-100   |                                      |           |            |      |
|   | RD-48                        | 48" Extended Rod for FBS-100   |                                      |           |            | Each |

**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Cross Corridor (Door #13, 19)

**DOOR  
HARDWARE**

## 12 NESTED ITEMS

| Code/Tag   | Product Name                         | Quantity |
|------------|--------------------------------------|----------|
| DH-001-MK  | MPB79 Hinge                          | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge    | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop        | 0.0      |
| DH-029-CLR | A2200EO36 Exit Device                | 0.0      |
| DH-029-YA  | 700 Series Architectural Exit Device | 0.0      |
| DH-032-PK  | S88_Adhesive Gaskets                 | 0.0      |
| DH-042-YA  | 3501 Door Closer                     | 0.0      |
| DH-042-CLR | N900 PBF                             | 0.0      |
| DH-081-YA  | AU-628F                              | 0.0      |
| DH-081-CLR | PAS30L                               | 0.0      |
| DH-084-CLR | MDHR-1                               | 0.0      |
| DH-084-RX  | 994M                                 | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA  
156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

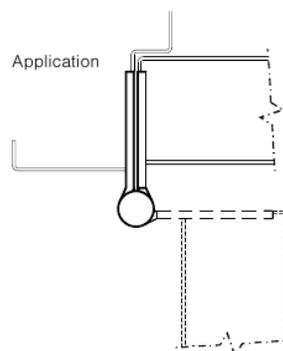
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

### Options:

| Code | Description       |
|------|-------------------|
| NRP* | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



800-346-7707 | www.mckinneyhinge.com  
Check the web site for the up-to-date catalog

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**McKinney**  
**ASSA ABLOY**

Experience a safer  
and more open world

## Cal-Royal BB31 4.5" x 4.5" Ball Beari...

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Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

## Sales Rep

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### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

### DIMENSIONS

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

### MATERIAL / FINISH

Finish: US652 Stain Chrome

Material Composition: 1040 steel

### PERFORMANCE

Quality Standards: ANSI/BHMA A156.1

### HINGE

Knuckle: 5

## Notes

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<https://tinyurl.com/yzchz3hj>



## Wrought Concave Wall Stop

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Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

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### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle  
Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

## A2200 & AF2200 Rim Type Panic and Fir...

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Manufacturer: Cal-Royal Door Hardware  
Style/Series: A2200EO36 Exit Device

## Sales Rep

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### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

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A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA)

Item Type: A2200EO36 Exit Device

### DIMENSIONS

Width: 30" to 36" door width

Length: 32"

Thickness: 1 ¾" thick standard optional 2 ¼" thick. 4 ½" minimum  
stile width required for single or double door application using  
standard 239 strike and pull or lever trims

### MATERIAL / FINISH

Finish: Aluminum (Alum)

Material Composition: Stainless Steel

### PERFORMANCE

Accessibility Compliance : Americans with Disability Act (ADA)  
Compliant, 5 lbs. opening force.

Best Practices: UL Listed for Panic and UL10C, UBC 7-2-1997 codes.

Fire/Smoke Rating: UL Listed for Fire Exit Hardware. 3 hours.

Quality Standards: ANSI A156.3, GRADE 1 heavy duty exit device in  
surface vertical rod and rim designs.

### MISCELLANEOUS

Warranty: Lifetime



## A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA) A2260V & AF2260V Vertical Rod Panic and Fire Exit Devices (ADA) ANSI A156.3, Grade 1



### Features & Construction

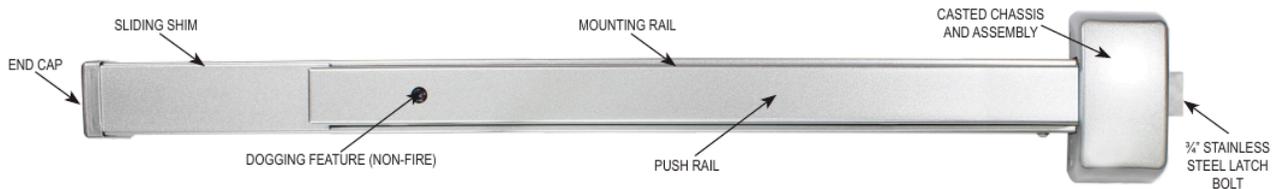
- ◆ **Retrofits Sargent 12-2828 & 12-2838 Series**
- ◆ Americans with Disability Act (ADA) compliant. 5 lbs opening force on ADA product only
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 Hours
- ◆ Conforms & Meets ADA Regulations (ADA products only)
- ◆ (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of Stainless Steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1

# A2200 & AF2200 ADA Series

## GRADE 1 Rim Type Exit Device



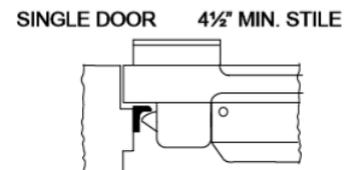
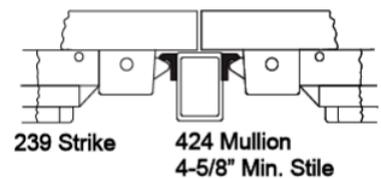
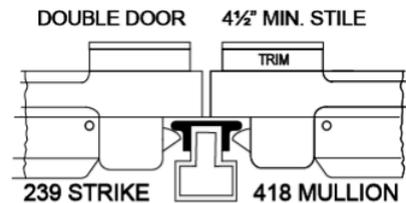
### Specifications

|                                  |  |
|----------------------------------|--|
| <b>For Doors.....</b>            | 1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims   |
| <b>Chassis.....</b>              | Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)  |
| <b>Cover.....</b>                | Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout   |
| <b>Mounting.....</b>             | Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices.  |
| <b>End Cap.....</b>              | Steel construction   |
| <b>Alarm.....</b>                | Available. See page 74   |
| <b>Hand.....</b>                 | Non handed, center hub. 2 3/4" backset   |
| <b>Latch Bolt.....</b>           | Stainless Steel 3/4" throw   |
| <b>Spring.....</b>               | Stainless Steel throughout   |
| <b>ANSI Standard.....</b>        | A156.3, Grade 1  |
| <b>Rail Assembly.....</b>        | Heavy gauge steel, painted   |
| <b>Strike.....</b>               | 239 packed standard (See strike page)  |
| <b>Dogging Feature.....</b>      | Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available  |
| <b>Mullion.....</b>              | Available  |
| <b>UL and ULC Listed.....</b>    | A2200 Series for panic. AF2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes. |
| <b>Finish.....</b>               | Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold  |
| <b>Electronic Functions.....</b> | (ELR) Electrical Latch Retraction and RX & LX Signal Switch available  |

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Minimum Stile Requirements 4" escutcheon trims & 4 1/2" for Thumbpiece and rose trims



### DIMENSIONS

|  |                         |                     |                       |
|--|-------------------------|---------------------|-----------------------|
| <b>Touchbar height to finished floor</b> | 41" (1041 mm) at center |                     |                       |
| <b>Touchbar projection</b>               |                         |                     |                       |
| Neutral                                  | 2 1/2" (64 mm)          |                     |                       |
| Depressed                                | 1 3/4" (45 mm)          |                     |                       |
| <b>MODEL</b>                             | <b>ACTUAL LENGTH</b>    | <b>MAX CUT DOWN</b> | <b>DOOR SIZE</b>      |
| A2200EO24 and AF2200EO24                 | 20"                     | 2"                  | 22" to 24" door width |
| A2200EO32 and AF2200EO32                 | 28"                     | 6"                  | 26" to 32" door width |
| A2200EO36 and AF2200EO36                 | 32"                     | 6"                  | 30" to 36" door width |
| A2220EO48 and AF2220EO48                 | 44"                     | 12"                 | 36" to 48" door width |

# A2260V & AF2260V ADA Series

## GRADE 1 Vertical Rod Type Exit Device



**LIFETIME WARRANTY**

**BHMA**  
CERTIFIED  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

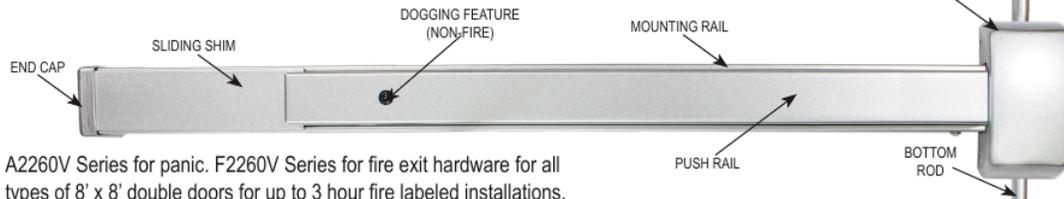


### Specifications

- For Doors.....** 1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
- Top & Bottom Chassis.....** Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
- Cover.....** Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
- Mounting.....** Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
- End Cap.....** Steel construction
- Alarm.....** Available. Prefix "NALRM" before MODEL #
- Hand.....** Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
- Latch Bolt & Spring.....** Stainless steel
- ANSI Standard.....** A156.3, Grade 1
- Rail Assembly.....** Heavy gauge steel, painted
- Strike.....** See strike page
- Dogging Feature.....** Allen-type key furnished standard on non-fire labeled devices

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**



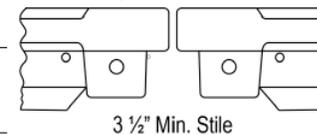
- UL and ULC Listed.....** A2260V Series for panic. F2260V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
- Finish.....** Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

### DIMENSIONS

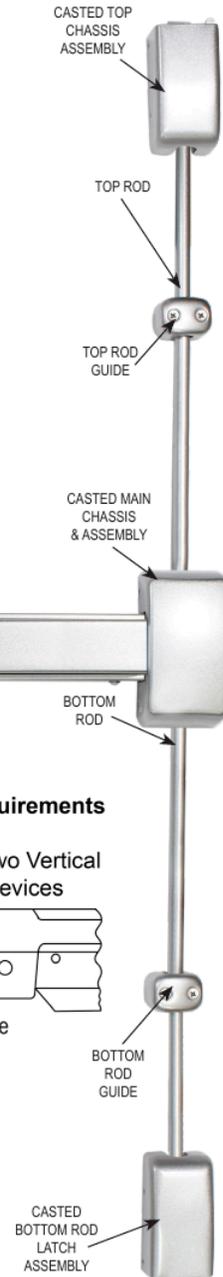
|   |  |
|---|--|
| Touchbar height to finished floor             | 41" (1041 mm) at center                                  |
| Touchbar projection                           |  |
| Neutral                                       | 2 1/2" (64 mm)   |
| Depressed                                     | 1 3/4" (45 mm)   |
| Panic grade top & bottom latch case           | 3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)      |
| Fire grade top latch case                     | 3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)   |
| Fire grade bottom latch case                  | 3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)      |
| Top and bottom rod length for 36" x 84" doors | Top rod 39 3/16" (995 mm), bottom rod 37 3/16" (945 mm)  |
| Top and bottom rod length for 48" x 96" doors | Top rod 51 3/16" (1300 mm), bottom rod 37 3/16" (945 mm) |
| Vertical Rods                                 | 1/2" (13 mm) Round tubing                                |

### Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



| MODEL  | ACTUAL LENGTH | MAX CUT DOWN | DOOR SIZE             |
|--|---------------|--------------|-----------------------|
| A2210V2484, AF2210V2484  | 20"           | 2"           | 22" to 24" door width |
| A2260V3684, AF2260V3684, A2270V3284, AF2270V3284, A2290V3696, AF2290V3696, A2250V36120 | 32"           | 6"           | 30" to 36" door width |
| A2280V4896, AF2280V4896, A2240V48120   | 44"           | 12"          | 36" to 48" door width |



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Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 700 Series Architectural Exit Device

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## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

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## Attributes

Item Type: 7100(F) Rim

### DIMENSIONS

Door Opening Width: -36 for 30" - 36" (76cm - 91cm) doors  
Stile Width: 4-1/2" (114mm)  
Projection: 3-1/4" (83mm) active, 2-3/4" (70mm) dogged  
Door Thickness: 1-3/4" (44mm) standard. Optional door thicknesses available to 4-1/2"; specify door thickness when ordering.

### MATERIAL / FINISH

Finish: 630 Satin Stainless Steel  
Material Composition: stainless steel

### PERFORMANCE

Fire/Smoke Rating: FVSR/FVSR - Panic hardware; GXHX/GXHX7 - Fire exit hardware (F) (4' x 8' single, 8' x 8' pairs, 3 hr.)  
Operation: 3/4" throw deadlocking stainless steel pullman latchbolt  
Quality Standards: Certified A156.3 Type 1, Grade 1

### MISCELLANEOUS

Lead Time: TBD



**Adhesive Gasket/ Hospitality Products**

Manufacturer: Assa Abloy - Pemko  
Style/Series: S88\_ Adhesive Gaskets

**Sales Rep****Primary**

Nick Batrouney  
Email: nickb@discoverParagon.com

**Attributes**

Adhesive Gasket/ Hospitality Products

Item Type: S88\_

**DIMENSIONS**

Width: 1/2"  
Length: TBD  
Height: 1/4"  
Weight: .08 lbs per foot

**MATERIAL / FINISH**

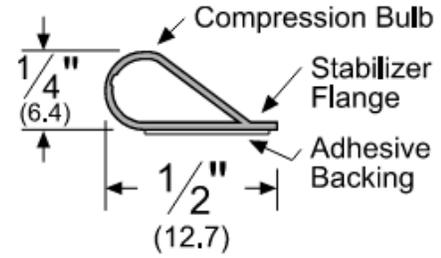
Color: Black

**PERFORMANCE**

Best Practices: ANSI R0E154, R0E155 Tested to ASTM E-283-04 (2012)  
Fire/Smoke Rating: Tested to UL 1784 and meets the requirements of NFPA 105-201  
Quality Standards: GreenGuard GOLD Certification  
Acoustical Performance: Tested to ASTM E90 - 2009

**MISCELLANEOUS**

Lead Time: 4 working days (or less)  
Warranty: 2 years if installed within 6 months  
Notes / Special Instructions: S88\_ is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations



## 3501 Door Closer

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Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: 3501 Door Closer

## Sales Rep

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### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

3501 Door Closer

Item Type: 3501 Door Closer

### DIMENSIONS

Door Thickness: 1 3/4"

Depth: 2-1/8" (54mm) projection (standard covers)

Diameter: 1-1/4" (32mm) diameter piston

### MATERIAL / FINISH

Finish: 689

Material Composition: Cast aluminum body

### PERFORMANCE

Accessibility Compliance : ADA compliant

Best Practices: ANSI/BHMA Grade 1 certified for long life and reliability

Fire/Smoke Rating: All Yale series 3301/3501 closers with non-hold open arms are listed by Underwriters Laboratories for labeled fire doors

### MISCELLANEOUS

Lead Time: TBD

### SURFACE CLOSER

Opening Degree : All standard arm applications (with slim, full or metal covers) allow doors to swing 180 degrees, conditions permitting



## Cal-Royal's Finest Hydraulic Door Clo...

Manufacturer: Cal-Royal Door Hardware  
Style/Series: N900 PBF

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards GRADE 1  
Heavy-Duty Full Feature Multi-Size Commercial Door Closer

Item Type: N900 PBF

### DIMENSIONS

Length: 11 ¾"  
Height: 2"  
Depth: 2 7/8"  
Width: 36"

### MATERIAL / FINISH

Finish: Aluminum

### PERFORMANCE

Accessibility Compliance : Meets ADA regulation  
Fire/Smoke Rating: ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies  
Operation: Universal Application. Non-Handed for Standard, Top Jamb, or Parallel Arm Installation.

### MISCELLANEOUS

Lead Time: TBD

### SURFACE CLOSER

Mounting Type: 6 Attaching Holes for Extra Secure Mounting to Door or Frame  
Opening Degree : up to 180 degrees



# 900 SERIES

ANSI A156.4 Grade 1, Full Cover, Multi-Size Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



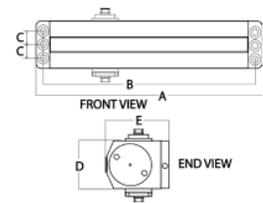
- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards Grade 1
- Heavy-Duty Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Center and Other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Decorative Covers are available including 32D
- Optional Adjustable Delayed Action for Handicapped or Elderly

## FEATURES

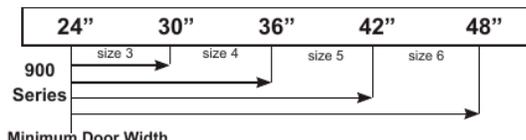
- Hydraulic Door Closer
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- 6 Attaching Holes for Extra Secure Mounting to Door or Frame
- Available in Alum, Duro, Gold, White, US3, 26, 26D, 10, 15, 10B, 32D, 4 and 5 Finishes
- Optional Adjustable Delayed Action (DA). Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted Up to 1 Minute
- Barrier Free (BF) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to Provide Easier Opening for Handicapped or Elderly



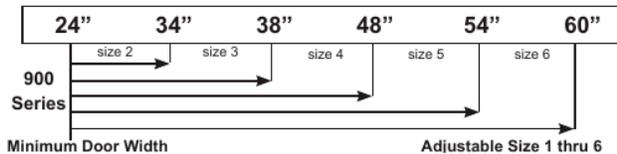
| DESCRIPTION                  | SIZE    |
|------------------------------|---------|
| A. Length of Closer Body     | 11 3/4" |
| B. Horizontal Mounting Holes | 11 1/8" |
| C. Vertical Mounting Holes   | 9/16"   |
| D. Height of Closer Body     | 2"      |
| E. Projection from Door      | 2 7/8"  |



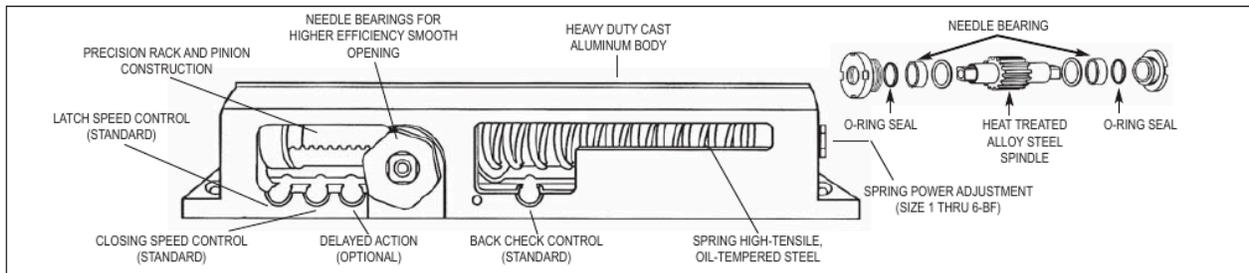
### EXTERIOR (and VESTIBULE) DOOR WIDTH



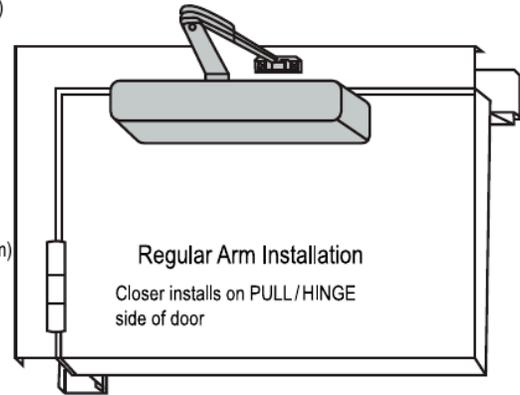
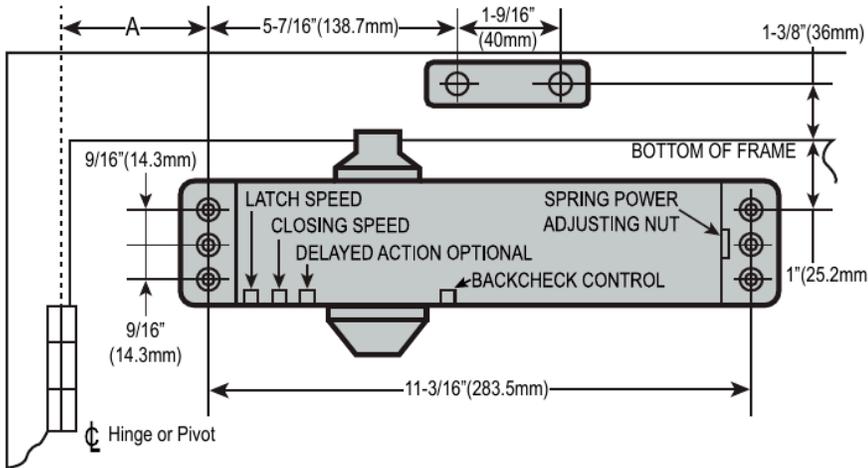
### INTERIOR DOOR WIDTH



Conforms to Standards UL10C and UBC7-2-1997

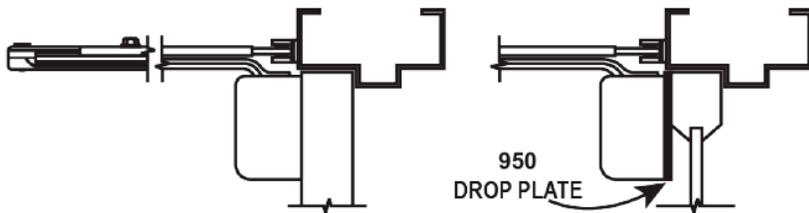


## 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

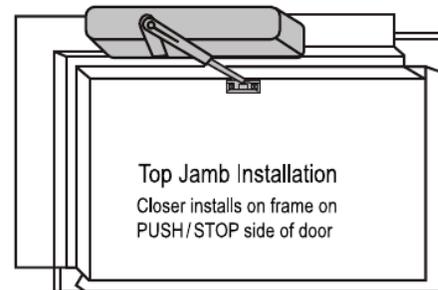
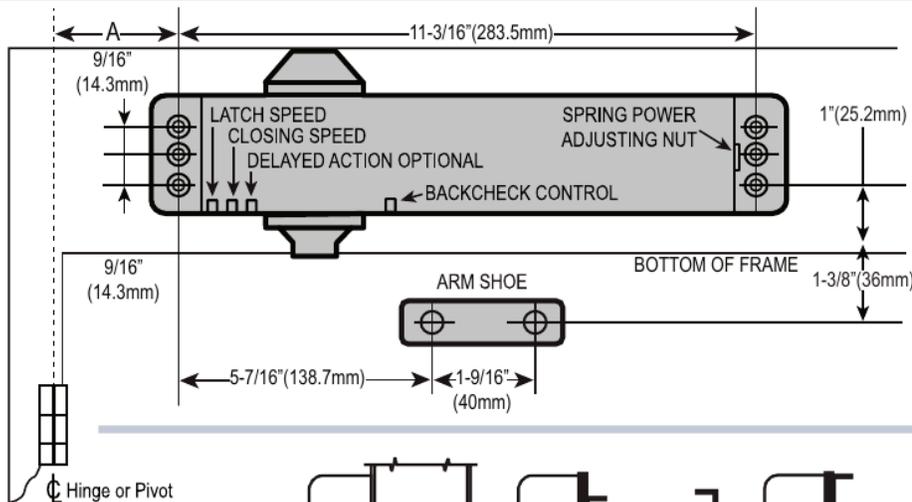


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

| OPENING     | DIM A           |
|-------------|-----------------|
| TO 120°     | 7-3/32 (180mm)  |
| 120° - 180° | 3-15/16 (100mm) |



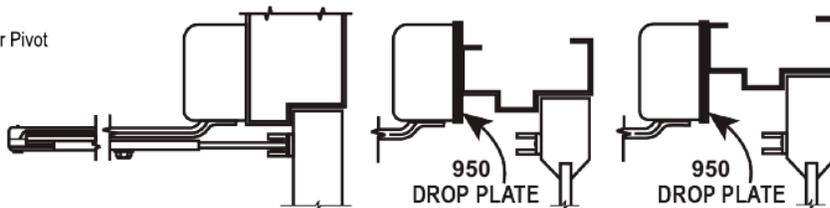
## 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



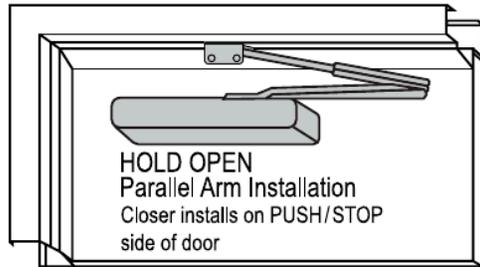
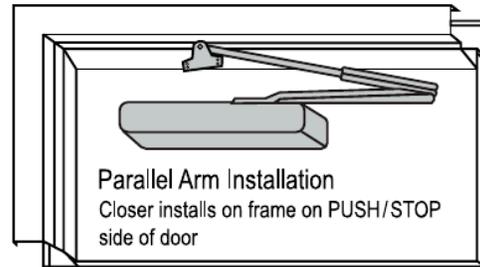
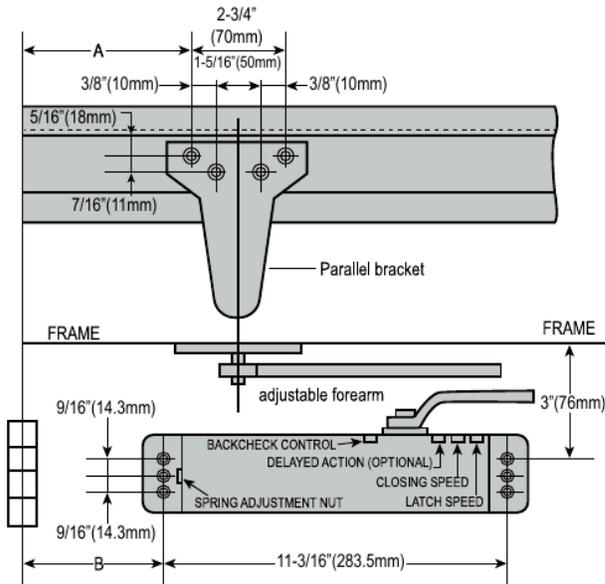
Hinge Edge of Door

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

| OPENING     | DIM A           |
|-------------|-----------------|
| TO 120°     | 7-3/32 (180mm)  |
| 120° - 180° | 3-15/16 (100mm) |

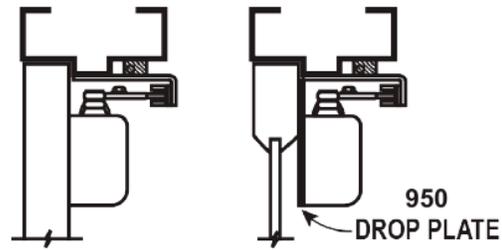


## 900 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



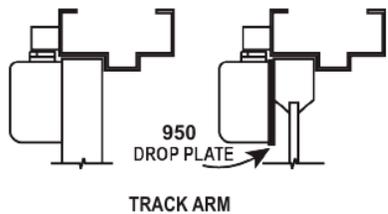
| OPENING     | DIM A            | DIM B          |
|-------------|------------------|----------------|
| TO 120°     | 9-1/2 (241.5 mm) | 6-1/8 (156 mm) |
| 120° - 180° | 5-7/8 (149.7 mm) | 2-9/16 (65 mm) |

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

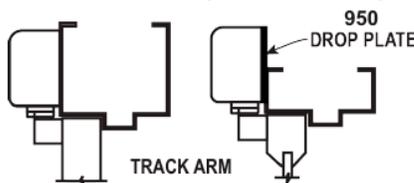


## 900 SERIES : OPTIONAL INSTALLATION

### REGULAR ARM (PULL SIDE)



### TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180°(Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

#### ARMS

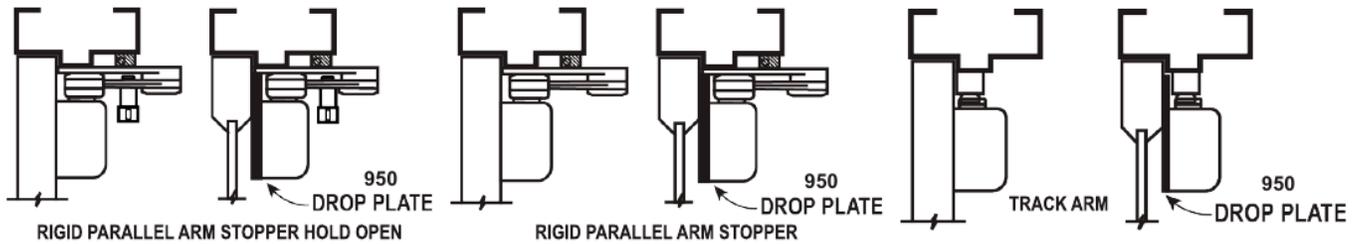
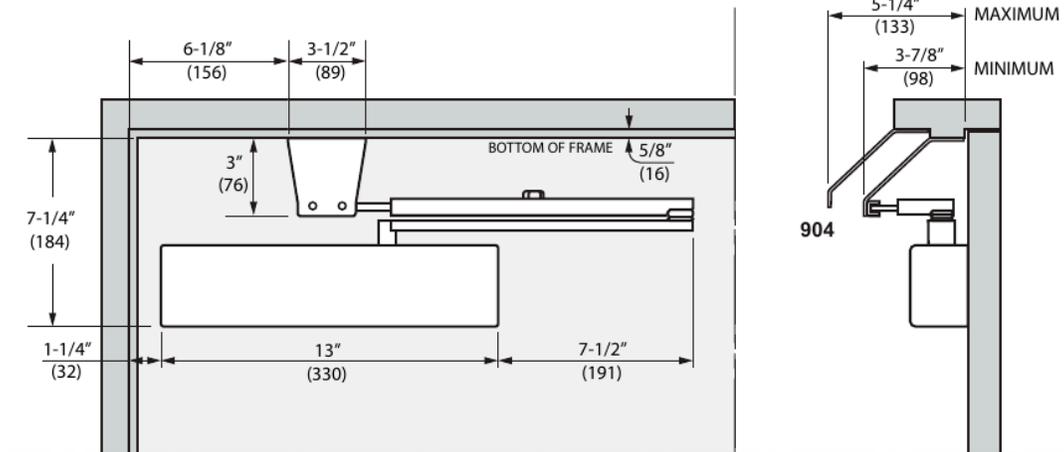
- 901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- 900EXT - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- 945AR - Door Closer Arm (Main and Regular Forearm)
- TRACK / 900 - Slide Track Arm with Removable Hold-Open

#### BRACKETS

- 950 - Flat Drop Plate for Top Rail less than 3 1/2"

## 900 SERIES : OPTIONAL INSTALLATION

### PARALLEL ARM (PUSH SIDE)



**MAXIMUM OPENING:** 180° (Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

#### ARMS

- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm ( 3" extension ) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

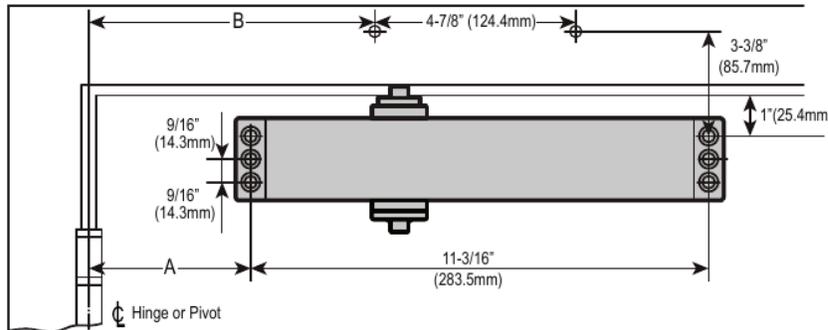
#### BRACKETS

- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **950** - Flat Drop Plate for Top Rail less than 3 1/2"

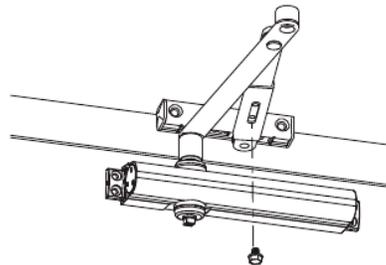
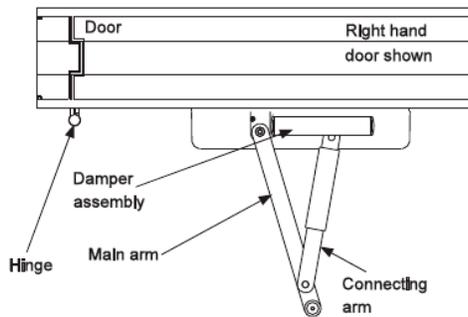
# RHDSA-SS ARM INSTALLATION

## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

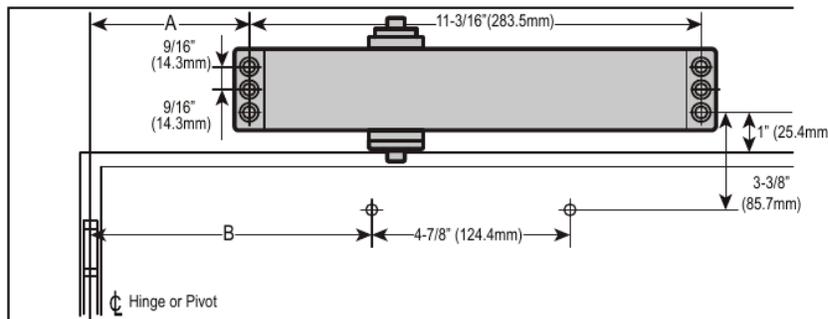


| OPENING | DIM A               | DIM B                |
|---------|---------------------|----------------------|
| TO 85°  | 9-3/8"<br>(238.6mm) | 12-1/4"<br>(312mm)   |
| TO 90°  | 8-3/4"<br>(222.6mm) | 11-5/8"<br>(296mm)   |
| TO 100° | 7-7/8"<br>(200.6mm) | 10-13/16"<br>(274mm) |
| TO 110° | 7-1/8"<br>(180.6mm) | 10-1/16"<br>(255mm)  |

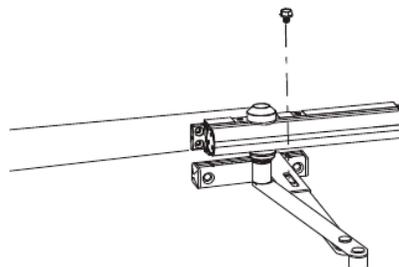
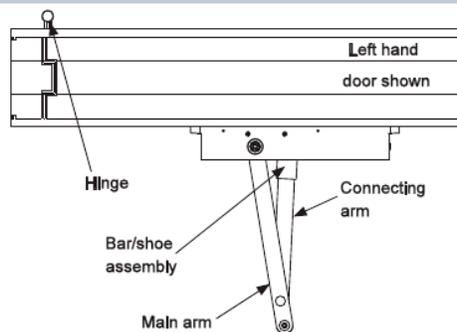


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



| OPENING | DIM A              | DIM B                |
|---------|--------------------|----------------------|
| TO 85°  | 8-5/16"<br>(211mm) | 11"<br>(279mm)       |
| TO 90°  | 8"<br>(203mm)      | 10-11/16"<br>(271mm) |
| TO 100° | 6-7/8"<br>(175mm)  | 9-9/16"<br>(243mm)   |
| TO 110° | 6-1/4"<br>(159mm)  | 8-15/16"<br>(227mm)  |

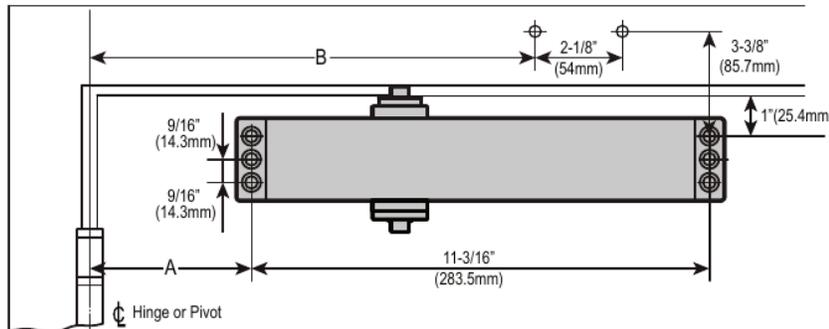


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

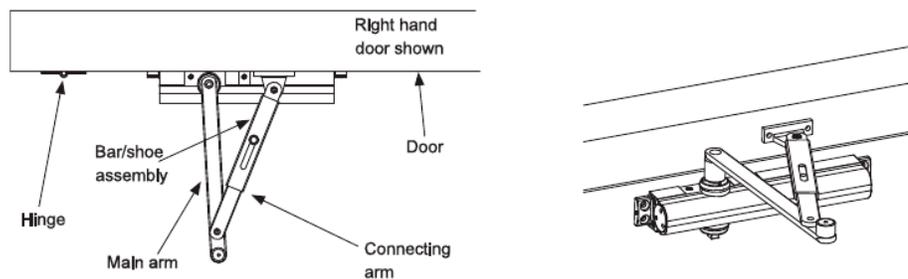
# RHDSTP ARM INSTALLATION

## Cushion Heavy Duty Stop Arm

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

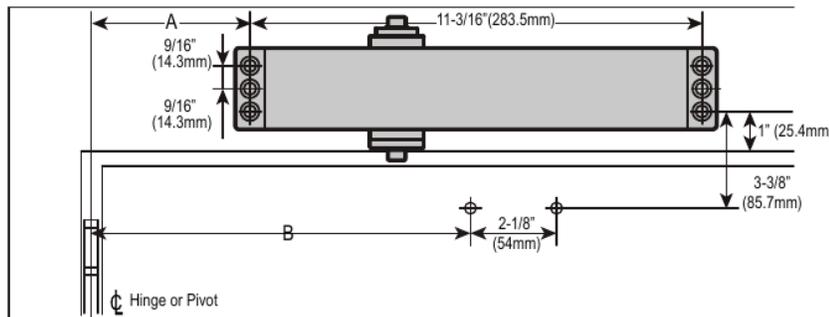


| OPENING | DIM A                 | DIM B                |
|---------|-----------------------|----------------------|
| TO 85°  | 6-1/4"<br>(158.6mm)   | 14-5/16"<br>(364mm)  |
| TO 90°  | 5-5/8"<br>(142.6mm)   | 14"<br>(355mm)       |
| TO 95°  | 4-13/16"<br>(122.6mm) | 13-11/16"<br>(348mm) |
| TO 100° | 5-3/4"<br>(145.6mm)   | 13-1/16"<br>(332mm)  |
| TO 105° | 4-1/4"<br>(107.6mm)   | 12-3/4"<br>(323mm)   |
| TO 110° | 4-1/8"<br>(104.6mm)   | 12-5/16"<br>(313mm)  |

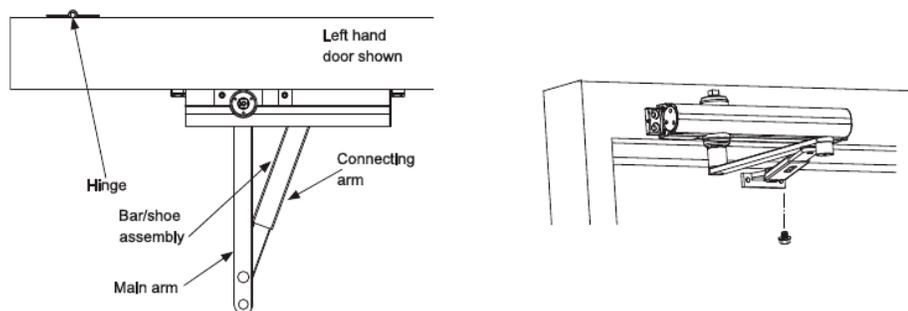


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



| OPENING | DIM A               | DIM B                |
|---------|---------------------|----------------------|
| TO 85°  | 6-7/8"<br>(174.6mm) | 13-3/8"<br>(339mm)   |
| TO 90°  | 6-1/8"<br>(155.6mm) | 12-13/16"<br>(326mm) |
| TO 95°  | 5-7/8"<br>(149.6mm) | 12-7/16"<br>(316mm)  |
| TO 100° | 5-5/8"<br>(142.6mm) | 12"<br>(304mm)       |
| TO 105° | 5-3/8"<br>(136.6mm) | 11-11/16"<br>(297mm) |
| TO 110° | 5-1/8"<br>(129.6mm) | 11-7/16"<br>(291mm)  |



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## Dummy Trim Free-Wheeling

---

Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: AU-628F

### Attributes

---

Dummy Trim Free-Wheeling

Item Type: AU-628F

#### DIMENSIONS

Width: 3"

Height: 10-1/4"

Thickness: 13/16"

#### MATERIAL / FINISH

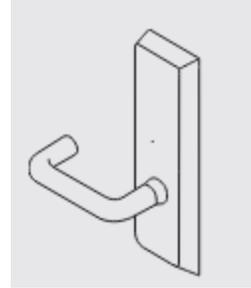
Finish: 630

#### PERFORMANCE

Best Practices: Certified ANSI/BHMA A156.3, Grade 1.

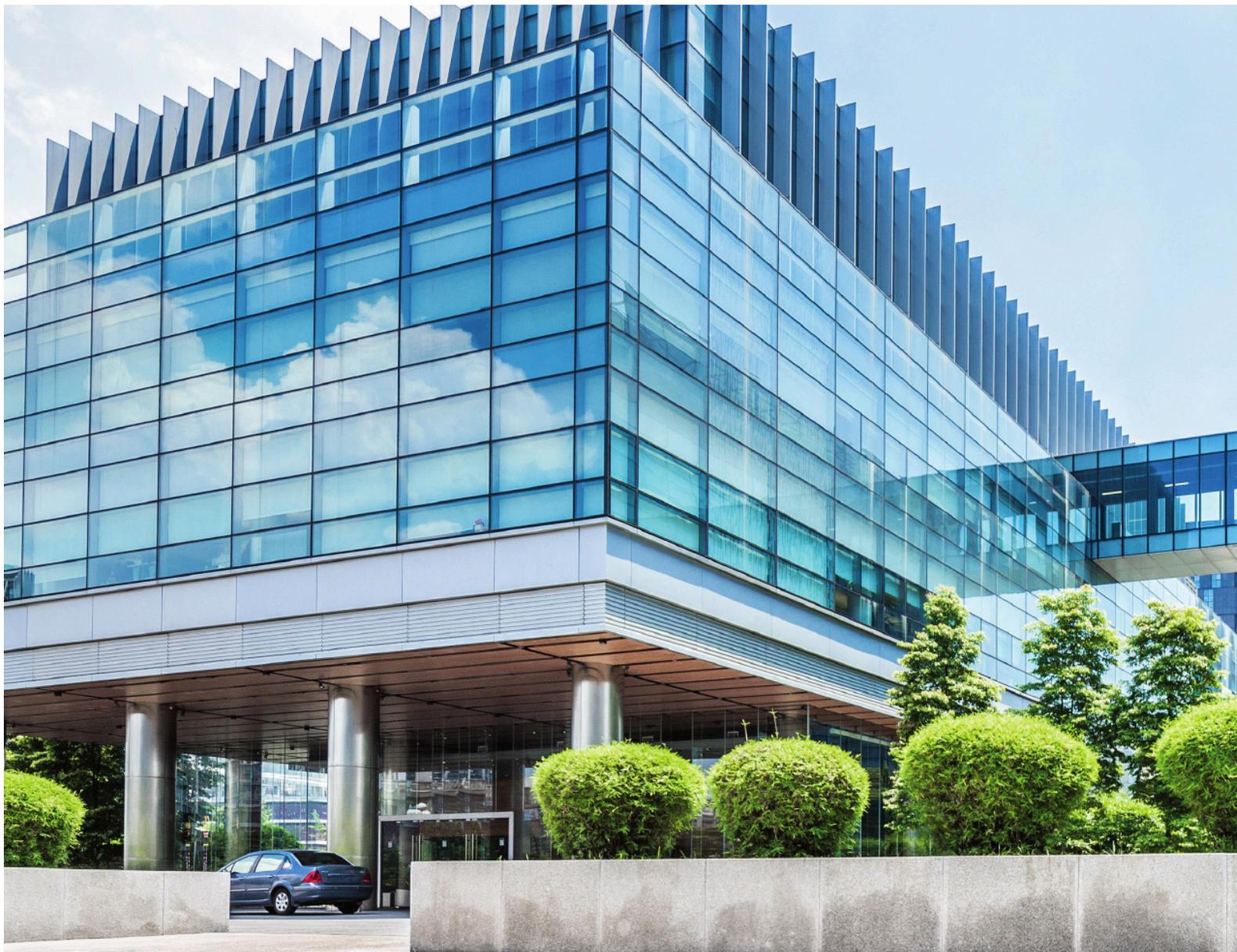
#### MISCELLANEOUS

Warranty: 5-year limited warranty.





# 7000 Series Architectural Exit Device



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## 7000 Series Exit Devices

Yale® 7000 Series Exit Devices deliver an unparalleled combination of durability, innovation and aesthetics. With ANSI/BHMA Grade 1 certification and a full range of mechanical and electromechanical functions and accessories, the 7000 Series can be easily integrated into existing security or fire alarm systems to ensure the safety of every opening. The simple, clean lines and variety of available finishes suit the modern decor of any commercial building.

When the beauty of your facility matters almost as much as life safety, Yale Works for You<sup>SM</sup>.

# Introduction



Yale® Commercial Solutions offers innovative and reliable products to solve the challenges of commercial, retail, hospitality, assisted living, mixed-use, and multi-family properties. With over 150 years of door hardware experience, Yale's expertise extends beyond products to people - and provides the service and support you expect.

Featuring durable products to meet all your facilities' requirements - and the quality you expect from a leader in the hardware industry. Yale works for you<sup>SM</sup>.

| Yale Exit Devices  |   |   |  |
|--|---|---|--|
| 6000 Series  | 2100 Series   | 1800 Series   | 1500 Series  |
|    |   |    |    |
| <ul style="list-style-type: none"> <li>• Ideal for facilities that require modern form and full functionality to meet their life safety needs</li> <li>• Wide &amp; Narrow Stile Applications</li> <li>• Rim, Squarebolt, CVR, SVR &amp; Mortise</li> <li>• Mechanical &amp; Electro-Mechanical Functions</li> <li>• Aluminum rail assembly with Architectural Metals</li> <li>• Solid Cast Flush End Cap</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• 10 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for commercial applications and budget conscious end users</li> <li>• Narrow &amp; Wide Stile Applications</li> <li>• Rim, Squarebolt, CVR &amp; SVR</li> <li>• Mechanical Functions</li> <li>• ANSI/BHMA Grade 1 Certified</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Architectural &amp; Painted Finishes</li> <li>• 3 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for back of the house where function and code compliance are the requirement</li> <li>• Wide Stile Applications</li> <li>• Rim &amp; SVR</li> <li>• Mechanical Functions</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Powder-coat Painted Finishes</li> <li>• 1 Year Warranty</li> </ul> | <ul style="list-style-type: none"> <li>• Ideal for renovation projects where historical preservation is the desired look</li> <li>• Wide Stile Applications</li> <li>• Rim, CVR, SVR &amp; Mortise</li> <li>• ANSI/BHMA Certified Grade 1</li> <li>• UL Rated for Panic &amp; Fire</li> <li>• Architectural &amp; Painted Finishes</li> <li>• 1 Year Warranty</li> </ul> |



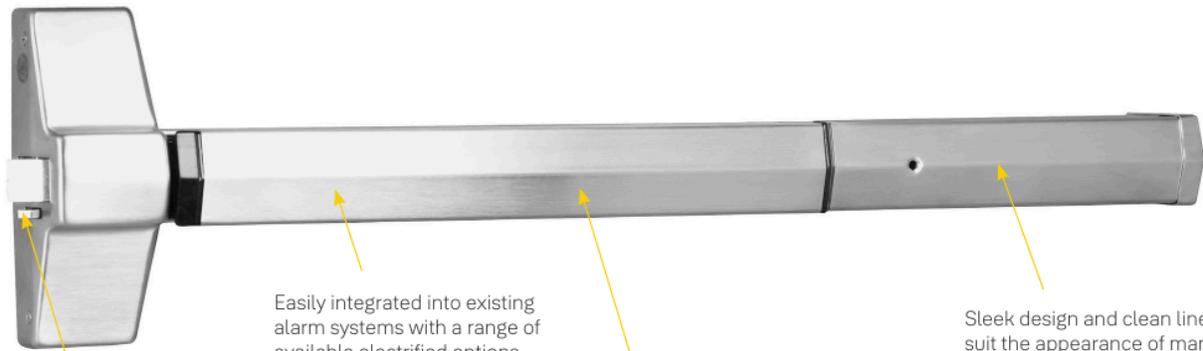
# Benefits & Features

## Benefits

- **Innovative:** Featuring patented security options including SquareBolt® latchbolt and delayed egress function
- **Durable:** Heavy-duty steel components are ANSI/BHMA Grade 1 certified for the ultimate in strength and security
- **Flexibility:** Various options available to customize this exit device to suit any opening
- **Clean, modern look:** Sleek design with a variety of attractive finish options to suit any decor

## Features

- High quality steel chassis and heavy-duty components
- Full range of mechanical and electromechanical options to suit any life safety application and pair with existing security systems
- ANSI/BHMA Grade 1 certified
- UL/cUL listed for panic and fire doors
- Windstorm certified (refer to local codes)  Hurricane
- Five year mechanical warranty, one year trim warranty, two year warranty on electrical options and components



Available with various configurations including rim, SquareBolt®, surface/ concealed vertical rod, to suit any opening

Easily integrated into existing alarm systems with a range of available electrified options

Constructed with high quality steel and heavy-duty components for durability

Sleek design and clean lines suit the appearance of many modern commercial buildings

## Now Available with Motorized Electric Latch Retraction!

The Motorized Electric Latch Retraction (MELR) feature provides remote-controlled latch retraction that delivers quiet, smooth operation for convenient, hassle-free egress. Easily installed in new applications and available as retrofit rail kit assemblies for field updates, the MELR features maintenance-free design with few moving parts using 86% less power consumption during retraction than solenoid devices. Plus, MELR is powered by a standard power supply, simplifying installation and increasing system design flexibility. See page 32 for more details.



# Finishes



| ANSI/BHMA Code<br>Finish Description              |  |   |   |   |  |
|---|--|---|---|---|--|
| <b>605</b><br>Bright Brass,<br>Clear Coated       | <b>611</b><br>Bright Bronze, Clear<br>Coated | <b>612</b><br>Satin Bronze, Clear<br>Coated | <b>613E</b><br>Dark Oxidized Satin<br>Bronze - equivalent | <b>619*</b><br>Satin Nickel Plated,<br>Clear Coated | <b>625</b><br>Bright Chrome Plated<br>(540F trim only) |
|   |  |   |   |   |  |
| <b>626*</b><br>Satin Chrome Plated<br>(Trim only) | <b>629</b><br>Bright Stainless Steel         | <b>630*</b><br>Satin Stainless Steel        | <b>693</b><br>Black Painted                               | <b>BSP</b><br>Black Suede<br>Powder Coat            | <b>WSP</b><br>White Suede<br>Powder Coat               |
|   |  |   |   |   |  |

613, 626 and 722 finishes available as Special Product Requests only. Please contact Customer Service for more information.

\*Finish available with MicroShield® antimicrobial coating, additional finishes by special application. Consult factory for availability.

MicroShield coating may vary finish color from architectural standards. MicroShield is not intended as a substitute for traditional infection control programs such as hand hygiene or use of disinfectants. Coated products must still be cleaned to ensure the surfaces will be free of destructive microbes. Yale makes no representations or warranties, express or implied, as to the efficacy of MicroShield.

## Finishes For Touchbar Covers Only

| ANSI/BHMA Code  | Finish Description             |
|-----------------|--------------------------------|
| BN <sup>3</sup> | Semi-gloss black fused polymer |
| LUM             | Lumi-lite Photoluminescence    |
| SS              | Stainless Steel                |

## Lumi-Lite

Lumi-lite uses photoluminescence technology to provide visibility of exit doors in low-light, no light or smoky conditions. Lumi-lite can be ordered with your 7000 Series Exit Device or easily retrofitted to existing devices. See Lumi-lite Touchpad Cover on page 57 for more information.



# How To Order



From this outline select the Model Number for the Yale® 7000 Exit Device Series you require.

| 7 | X   | X   | X  | Mechanical/Electrical  | Size | Design                             | Trim                     | Finish            | Other Info.  |
|---|---|---|--|--|------|------------------------------------|--------------------------|-------------------|--|
|   | <b>Second Digit:</b><br>"1" - Standard device, 4-1/2" (114mm) or wider door stile.<br><br>"2" - Narrow stile door or narrow escutcheon trim (500F, 510F Series) | <b>Third Digit:</b><br>"0" - Rim Device, Pullman Latch<br><br>"1" - SVR Device up to 8'<br><br>"2" - CVR Device, Metal Doors up to 8'<br><br>"3" - Mortise Device<br><br>"5" - SquareBolt®, Rim Security<br><br>"6" - CVR Device over 8', wood door or LBR<br><br>"7" - SVR Device over 8' or LBR | <b>Fourth Digit:</b><br>"0" - Standard<br><br>"5" - Cylinder Dogging (Not with suffix "F") | <b>Mechanical Feature</b> <br>"F" - Fire Exit Device<br><br>"M" - Narrow escutcheon trim in 4-1/2" (114mm) or wider door stile<br><br>"LBR" - Less Bottom Rod <sup>2</sup><br><br>"L5" - Mortise Device, Entry by Key with/without Rigid Lever <sup>1</sup><br><br>"L8" - Mortise Device, Entry by Lever<br><br>"T5" - Mortise Device with Thumbpiece Trim<br><br>"T8" - Mortise Device, Active Thumbpiece Trim<br><br>"2" - Double Cylinder Device <sup>3</sup><br><br>"WS" - Windstorm Certified Products <sup>5, 6, 7</sup><br><br><b>Electrical Feature</b><br>"-A" - Alarm Kit<br>"-B" - Bar Monitor or Signaling<br>"-D" - Delayed Egress<br>"-G" - Electric Dogging<br>"-O" - Outside Trim Monitor or Signaling<br>"-MELR" - Motorized Electric Latch Retraction<br>"-S" - Latchbolt Status Monitor or Signaling<br>"-Safe" - Mortise Device Trim Control (lever only)<br>"-Secure" - Mortise Device Trim Control (lever only) |      | <b>Trim Design</b><br>(Lever only) | <b>Trim Model Number</b> | <b>See page 4</b> | <b>Other Information:</b><br><b>Door Hand</b> - RHR or LHR<br><br><b>Door Thickness</b> - Over 1-3/4" (45mm)<br><br><b>Fastener Options</b> - TORX® Security Screws SNB (wood, composite, or unreinforced metal doors)<br><br><b>Specialty Cylinders &amp; Components</b><br><br><b>Lumi-lite:</b> LUM |

## Ordering Examples

### Exit Device Only

7150D-36 x 619 x RHR x SNB

### Exit Device with Trim and Cylinder\*

7170F90-9-48 x AU626F x 605 x LHR x 1109 GA 0-bit

### Trim Only

MO656F x 630 x RHR x LC

### Double Cylinder Exit Device with Trim

7150F-2-36 x AU626F x 630

\*Yale® exit devices and trims are processed separately. To aid in order processing, the device, trim and cylinder should be detailed as separate line items. These items can be ordered on one line item as shown, but they will be entered to the factory and acknowledged separately.

It is recommended that exit devices and trim for the same opening be ordered together. Standard product is for 1-3/4" (44mm) reinforced metal doors. Accessories detached from the device and trim should be specified separately. Materials by others are required to be fit for the purpose as detailed in this catalog and the product installation literature.

### Notes:

1. Required for electrical feature, Suffix "-SAFE" or "-SECURE".
2. LBR available on 7160(F90) and 7170(F90) devices only.
3. For double cylinder devices, suffix "-2" after fourth digit.
4. If "-24" device is to be used with a DOW greater than 24", the device will ship without UL label. The 12" touchpad will not cover 50% of the device touchbar length.
5. "WS" applies only to 7150(F), 7250M(F) and 7170(F) devices.
6. Maximum opening size 8'0" x 8'0".
7. Contact Ceco, Curries® or Fleming for detailed frame/door requirements and limitations.

# 7110(F) Surface Vertical Rod



The 7110(F) is a surface vertical rod exit device to be used on wide stile or flush doors up to 8' (fire) and 10' (panic) where two-point latching is desired.

## Features

- Designed for wide stile and flush doors
- Handed. Specify hand (field reversible)
- Bottom deadbolt for secure latching
- Fully adjustable roller strike

## Applications

- Pairs of doors
- Double egress
- Metal, wood or composite door materials



## Specifications

|                            |  |
|----------------------------|--|
| <b>Door Opening Width</b>  | -24 for 24" (60cm) doors<br>-36 for 30" - 36" (76cm - 91cm) doors<br>-48 for 36" - 48" (91cm - 122cm) doors<br>Optional sizes can be special ordered. Consult Technical Product Support.   |
| <b>Door Opening Height</b> | Standard door height 7' (213cm), with the device centerline at 39-15/16" (101cm) from floor. Optional heights up to 8' (fire) and 10' (panic) available by using rod extensions. For fire rated openings over 8', see 7170F SVR. |
| <b>Door Thickness</b>      | 1-3/4" (44mm) standard. Optional door thicknesses available to 4-1/2"; specify door thickness when ordering.   |
| <b>Minimum Stile Width</b> | 4-1/2" (114mm)   |
| <b>Projection</b>          | 3-1/4" (83mm) active, 2-3/4" (70mm) dogged   |
| <b>Latchbolt</b>           | Top: 3/4" (19mm) throw, pullman-type with automatic deadlatching<br>Bottom: 5/8" (16mm) throw deadbolt, held retracted during door swing   |
| <b>Vertical Rods</b>       | 1/2" O.D. tubular brass, bronze or stainless steel with rod guides   |
| <b>Strike</b>              | Top: Roller type 791. Bottom: Flush mounted 790. 794 floor strike optional (threshold openings).   |
| <b>Fasteners</b>           | Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.   |
| <b>Trims</b>               | 620F series escutcheon trim, 630F series pull/thumbpiece trim, 680F series offset pull trim, 540F series rose trim. See pages 22-24.   |
| <b>ANSI/BHMA</b>           | Certified A156.3 Type 2, Grade 1   |
| <b>UL/cUL</b>              | FVSR/FVSR7 - Panic hardware; GXHX/GXHX7 - Fire exit hardware (F) (8' x 8' pairs, 3 hr.)  |
| <b>Dogging</b>             | Hex key dogging supplied standard on panic devices   |
| <b>Options</b>             | Cylinder dogging, shim kit #724, sex nuts and bolts, rod extensions, bottom pullman latch (panic only)<br>MicroShield®, Lumi-lite  |
| <b>Warranty</b>            | 5-year limited   |





## Escutcheons

| 480F Series                 | 500F Series            | 510F Series            | 620F/650F Series       | 630F/660F/670F Series     | 680F Series            |
|-----------------------------|------------------------|------------------------|------------------------|---------------------------|------------------------|
|                             |                        |                        |                        |                           |                        |
| Projection: 2-13/32" (61mm) | Projection: see levers | Projection: see levers | Projection: see levers | Projection: 2-1/8" (54mm) | Projection: see levers |

## Roses

### 540F Series



Projection: 3-1/2" (89mm)

## Standard Trims

All Yale exit device trims (except mortise trim) feature the unique Free-Wheeling lever mechanism, similar to our 5400LN cylindrical lock. This Free-Wheeling trim features a clutch mechanism which allows the lever to float down 60 degrees when operated in the locked condition, improving vandal resistance.

|                            |                           |                            |
|----------------------------|---------------------------|----------------------------|
| <b>Arcadia AR</b>          | <b>Augusta AU</b>         | <b>Carmel CR</b>           |
|                            |                           |                            |
| Projection: 3-1/4" (82mm)  | Projection: 2-5/8" (61mm) | Projection: 3-1/8" (79mm)  |
| <b>Jefferson JN</b>        | <b>Monroe MO</b>          | <b>Pacific Beach PB</b>    |
|                            |                           |                            |
| Projection: 2-9/16" (65mm) | Projection: 3" (76mm)     | Projection: 3-5/16" (84mm) |
| <b>Pinehurst PN</b>        | <b>Virginia VI</b>        | <b>Hampton HA</b>          |
|                            |                           |                            |
| Projection: 3-1/16" (78mm) | Projection: 3-1/8" (79mm) | Projection: 3-3/8" (86mm)  |

Note: Projection dimensions are provided using the 620F series escutcheon plates.

# 7100 Series Trims



## 620F and 650F Series Escutcheon Trim



- Certified ANSI/BHMA A156.3, Grade 1.
- Trim thrubolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon and Free-Wheeling trim resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Dimensions: 3" x 10-1/4" x 13/16" (76mm x 260mm x 19mm).
- Cylinders not included. See page 45-48 for cylinder options. 1-1/2" mortise cylinder required for mortise trim.
- Available with AR, AU, CR, JN, MO, PB, PN, VI and HA lever designs. See page 22.
  - Finishes: 605, 606, 611, 612, 613E, 619, 626, 629, 630, 693, BSP
- Available with Reflections® lever designs. See page 21.
  - Finishes: 605, 606, 611, 612, 613E, 619, 626, 629, 630, BSP
- Trim ordering example: AU626F x 626 x RHR.
- 5-year limited warranty.



| Application  | Cylinder         | Classroom/<br>Storeroom<br>Cylinder<br>Controls<br>Thumbturn | Exit Only<br>Blank<br>Plate | Nightlatch<br>Access<br>by Key | Classroom<br>Cylinder<br>Controls<br>Lever | Storeroom<br>Cylinder<br>Controls<br>Lever | Nightlatch<br>Cylinder<br>by Lever | Passage | Dummy<br>Trim<br>Free-<br>Wheeling | Dummy<br>Rigid<br>Lever |
|--|------------------|--|-----------------------------|--------------------------------|--|--|------------------------------------|---------|------------------------------------|-------------------------|
| 7100(F)<br>7150(F)<br>7110(F)<br>7120(F)<br>7160(F)<br>7170(F) | Rim              | 603F <sup>1</sup>  | 620F                        | 621F <sup>2</sup>              | 626F                                       | 626F <sup>1</sup>                          | 627F <sup>2</sup>                  | 628F    | 628F <sup>1</sup>                  | 629F                    |
| 7130(F)  | Mortise          | —  | 620F                        | 651F                           | 656F                                       | —  | 656F                               | 658F    | —                                  | 658F                    |
| 7100(F)-2<br>7150(F)-2   | Rim x Rim        | —  | —                           | —                              | 626F                                       | —  | —                                  | —       | —                                  | —                       |
| 7130(F)-2  | Mortise x<br>Rim | —  | —                           | —                              | 656F                                       | —  | —                                  | —       | —                                  | —                       |
| ANSI   |                  | 11/12  | 01                          | 03                             | 08   | 09   | 03                                 | 14      | 02                                 | 02                      |

1. 09, 12 and Free Wheeling 02 achieved with single trim modification at installation.  
 2. Not recommended for use with vertical rod devices.  
 3. 08 only  
 For 626, 629 & 630 finishes the escutcheon is plated to simulate stainless steel.  
 For 629 & 630 finishes the standard levers are plated to simulate stainless steel.  
 Free-Wheeling is not available on mortise trim.  
 For 620F series trim, optional door thickness available up to 4-1/2", specify on order.



# Functions

## Lever Trims

| SquareBolt®<br>7150(F)<br>7250<br>7250M(F)<br>Inside Outside |  | Rim<br>7100(F)<br>7200<br>7200M(F)<br>Inside Outside |  | Surface Vertical Rod<br>7110(F)<br>7170(F)<br>7210<br>7210M(F)<br>Inside Outside |  | Concealed Vertical Rod<br>7120(F)<br>7160(F)<br>7220<br>7220M(F)<br>Inside Outside |  | Mortise<br>7130(F) | Type                      | ANSI Function No. | Function Description   |
|--|--|--|--|--|--|--|--|--------------------|---------------------------|-------------------|--|
|  |  |  |  |  |  |  |  |                    | Exit Only/<br>Blank Plate | 01<br>-           | Exit only, no trim.<br>Exit only, blank plate.   |
|  |  |  |  |  |  |  |  |                    | Dummy                     | 02                | Entrance by trim when<br>actuating bar is locked<br>down.  |
|  |  |  |  |  |  |  |  |                    | Nightlatch                | 03                | Entrance by trim when<br>latchbolt is retracted by<br>key. Key removable only<br>when locked.    |
|  |  |  |  |  |  |  |  |                    | Classroom                 | 08                | Entrance by lever. Key<br>locks or unlocks lever.  |
|  |  |  |  |  |  |  |  |                    | Storeroom                 | 09                | Entrance by lever only<br>when released by key.<br>Key removable only when<br>locked.            |
|  |  |  |  |  |  |  |  |                    | Passage                   | 14                | Entrance by trim when<br>latchbolt is released by<br>lever. Lever always active,<br>no cylinder. |

Note: 09 and Free-Wheeling 02 achieved with a single modification at installation.

## Double Cylinder Exit Device Lever Trims

| SquareBolt®<br>7150(F)-2<br>Inside Outside |  | Rim<br>7100(F)-2<br>Inside Outside |  | Mortise<br>7130(F)-2<br>Inside Outside |  | Type      | ANSI Function No. | Function Description  |
|--|--|------------------------------------|--|--|--|-----------|-------------------|---|
|  |  |                                    |  |  |  | Classroom | 08                | Entrance by lever. Key either side<br>locks or unlocks lever. |

# Functions



| SquareBolt®<br>7150(F)<br>7250<br>7250M(F)<br>Inside Outside | Rim<br>7100(F)<br>7200<br>7200M(F)<br>Inside Outside | Surface Vertical<br>Rod<br>7110(F)<br>7170(F)<br>7210<br>7210M(F)<br>Inside Outside | Concealed<br>Vertical Rod<br>7120(F)<br>7160(F)<br>7220<br>7220M(F)<br>Inside Outside | Mortise<br>7130(F) | Type                      | ANSI<br>Function<br>No. | Function Description   |
|--|--|---|---|--------------------|---------------------------|-------------------------|--|
|  |  |   |   |                    | Exit Only/<br>Blank Plate | 01<br>-                 | Exit only, no trim.<br>Exit only, blank plate.   |
|  |  |   |   |                    | Dummy/<br>Pull Plate      | 02                      | Entrance by trim when<br>actuating bar is locked<br>down.  |
|  |  |   |   |                    | Nightlatch                | 03                      | Entrance by trim when<br>latchbolt is retracted by key.<br>Key removable only when<br>locked.              |
|  |  |   |   |                    | Classroom                 | 05                      | Entrance by thumbpiece.<br>Key locks or unlocks<br>thumbpiece.   |
|  |  |   |   |                    | Storeroom                 | 06                      | Entrance by thumbpiece<br>only when released by key.<br>Key removable only when<br>locked.                 |
|  |  |   |   |                    | Passage                   | 15                      | Entrance by trim when latch<br>is released by thumbpiece.<br>Thumbpiece is always active,<br>no cylinder.  |
|  |  |   |   |                    | Classroom                 | 11                      | Entrance by control turn<br>piece. Key locks or unlocks<br>control.  |
|  |  |   |   |                    | Storeroom                 | 12                      | Entrance by control turn<br>piece only when released by<br>turning key. Key removable<br>only when locked. |



## 7100 Series

The 7100 is the perfect choice for wide stile panic and fire-rated applications. The smooth architectural lines provide pleasing aesthetics to accent a building's appearance, and looks aren't always deceiving. Beneath the strong exterior lie the components to meet the demanding security and access control needs of today. The delayed egress option is just one of the many electromechanical options offered to enhance security. Complementing the 7100 series with the 600F series heavy-duty trim completes the package for a heavy-duty, security hardware package.

## Applications

| Single Door                   | UL Listing | Maximum Opening | Application  |   |  |
|-------------------------------|------------|-----------------|--|---|--|
| <b>SquareBolt®</b>            |            |                 |  |   |  |
| 7150/7150-2                   | Panic      | 4' x *          | Surface applied; single-point latching.  |   |  |
| 7150F/7150F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| 7150WS                        | Panic      | 4' x 8'         | Surface applied; single-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |   |  |
| 7150FWS                       | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Rim</b>                    |            |                 |  |   |  |
| 7100/7100-2                   | Panic      | 4' x *          | Surface applied; single-point latching.  |   |  |
| 7100F/7100F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Mortise</b>                |            |                 |  |   |  |
| 7130/7130-2                   | Panic      | 4' x *          | Mortised in door; single-point latching.   |   |  |
| 7130F/7130F-2                 | 1-1/2 Hr.  | 4' x 9'         |  |   |  |
| 7130F/7130F-2                 | 3 Hr.      | 4' x 8'         |  |   |  |
| <b>Surface Vertical Rod</b>   |            |                 |  |   |  |
| 7110                          | Panic      | 4' x 8'         | Surface applied; two-point latching.   |   |  |
| 7170                          | Panic      | 4' x 10'        |  |   |  |
| 7170 x LBR                    | Panic      | 4' x 10'        | Surface applied; one-point latching.   |   |  |
| 7170WS                        | Panic      | 4' x 8'         | Surface applied; two-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes).    |   |  |
| <b>Concealed Vertical Rod</b> |            |                 |  |   |  |
| 7120                          | Panic      | 4' x 8'         | Rods concealed in door; two-point latching.  |   |  |
| 7160                          | Panic      | 4' x 10'        |  |   |  |
| 7160 x LBR                    | Panic      | 4' x 10'        |  | Rods concealed in door; one-point latching. |  |

\*UL does not set a door height limitation on panic applications.

| Pair of Doors with Removable Mullion | UL Listing | Maximum Opening | Application   |  |
|--------------------------------------|------------|-----------------|---|--|
| <b>SquareBolt® x SquareBolt®</b>     |            |                 |   |  |
| 7150 x 7150 x M200 Series            | Panic      | 8' x 10'        | Two independent active doors with removable mullion.  |  |
| 7150F x 7150F x M200F Series         | 3 Hr.      | 8' x 8'         |   |  |
| 7150WS x 7150WS x M200FWS            | Panic      | 8' x 8'         | Two independent active doors with removable mullion. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |  |
| 7150FWS x 7150FWS x M200FWS          | 3 Hr.      | 8' x 8'         |   |  |
| <b>Rim x Rim</b>                     |            |                 |   |  |
| 7100 x 7100 x M200 Series            | Panic      | 8' x 10'        | Two independent active doors with removable mullion.  |  |
| 7100F x 7100F x M200F Series         | 3 Hr.      | 8' x 8'         |   |  |

# Applications



| Pair of Doors                                 | UL Listing | Maximum Opening | Application  |  |
|---|------------|-----------------|--|--|
| <b>Surface Vertical Rod</b>                   |            |                 |  |  |
| 7110 x 7110                                   | Panic      | 8' x 8'         | Two independent doors with two-point latching, swinging in the same direction.   |  |
| 7110F x 7110F                                 | 3 Hr.      | 8' x 8'         |  |  |
| 7170 x 7170                                   | Panic      | 8' x 10'        | Two independent doors with one- or two-point latching, swinging in the same direction.   |  |
| 7170F90 x 7170F90                             | 1-1/2 Hr.  | 8' x 10'        |  |  |
| 7170F x 7170F                                 | 3 Hr.      | 8' x 8'         | Two independent doors with two-point latching, swinging in opposite directions. Used as components in swinging door windstorm-rated assemblies (refer to local codes). |  |
| 7170WS x 7170WS                               | Panic      | 8' x 8'         |  |  |
| 7170FWS x 7170FWS                             | 1-1/2 Hr.  | 8' x 8'         |  |  |
| <b>Surface Vertical Rod (Double Egress)</b>   |            |                 |  |  |
| 7110 x 7110                                   | Panic      | 8' x 8'         | Two independent doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.                                     |  |
| 7110F x 7110F                                 | 3 Hr.      | 8' x 8'         |  |  |
| 7170 x 7170                                   | Panic      | 8' x 10'        | Two independent doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.   |  |
| 7170F90 x 7170F90                             | 1-1/2 Hr.  | 8' x 10'        |  |  |
| 7170F x 7170F                                 | 3 Hr.      | 8' x 8'         |  |  |
| <b>Surface Vertical Rod x Mortise</b>         |            |                 |  |  |
| 7110 x 7130                                   | Panic      | 8' x 8'         | Overlapping astragal required for 3-hour openings. Coordinator required with standard ANSI strike.   |  |
| 7110F x 7130F                                 | 3 Hr.      | 8' x 8'         |  |  |
| 7110F x 7130F x Open Back Strike              | 1-1/2 Hr.  | 8' x 8'         | Overlapping astragal required for fire-rated openings. Coordinator required with standard ANSI strike.   |  |
| 7170 x 7130                                   | Panic      | 8' x 10'        |  |  |
| 7170F90 x 7130F                               | 1-1/2 Hr.  | 8' x 9'         |  |  |
| <b>Concealed Vertical Rod</b>                 |            |                 |  |  |
| 7120 x 7120                                   | Panic      | 8' x 8'         | Two independent metal doors with two-point latching, swinging in the same direction.   |  |
| 7120F x 7120F                                 | 3 Hr.      | 8' x 8'         |  |  |
| 7160 x 7160                                   | Panic      | 8' x 10'        | Two independent metal or wood doors with one- or two-point latching, swinging in the same direction.   |  |
| 7160F90 x 7160F90                             | 1-1/2 Hr.  | 8' x 10'        |  |  |
| 7160F x 7160F                                 | 3 Hr.      | 8' x 8'         |  |  |
| <b>Concealed Vertical Rod (Double Egress)</b> |            |                 |  |  |
| 7120 x 7120                                   | Panic      | 8' x 8'         | Two independent metal doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.                               |  |
| 7120F x 7120F                                 | 3 Hr.      | 8' x 8'         |  |  |
| 7160 x 7160                                   | Panic      | 8' x 10'        | Two independent metal or wood doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.                               |  |
| 7160F90 x 7160F90                             | 1-1/2 Hr.  | 8' x 10'        |  |  |
| 7160F x 7160F                                 | 3 Hr.      | 8' x 8'         |  |  |

# Sample Specifications



## Specification

Exit devices shall be 7000 Series Pushpad Exit Devices as manufactured by Yale Locks & Hardware.

The exit device chassis shall be cold forged steel, electroplated for corrosion resistance, and shall be architecturally finished brass, bronze or stainless steel. The pushpad mechanism shall be constructed of extruded aluminum and shall be scalped with architecturally finished brass, bronze or stainless steel. The maximum projection shall be 3-1/4" when the pushpad is active and 2-3/4" when the pushpad is dogged down. Nylon bearings and stainless steel springs shall be used for long life and durability; only torsion springs are acceptable. Rear and active case covers shall be wrought brass or bronze and shall be plated to match the exit bar. Plastic or painted covers are not acceptable. Latchbolts shall be steel and shall incorporate a deadlocking latch for increased security. Devices without deadlocking latches are not acceptable. Mounting screws shall be concealed to deter tampering. Devices shall be closed on all sides with no pinch points. Exit devices shall be easily field sized to accommodate various door widths.

Panic-listed exit devices shall have single point, one quarter turn hex key dogging standard. Optional cylinder dogging shall be available on panic listed devices. Devices with hex key dogging shall be easily field converted to cylinder dogging. Panic listed devices shall be available less dogging.

Trims shall be throughbolted with concealed fasteners. Escutcheon and pull-type trims shall be constructed of brass or bronze. All lever trims shall use cast or forged levers. On rim, SquareBolt® and vertical rod trims with cylinders, the mechanism that locks and unlocks the trim shall be housed in the trim and not in the active case of the exit device. Lever trims (except mortise) shall be Free-Wheeling with clutch mechanism allowing lever to rotate 60° when locked for ideal protection. Lever trims shall match those on Yale® mortise and cylindrical locksets.

Exit devices and trims shall be furnished in ANSI/BHMA standard architectural finishes.

Exit devices shall be listed by Underwriters Laboratories (UL) for safety as panic hardware. Fire-rated devices shall be listed for A label and lesser class doors.

Certification:  
ANSI/BHMA A156.3, Grade 1

Devices, trims and cylinders shall be from one manufacturer.

Devices and 600 Series trim shall carry a five-year limited warranty.

500 Series trim shall carry a one-year limited warranty.

Electronic components shall carry a two-year limited warranty.

## Delayed Egress Specification

Delayed egress exit devices shall be 7100/7200 Series (rim, SquareBolt®, mortise or concealed vertical rod) with the "D" suffix, manufactured by Yale Locks & Hardware.

The delayed egress device secures the door in the locked mode. Depressing the pushpad for less than three seconds will sound the device siren without initiating the alarm. Depressing the pushpad longer than three seconds will initiate an irreversible local audible beeping tone and allow the device to release for egress after 15 seconds. The alarm will continue until reset by the mechanical key switch located on the device. (When acceptable by local code agency, the delay period may be increased to 30 seconds, or other approved amount of time. Consult factory.)

Devices shall be 24 volts DC.

The exit device chassis shall be cold forged steel, electroplated for corrosion resistance, and shall be architecturally finished brass, bronze or stainless steel. The pushpad mechanism shall be constructed of extruded aluminum and shall be scalped with architecturally finished brass, bronze or stainless steel. The maximum projection shall be 3-1/4" when the pushpad is active and 2-3/4" when the pushpad is depressed. Nylon bearings and steel springs shall be used for long life and durability. Active case and alarm end cover shall be wrought brass, bronze or stainless steel and shall be plated to match the exit bar. Painted or plastic covers or end caps are not acceptable. Latchbolts shall be steel and shall incorporate a deadlocking latch for increased security. Devices without deadlocking latches are not acceptable. Mounting screws shall be concealed to deter tampering. Devices shall be closed on all sides with no pinch points. Device active cover and end cap attaching screws shall be security TORX®. When required, door position switches used on rim or SquareBolt devices shall be incorporated into the latch assembly of the device to allow added security.

Trims shall be thru-bolted with concealed fasteners. Escutcheon and pull-type trims shall be constructed of brass, bronze or stainless steel. All lever trims shall use cast or forged levers. On rim, SquareBolt and vertical rod trims with cylinders, the mechanism that locks and unlocks the trim shall be housed in the trim and not in the active head of the exit device. Lever trims shall match those on Yale mortise and cylindrical locksets. Lever trims (except mortise) must have a clutch or Free-Wheeling spring assembly when in the locked mode for ideal protection and reduced damage to the trim. Rigid lever trims are not acceptable.

Exit devices, trims and cylinders must be from one manufacturer.

---

Manufacturer: Cal-Royal Door Hardware  
Style/Series: PAS30L

---

### Sales Rep

#### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

---

### Attributes

Item Type: PAS30L

#### DIMENSIONS

Length: 4-3/4"

Diameter: 3-1/2"

#### MATERIAL / FINISH

Finish: US26D Satin Chrome

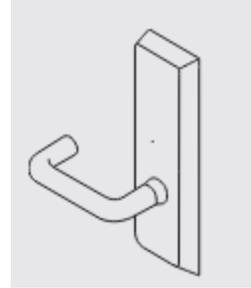
#### PERFORMANCE

Best Practices: Trim always operable and free. ANSI Function - 14

Grade: Non-handed Grade 1

#### MISCELLANEOUS

Lead Time: TBD



## Magnetic Door Holder

---

Manufacturer: Cal-Royal Door Hardware  
Style/Series: MDHR-1

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

Magnetic Door Holder

Item Type: MDHR-1

### DIMENSIONS

Width: 2-3/4"

Height: 4-5/8"

Depth: 1"

### MATERIAL / FINISH

Finish: 689

### PERFORMANCE

Best Practices: Underwriters US and Canada Listed ANSI / BHMA  
A156.15

Power: 30-45 Pound Holding Power

### MISCELLANEOUS

Lead Time: TBD



# MAGNETIC DOOR HOLDER

## Features

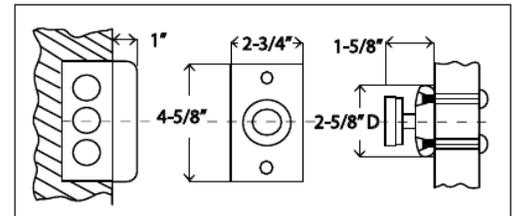
- Tri-voltage (Can be wired 12V DC, 24V AC / DC or 120V AC)
- Can be used on Fire or Smoke Barrier doors Held-Open until released by a Remote Switching device
- Used alternatively as Hold-Open system
- Thru-bolted Armature for Security
- 30-45 Pound Holding Power
- Underwriters US and Canada Listed
- ANSI / BHMA A156.15
- Available in US28 (Brushed Aluminum), Duro and Gold finishes



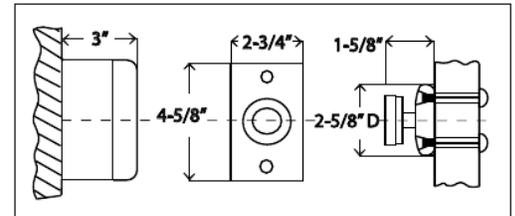
Approved by the California Department of Forestry & Fire in accordance with printed instructions, applicable codes and ordinances in a manner acceptable to the authority having jurisdiction.

### MDHR-1 RECESSED WALL MOUNT

PACKED WITH 1" EXTENSION BOLT



### MDHS-2 SURFACE WALL MOUNT



| PERFORMANCE DATA |       |       |    |
|------------------|-------|-------|----|
| MODEL            | VOLTS | mAmps | VA |
| MDHR-1           | 12 DC | 60    | 72 |
| MDHS-2           |       |       |    |

| ITEM #   | DESCRIPTION   | FINISH               | PCS /MC | UNIT |
|----------|---|----------------------|---------|------|
| MDHR-1   | Magnetic door holder recessed wall mount with 1" extension bolt | US28<br>DURO<br>GOLD | 1       | Ea.  |
| MDHS-2   | Magnetic door holder surface wall mount                         |                      |         |      |
| MDHEXT-3 | Additional 1" Extension Bolt                                    | US28                 |         |      |

| CROSS REFERENCE                               |           |                         |           |                  |        |      |         |                   |          |
|---|-----------|-------------------------|-----------|------------------|--------|------|---------|-------------------|----------|
| FUNCTION                                      | CAL-ROYAL | ABH                     | DORMA     | RIXSON           | NORTON | YALE | SARGENT | CORBIN<br>RUSSWIN | LCN      |
| RECESSED WALL MOUNTED 3 7/8" TOTAL PROJECTION | MDHR-1    | 2100* with 1" extension | EM-F24120 | FM-998           | 6933   | 5933 | 1560    | MA 204<br>MA 244  | SEM 7850 |
| RECESSED WALL MOUNTED 2 7/8" TOTAL PROJECTION | MDHR-1    | 2100                    | EM-F24120 | FM-997           | 6934   | 5934 | 1560    | MA 203<br>MA 243  | SEM 7840 |
| SURFACE WALL MOUNTED 4 7/8" TOTAL PROJECTION  | MDHS-2    | 2300                    | EM-S24120 | FM-996<br>FM-999 | 6935   | 5935 | -       | -                 | SEM 7830 |

## Electromagnetic Door Holder/ Releases

---

Manufacturer: Assa Abloy - Rixson  
Style/Series: 994M

## Sales Rep

---

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

---

Electromagnetic Door Holder/ Releases

Item Type: 994M

### DIMENSIONS

Width: 2"  
Height: 4"  
Thickness: 2-1/2"  
Projection: 3-3/4"

### MATERIAL / FINISH

Finish: 689

### PERFORMANCE

Operation: Adjustable armature rotation up and down, back and forth for better alignment.

Quality Standards: ANSI/BHMA A156.15, Grade 1 ANSI/C00011

### MISCELLANEOUS

Warranty: 2 year limited warranty

Accessories: Cannot be use with 900 base or spacers



CATALOG



ASSA ABLOY

Experience a safer  
and more open world

# ELECTROMAGNETIC DOOR HOLDER/ RELEASES

DESIGNED FOR REMOTE DOOR  
RELEASE APPLICATIONS



# TABLE OF CONTENTS

## ELECTROMAGNETIC DOOR HOLDER/RELEASES

### INTRODUCTION

Norton Rixson offers a wide range of electromagnetic door holders/releases. Designed for virtually any remote door release application, electromagnetic door holders/releases primarily hold fire doors open until released by an alarm or smoke detector.

Floor mounted units are available for single or back-to-back doors. Wall mounted units feature concealed or surface wiring, low profile projection or high hold force.



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## HOW TO SELECT PRODUCT

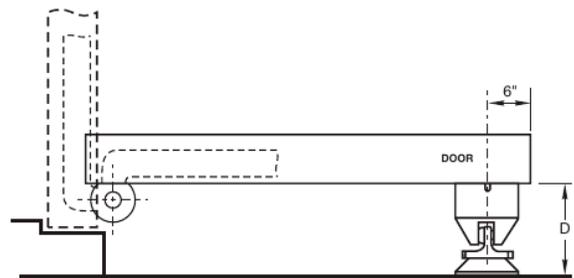
### ELECTROMAGNETIC DOOR HOLDER/RELEASES

Prior to determining the product you will need to use, begin by looking at the door and perpendicular wall relationship.

- Measure the distance. That will give you the “D” dimension. Select from chart A.

#### Chart A

| If the distance from wall to door is: “D” | Use           |
|---|---------------|
| 7/16" (11)                                | 989           |
| 1-13/16" (46)                             | 990M          |
| 2-5/8" (67)                               | 997M          |
| 3-5/8" (92)                               | 998M          |
| 3-3/4" (95)                               | 994M          |
| 4-1/8" (105)                              | 996M          |
| 4-3/8" (111)                              | 999M          |
| 5-1/8" (130)                              | 998M x XK996M |
| 6-5/8" (168) min. distance from wall      | 980M          |
| 6-3/4" distance between doors             | 981M          |



900 base has a minimum: 1-1/2" (38mm) extension.

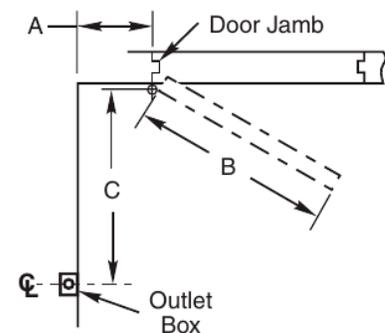
Maximum: 10" using combination of spacers [1/2" (13mm), 3/4" (19mm), etc.] Longer armature projections may encourage abuse and/or the weight of the extended rods will pull off the face of the door.

#### Chart B

Junction box location should always be as close as possible to the door pull/lever/knob.

A position horizontally farther toward the hinge edge will dramatically lessen the hold open force of the magnet.

A mounting too high on the vertical plane (top of door) will make it more difficult to pull out of hold open.



#### Refer to Diagram B

- How far is the centerline of the pivot/hinge from the wall? “A” dimension
- What is width of door? “B” dimension
- At what degree is the door opening? If this dimension is more than 100° consult template. The armature has a few degrees of adjustment but, before proceeding verify with the product template
- Dimension “C” is from pivot point to junction box centerline

## FLOOR MOUNTED

### ELECTROMAGNETIC DOOR HOLDER/RELEASES

#### MODEL 980M

##### Application

- Floor mount
- Single door
- Shipping weight: 4 lbs. (1.8 kg)

##### Features

- Concealed wiring
- Total floor space required: 6-5/8" (168mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty

##### Compliance

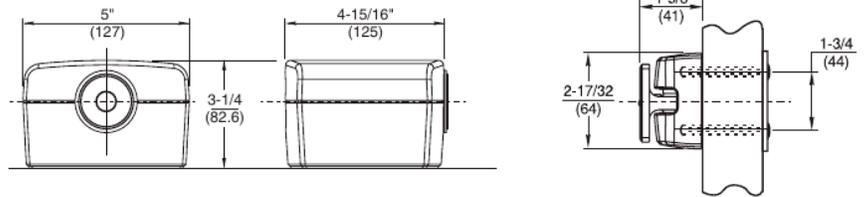
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00021

##### Electrical Data

- Voltage and current:
 

|                            |  |
|----------------------------|--|
| 120VAC, 60 Hz., .020 amp   | }  |
| 24VAC/DC, 60 Hz., .020 amp |  |
| 12VDC, .040 amp            |  |
- For 50-55 lbs. of holding force, specify voltage
 

|                       |
|-----------------------|
| 120VAC, 60Hz .017 amp |
| 24VAC, 60Hz .080 amp  |
| 24VDC, .068amp        |
| 12VDC, .180amp        |



#### MODEL 981M

##### Application

- Floor mount
- 2 back-to-back doors
- Shipping weight: 4-3/4 lbs. (2.2 kg)

##### Features

- Concealed wiring
- Floor space required: 8-1/4" (210mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty

##### Compliance

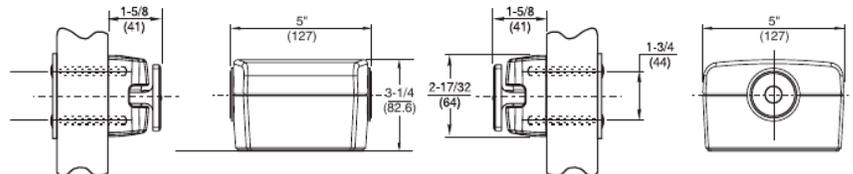
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00031

##### Electrical Data

- Voltage and current:
 

|                         |   |
|-------------------------|---|
| 120VAC, 60Hz., .040 amp | }  |
| 24VAC/DC, .040 amp      |   |
| 12VDC, .080 amp         |   |
- For 50-55 lbs. of holding force, specify voltage
 

|                       |
|-----------------------|
| 120VAC, 60Hz .034 amp |
| 24VAC, 60Hz .016 amp  |
| 24VDC, .036 amp       |
| 12VDC, .360 amp       |



# WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER/RELEASES

## MODEL 989

### Application

- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

### Features

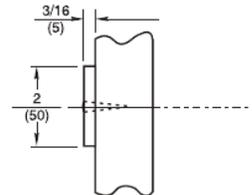
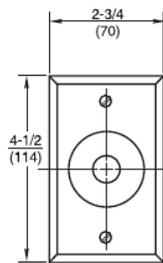
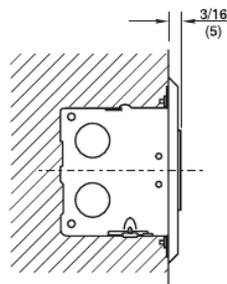
- Total projection: 7/16" (11mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

### Compliance

- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

### Electrical Data

- Voltage and current:
  - 120VAC, 60Hz., .020 amp
  - 24VAC/DC, 60Hz., .020 amp
  - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  - 120VAC, 60Hz .017 amp
  - 24VAC, 60Hz .080 amp
  - 24VDC, .068amp
  - 12VDC, .180amp



## MODEL 990M

### Application

- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

### Features

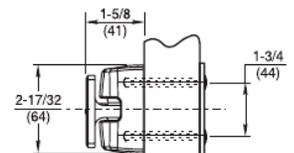
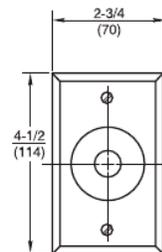
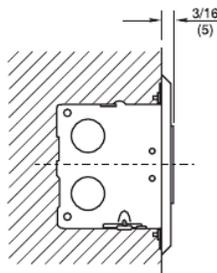
- Total projection: 1-13/16" (46mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

### Compliance

- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

### Electrical Data

- Voltage and current:
  - 120VAC, 60Hz., .020 amp
  - 24VAC/DC, 60Hz., .020 amp
  - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  - 120VAC, 60Hz .017 amp
  - 24VAC, 60Hz .080 amp
  - 24VDC, .068amp
  - 12VDC, .180amp



## SPECIAL PURPOSE WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER/RELEASES

### MODEL 991M

#### Application

- Wall mount
- Surface wiring
- Hazardous locations
- Shipping weight: 3 lbs. (1.4 kg)

#### Features

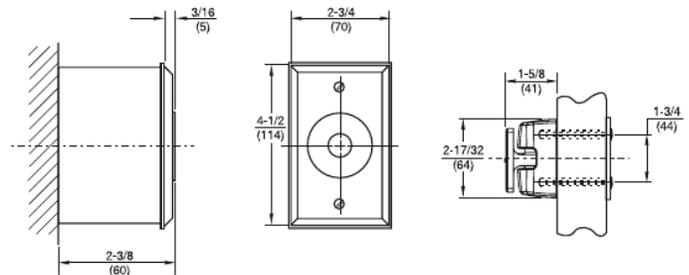
- Total projection: 4" (101mm)
- Approved for class I division 2, class II division 2, groups F and G and class III locations
- Unit includes a sealed surface-mounted junction box
- 2 year limited warranty

#### Compliance

- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

#### Electrical Data

- Voltage and current:  
120VAC, 60Hz., .017 amp  
24VAC, .080 amp  
12VAC, .180 amp  
24VDC, .068 amp



### MODEL 993M

#### Application

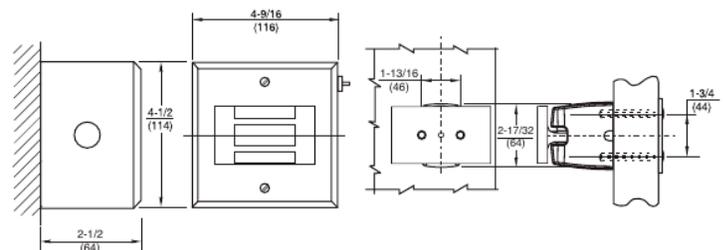
- High hold
- Surface or concealed mounting
- Floor or wall application
- Shipping weight: 3 lbs. (1.4 kg)

#### Features

- 275 lb. holding force
- Total projection: 5-1/4" (133mm)
- Switch box included 4-1/2" x 4-9/16" x 2-1/2" (114 x 116 x 64mm) deep
- Armature plate thru-bolted to maintain consistent contact with magnet
- Adjusting screw on special heavy-duty armature allows for alignment of contact plate
- 9930M floor mount available
- Unit has test switch – may be ordered without switch if door will be pulled out of hold open very often
- Use key switch to release (by others)
- Substantial wall reinforcement required
- 2 year limited warranty

#### Electrical Data

- Voltage and current: 24VAC/DC .25 amp



# WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER/RELEASES

## MODEL 994M

### Application

- Wall mount
- Adjustable armature
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

### Features

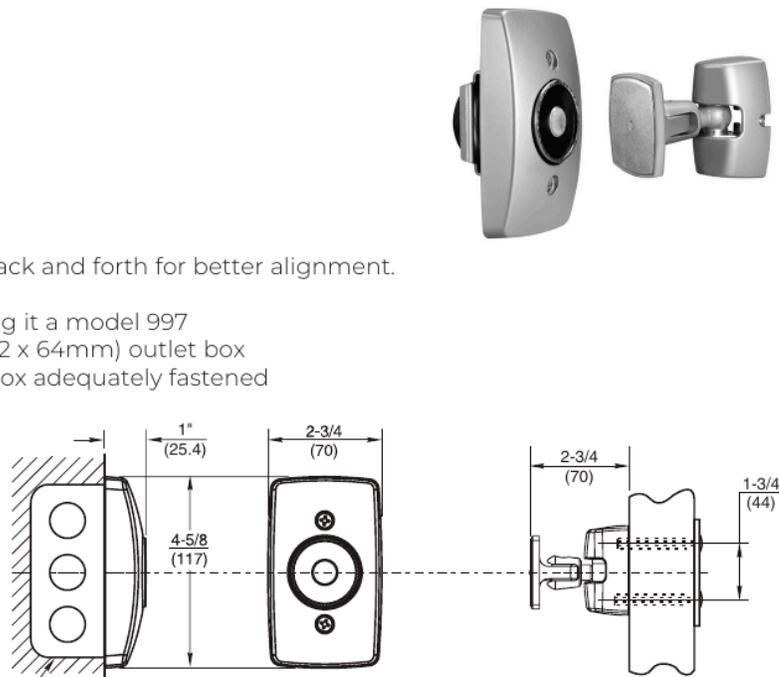
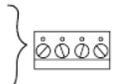
- Total projection: 3-3/4" (95mm)
- Adjustable armature rotation up and down, back and forth for better alignment.
- Cannot be use with 900 base or spacers.
- Can be used without adjustment piece making it a model 997
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

### Compliance

- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

### Electrical Data

- Voltage and current:
  - 120VAC, 60Hz., .020 amp
  - 24VAC/DC, 60Hz., .020 amp
  - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  - 120VAC, 60Hz .017 amp
  - 24VAC, 60Hz .080 amp
  - 24VDC, .068amp
  - 12VDC, .180amp



## MODEL 996M

### Application

- Wall mount
- Surface wiring
- Shipping weight: 3 lbs. (1.4 kg)

### Features

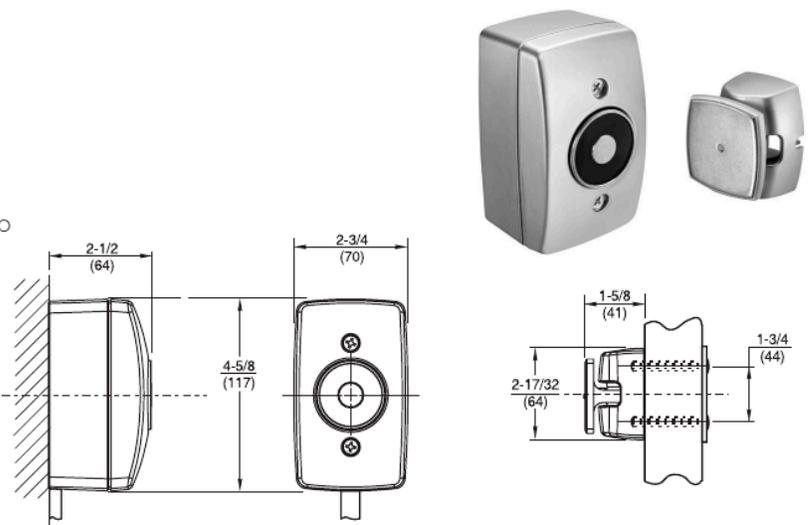
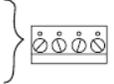
- Total projection: 4-1/8" (105mm)
- Mounting requirements: 1-1/2" (38mm) deep adapter housing
- Wall must be properly reinforced
- 2 year limited warranty

### Compliance

- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

### Electrical Data

- Voltage and current:
  - 120VAC, 60Hz., .020 amp
  - 24VAC/DC, 60Hz., .020 amp
  - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  - 120VAC, 60Hz .017 amp
  - 24VAC, 60Hz .080 amp
  - 24VDC, .068amp
  - 12VDC, .180amp



**ASSEMBLY, DOOR HARDWARE**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Dryers (Door #22)

**DOOR  
HARDWARE**

## 7 NESTED ITEMS

| Code/Tag   | Product Name                      | Quantity |
|------------|-----------------------------------|----------|
| DH-001-MK  | MPB79 Hinge                       | 0.0      |
| DH-001-CLR | Bb31 4 5 X 4 5 Ball Bearing Hinge | 0.0      |
| DH-003-YA  | 2701 Door Closer; 689             | 0.0      |
| DH-003-CLR | P 231 300 Series                  | 0.0      |
| DH-004-BU  | 575 Wrought Concave Wall Stop     | 0.0      |
| DH-024-YA  | AU4602LN-626 Privacy Lever Lock   | 0.0      |
| DH-024-CLR | SI30 Passage Lever Set            | 0.0      |

## MacPro Five Knuckle Standard Weight S...

Manufacturer: Assa Abloy - McKinney Hardware  
Style/Series: MPB79 Hinge

## Sales Rep

### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

MacPro Five Knuckle Standard Weight Series

Item Type: MPB79

### DIMENSIONS

Width: 4 1/2"

Height: 4 1/2"

Gauge: .134

### MATERIAL / FINISH

Material Composition: Steel

### PERFORMANCE

Operation: Bearing Hinge

Quality Standards: ANSI A81.12 NFPA 80 fire rating ANSI/BHMA  
156.1, 156.7

### MISCELLANEOUS

Lead Time: TBD

### CUSTOM FIELDS

#### HINGE

Knuckle: 5

No. of Holes: 8



## MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

| No.   | ANSI Cross Reference | Base Material | Weight | Bearing       |
|-------|----------------------|---------------|--------|---------------|
| MP79  | A8133                | Steel         | STD    | Plain Bearing |
| MP91  | 5133                 | Stainless*    | STD    | Plain         |
| MPB79 | A8112                | Steel         | STD    | Bearing       |
| MPB91 | A5112                | Stainless     | STD    | Bearing       |

\*4 1/2" x 4 1/2"

### Specifications

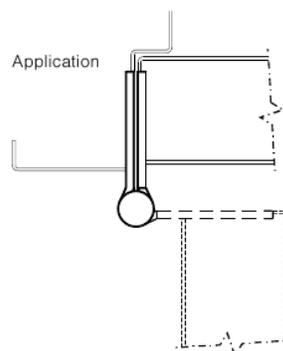
| Inches          | mm            | Gauge | No. of Holes | Fasteners   |            |
|-----------------|---------------|-------|--------------|-------------|------------|
|                 |               |       |              | Machine     | Wood       |
| 4 1/2" x 4"     | 114.3 x 101.6 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |
| 4 1/2" x 4 1/2" | 114.3 x 114.3 | .134  | 8            | 1/2 x 12-24 | 1 1/4 x 12 |

MP79



MPB79

MPB91



### MPB79 & MPB68 - Approved for NFPA 80 fire rated openings

#### Options:

| Code        | Description       |
|-------------|-------------------|
| <b>NRP*</b> | Non-Removable Pin |

\*4 1/2 x 4 1/2 MP91 32D NRP only  
4 1/2 x 4 MPB91 32D NRP only

### McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

| Part number | Description                                | Finish |
|-------------|--|--------|
| 76305       | Hinge Pin Stop for MacPro MP79 & MPB79     | 26D    |
| 76306       | Hinge Pin Stop for McKinney T2714 & TA2714 | 26D    |
| 76307       | Hinge Pin Stop for MacPro MP79 & MPB79     | BSP    |
| 76308       | Hinge Pin Stop for McKinney T2714 & TA2714 | BSP    |



800-346-7707 | www.mckinneyhinge.com  
Check the web site for the up-to-date catalog

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**ASSA ABLOY**

Experience a safer  
and more open world

## Cal-Royal BB31 4.5" x 4.5" Ball Beari...

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Manufacturer: Schlage

Style/Series: Bb31 4 5 X 4 5 Ball Bearing Hinge

## Sales Rep

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### Primary

Nick Batrouney

Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Cal-Royal BB31 4.5" x 4.5" Ball Bearing Hinge

### DIMENSIONS

Width: 4.5"

Height: 4.5"

Gauge: 0 .134

### MATERIAL / FINISH

Finish: US652 Stain Chrome

Material Composition: 1040 steel

### PERFORMANCE

Quality Standards: ANSI/BHMA A156.1

### HINGE

Knuckle: 5

## Notes

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<https://tinyurl.com/yzchz3hj>



## Entry Door Closer

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Manufacturer: ASSA ABLOY/Yale  
Style/Series: 2701 Door Closer; 689

## Sales Rep

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### Primary

Chris Hobbs  
Email: [chris.hobbs@assaabloy.com](mailto:chris.hobbs@assaabloy.com)

### Secondary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Entry Door Closer

Type: Surface Door Closer

### DIMENSIONS

Length: 13-5/8"

Height: 3-7/8"

Dimension Explanation: 7-5/8" Arm Extension

### MATERIAL/FINISH

Material Composition: Aluminum/689 Aluminum Painted

Color: 689

Finish: Aluminum Painted

### PERFORMANCE

Accessibility Compliance : ADA and ANSI/BHMA A117.1

Accessories: Drop plate required for glazed doors

Classification: UL / cUL listed for use on fire rated doors for up to 3 hour assemblies; UL10C listed for positive pressure fire test

Grade: ANSI/BHMA A156.4, Grade 1 certified

Operation: Manual, hydraulic

### MISCELLANEOUS

Lead Time: 5-10 business days

Warranty: 10 Years

### CUSTOM FIELDS

Opening Degree : 90 Degrees

Mounting Type: Surface

Cover Finish: 689, Aluminum Painted

Cover Material : Plastic



## Door Closer

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Manufacturer: Cal-Royal Door Hardware  
Style/Series: P 231 300 Series

## Sales Rep

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### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Door Closer

Item Type: 300 - PBFCOV (ALUM)

### DIMENSIONS

Dimension Explanation: Non-Sized, Fully Adjustable 3 through 6. Full cover. For 85-260 lbs Door Weight

### MATERIAL / FINISH

Finish: Aluminum

### PERFORMANCE

Accessibility Compliance : Optional Adjustable Delayed Action for Handicapped or Elderly

Accessories: Arms: 301/302

Quality Standards: Meets and Exceeds ANSI Standard A156.4 Grade 1

### SURFACE CLOSER

Cover Material : Standard Full Plastic Cover (2 5/8" W x 3" H x 10 1/8" L) COV / 400

Mounting Type: Universal Mounting - Standard Size #4 Mounting Holes. (9-1/16")



## Wrought Concave Wall Stop

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Manufacturer: BURNS Manufacturing (Hardware)  
Style/Series: 575 Wrought Concave Wall Stop

## Sales Rep

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### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

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Wrought Concave Wall Stop

### DIMENSIONS

Dimensions: 2-3/8" Diameter x 1-3/16" Projection

### MATERIAL / FINISH

Finish: US32D/630 – Satin Stainless Steel

Material Composition: Wrought Brass, Bronze, Stainless Steel with Gray Bumper

Accessories: Fasteners : #8 × 1-1/2 RHWS with plastic anchor and plastic toggle  
Stop Type : Wall



## Notes

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<https://tinyurl.com/y6vw3y49>

## 4600LN Series

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Manufacturer: Assa Abloy - Yale Locks & Hardware  
Style/Series: AU4602LN-626 Privacy Lever Lock

## Sales Rep

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### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com

## Attributes

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4600LN Series

Item Type: AU4601LN-626 Privacy Lever Lock

### DIMENSIONS

Backset: 2-3/4" (70mm) standard, 2-3/8" (60mm) optional  
Strike: ANSI strike 4-7/8" x 1-1/4" x 1-1/4"(124mm x 32mm x 32mm)  
lip to center  
Latchbolt: 2-3/4" (70mm) backset, 1/2" (13mm) throw latchbolt plain  
or deadlocking  
Door Thickness: Adjustable for doors 1-3/8" to 1-3/4" (35mm to  
44mm)

### MATERIAL / FINISH

Finish: 626 Satin Chrome Plated

### PERFORMANCE

Accessibility Compliance : ADA Compliant  
Fire/Smoke Rating: Listed for 3 hour fire doors  
Quality Standards: Certified Grade 2, ANSI/BHMA A156 2, Series  
4000 ANSI/BHMA A156 115  
Structural Performance: Windstorm Certified, check local codes

### MISCELLANEOUS

Warranty: 3 years





# 4600LN Series

ANSI/BHMA Grade 2 Certified Cylindrical Locks



# Table of Contents



## Contents

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| Latchbolts .....         | 9  |
| Strikes.....             | 10 |

## 4600LN Cylindrical Locks

Yale® 4600LN cylindrical locks are the ideal choice for a wide variety of commercial applications where consistent quality, ease of use and installation are required at an economical price. The 4600LN Series is certified to ANSI/BHMA Grade 2 standards and is UL fire-listed for all functions, ensuring reliability and peace of mind.

To make your building work better with your budget, Yale Works for You<sup>SM</sup>.

# Benefits & Features



## Benefits

- **Versatile:** Field reversible handing and other product options offer flexibility in many commercial applications
- **Economical:** Priced affordably to suit projects of all budgets
- **Secure:** Quality security from a trusted brand for over 170 years
- **Strong & Reliable:** ANSI/BHMA Grade 2 certified for long life and reliability

## Features

- Field reversible handing for easy installation
- Range of functions and options for a wide variety of commercial applications
- Available in five trims and six finishes
- ADA compliant for ease of accessibility



## Specifications

|                       |   |
|-----------------------|---|
| <b>Door Prep</b>      | ANSI/BHMA A156.115  |
| <b>Door Thickness</b> | Adjustable for doors 1-3/8" to 1-3/4" (35mm to 44mm)  |
| <b>Backset</b>        | 2-3/4" (70mm) standard, 2-3/8" (60mm) optional  |
| <b>Handing</b>        | Non-handed, field reversible  |
| <b>Latchbolt</b>      | 2-3/4" (70mm) backset, 1/2" (13mm) throw latchbolt plain or deadlocking. See page 9 for additional options.   |
| <b>Strike</b>         | ANSI strike 4-7/8" x 1-1/4" x 1-1/4" (124mm x 32mm x 32mm) lip to center. See page 10 for additional options. |
| <b>Through-bolts</b>  | Optional through-bolts provided. Installation is at the discretion of the installer.                          |
| <b>ANSI/BHMA</b>      | Certified Grade 2, ANSI/BHMA A156.2, Series 4000  |
| <b>UL/cUL</b>         | Listed for 3 hour fire doors  |
| <b>Windstorm</b>      | Certified, check local codes.   |
| <b>Warranty:</b>      | 3 years   |



Hurricane



# How To Order



| Design             | Function                               | Hand                | Latch                   | Strike   | Cylinder   | Door Thickness   | Keying   | Finish  |
|--------------------|--|---------------------|-------------------------|--|--|--|--|---|
| AU - Augusta       | 4601LN - Passage or Closet Latch       | Specify<br>RH<br>LH | See page 9 for options. | 497 strike standard<br>See page 10 for additional options. | 1806 6-pin cylinder standard; see page 8 for additional options. | Adjustable between 1-3/8" to 1-3/4"; factory preset for 1-3/4" | KR (keyed random) standard, see page 8 for additional details/options. | 605 - Bright Brass, Clear Coated<br>606 - Satin Brass, Clear Coated<br>613E - Dark Oxidized Satin Bronze - equivalent<br>625 - Bright Chrome Plated<br>626 - Satin Chrome Plated<br>BSP - Black Suede Powder Coat |
| MO - Monroe        | 4602LN - Privacy, Bedroom or Bath Lock |                     |                         |  |  |  |  |   |
| PB - Pacific Beach | 4604LN - Entry Lock                    |                     |                         |  |  |  |  |   |
| UB                 | 4605LN - Storeroom or Closet Lock      |                     |                         |  |  |  |  |   |
|                    | 4607LN - Entry Lock                    |                     |                         |  |  |  |  |   |
|                    | 4608LN - Classroom Lock                |                     |                         |  |  |  |  |   |
|                    | 4628LN - Communicating Passage Lock    |                     |                         |  |  |  |  |   |
|                    | 4655LN - Single Dummy Trim             |                     |                         |  |  |  |  |   |

## Ordering Example

| Design | Function | Hand | Latch  | Strike | Cylinder | Door Thickness | Keying | Finish |
|--------|----------|------|--------|--------|----------|----------------|--------|--------|
| AU     | 4607LN   | RH   | MCD234 | 497    | 1806     | 1-3/4"         | KR     | 626    |

# Finishes



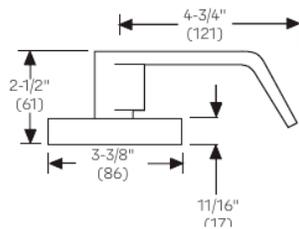
| ANSI/BHMA Code<br>Finish Description   |  |  |
|--|--|--|
| <b>605</b><br>Bright Brass, Clear Coated   | <b>606</b><br>Satin Brass, Clear Coated  | <b>613E</b><br>Dark Oxidized Satin<br>Bronze - equivalent                            |
|   |   |   |
| <b>625</b><br>Bright Chrome Plated   | <b>626</b><br>Satin Chrome Plated  | <b>BSP</b><br>Black Suede Powder Coat  |
|  |  |  |

# Trim Designs



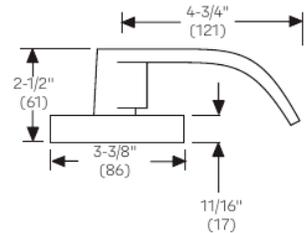
## Augusta AU

Lever: Cast Zinc  
Rose: Wrought Brass



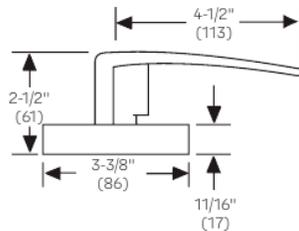
## Pacific Beach PB

Lever: Cast Zinc  
Rose: Wrought Brass



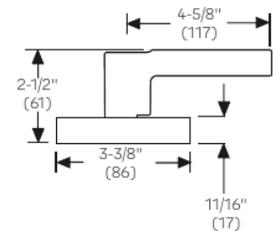
## Monroe MO

Lever: Cast Zinc  
Rose: Wrought Brass



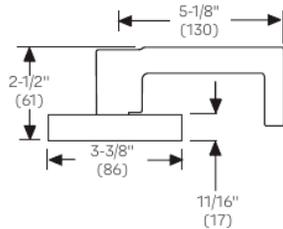
## TB

Lever: Cast Zinc  
Rose: Wrought Brass



## UB

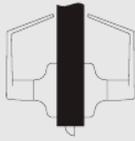
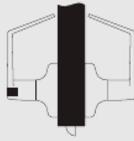
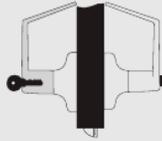
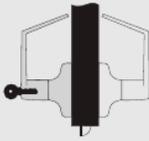
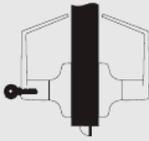
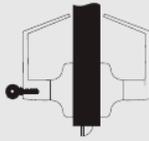
Lever: Cast Zinc  
Rose: Wrought Brass



All levers available with small format interchangeable core. See page 8 for details.

Dimensions shown are in inches/mm.



|   |  |   |
|---|--|---|
| <p style="text-align: center;"><b>4601LN (F75)</b></p>  <p><b>Passage or Closet Latch</b></p> <ul style="list-style-type: none"> <li>• For doors that do not require locking.</li> <li>• Either lever operates latchbolt at all times.</li> </ul>  | <p style="text-align: center;"><b>4602LN (F76A)</b></p>  <p><b>Privacy, Bedroom or Bath Lock</b></p> <ul style="list-style-type: none"> <li>• For lavatory or other privacy doors.</li> <li>• Either lever operates latchbolt unless outside lever is locked by pushbutton inside.</li> <li>• Button automatically releases when inside lever is turned or door is closed.</li> <li>• Emergency release in outside lever.</li> <li>• Inside lever always active.</li> </ul>   | <p style="text-align: center;"><b>4604LN (F82A)</b></p>  <p><b>Entry Lock</b></p> <ul style="list-style-type: none"> <li>• For entrance or office doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked from inside).*</li> <li>• Pushing button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)</li> <li>• Latchbolt is operated by key in outside lever or by rotating inside lever.</li> <li>• Inside lever always active.</li> </ul> |
| <p style="text-align: center;"><b>4605LN (F86)</b></p>  <p><b>Storeroom or Closet Lock</b></p> <ul style="list-style-type: none"> <li>• For use on storeroom, utility, exit doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Latchbolt operated by lever inside, key in outside lever.</li> <li>• Outside lever always rigid.</li> <li>• Inside lever always active.</li> </ul>  | <p style="text-align: center;"><b>4607LN (F109)</b></p>  <p><b>Entry Lock</b></p> <ul style="list-style-type: none"> <li>• For entrance, general home or office doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked from inside).</li> <li>• Pushing turn button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)</li> <li>• Outside lever may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.</li> <li>• Latchbolt is operated by key in outside lever or by rotating inside lever.</li> <li>• Inside lever always active.</li> </ul> | <p style="text-align: center;"><b>4608LN (F84)</b></p>  <p><b>Classroom Lock</b></p> <ul style="list-style-type: none"> <li>• For classroom or utility room doors.</li> <li>• Deadlocking latchbolt.</li> <li>• Either lever operates latchbolt (except when outside lever is locked by key).</li> <li>• Inside lever always active.</li> <li>• Key releases outside lever.</li> </ul>  |
| <p style="text-align: center;"><b>4628LN (F111)</b></p>  <p><b>Communicating Passage Lock</b></p> <ul style="list-style-type: none"> <li>• For twin communicating or exit doors where one side operation is required.</li> <li>• Also when space is limited between door and switch panel.</li> <li>• Deadlocking latchbolt.</li> <li>• One lever operation.</li> <li>• Blank rose.</li> <li>• Should be used only where rooms have more than one entrance.</li> </ul> | <p style="text-align: center;"><b>4655LN</b></p>  <p><b>Single Dummy Trim</b></p> <ul style="list-style-type: none"> <li>• For non-operational levers used for decorative trim.</li> <li>• Rigid lever.</li> </ul>  |   |

# Cylinders/Keying



| Illustration  | Type                  | Model Number | Number of Pins |
|---|-----------------------|--------------|----------------|
|  | Key-in-Lever Cylinder | 1806         | 6              |

Large format interchangeable core not available.

### Keying:

All cylinders furnished standard 6-pin, keyed random in Yale® PARA keyway, pinned to Yale .019" specification. Each cylinder furnished with two nickel silver keys. Optional Yale keyways available upon request, extended lead times may apply.

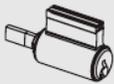
### Options:

Cylinders available 0-bitted, keyed alike, master keyed or construction master keyed upon request. Cylinders provided in 605, 626 and BSP finishes only.

## Levers Accepting Small Format Interchangeable Cores

| Illustration  | Cylinder Type  | Prefix                                   | Ordering Example  |
|---|--|--|-------------------|
|  | SFIC (Accepts all Small Format Interchangeable Cores) 6- or 7-pin. | B<br>(i.e. B-AU, B-MO, B-PB, B-TB, B-UB) | B-PB-4607LN x 626 |

## Other Manufacturers Keyway Cylinders/Cores

| Illustration  | Type  | Model Number | Number of Pins      |
|---|---|--------------|---------------------|
|  | Best® Keyway Core. Available keyed random, master keyed or uncombined. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M. | A600         | 6 or 7<br>(Specify) |
|  | Schlage® C Keyway Cylinder. Available 0-bitted or keyed random.   | 2806 x C     | 6                   |
|  | Corbin Russwin L4 Keyway Cylinder. Available keyed random.  | 3806 x L4    | 6                   |
|   | Corbin 60 Keyway Cylinder. Available keyed random.  | 3806 x 60    | 6                   |
|   | Russwin D1 Keyway Cylinder. Available keyed random.   | 3806 x D1    | 6                   |
|   | Sargent® LA Keyway Cylinder. Available keyed random.  | 3806 x LA    | 6                   |
|   | Schlage® E Keyway Cylinder. Available keyed random.   | 3806 x E     | 6                   |

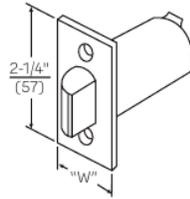
Note: 2806 and 3806 cylinders are supplied with applicable tailpieces that are needed to operate 4600LN locksets. These cylinders are not ANSI/BHMA certified. Small format cores and cylinders with other manufacturer keyways are supplied in 605 or 626 finish only.

# Latchbolts



## Plain Latchbolts

Model No. MCP234 supplied standard with all 4600LN series locksets without locking function. Model No. MCP234 latchbolt has a 2-1/4" x 1-1/8" front with a 2-3/4" backset and a 1/2" bolt throw. Optional latchbolts available to special order.

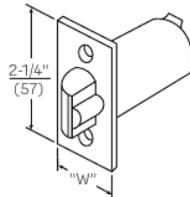


| Model Number | Front  | Backset       | Throw       | "W" Front Width | Latch Diameter* |
|--------------|--------|---------------|-------------|-----------------|-----------------|
| MCP238       | Square | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCP238R      | Round  | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCP234       | Square | 2-3/4" (70mm) | 1/2" (13mm) | 1-1/8" (29mm)   | 7/8" (22mm)     |

\*1/8" sleeve (P/N 14-0378-9001) supplied with all latchbolts to accommodate 1" preps.

## Deadlocking Latchbolts

Model No. MCD234 supplied standard with all 4600LN series locksets with locking function. Model No. MCD234 latchbolt has a 2-1/4" x 1-1/8" front with a 2-3/4" backset and a 1/2" bolt throw. Optional latchbolts available to special order.



| Model Number | Front  | Backset       | Throw       | "W" Front Width | Latch Diameter* |
|--------------|--------|---------------|-------------|-----------------|-----------------|
| MCD238       | Square | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCD238R      | Round  | 2-3/8" (60mm) | 1/2" (13mm) | 1" (25mm)       | 7/8" (22mm)     |
| MCD234       | Square | 2-3/4" (70mm) | 1/2" (13mm) | 1-1/8" (29mm)   | 7/8" (22mm)     |

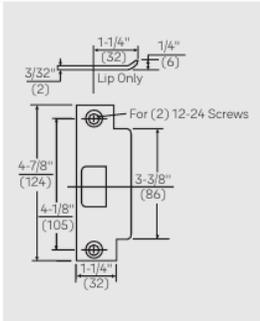
\*1/8" sleeve (P/N 14-0378-9001) supplied with all latchbolts to accommodate 1" preps.

Note: Locksets ordered with 2-3/8" backset square or round latchbolts will automatically include the corresponding 70S or 71S full lip strike as standard. Order must specify if alternate strike required.

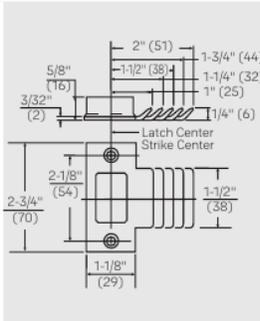
# Strikes



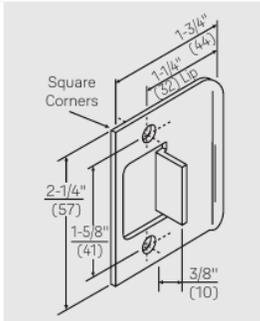
Yale® 4600LN locks are available with a variety of strike options. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in a variety of lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb, accounting for any interfering trim (i.e. wood molding) and then add 1/4" (6mm) for curved lip. All strikes are reversible. Strikes are fabricated of either brass, bronze or stainless steel, depending on the lockset trim finish. When ordering strikes separately, specify the finish required.



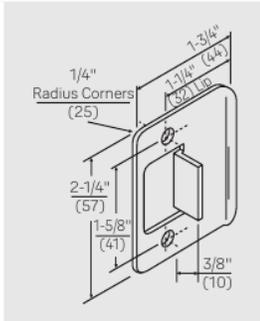
**Model No. 497 ANSI Strike (Standard)**  
For door and frames with ANSI/BHMA A156.115 preparations. 4-7/8" x 1-1/4" x 1-1/4" (124mm x 32mm x 32mm) lip to center supplied standard for lever. 1-1/8", 1-1/2", and 1-3/4" lip lengths available by special order. Available with optional 202 Strike Box. Specify 497 x 202.



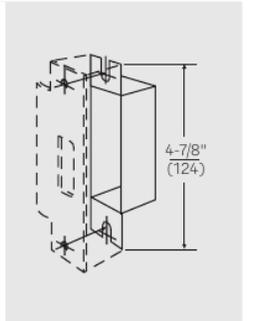
**Model No. 371 T-Strike (Optional)**  
2-3/4" x 1-1/8" x 1-1/4" (70mm x 29mm x 32mm) lip to center supplied standard for knob. 1", 1-1/2", 1-3/4" and 2" curved lip lengths available by special order. Wrought strike box supplied.



**Model No. 70S Full Lip Strike (Optional)**  
2-1/4" x 1-3/4" x 1-1/4" (57mm x 44mm x 32mm) lip to center with full lip anti-rattle tab.



**Model No. 71S Full Lip Strike (Optional)**  
1/4" radius. Similar in dimensions and function to the 70S Strike but with radius corners for easy mortising by power tools. Anti-rattle tab.



**Model No. 202 Strike Box**  
Available to special order. Specify 497 x 202.

## Attaching Screws

### For Model Nos. 371, 70S, and 71S

#8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screws.

### For Model No. 497

#12-24 x 1" (25mm) Phillips flat head combination wood and machine screws.





**Trusted every day**

**Phone**

1-855-557-5078

**Customer Service Email**

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**Technical Product Support Email**

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**Order Entry Email**

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**Fax**

1-800-338-0965

**Website**

[www.yalecommercial.com](http://www.yalecommercial.com)

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[yalecommercial.com](http://yalecommercial.com)

**Canada:**

**ASSA ABLOY Door Security Solutions Canada**

Address: 160 Four Valley Drive

Vaughan, Ontario L4K 4T9

Tel: 1-800-461-3007

Fax: 1-800-461-8989

[assaabloydss.ca](http://assaabloydss.ca)

**International:**

**ASSA ABLOY Americas International**

Tel: 1-905-821-7775

Fax: 1-905-821-1429

[assaabloyai.com](http://assaabloyai.com)

**THE YALE BRAND**, with its unparalleled global reach and range of products, reassures more people in more countries than any other consumer locking solution.

**THE ASSA ABLOY GROUP** is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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## Cal-Royal SL30 Passage Lever Set

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Manufacturer: CAL-ROYAL  
Style/Series: SL30 Passage Lever Set

## Sales Rep

---

### Primary

Nick Batrouney  
Email: [nickb@discoverParagon.com](mailto:nickb@discoverParagon.com)

## Attributes

---

Cal-Royal SL30 Passage Lever Set

Item Type: SL30

### DIMENSIONS

Strike: 4-7/8" x 1-1/4" ASA/ANSI strike with curved lip to meet ANSI A115.2 door frame preparation

Latch: 1/2" throw - 1-1/8" x 2-1/4" face

### MATERIAL / FINISH

Finish: US26D Satin Chrome

Material Composition: stainless steel

### PERFORMANCE

Accessibility Compliance : ADA compliant, 3-hour fire-rated

Best Practices: ANSI/BHMA Certified A156.2, Grade 2

Fire/Smoke Rating: UL/cUL listed up to 3 Hours



**PIONEER**  
SL SERIES (NON-CLUTCH MECHANISM)  
CSL SERIES (CLUTCH MECHANISM)  
OPTIONAL THRU BOLT INSTALLATION

**LIFETIME WARRANTY** **BHMA CERTIFIED** **MEETS The Buy American Act**  
Be Safe. Be Secure. Look for the Mark.

**UL US** 3 HOUR FIRE RATED UL10C, UBCT-2-1997  
**HURRICANE APPROVED HARDWARE** FLORIDA BUILDING CODE **FL13922-R7** ASTM E1196/E1996 ASTM E2335 TAB 201, 202, 203 UL10B & UL10C  
**HURRICANE APPROVED HARDWARE** TEXAS EVALUATION ID **DR-472** ASTM E1196/E1996 ASTM E2335 TAB 201, 202, 203

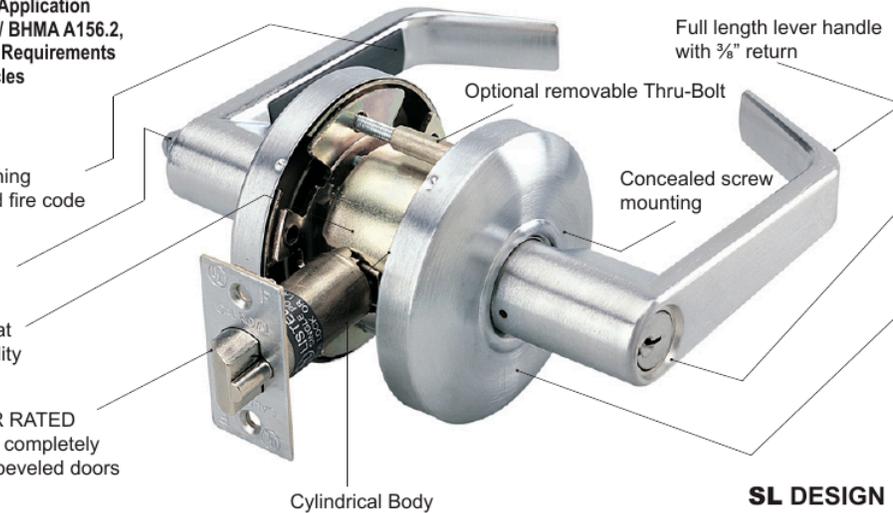
 Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 2 Requirements  
Exceeds 400,000 Cycles

Optional tactile warning  
meets handicap and fire code

Push in and  
turn button function

Coil compression  
springs provide great  
strength and durability

UL LISTED 3 HOUR RATED  
1/2" Throw deadlatch completely  
reversible for flat & beveled doors

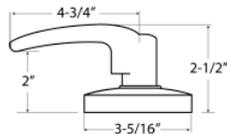


Available with Small Format Interchangeable Core

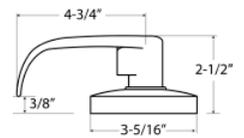
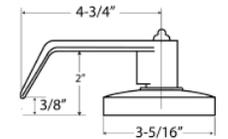
Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance



**AG DESIGN**



**RL DESIGN**



**SPECIFICATIONS**

**APPLICATIONS**

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

**DOOR RANGES**

1 3/8" to 1 3/4" thickness doors.

**BACKSET**

2 3/4" Standard, 2 3/8", 3 3/4" and 5" optional.

**LATCH BOLT**

1/2" Throw solid brass, reversible for RH or LH applications. UL Listed.

**LATCH FACEPLATE**

2 1/4" x 1 1/8", adjustable for flat or beveled doors 1/8" in 2", for 2 3/4" backset. Optional 2 1/4" x 1" for 2 3/8" backset.

**ANSI STANDARDS**

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

**EXPOSED TRIM**

Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

**KEYING**

6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

**CYLINDER & KEYWAYS**

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

**CLUTCH**

Clutch available on all keyed locks and privacy functions. Prefix "C" before part number.

**INTERCHANGEABLE CORE**

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

**STRIKES**

ASA strike standard, "T" and full lip strike available on request.

**TACTILE & LEAD LINING** available upon request.

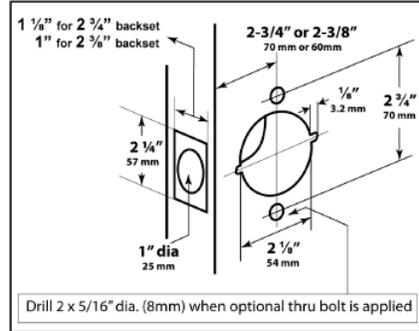
# PIONEER SL SERIES FINISHES AND FUNCTIONS



| FINISHES AVAILABLE |         |  |
|--------------------|---------|--|
| BHMA SYMBOL        | US CODE | DESCRIPTION                            |
| 622                | US1     | Flat Black Coated                      |
| 605                | US3     | Polished Brass                         |
| 606                | US4     | Satin Brass                            |
| 609                | US5     | Antique Brass                          |
| 612                | US10    | Satin Bronze                           |
| 613E               | US10BE  | Dark Oxidized Satin Bronze, Equivalent |
| 619                | US15    | Satin Nickel                           |
| 625                | US26    | Polished Chrome                        |
| 626                | US26D   | Satin Chrome                           |

Refer to price list for stock finishes and functions

## DOOR PREPARATION

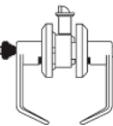


**LIFETIME WARRANTY**

**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

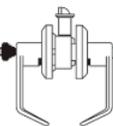
**UL US**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

**SL00**  
● **ICSL00**  
**CSL00**  
ANSI: F109



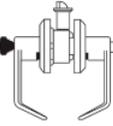
**ENTRANCE / OFFICE LOCK**  
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

**SL00/T220**



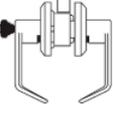
**COMBINATION ENTRANCE / OFFICE LOCK AND SINGLE CYLINDER DEADBOLT -- KA / 2 PACKED TOGETHER**  
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned. Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 3/8" or 2 3/4" backset.

**SL01**  
● **ICSL01**  
**CSL01**  
ANSI: F82



**ENTRANCE LOCK PUSH BUTTON**  
Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

**SL03**  
● **ICSL03**  
**CSL03**  
ANSI: F84



**CLASSROOM LOCK**  
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

**SL05**  
● **ICSL05**  
**CSL05**  
ANSI: F86



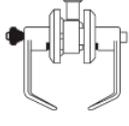
**STOREROOM LOCK**  
Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

**SL80**  
● **ICSL80**  
**CSL80**  
ANSI: F89



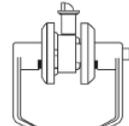
**EXIT LOCK**  
**CONNECTING ROOM WITH KEY**  
Deadlocking latch bolt operated with key from inside only. Blank plate outside.

**SL101**  
● **ICSL101**  
**CSL101**  
ANSI: F90



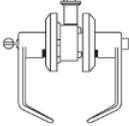
**DORMITORY / ASSISTED LIVING**  
Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

**SL10**  
**CSL10**  
ANSI: F77



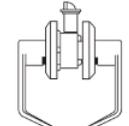
**PATIO**  
Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.

**SL20**  
**CSL20**  
ANSI: F76



**PRIVACY LOCK**  
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

**SL30**  
ANSI: F75



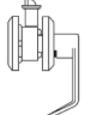
**PASSAGE SET**  
Latch bolt operated by lever from either side at all times.

**SL40**



**DUMMY LEVER**  
Single dummy trim for one side of door. Pull only.

**SL50**  
ANSI: F89



**EXIT LOCK**  
Blank plate outside. Inside lever always unlocked.

**HOW TO ORDER:**  
For "AG" or "RL" designs, replace design name.  
Example: SL00 entrance in "AG" is AG00.

● "IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

"CSL" Indicates function available with clutch.  
**OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.**

DR - Doors

## DOORS AND FRAMES

### Pre-finished interior door frames, sq...

---

Manufacturer: Timely Industries, Inc.  
Style/Series: C - Series

### Sales Rep

---

#### Primary

Customer Service  
Email: No.Email.543  
Office Phone: (800) 247-6242

#### Secondary

Nick Batrouney  
Email: nickb@discoverParagon.com

### Attributes

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Pre-finished interior door frames, square profile.

Type: Interior door frames

#### MATERIAL/FINISH

Material Composition: Frame: 18 gauge, cold-rolled steel sheet conforming to ASTM A366. 2. Casing: Provide minimum 22 gauge prefinished steel snap-on type with corner alignment clips.  
Color: According to the brand finish scheme.  
Finish: Factory primed and finished.

#### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1  
Accessories: Frame anchors  
Acoustical Performance: STC 38 minimum  
Best Practices: Recycled content  
Compressive Strength: NA  
Fire/Smoke Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.  
Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"  
Structural Performance: ANSI/SDI Level 2, Performance Level B (Heavy-Duty)  
Water Sense: NA

#### MISCELLANEOUS

Warranty: Life of building

#### CUSTOM FIELDS

Fire Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual



rating to be determined by the Architect based on location and code requirements.

Glazing: Safety glass complying with ANSI Z97.1.

Hardware: Prepared for ANSI strikes and pre-drilled for door silencers/ gasketing as applicable.

Acoustical: NA

Door Type: NA

Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"

Core: NA

Louver: Manufacturer's standard fire-rated automatic louvers. Refer to Mechanical Drawings for locations.

## Notes

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### Special Instructions

Clearances: 1/8" at jambs and heads; 3/4" at bottom; 1/4" at meeting edges of pairs of doors.

Interior Guestroom Door Frames: Continuously welded corners; or Hollow Metal Drywall "Knock-Down" Type door frames; or Prefinished Frames (Timely or Rediframe).

## DOORS

### Exit Door, Fitness Center

---

Manufacturer: Kawneer  
Style/Series: N/A

### Sales Rep

---

#### Primary

Ian Cable  
Email: No.Email.38  
Office Phone: (63) 552-3541

### Attributes

---

Exit Door, Fitness Center

Type: N/A

### MATERIAL/FINISH

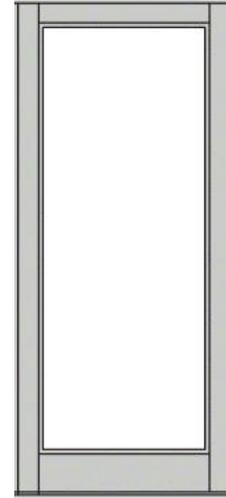
Material Composition: Aluminum/Glass  
Finish: Black

### MISCELLANEOUS

Lead Time: To be verified  
Warranty: To be verified

### CUSTOM FIELDS

Fire Rating: Refer to Door Schedule  
Glazing: Refer to Door Schedule  
Hardware: Refer to Door Schedule  
Acoustical: TBD  
Door Type: 350 series entrance door. Medium stile single-acting door with single lite.  
Quality Standards: TBD  
Core: N/A  
Louver: N/A



## DOORS

### Flush Door with Fully Finished High D...

Manufacturer: Collegewood.com

Style/Series: Fully Finished High Density (HDF) Fiberboard Door

### Sales Rep

#### Primary

Nick Batrouney

Email: nickb@discoverParagon.com

Office Phone: 770.795.9564 x 310

### Attributes

Flush Door with Fully Finished High Density (HDF) Fiberboard

Type: Solid Core Wood

### DIMENSIONS

Dimension Explanation: Refer to the Design Guideline Drawings

Thickness: 1-3/4"

### MATERIAL / FINISH

Color: Polar White

Material Composition: Flush Style, HPDL Faces & Top Edge, PVC Vertical Edges, Particle Board Core Bonded to Stiles & Rails, 5-Ply

### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1 current version

Accessories: Vertical Edges: 3mm PVC, compatible color if a matching face is not available. Top Edge: HPDL Matching Faces. Bottom Edge: Sealed.

Acoustical Performance: Minimum as required by brand design standards. ASTM E90 STC 32 @ Guestroom entrance doors and guestroom communicating doors. Doors Seals / Mortised Door Bottom supplied by Door Manufacturer.

Best Practices: Recycled content, certified wood, low-emitting materials as applicable to project & location.

Fire/Smoke Rating: Non-Rated (3-Ply or 5-Ply) or Fire Rated (5-Ply).

To be determined by the Architect based on location and code requirements.

Grade: WDMA Performance Grade: Extra Heavy Duty. (Provide Blocking at Surface Mounted Door Hardware (Excluding Mop, Lick, or Armor Plates)

Quality Standards: ANSI/WDMA I.S. 1A-2021 "Industry Standard for Interior Architectural Wood Flush Doors"

### MISCELLANEOUS

Warranty: Life of installation



**CUSTOM FIELDS**

Core: Particleboard Core, ANSI A208 1-LD-2 (PC-5)

Door Type: Flush

Glazing: N/A

Hardware: Refer to the Design Guideline Drawings Door Schedule

Louver: N/A

## DOORS

### Flush, fire and/or temperature-rise-r...

---

Manufacturer: Republic Doors and Frames

Style/Series: DL-Series

### Sales Rep

---

#### Primary

Nick Batrouney

Email: nickb@discoverParagon.com

Office Phone: 770.795.9564 x 310

### Attributes

---

Flush, fire and/or temperature-rise-rated

Type: Heavy-duty full flush door, interior

### DIMENSIONS

Thickness: 1-3/4"

Dimension Explanation: Refer to the Design Guideline Drawings

### MATERIAL/FINISH

Material Composition: 18-gauge cold-rolled steel

Finish: Manufacturer Standard Factory-primed, field-painted (See Project-specific Mark # for paint)

### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1

Accessories: Light frames as standard with manufacturer.

Acoustical Performance: STC 38 minimum

Best Practices: Recycled content

Compressive Strength: NA

Fire/Smoke Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.

Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"

Structural Performance: ANSI/SDI Level 2, Performance Level B (Heavy-Duty)

Water Sense: NA

### MISCELLANEOUS

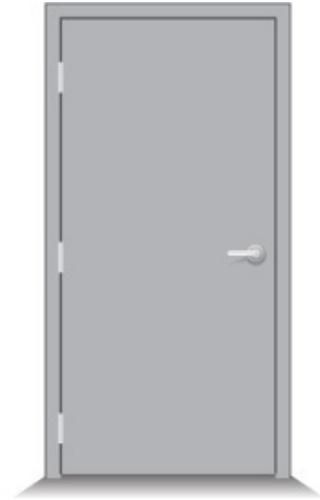
Warranty: Life of building

### CUSTOM FIELDS

Fire Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.

Glazing: Safety glass complying with ANSI Z97.1.

Hardware: Refer to Door Hardware Schedule & Specifications



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Acoustical: NA  
Door Type: NA  
Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"  
Core: Semi-rigid fiberglass / mineral wool  
Louver: Manufacturer's standard fire-rated automatic louvers as required. Refer to Mechanical Drawings for locations.

## Notes

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Product Data Sheet: <https://tinyurl.com/r8amndz6>

### Special Instructions

Clearances: 1/8" at jambs and heads; 3/4" at bottom; 1/4" at meeting edges of pairs of doors.

## DOORS

### Flush, fire and/or temperature-rise-r...

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Manufacturer: Steelcraft

Style/Series: L-Series

### Sales Rep

---

#### Primary

Nick Batrouney

Email: nickb@discoverParagon.com

Office Phone: 770.795.9564 x 310

### Attributes

---

Flush, fire and/or temperature-rise-rated

Type: Heavy-duty full flush door, interior

### DIMENSIONS

Thickness: 1-3/4"

Dimension Explanation: Refer to the Design Guideline Drawings

### MATERIAL/FINISH

Material Composition: 18-gauge cold-rolled steel

Finish: Manufacturer Standard Factory-primed, field-painted (See Project-specific Mark # for paint)

### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1

Accessories: Light frames as standard with manufacturer.

Acoustical Performance: STC 38 minimum

Best Practices: Recycled content

Compressive Strength: NA

Fire/Smoke Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.

Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"

Structural Performance: ANSI/SDI Level 2, Performance Level B (Heavy-Duty)

Water Sense: NA

### MISCELLANEOUS

Warranty: Life of building

### CUSTOM FIELDS

Fire Rating: NFPA 80 "Standard for Fire Doors, Fire Windows." Actual rating to be determined by the Architect based on location and code requirements.

Glazing: Safety glass complying with ANSI Z97.1.

Hardware: Refer to Door Hardware Schedule & Specifications



---

Acoustical: NA  
Door Type: NA  
Quality Standards: ASNS/SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames"  
Core: Semi-rigid fiberglass / mineral wool  
Louver: Manufacturer's standard fire-rated automatic louversas required. Refer to Mechanical Drawings for locations.

## Notes

---

Product Data Sheet: <https://tinyurl.com/2p867xvu>

### Special Instructions

Clearances: 1/8" at jambs and heads; 3/4" at bottom; 1/4" at meeting edges of pairs of doors.

## DOORS

### Fire Stair and BOH Doors

---

Manufacturer: GenFrame™ Series | Gensteel Doors  
Style/Series: Genframe

### Sales Rep

---

#### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com  
Office Phone: 770.795.9564 x 310

### Attributes

---

Fire Stair and BOH Doors

Type: Heavy duty full flush door with vision glass

#### MATERIAL / FINISH

Color: 1" cell kraft honeycomb  
Finish: Primed to Paint  
Material Composition: 18 Gauge Steel, 1-3/4" Thick

#### PERFORMANCE

Special Instructions: 1. Prep for heavy duty mortised hinges 2.  
Galvannealed for exterior applications  
Fire/Smoke Rating: Refer to Door Schedule  
Quality Standards: Door construction meets ANSI A250.8-2003 (SDI 100). Door hardware preparations and reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/DHI A115 unless otherwise noted.

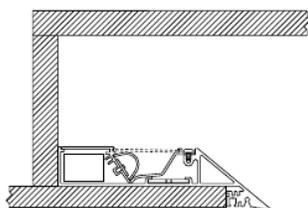
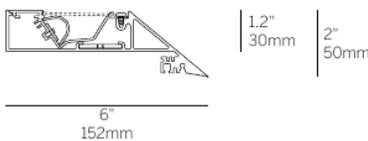
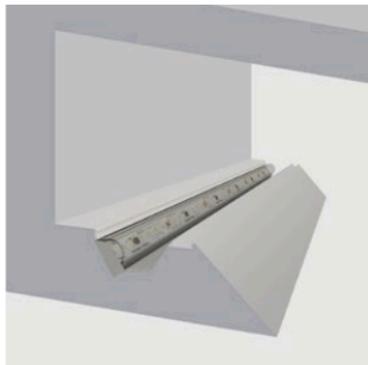
#### MISCELLANEOUS

Lead Time: To be verified  
Warranty: To be verified

#### CUSTOM FIELDS

Core: 1" cell kraft honeycomb  
Door Type: N/A  
Glazing: Refer to Door Schedule  
Hardware: Refer to Door Hardware Schedule  
Louver: N/A





Gypsum Ceiling Mounting  
4" minimum offset, 12" typical offset  
Can be installed in Cove or Coffer

| Ordering Information |          |   |  |                    |                          |  |                         |                        |                    |
|----------------------|----------|---|--|--------------------|--------------------------|--|-------------------------|------------------------|--------------------|
| Model                | Fixation | Pattern   | Length                                   | Power <sup>1</sup> | CRI/<br>CCT <sup>2</sup> | Driver <sup>3</sup>                      | Lens                    | Finish                 | Options            |
| WG-MEC               | RPT      | S <sup>1</sup><br>PC <sup>2</sup><br>PR <sup>2</sup><br>PZ <sup>2</sup> | A<br>A x B<br>A x B x C<br>A x B x A x B | L<br>M<br>H        | 927<br>930<br>935<br>940 | X<br>S<br>D010<br>L3DAE<br>L3D0E<br>DFPN | SSD (std)<br>CDC<br>SDC | W (std)<br>B<br>G<br>F | LEC<br>REC<br>LREC |

## Luminaire

- Light source positioned for optimum horizontal spread of illumination.
- Light source is not visible from any viewing angle up to and including direct horizontal view.
- Delivers continuous soft wash of directed light to above surface.
- Satin Diffuser for high efficiency and soft edge beam without striations.
- Removable light source sub assembly for simple installation and maintenance.
- High efficiency linear LED in a range of outputs.
- Integral drivers and through wiring.
- Lengths and angles factory cut to exact field dimensions.
- Mitered corners available with continuous illumination.

## Fixation

- RPT = Recessed plaster trim

## Pattern

- S = Straight run<sup>1</sup>
- PC = Standard patterns coffer 2, 3 or 4 sided with 90° corners<sup>2</sup>
- PR = Standard patterns raft 2, 3 or 4 sided with 90° corners<sup>2</sup>
- PZ = Non-standard patterns and/or corners other than 90°, consult factory<sup>2</sup>

## Length

- A, B, C = specify inches to the nearest 0.25" (i.e. 72.25") For patterns specify each length (i.e. 2 sided: A x B = 72.25" x 48"; 3 sided: A x B x C; 4 sided: A x B x A x B)

## LED<sup>3</sup>

- L = 3.2W/ft low power (24V)
- M = 6.4W/ft medium power (24V)
- H = 10.5W/ft high power (24V)

## Color / Lumens<sup>4</sup>

- 90+ CRI minimum (Low/Mid/High)
- 927 = 2700K, (243/450/671 lm/ft)
  - 930 = 3000K, (251/464/692 lm/ft)
  - 935 = 3500K, (256/474/706 lm/ft)
  - 940 = 4000K, (259/478/713 lm/ft)

## Driver (remote)<sup>3</sup>

- X = No driver, ordered separately
- S = Standard driver 120-277V
- D010 = Osram, 10%, 0-10V dimming, 120-277V
- L3DAE = Lutron Hi-lume 1% EcoSystem, 120-277V
- L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- DFPN = Lutron Forward Phase 1%, 120VAC

## Lens

- SSD = Snap On Satin Diffuser (standard)
- CDC = Clear Dust Cover
- SDC = Satin Clear Dust Cover

## Finish

- W = White powder coated, 20% gloss, RAL9010 (standard)
- B = Black, 20% gloss
- G = Gray, 20% gloss
- F = Custom finished trim, specify RAL

## Options

- LEC = Left end cap
- REC = Right end cap
- LREC = Left & Right end caps

## Emergency

- Emergency LED driver available, order separately.

<sup>1</sup> Wattage shown does not include power supplies/drivers.

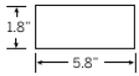
<sup>2</sup> Delivered lumens with Snap On Satin diffuser shown.

<sup>3</sup> Remote power supply required. See power supply page for details.

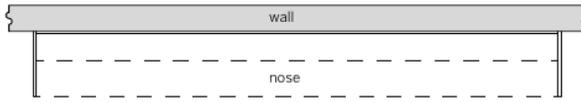
# Mini Edgeless Cove

## End Cap Details

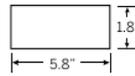
### End Caps



WG-MEC-LEC  
Left End Cap\*

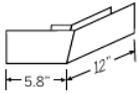


top view

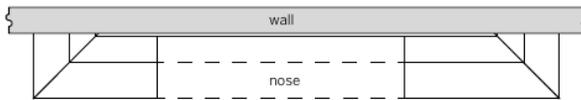


WG-MEC-REC:  
Right End Cap\*

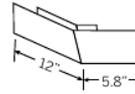
### End Returns



WG-MEC-LWR:  
Left End Wall Return\*



top view



WG-MEC-RWR:  
Right End Wall Return\*

## DOORS

### Fire Stair & BOH Doors

---

Manufacturer: Steelcraft  
Style/Series: L18 series

### Sales Rep

---

#### Primary

Nick Batrouney  
Email: nickb@discoverParagon.com  
Office Phone: 770.795.9564 x 310

### Attributes

---

Fire Stair & BOH Doors

Type: Heavy duty full flush door with vision glass

#### MATERIAL/FINISH

Material Composition: 18 Gauge Steel, 1-3/4" Thick  
Color: 1" cell kraft honeycomb  
Finish: Primed to Paint

#### MISCELLANEOUS

Lead Time: To be verified  
Warranty: To be verified

#### CUSTOM FIELDS

Fire Rating: Refer to Door Schedule  
Glazing: Refer to Door Schedule  
Hardware: Refer to Door Hardware Schedule  
Acoustical: TBD  
Door Type: NA  
Quality Standards: Door construction meets ANSI A250.8-2003 (SDI 100). Door hardware preparations and reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/DHI A115 unless otherwise noted.  
Core: 1" cell kraft honeycomb  
Louver: N/A

### Notes

---

#### Special Instructions

1. Prep for heavy duty mortised hinges
2. Galvannealed for exterior applications



## EL - Receptacles and Switches

## RECEPTACLES AND SWITCHES

### Rocker style light switches

---

Manufacturer: Leviton

Style/Series: 'Decora Devices' Rocker Switch: 5601 Series

### Sales Rep

---

#### Primary

Rick Gavenda

Email: rgavenda@leviton.com

Office Phone: (609) 409-9634

### Attributes

---

Rocker style light switches

Type: Rocker Switch

#### MATERIAL/FINISH

Material Composition: Thermoplastic

Color: White, with white wall plate

#### MISCELLANEOUS

Lead Time: Stocked product--contact Leviton customer service to verify quantities needed

Warranty: 2-Year Limited

### Notes

---

Rocker style light switch and receptacle insert color to match wallplate/faceplate color



## RECEPTACLES AND SWITCHES

### Rocker style light switches

---

Manufacturer: Leviton

Style/Series: 'Decora Devices' Rocker Switch: 5601 Series

### Sales Rep

---

#### Primary

Rick Gavenda

Email: rgavenda@leviton.com

Office Phone: (609) 409-9634

### Attributes

---

Rocker style light switches

Type: Rocker Switch

#### MATERIAL/FINISH

Material Composition: Thermoplastic

Color: Black, with Stainless Steel plate

#### MISCELLANEOUS

Lead Time: Stocked product--contact Leviton customer service to verify quantities needed

Warranty: 2-Year Limited

### Notes

---

Rocker style light switch and receptacle insert color to match wallplate/faceplate color



## RECEPTACLES AND SWITCHES

### 2 Hour UL Fire Rates 4" Round Poke Th...

---

Manufacturer: Floor Box Outlet  
Style/Series: MOI-DP1COMM4-SS-HC

### Sales Rep

---

#### Primary

Customer Service  
Email: No.Email.322  
Office Phone: (888) 385-8540

### Attributes

---

2 Hour UL Fire Rates 4" Round Poke Thru Core Drill Flush Floor Box

Type: Faceplate Cover Floor Outlet

#### MATERIAL/FINISH

Color: Stainless Steel

#### MISCELLANEOUS

Lead Time: TBD  
Warranty: 1 Year



ELK - Cubbies / Lockers

## CUBBIES / LOCKERS

### Three tier units with full perimeter ...

---

Manufacturer: Penco Storage  
Style/Series: Vanguard Lockers

### Sales Rep

---

#### Primary

##### Customer Service

Email: No.Email.493

Office Phone: 800.562.1000

### Attributes

---

Three tier units with full perimeter concealed ventilation system.  
Refer to Design Guideline Drawings for quantity.

Type: Metal Locker

Width: 12"

Height: 24"

Depth: 15"

Material Composition: Sheet Steel: ASTM A1008, Mild, stretcher-leveled cold-rolled carbon sheet steel free of buckling, scale, and surface imperfections

Color: 028 Gray

Finish: Powder Coated

Accessibility Compliance : ANSI A117.1-Side Reach Requirement

Accessories: Metal number plate, rubber bumpers, and hat/bookshelf



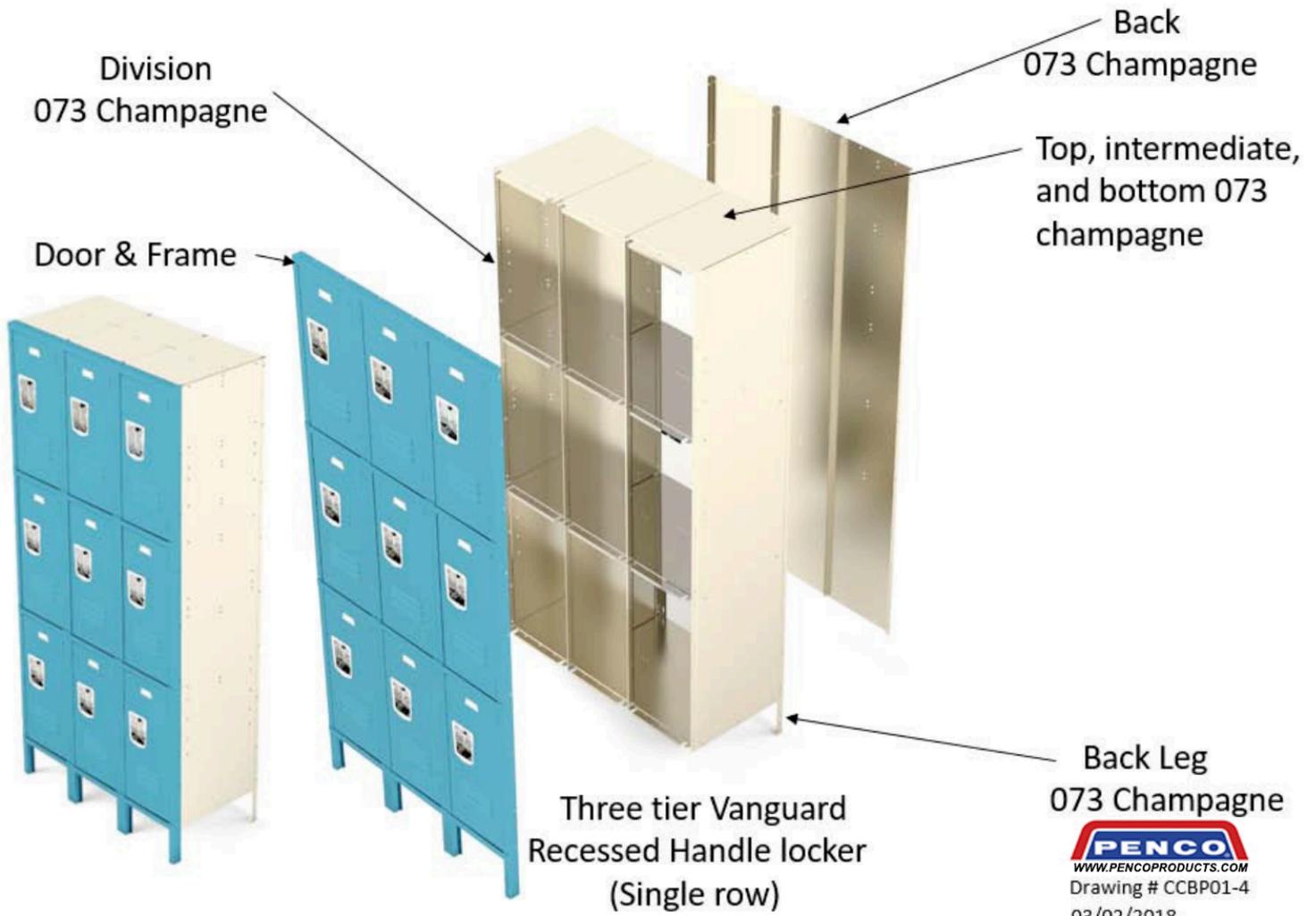
### Notes

---

1. Body and Shelf: 24 Gauge
  2. Doors: 16 Gauge
  3. Door Frames: 16 Gauge
  4. Hinges: Minimum 2" wide, full loop, tight pin type.
- Matching 12 gauge, "Z" type base, 4" high at non-recessed lockers. Finished filler panels, end panels, continuous sloped 20-gauge metal tops and top filler panels to close off all openings, finished to match lockers. Sloped tops are to be in lengths as long as practicable, but not less than four lockers.
- Recessed Handle and Latch: Manufacturer's standard housing to form a recess for latch lifter and locking devices; non-protruding latch lifter containing strike and eye for padlock; and automatic, pre-locking, pry-resistant latch with latching action with not less than three-point latching. Locking device supplied by Owner.

**COMMON COLOR BODY PARTS  
FOR THE WIN PROGRAM**

# K.D. Locker



## CUBBIES / LOCKERS

### Three tier units with full perimeter ...

---

Manufacturer: Republic Storage Systems

Style/Series: Standard Lockers

### Sales Rep

---

#### Primary

##### Customer Service

Email: No.Email.491

Office Phone: 800.477.1255

### Attributes

---

Three tier units with full perimeter concealed ventilation system.

Refer to Design Guideline Drawings for quantity.

Type: Metal Lockers

Width: 12"

Height: 24"

Depth: 15"

Material Composition: Sheet Steel: ASTM A1008, Mild, stretcher-leveled cold-rolled carbon sheet steel free of buckling, scale, and surface imperfections

Color: Monorail Gray

Finish: Powder Coated

Accessibility Compliance : ANSI A117.1-Side Reach Requirement

Accessories: Metal number plate, rubber bumpers, and hat/bookshelf

### Notes

---

1. Body and Shelf: 24 Gauge

2. Doors: 16 Gauge

3. Door Frames: 16 Gauge

4. Hinges: Minimum 2" wide, full loop, tight pin type.

Matching 12 gauge, "Z" type base, 4" high at non-recessed lockers. Finished filler panels, end panels, continuous sloped 20-gauge metal tops and top filler panels to close off all openings, finished to match lockers. Sloped tops are to be in lengths as long as practicable, but not less than four lockers.

Recessed Handle and Latch: Manufacturer's standard housing to form a recess for latch lifter and locking devices; non-protruding latch lifter containing strike and eye for padlock; and automatic, pre-locking, pry-resistant latch with latching action with not less than three-point latching. Locking device supplied by Owner.



EM - Entry-Walk Off

## ENTRY-WALK OFF

### Entry Mat

---

Manufacturer: Mohawk Group  
Style/Series: Step Up II - GT311

### Attributes

---

Entry Mat

Item Type: Walk-Off Tile  
Collection: Tuff Stuff II  
Style Name: Step Up II - GT311  
Size: 24" X 24"

### MATERIAL/FINISH

Color: Cobalt 955

### PERFORMANCE

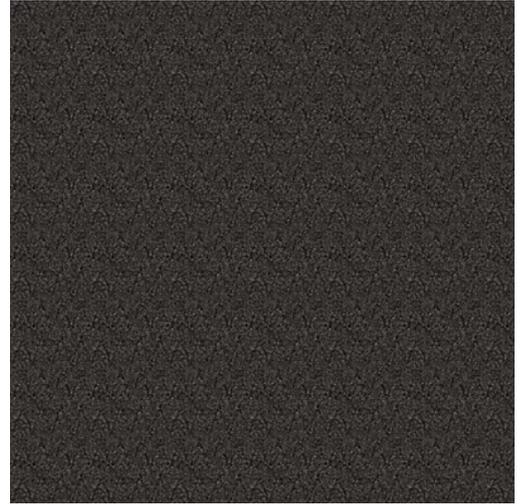
Accessibility Compliance : >0.6 meets the recommended static coefficient of friction for ADA walking surfaces and accessible routes  
Eco-Feature(s) \*as per manufacturer: See cutsheet

### MISCELLANEOUS

Backing: EcoFlex NXT  
Weight: 38.00 oz/yd<sup>2</sup> (1288 g/m<sup>2</sup>)  
Quality Standards: Must meet all applicable codes

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/ms8nvb2x>



## Step Up II

|              |                            |
|--------------|----------------------------|
| Collection   | Tuff Stuff II              |
| Style Name   | Step Up II                 |
| Style Number | GT311                      |
| Product Type | Carpet Tile                |
| Size         | 24" X 24"                  |
| Construction | Tufted                     |
| Installation | Brick Ashlar, Quarter Turn |

| Feature              | Description                |
|----------------------|----------------------------|
| Minimum Sq Yard      | No minimum                 |
| SQ Yrds per carton   | 6.22                       |
| Pounds per Carton    | 58.38                      |
| Backing Material     | EcoFlex NXT                |
| Installation Methods | Brick Ashlar, Quarter Turn |
| Stitches per Inch    | 8.5 (33.46 per 10cm)       |
| Density              | 9500                       |
| Tufted Pile Weight   | 38.00 oz/yd2 (1288 g/m2)   |



## Recommended Installation Methods



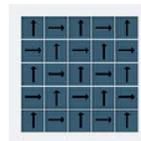
Brick Ashlar



Brick Ashlar



Brick Ashlar



Quarter Turn

## Colorways



### Walnut

Color code: 859  
Style number: GT311



### Cobalt

Color code: 955  
Style number: GT311



### Iron Ore

Color code: 983  
Style number: GT311



### Obsidian

Color code: 989  
Style number: GT311

## Performance

| Feature                          | Description                      |
|----------------------------------|----------------------------------|
| Foot Traffic Recommendation TARR | Severe                           |
| Flammability                     | ASTM E 648 - Class 1 (Glue Down) |
| Smoke Density                    | ASTM E 662 - Less than 450       |
| Static Propensity                | AATCC - 134 Under 3.5 KV         |
| Soil Release Technology          | EcoSentry Soil Protection        |

## Sustainability

| Feature                           | Description  |
|-----------------------------------|--|
| Beyond Carbon Neutral             | This product is 100% carbon neutral plus an additional 5% offset |
| Carbon Handprint                  | -0.103 kg CO2e/ft2   |
| Embodied Carbon                   | 2.06 kg CO2e/ft2   |
| Total Recycled Content            | 53%  |
| Pre-Consumer Recycled Content     | 53%  |
| NSF 140                           | <a href="#">EcoFlex NXT - NSF 140 Gold</a>                       |
| Indoor Air Quality                | GLP 1098   |
| TVOC Range                        | 0.5 mg/m3 or less  |
| Red List Free                     | True   |
| Mindful Materials                 | Participates in Mindful Materials Library                        |
| Take Back Program                 | ReCover Recycling Program  |
| Environmental Product Declaration | <a href="#">EPD EcoFlex NXT</a>                                  |
| Health Product Declaration        | <a href="#">HPD 2.1 EcoFlex NXT Gold - 1000 ppm</a>              |
| Environmental Claims Validation   | <a href="#">EPD EcoFlex NXT</a>                                  |
| Global Green Tag                  | GreenRate Level A, LCARate Silver Plus                           |
| LEED Credit Potential             | LEED Eligible  |
| Living Product Challenge          | Living Product Challenge Petal Certified                         |

## ENTRY-WALK OFF

### Walk off Mat

---

Manufacturer: Shaw Contract  
Style/Series: Welcome II Tile

### Sales Rep

---

#### Primary

David Burn  
Email: No.Email.14  
Office Phone: 301.520.9360

### Attributes

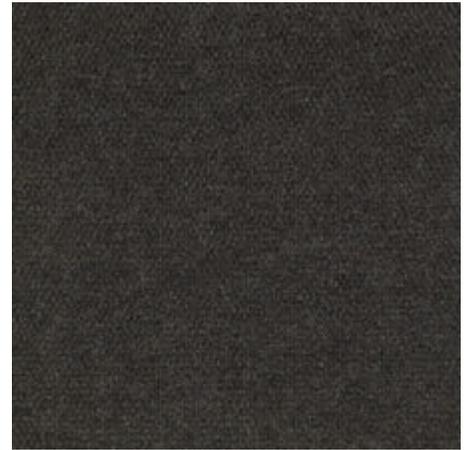
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Walk off Mat

Item Type: Entry Mat  
Description: Walk-Off Mat  
Manufacturer: Shaw Contract  
Model: Welcome II Tile  
Dimensions: Size: 24 in x 24 in (61 cm x 61 cm), Finished Pile  
Thickness: 0.157 inches3.99 mm  
Color: Black Chocolate  
Eco-Feature(s) \*as per manufacturer: refer to cut sheets for additional information  
Adhesive Options: LokWorx+ Carpet Tile Adhesive 4 gallon, LokWorx+ Carpet Tile Adhesive 1 gallon, LokWorx+ Multi-Use Adhesive, LokDots, LokWorx Adhesive Tabs, Shaw 3800, LokWorx Carpet Tile Adhesive  
Backing: Primary: Polypropylene, Secondary: Ecoworx Tile  
Weight: 49.0 oz/yd<sup>2</sup> | 1,671.06 g/m<sup>2</sup>  
Quality Standards: Must meet all applicable codes  
Warranty: Lifetime Commercial Limited Warranty

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/yffrjyzp>



EQE - Elevators

## ELEVATORS

### Gen3 Core

Manufacturer: Otis Elevator  
Style/Series: Gen 3 Core Elevator

### Sales Rep

### Primary

Customer Service  
Email: No.Email.325  
Office Phone: (800) 441-6847

### Attributes

Gen3 Core

Model: Gen3 Core

### DIMENSIONS

Dimension Explanation: Elevator cab inside dimensions & hoistway dimension as standard with manufacturer and compliant with applicable codes

Maximum Travel Height: 59'  
Rated Duty Load: 2,500 lbs

### MATERIAL / FINISH

Material Composition: Varies

### PERFORMANCE

Accessibility Compliance : Hoistway Door Jamb Markings  
Operation: Single Car operation should be: Simplex Selective  
Collective Two Cars operation should be: "Duplex Selective Collective"; Over two cars, operation should be: "Group Automatic"  
Quality Standards: ASME A17.1 Safety Code for Elevators and Escalators and Requirements of Authorities Having Jurisdiction (AHJ)

### MISCELLANEOUS

Warranty: 1 year

### CUSTOM FIELDS

Doors: Stainless steel, No. 04 Satin finish, single side-opening, two-speed

Control Panel: Push-button controls with Braille; stainless

Ceiling: 6-LED Fixture Downlight, Brushed Steel Finish

Handrail: DH-153 Flat Handrail, No. 04 Satin finish.

Walls: Plastic Laminate, refer to elevator finishes (grain to run vertically & matched) / black baked enamel reveals. Up-Charge for using Wilsonart / Match to be approved by Marriott

Base: Stainless steel No. 04 Satin finish



# Gen3™ elevator

## A platform for possibility

---

HOISTWAY DIMENSIONAL DATA



**OTIS**



A FULLY CONNECTED  
PLATFORM



# Solutions for your world

---

Our Gen3 elevator blends convenience, style and performance to deliver a new passenger experience that adds value to any residential, commercial, hospitality, medical or industrial building.

## THE GEN3 FAMILY OF ELEVATORS

- + Gen3 Core™
- + Gen3 Edge™
- + Gen3 Peak™

# Gen3 Core™

## PASSENGER ELEVATOR

|                       |                                |
|-----------------------|--------------------------------|
| Travel height maximum | 59' (18 m)                     |
| Maximum stops         | 8                              |
| Speed (fpm)           | 150 (.76 m/s) - 200 (1.02 m/s) |
| Capacity (lbs)        | 2,100 - 3,500                  |

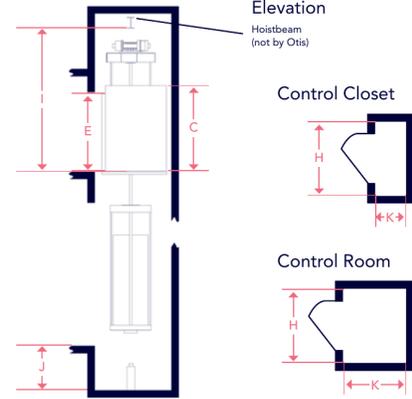
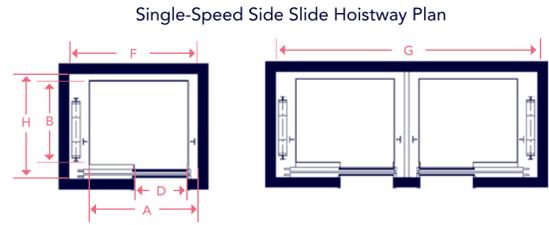
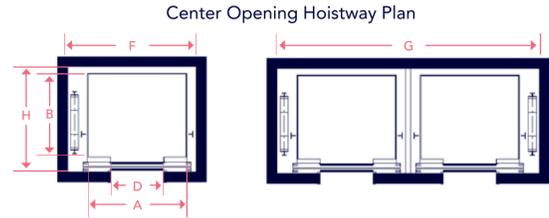
| Rated duty load   | 2,100 lbs (953 kg)                               | 2,500 lbs (1134 kg) | 3,000 lbs (1361 kg)                              | 3,500 lbs (1588 kg) | 3,500W lbs (1588 kg)                            |
|---|--|---------------------|--|---------------------|---|
| <b>A</b> Clear car width <sup>1</sup>                           | 5'-8" <sup>316</sup> / <sub>16</sub> " (1735 mm) |                     | 6'-5" <sup>11</sup> / <sub>16</sub> " (1970 mm)  |                     | 6'-8" (2032 mm)                                 |
| <b>B</b> Clear car depth for front openings <sup>1</sup>        | 4'-3" <sup>316</sup> / <sub>16</sub> " (1309 mm) |                     | 5'-0" <sup>316</sup> / <sub>16</sub> " (1528 mm) |                     | 5'-5" <sup>11</sup> / <sub>16</sub> " (1665 mm) |
| <b>C</b> Clear car depth for front & rear openings <sup>1</sup> | 4'-4" <sup>1</sup> / <sub>8</sub> " (1324 mm)    |                     | 5'-0" <sup>316</sup> / <sub>16</sub> " (1542 mm) |                     | 5'-6" <sup>1</sup> / <sub>8</sub> " (1680 mm)   |
| <b>D</b> Clear cab height <sup>1</sup>                          | 7'-9" (2362 mm)                                  |                     |  |                     |   |
| <b>D</b> Door width   | 3'-0" (914 mm)                                   | 3'-6" (1067 mm)     |  |                     |   |
| <b>D</b> Door type  | Single slide                                     |                     | Center opening or single slide                   |                     |   |
| <b>E</b> Door height  | 7'-0" (2134 mm)                                  |                     |  |                     |   |
| <b>F</b> Hoistway single width <sup>1</sup> non-seismic         | 7'-9" (2362 mm)                                  |                     | 8'-6" (2591 mm)                                  |                     | 8'-7" (2617 mm)                                 |
| <b>F</b> Hoistway single width <sup>1</sup> seismic             | 7'-11" (2413 mm)                                 |                     | 8'-8" (2642 mm)                                  |                     | 8'-9" (2667 mm)                                 |
| <b>G</b> Hoistway double width <sup>1,2</sup> non-seismic       | 15'-10" (4826 mm)                                |                     | 17'-4" (5283 mm)                                 |                     | 17'-6" (5334 mm)                                |
| <b>G</b> Hoistway double width <sup>1,2</sup> seismic           | 16'-2" (4928 mm)                                 |                     | 17'-8" (5385 mm)                                 |                     | 17'-10" (5436 mm)                               |
| <b>H</b> Hoistway depth for front openings                      | 5'-9" (1753 mm)                                  |                     | 6'-4" (1930 mm)                                  |                     | 6'-11" (2108 mm)                                |
| <b>H</b> Hoistway depth for front & rear openings               | 6'-3" <sup>1</sup> / <sub>8</sub> " (1911 mm)    |                     | 6'-11" <sup>1</sup> / <sub>8</sub> " (2130 mm)   |                     | 7'-5" <sup>1</sup> / <sub>8</sub> " (2267 mm)   |

|  |                                    |                    |
|--|------------------------------------|--------------------|
| <b>I</b> Clear overhead to hoist beam <sup>3,4</sup> | 150 fpm (76 m/s)                   | 200 fpm (1.02 m/s) |
| 7'-9" (2362 mm) cab height                           | 12'-7" (3836 mm)                   | 12'-8" (3861 mm)   |
| <b>J</b> Minimum pit depth <sup>5</sup>              | 4'-0" (1219 mm) or 5'-0" (1524 mm) |                    |

|   |                                   |
|---|-----------------------------------|
| <b>K</b> Optional control closet or room <sup>6</sup> |                                   |
| Control closet  | Hoistway depth x 3'-10" (1168 mm) |
| Control room  | Hoistway depth x 5'-9" (1753 mm)  |
| Control room-duplex                                   | Hoistway depth x 7'-6" (2286 mm)  |

1. Clear car dimensions may vary depending on motor location.  
 2. Clear car height varies by ceiling type and floor finish.  
 3. Allow a minimum of 4" (102 mm) between top of safety beam and top of hoistway.  
 4. For seismic zone, see code group, or per 2008 ASCE 7-11 Safety Check for Elevators, please contact your Otis representative for clear overhead dimensions.  
 5. Some locations require a 20" (524 mm) pit. Contact your Otis sales representative for details.  
 6. Please consult your local Otis representative regarding multi-car groups or similar dimensions.  
 7. A pit holder product may be required. Please contact your Otis representative for details.  
 8. Constructive interference can be reduced by increasing hoistway width dimensions by 2" (51 mm).

**IMPORTANT:**  
 To assist in your planning, we recommend that you call your Otis representative at the beginning of the project.



Otis gives people freedom to connect and thrive in a taller, faster, smarter world. The global leader in the manufacture, installation and servicing of elevators and escalators, we move 2 billion people a day and maintain more than 2.1 million customer units worldwide – the industry's largest Service portfolio. You'll find us in the world's most iconic structures, as well as residential and commercial buildings, transportation hubs and everywhere people are on the move. Headquartered in Connecticut, USA, Otis is 68,000 people strong, including 41,000 field professionals, all committed to meeting the diverse needs of our customers and passengers in more than 200 countries and territories. To learn more, visit [www.otis.com](http://www.otis.com) and follow us on LinkedIn, Instagram, Facebook and Twitter @OtisElevatorCo.

EQE - Assembly, Elevators

## ASSEMBLY, ELEVATORS

### 3300 MRL Traction Elevator

---

Manufacturer: Schindler Elevators  
Style/Series: 3300 MRL Traction elevator

### Sales Rep

---

#### Primary

Customer Service  
Email: No.Email.348  
Office Phone: 973-397-6500

### Attributes

---

3300 MRL Traction Elevator

Model: 3300 MRL Traction Elevator

### DIMENSIONS

Inside Car Dimensions: 6'-9 5/16" W x 4'-4 7/8" L x 7'-9" H  
Door Dimensions: 3'-6" W x 7' H  
Height: Travel: Up to 98'-5" (30.0 m)  
Shaft Dimensions: 8'-4" W x 5'-9" D (see cut sheet for more detail)

### MATERIAL / FINISH

Material Composition: Varies

### PERFORMANCE

Capacity: 2500 lbs  
Speed: 100/150 fpm  
Max number of stops: 10

### MISCELLANEOUS

Notes / Special Instructions: For jurisdictions following ASME A17.1 code prior to 2009, please add 1 additional inch of overhead at 150 FPM.

### CUSTOM FIELDS

Doors: Front Entrance Type 2SSO 2-speed side opening  
Door Frames: Stainless steel, No. 04 Satin finish, side-opening, two-speed  
Control Panel: Push-button controls with Braille; stainless  
Ceiling: 6-LED Fixture Downlight, Stainless Steel  
Handrail: Stainless steel, 2" fat, No. 04 Satin finish.  
Walls: Plastic Laminate, refer to elevator finishes (grain to run vertically & matched) / black baked enamel reveals. Up-Charge for using Wilsonart / Match to be approved by Marriott  
Base: Stainless steel No. 04 Satin finish



# Schindler 3300 MRL Traction Elevator

## General Purpose

Standard Speeds: 100, 150 fpm (0.5, 0.75 m/s)  
Stops, Openings: Max. 10 stops, 15 openings max  
Travel: Up to 98'-5" (30.0 m)

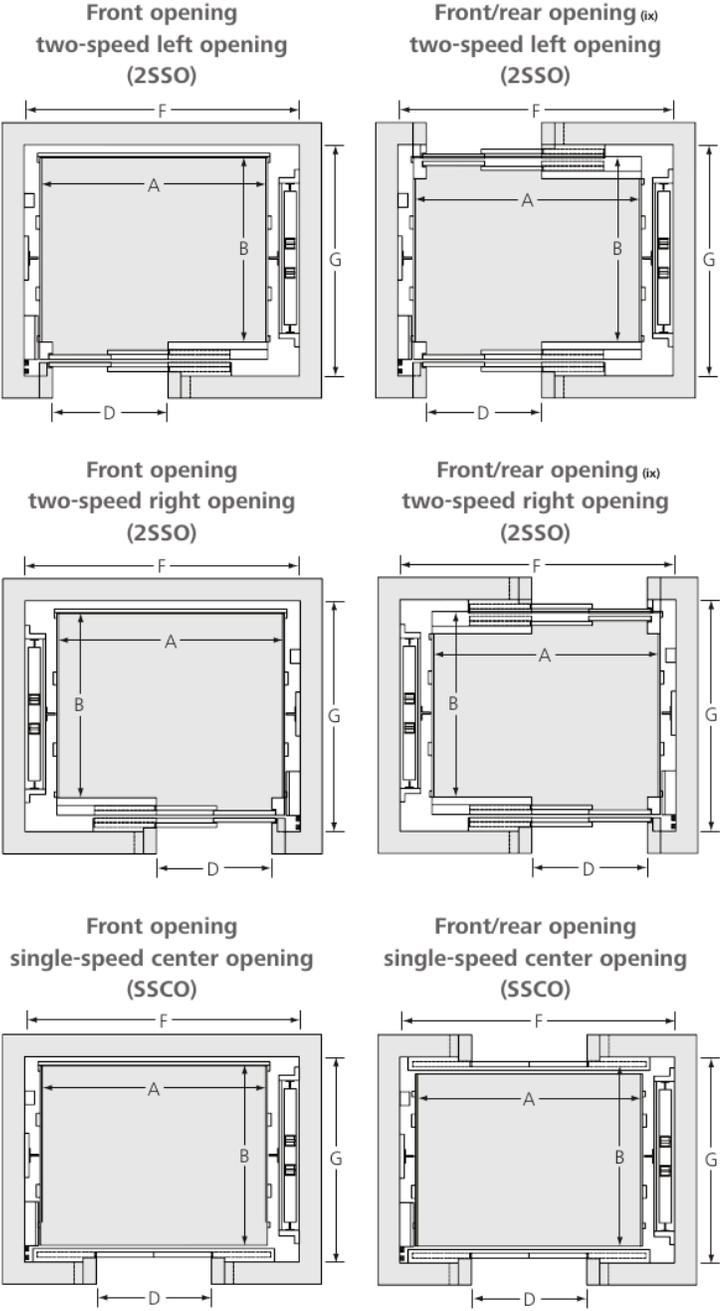


# Schindler 3300 MRL Traction Elevator

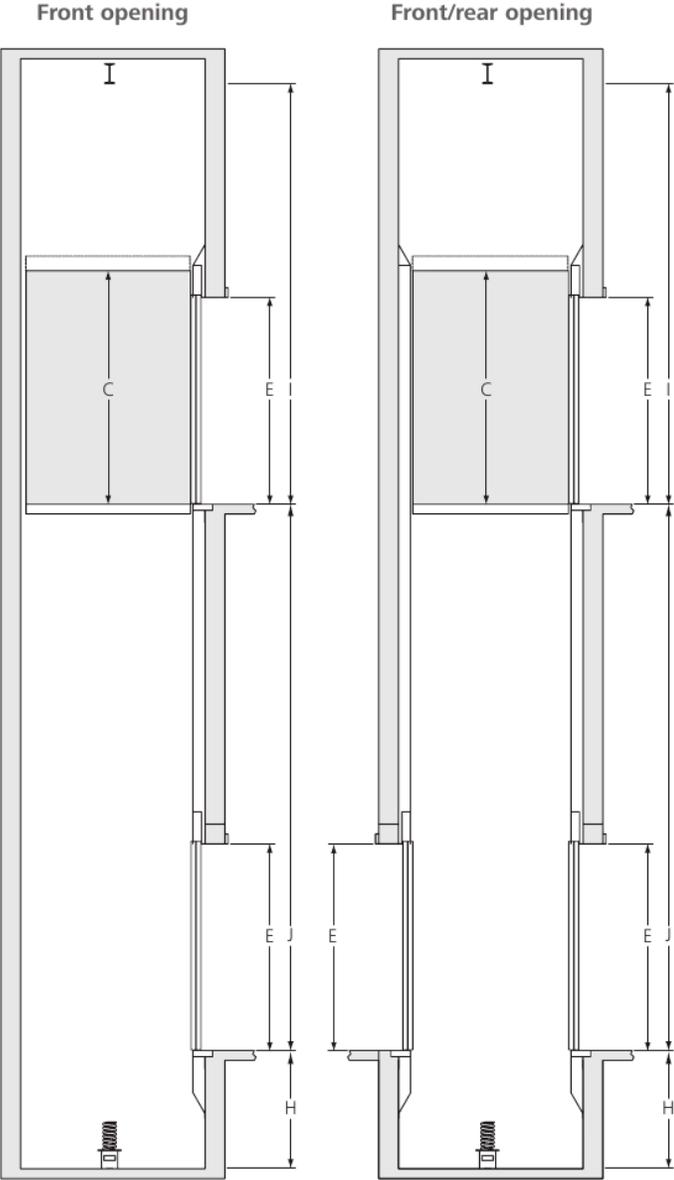
## General Purpose

Standard Speeds: 100, 150 fpm (0.5, 0.75 m/s) 16 Openings max  
 Travel: Up to 98'-5" (30.0 m)

**Hatch plans**



**Hoistways**



For jurisdictions following ASME A17.1 code prior to 2009, please add 1 additional inch of overhead at 150 FPM.

**Machine room-less traction elevator with frequency-controlled drive**

**Capacity 2100 – 3500 lbs, 13 – 21 passengers**

| Capacity    | Passengers max. | Speed            | Number of stops max. | Available entrances max. | Car (Inside)              |                           |  | Door                             |                    |            | Shaft (Inside)       |                      |              |                  | Travel height max. |   |
|-------------|-----------------|------------------|----------------------|--------------------------|---------------------------|---------------------------|--|----------------------------------|--------------------|------------|----------------------|----------------------|--------------|------------------|--------------------|---|
|             |                 |                  |                      |                          | A in (mm)                 | B in (mm)                 | C in (mm)  | Door type                        | D in (mm)          | E in (mm)  | Entrance type (x)    | F (iii)(vii) ft (mm) | G ft (mm)    | H (viii) ft (mm) |                    | I (iv) ft (mm)                              |
| 2100 (950)  | 13              | 100/150 (.5/.75) | 10                   | 15                       | 5'-9 5/16" (1761)         | 4'-4 7/8" (1343)          | 7'-9" (2366)   | 2SSO                             | 3'-0" (915)        | 7' (2134)  | Front or             | 7'-4" (vii) (2235)   | 5'-9" (1755) | 5'-0"            | 12'-7" (3835)      | 98'-5" (30.0) / 150 (.75) 59' (18)/100 (.5) |
|             |                 |                  |                      |                          |                           |                           |  |                                  |                    |            | Front/rear           | 7'-4" (vii) (2235)   | 6'-5 5/8"    | 5'-0"            | 12'-7" (3835)      |   |
| 2500 (1135) | 15              | 100/150 (.5/.75) | 10                   | 15                       | 6'-9 5/16" (2066)         | 4'-4 7/8" (1343)          | 7'-9" (2366)   | 2SSO/SSCO                        | 3'-6" (1067)       | 7' (2134)  | Front or             | 8'-4" (vii) (2540)   | 5'-9" (1755) | 5'-0"            | 12'-7" (3835)      |   |
|             |                 |                  |                      |                          |                           |                           |  | Front/rear                       | 8'-4" (vii) (2540) | 6'-5 5/8"  | 5'-0"                | 12'-7" (3835)        |              |                  |                    |   |
| 3000 (1360) | 18              | 100/150 (.5/.75) | 10                   | 15                       | 6'-9 5/16" (2066)         | 4'-10 7/8" (1495)         | 7'-9" (2366)   | 2SSO/SSCO                        | 3'-6" (1067)       | 7' (2134)  | Front or             | 8'-4" (vii) (2540)   | 6'-3" (1905) | 5'-0"            | 12'-7" (3835)      |   |
|             |                 |                  |                      |                          |                           |                           |  | Front/rear                       | 8'-4" (vii) (2540) | 6'-11 5/8" | 5'-0"                | 12'-7" (3835)        |              |                  |                    |   |
| 3500 (1590) | 21              | 100/150 (.5/.75) | 10                   | 15                       | 6'-9 5/16" (2066)         | 5'-6 7/8" (1699)          | 7'-9" (2366)   | 2SSO/SSCO                        | 3'-6" (1067)       | 7' (2134)  | Front or             | 8'-4" (vii) (2540)   | 6'-11 1/16"  | 5'-0"            | 12'-7" (3835)      |   |
|             |                 |                  |                      |                          |                           |                           |  | Front/rear                       | 8'-4" (vii) (2540) | 7'-7 5/8"  | 5'-0"                | 12'-7" (3835)        |              |                  |                    |   |
|             |                 |                  |                      |                          | <b>A</b> Inside cab width | <b>B</b> Inside cab depth | <b>C</b> Inside cab height to underside of roof. [Inside cab height to finished ceiling is 7'-5 3/16" (2265).] | 2SSO 2-speed side opening (x)    |                    |            | <b>F</b> Shaft width |                      |              |                  |                    |   |
|             |                 |                  |                      |                          |                           |                           |  | SSCO Single speed center opening |                    |            | <b>G</b> Shaft depth |                      |              |                  |                    |   |
|             |                 |                  |                      |                          |                           |                           |  | <b>D</b> Door Width              |                    |            | <b>H</b> Pit depth   |                      |              |                  |                    |   |
|             |                 |                  |                      |                          |                           |                           |  | <b>E</b> Door Height             |                    |            | <b>I</b> Overhead    |                      |              |                  |                    |   |

**Notes:**

- All dimensions are for information only and cannot be used for construction purposes without Schindler confirmation.
- (i) 2SSO doors available with right or left opening.
- (ii) Duplex operation available.
- (iii) Areas in seismic zone 2 or greater may require up to 3 1/2" more hoistway width. Please contact your Schindler Sales Representative for details and options.
- (iv) Clear overhead is defined from the lowest point below any obstruction such as: hoist beam(s), building beams, or roof structure to floor of top landing. For jurisdictions following ASME A17.1 code prior to 2009, please add 1 additional inch of overhead at 150 FPM.
- (v) Where permitted by code, no control closet is required. A 3-phase disconnect must be located in both the hoistway overhead and a location in the building outside of the hoistway. 110v disconnect should be located outside of hoistway. Disconnects are not required to be an elevator-dedicated space. Please confirm with local requirements.
- (vi) Travel height max. varies depending on speed (FPM) and capacity (lbs).
- (vii) Schindler recommends 8'-6" (2500 – 3500 lbs) and 7'-6" (2100 lbs), providing additional hoistway tolerances.
- (viii) Please contact your Schindler Sales Representative for options less than 5'-0".
- (ix) Please contact your Schindler Sales Representative for additional hatch options such as diagonal entrances.
- (x) Shaft dimensions depend on if there are front or front/rear entrances.

# Schindler 3300 MRL Traction Elevator

## General Purpose

Standard Speeds: 100, 150 fpm (0.5, 0.75 m/s) 16 Openings max  
Travel: Up to 98'-5" (30.0 m)

### General requirements

Requirements for installation vary by type of equipment selected. These general requirements assist you in preparing your building for the installation of Schindler elevators. All designs, clearances, construction, workmanship and materials, unless specifically excepted, shall be in accordance with the requirements of the latest published ASME A17.1 Code for electric traction elevators plus applicable building code and local codes. State or local requirements must be used if more stringent.

**Items to be provided** — A complete installation includes the following items not included in the elevator contract:

1. Clear, plumb hoistway, with variations on a minimum dimension hoistway not to exceed -0" and +1" (25.4 mm) per side at any point. Tolerance may increase to variations not to exceed -1" (-25.4 mm) and +1" (25.4 mm) per side at any point when an additional 2" (50.8 mm) is provided on the hoistway width dimension.
2. Two-hour fire resistance of hoistway walls or rating to meet applicable local codes. 75° bevel guards on all projections, recesses or setbacks over 4" (102 mm) except on side used for loading or unloading. The overhead machinery space temperature at top of hoistway to be maintained between 41° F (5° C) and 104° F (40° C) and < 95% relative humidity, non-condensing.
3. Supports for rail brackets at pit, each floor and one or two locations above top floor in the overhead (application dependent). Divider beams between hoistways at each floor level and one or two locations above top floor in the overhead for guide rail bracket supports. Locate per layout. For masonry block hoistway construction, Schindler will provide rail bracket inserts for installation by others, located per the Schindler final layout drawings. Where inserts are not used, hollow masonry blocks are not acceptable for bracket fastening. Provide 125 mm (5") concrete belt around hoistway or other acceptable support at each floor, in overhead, and intermediate levels (if required). For max. rail bracket vertical spacing, contact your local sales representative.
4. Supply hoist/safety beam for elevator construction and service work. Beam to run across the width of the elevator shaft. Locate per layout. Hoist beam to be left in place after elevator installation.
5. A temporary work platform is required for installation. It is to be constructed at the top floor of each elevator. It must comply with applicable governing codes and regulations. The platform shall be securely fastened to the building structure. Erection, maintenance, and removal are by others. (Reference Schindler drawing TD440.)
6. Lighting, light switch and duplex receptacle (GFCI) for each elevator, in the center of hoistway pit and in the elevator overhead/machinery space, as indicated by Schindler. The pit light switch located adjacent to access door.
7. Recesses, supports, and patching, as required, to accommodate hall button boxes, signal fixtures, etc. (if required).
8. All barricades outside elevator hoistways or between elevators inside hoistways.
9. Dry pit reinforced to sustain normal vertical forces from rails and buffers.
10. Drains & sumps in elevator pits, where provided, shall comply with the plumbing code, and shall be provided with a positive means to prevent water, gases and odors from entering the hoistway. The cover must be secured and level with the pit floor and located to clear elevator equipment. (Cannot be connected directly to storm drain or sewer.)
11. Pit ladders shall be provided where required.

### Inspection and test panel

12. A switch placed adjacent to the jamb-mounted inspection and test panel enclosure shall control lighting in front of the panel. Minimum lighting to be 200 lux (19 fc).
13. A lockable, 13 1/2" x 15 1/2" x 3 1/2" (minimum), metal cabinet with group-1 key to house required electrical schematics and maintenance history documents, shall be wall mounted, adjacent to the disconnect switch, by others, at the top landing. The supplier, location, and mounting of the cabinet shall be coordinated with Schindler.
14. Provide, preferably on the same floor as the elevator inspection and test panel, a lockable panel with a fused disconnect switch or circuit breaker suitable for 3-phase power for the elevator control, and a fused disconnect switch or circuit breaker for car lighting for each elevator in a separate lockable panel adjacent to the 3-phase panel or within the 3 phase panel. The panel(s) must be accessible to qualified personnel only (NEC NFPA req. 620.51[C]) with a Group 2 key (ASME A17.1 req. 8.1.3). Alternative locations for the panel(s) can be considered, provided they are located in accessible areas without obstructions to qualified personnel in compliance with NEC NFPA req. 620.51(C). Locate and mark the panels and disconnects with appropriate signage, (NEC NFPA 70 req. 620-22 and 620-51, or CSA C22.1-02 sections 38-022 and 38-053). The disconnects or circuit breakers may also be located without panels in a Group 2 key-secured room identified and dedicated to elevator apparatus only, and in all cases must be capable of being locked in the open position with a lock that cannot be removed from the devices or panel(s). FOR DRIVE IN HOISTWAY CONFIGURATION ONLY: Electrical contractor to supply an additional lockable auxiliary non-fused disconnect in the hoistway at the location of the drive (motor controller), along with wiring from the main disconnect to the auxiliary disconnect (see also NEC NFPA 70 - 2008 req. 620.51[C](1)). This disconnect must also be lockable in the open position with a secured lock that cannot be removed from the device.

15. For ALL power circuits:
  - a. If a sprinkler head is located in the hoistway or other disconnect location, any disconnect served by that sprinkler head must be NEMA 3 compliant. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 12-2010 requirement 8.15.5.6 (see also 8.15.5.3) and A.8.15.5.3).
  - b. In U.S. jurisdictions ONLY, when a sprinkler head is located in the hoistway, the building shall provide shunt trip activation of a) JH, the main disconnect or b) the feed to the main disconnect, triggered by contacts of the fire recall initiating devices (as defined by NFPA). These devices, located in the hoistway or other disconnect location, shall provide independent disconnection of electrical power to both main and auxiliary power circuits prior to sprinkler activation (ASME A17.1-2007/CSA B44-07 rule 2.8.3.3. and/or local code).

### Control spaces (When specified in lieu of an Inspection and Test Panel, a partial or full body entry space/room shall be provided.)

16. Enclosed and protected control space at top landing adjacent to the hoistway wall closest to the elevator hoist machine. Two-hour fire rating of control space walls or rating to meet applicable local codes.
17. Provide fire-rated, self-closing, self-locking door. Door must be capable of opening 180 degrees for access to control space.
18. 42" (1067 mm) minimum clear space is required in hallway in front of control space door and top hoistway entrance for service barriers. Additional hallway width may be required, subject to local building, fire and ADA codes.
19. The temperature in front of the control space must be maintained between 32° F (0° C) and 104° F (40° C) and less than 95% relative humidity, non-condensing, for proper operation of equipment.
20. Disconnects for each elevator must be provided per National Electrical Code (NFPA No. 70) and located inside the elevator control space.

### Other wiring

21. Suitable copper feeder, ground and branch wiring circuits for signal system and power operated door. Feeder and branch wiring circuits for car light and fan.
22. Telephone outlet provided at the inspection and test panel or in control closet (where applicable).
23. All conduit and wire runs remote from either the control space or hoistways (if required).
24. Heat, smoke or products of combustion-sensing devices connected to elevator control space terminals when such devices are required. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 13-2010 requirement 8.15.5.6 (see also 8.15.5.3 and A.8.15.5.3). Shunt trip circuit breaker shall also be installed when sprinklers are present in the hoist way.

### Emergency provisions

25. Elevator Firefighter's and other emergency services, depending on height of the building or number of landings, per ASME A17.1 Rule 2.27.3 and local codes.
26. Elevator Firefighter's and other emergency services' wiring and interconnections to automatic sprinkler systems or heat and smoke-sensing devices furnished by others.
27. When emergency/standby power operation of elevators is required, the Electrical Contractor should coordinate with Schindler for operation requirements.
28. Provisions for earthquake protection, dictated by building code, are required in various sections of the country.

### Entrances

29. Hoistway walls must have a fire rating per ASME A17.1 Rule 2.1.1.1.
30. Furnishing, installing and maintaining the required fire rating of elevator hoistway walls, including the control spaces and also the penetration of fire wall by elevator fixture boxes (if applicable), is not the responsibility of the elevator contractor.
31. The interface of the elevator wall with the hoistway entrance assembly shall be in strict compliance with the elevator contractor's requirements.
32. Entrance wall and finished floor are not to be constructed until after door frames and sills are in place.
  - a. Where front walls are of reinforced concrete, the concrete openings must be minimum 16" (406 mm) wider [8" (203 mm) on each side] and 8" (203 mm) higher than the clear opening.
  - b. Where drywall or sheet rock construction is used for front walls, it shall be of sufficient strength to maintain the doors in true lateral alignment. Drywall contractor to coordinate with the elevator contractor.  
Note: A support member must be provided for floor heights greater than 15'-0" (4572 mm) to support entrance header struts.
33. Door frames are to be anchored to walls and properly grouted in place to maintain legal fire rating (masonry construction).
33. Filling and grouting around entrance by others.
34. Where openings occur, all walls and sill supports must be plumb.

U.S. Headquarters. Morristown, New Jersey  
Toll-Free 877.696.8382 [www.us.schindler.com](http://www.us.schindler.com)

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Tel. 416.332.8280 [www.ca.schindler.com](http://www.ca.schindler.com)



Schindler is a member organization of the U.S. Green Building Council.



Schindler has received renewal to ISO 9001 and ISO 14001 certificates.



Schindler prints with vegetable-based ink on paper containing post-consumer waste fiber.

ERA - Miscellaneous Appliances & Electronics

## MISCELLANEOUS APPLIANCES & ELECTRONICS

---

Manufacturer: ABSOCOLD  
Style/Series: Apt-Size Refrigerator/Freezer

### Sales Rep

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#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Office Phone: 855-521-1805  
Mobile Phone: 949-289-3058

### Attributes

---

Item Type: Apartment-Size Refrigerator  
Description: Refrigerator/Freezer 10.3 cu. ft. Frost-Free TopFreezer  
Manufacturer: Absocold  
Model: ARD1033F  
Dimensions: 58 3/4" H, 23 5/8" W, 26 3/4" D  
Finish: Stainless  
Energy Star: Yes - Tier 1

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/5n8ahtfs>



# Absocold® ENERGY STAR® Qualified Apartment-Size Refrigerator/Freezer 10.3 cu. ft. Frost-Free TopFreezer



## ARD1033F

- Black**  
Model: ARD1033FB
- White**  
Model: ARD1033FW
- Stainless**  
Model: ARD1033FS



### FEATURES

|                           |   |
|---------------------------|---|
| Energy                    | ENERGY STAR® Qualified - Tier I<br>297 KWH/Yr Energy Consumption<br>10% less energy than Federal Standard |
| Defrost Type              | Frost-Free  |
| Refrigerant Type          | Non-Flammable R134A   |
| Foaming Agent             | Non-Flammable 245F  |
| Temperature Control       | Full Range Control  |
| Door Type                 | Easy-Clean Euro-Round Doors   |
| Door Handles              | Integrated Handles  |
| Door-Swing                | Reversible (Factory Standard, Right-Hand Hinge)   |
| Interior Lighting         | Automatic Refrigerator Light  |
| Crisper                   | 1 Full-Width See-Thru Crisper   |
| Interior Shelves          | 2 Full-Width Adjustable Wire Shelves<br>1 Full-Width Glass Crisper Cover                                  |
| Refrigerator Door Storage | 4 Full-Width Shelves<br>Lower Shelf accepts 2-Liter Bottles   |
| Freezer Interior          | 1 Full-Width Shelf  |
| Freezer Door Storage      | 2 Full-Width Shelves  |
| Leveling                  | 2 Front Adjustable Leveling Feet  |
| Capacity                  | 10.3 cu. ft. Total Capacity<br>7.9 cu. ft. Refrigerator<br>2.4 cu. ft. Freezer                            |

### INSTALLATION REQUIREMENTS

Remove all packing material and tape. Install on a level floor or well-supported counter. Avoid any direct sunlight, heat source, or moisture. This product is designed to be *freestanding* and must be installed at least 2" from the wall, and the cabinet bottom is at least 3/4" to 1" above the floor or carpet, in order to let the air circulate freely around the unit.

### DIMENSIONS

|                 |              |
|-----------------|--------------|
| Height          | 58 3/4 in.   |
| Width           | 23 5/8 in.   |
| Depth           | 26 3/4 in.   |
| Weight          | 127 lbs.     |
| Carton Height   | 60 1/2 in.   |
| Carton Width    | 26 1/4 in.   |
| Carton Depth    | 29 3/8 in.   |
| Shipping Weight | 140 lbs.     |
| Shipping Cube   | 27.0 cu. ft. |

### ELECTRICAL

A minimum 15 AMP electrical supply is required (20 AMP electrical supply preferred). A time-delay fuse or circuit breaker and separate circuit is recommended. 115V, 60 Hz.

Running Amperage: 1.6 AMPS

Product specifications subject to change without notice



Listed by  
Underwriters  
Laboratories.

Absocold, P.O. Box 1545, Richmond, IN 47375 Toll-Free: 800-843-3714 • Fax: 765-935-3450  
www.absocold.com • absocold@absocold.com

## MISCELLANEOUS APPLIANCES & ELECTRONICS

---

Manufacturer: Whirlpool  
Style/Series: Dishwasher

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Office Phone: 855-521-1805  
Mobile Phone: 949-289-3058

### Attributes

---

Item Type: Front Control Dishwasher  
Description: Break Room Dishwasher  
Manufacturer: Whirlpool  
Model: WDF330PAH  
Dimensions: 34-1/2" x 23-7/8" x 24-1/2"  
Finish: Stainless Steel  
Energy Star: Yes

### NOTES

Manufacturer Data Sheet: Spec sheet on product page:  
<https://tinyurl.com/yy8dp4p8>





# 55 dBA\* Front Control Dishwasher

WDF330PAH



Stainless Steel  
WDF330PAHS

### Also available in:

- White **WDF330PAHW**
- Black **WDF330PAHB**

### Capacity

|                      |    |
|----------------------|----|
| Total Place Settings | 13 |
|----------------------|----|

### General Features & Properties

Heavy Cycle

High Temperature Wash Option

Heated Dry Option

ENERGY STAR® Certified

Industry's Best Selling Dishwasher Brand†

Designed, Engineered and Assembled in the U.S.A. with American Pride

### Electrical Details

|      |    |
|------|----|
| Amps | 10 |
|------|----|

|       |     |
|-------|-----|
| Volts | 120 |
|-------|-----|

|    |    |
|----|----|
| Hz | 60 |
|----|----|

### Certifications

|                        |     |
|------------------------|-----|
| ENERGY STAR® Certified | Yes |
|------------------------|-----|

### Technical Details

|                 |          |
|-----------------|----------|
| Dishwasher Type | Built-in |
|-----------------|----------|

|                  |       |
|------------------|-------|
| Control Location | Front |
|------------------|-------|

|              |             |
|--------------|-------------|
| Control Type | Push Button |
|--------------|-------------|

|                       |   |
|-----------------------|---|
| Number of Wash Cycles | 3 |
|-----------------------|---|

|                   |   |
|-------------------|---|
| Number of Options | 4 |
|-------------------|---|

|      |    |
|------|----|
| dBA* | 55 |
|------|----|

|                 |   |
|-----------------|---|
| Number of Racks | 2 |
|-----------------|---|

|              |         |
|--------------|---------|
| Tub Material | Plastic |
|--------------|---------|

|             |        |
|-------------|--------|
| Wash System | Filter |
|-------------|--------|

|                  |                  |
|------------------|------------------|
| Wash System Type | Removable Filter |
|------------------|------------------|

|                     |   |
|---------------------|---|
| Number of Wash Arms | 2 |
|---------------------|---|

### Dimensions

|                                |                             |
|--------------------------------|-----------------------------|
| Product Dimensions (H x W x D) | 34-1/2" x 23-7/8" x 24-1/2" |
|--------------------------------|-----------------------------|

|                          |         |
|--------------------------|---------|
| Depth with Door Open 90° | 49-1/2" |
|--------------------------|---------|

### Reference Material

[Dimension Guide](#)

[Install Guide](#)

[Use & Care Guide](#)

[Energy Guide](#)

[Warranty](#)

### Key Features & Benefits

#### 1-Hour Wash Cycle

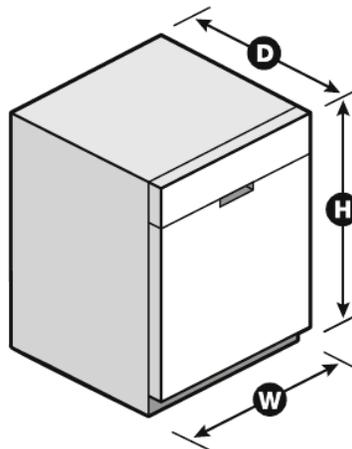
Clean dishes in half the time so your plates, pans and glasses are thoroughly cleaned up and taken care of in just an hour.\*\*

#### Soil Sensor

Determines how dirty dishes are and adjusts the Normal cycle as needed to make sure dishes come out clean.

#### Normal Cycle

Use for normal amounts of food soil to clean up leftover messes from your day-to-day meals.



\*Per IEC standards. \*\*Compared to Normal cycle with lightly soiled loads. †Based on 12-month average of sales. TraQline 2018. NOTE: Dimensions are for planning purposes only. For complete details, see Installation Instructions packed with product. Specifications subject to change without notice. ©/™ © 2020. All rights reserved. Printed in the U.S.A. D200052XXA. WDF330PAHSPECSHEETV01.

## MISCELLANEOUS APPLIANCES & ELECTRONICS

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Manufacturer: Whirlpool  
Style/Series: Countertop Microwave with Greater Capacity

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Office Phone: 855-521-1805  
Mobile Phone: 949-289-3058

### Attributes

---

Item Type: 2.2 cu. ft. Countertop Microwave with Greater Capacity  
Description: Break Room Microwave  
Manufacturer: Whirlpool  
Model: UMC5225G  
Dimensions: H 12-9/16" x W 24" x D 19-5/8"  
Finish: Stainless Steel  
Warranty: Limited Standard Warranty Included

### NOTES

Manufacturer Data Sheet: Spec Sheet on Product Page:  
<https://tinyurl.com/3p9c95pb>





# 2.2 cu. ft. Countertop Microwave

## UMC5225G



Fingerprint Resistant Stainless Steel  
UMC5225GZ

### Also available in:

- White **UMC5225GW**
- Black **UMC5225GB**

### Capacity

|       |             |
|-------|-------------|
| Total | 2.2 cu. ft. |
|-------|-------------|

### General Features & Properties

- Built-In Trim Kit (Optional)
- Sensor Cooking
- Control Lockout Option
- Add 30 Seconds Option
- Variable Cooking Power
- Popcorn Button
- Mesh Grease Filter
- ADA Compliant

### Electrical Details

|       |     |
|-------|-----|
| Amps  | 15  |
| Volts | 120 |

### Certifications

|               |     |
|---------------|-----|
| ADA Compliant | Yes |
|---------------|-----|

### Technical Details

|                |              |
|----------------|--------------|
| Microwave Type | Countertop   |
| Lighting Type  | Incandescent |

### Dimensions

|                                |                          |
|--------------------------------|--------------------------|
| Product Dimensions (H x W x D) | 12-9/16" x 24" x 19-5/8" |
|--------------------------------|--------------------------|

### Reference Material

[Install Guide](#)

[Use & Care Guide](#)

[Warranty](#)

## Key Features & Benefits

### Fingerprint Resistant Stainless Steel

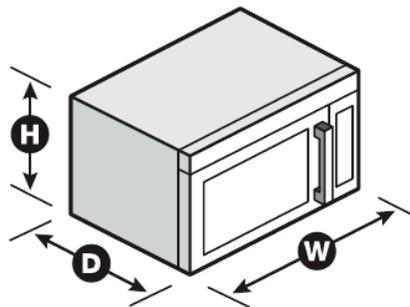
Easy-to-clean, fingerprint resistant stainless steel keeps your microwave looking as good on the outside as it works on the inside.

### 2.2 cu. ft. Capacity

With 2.2 cu. ft. capacity, you can enjoy the space to heat or cook in your large casserole dishes and pans that are usually left to the oven.

### Countertop Design

Built tough to take on your cooking needs, this countertop microwave brings powerful features that are an easy reach away.



NOTE: Dimensions are for planning purposes only. For complete details, see Installation Instructions packed with product. Specifications subject to change without notice.

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## FC - Floor Sealants and Coatings

## FLOOR SEALANTS AND COATINGS

### 100% acrylic, low odor, waterborne fl...

---

Manufacturer: Sherwin Williams  
Style/Series: B90 Series

### Sales Rep

---

#### Primary

Matt Wessel  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

---

100% acrylic, low odor, waterborne floor coating.

Type: Acrylic Water Based Floor Coating

#### MATERIAL/FINISH

Material Composition: Acrylic  
Color: SW7068 Grizzle Gray  
Finish: Semi-Gloss

#### PERFORMANCE

Accessibility Compliance : Meets ADA requirements for slip resistance for floors

#### CUSTOM FIELDS

Product/Color: B90 Series/SW7068 Grizzle Gray  
Finish: Semi-Gloss

### Notes

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Prepare surface per Manufacturer's recommendations





# ArmorSeal Heavy Duty Floor Coatings

100% ACRYLIC WATER BASED FLOOR COATING

# ARMORSEAL® TREAD-PLEX™

B90 SERIES

Revised: August 12, 2019

## PRODUCT INFORMATION

8.12

### PRODUCT DESCRIPTION

ARMORSEAL TREAD-PLEX is a general purpose, interior/exterior, 100% acrylic, low odor, waterborne floor coating. This dries rapidly to a tough, alkali resistant finish which will withstand hard wear, abrasion, grease, oils, and cleaning equipment.

- One component
- Fast dry
- Slip resistant properties
- Abrasion resistant
- Outstanding application properties
- Water clean up

### PRODUCT CHARACTERISTICS

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Finish:</b>              | Semi-Gloss                       |
| <b>Color:</b>               | Wide variety of colors available |
| <b>Volume Solids:</b>       | 43% ± 2%, may vary by color      |
| <b>Weight Solids:</b>       | 55% ± 2%, may vary by color      |
| <b>VOC (EPA Method 24):</b> | <100 g/L; .83 lb/gal             |

#### Recommended Spreading Rate per coat:

|  | Minimum    | Maximum    |
|--|------------|------------|
| <b>Wet mils (microns)</b>  | 3.5 (88)   | 4.5 (112)  |
| <b>Dry mils (microns)</b>  | 1.5 (40)   | 2.0 (50)   |
| <b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>                                     | 345 (8.4)  | 460 (11.3) |
| <b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b> | 688 (16.8) |            |

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 4.0 mils wet (100 microns):

|                       | @ 55°F/13°C | @ 77°F/25°C<br>50% RH | @ 100°F/38°C |
|-----------------------|-------------|-----------------------|--------------|
| <b>To touch:</b>      | 45 minutes  | 30 minutes            | 10 minutes   |
| <b>To recoat:</b>     | 6 hours     | 4 hours               | 30 minutes   |
| <b>Foot traffic:</b>  | 18 hours    | 8 hours               | 1 hour       |
| <b>Heavy traffic:</b> | 24 hours    | 18 hours              | 6 hours      |
| <b>To cure:</b>       | 7 days      | 7 days                | 7 days       |

Drying time is temperature, humidity, and film thickness dependent.

|                          |   |
|--------------------------|---|
| <b>Shelf Life:</b>       | 24 months, unopened<br>Store indoors at 50°F (10°C) to 100°F (38°C) |
| <b>Flash Point:</b>      | >200°F (93°C), PMCC   |
| <b>Reducer/Clean Up:</b> | Water   |

### RECOMMENDED USES

For use over prepared concrete and wood floors, steps, stairwells, aisleways, or previously painted floor surfaces in sound condition.

- Laboratories
- Light assembly and production areas
- Hospitals
- Industrial/commercial office areas
- Helipads
- Not recommended for areas subject to hot tire pickup
- Meets ADA requirements for Slip Resistance for floors
- Suitable for use in USDA inspected facilities

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Concrete

**Surface Preparation\*:** Clean, dry, sound

**System Tested\*:**

2 cts: ArmorSeal Tread-Plex @ 4.0 mils (100 microns) dft  
\*unless otherwise noted below

| Test Name                                     | Test Method  | Results   |
|---|--|---|
| <b>Abrasion Resistance</b>                    | ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load           | No more than 37 mg loss                                 |
| <b>Adhesion</b>                               | ASTM D4541; ASTM D3359                                   | 702 psi (ASTM D4541); 5A (ASTM D3359)                   |
| <b>Direct Impact Resistance, on steel</b>     | ASTM D2794   | 30 in. lb.  |
| <b>Dry Heat Resistance</b>                    | ASTM D2485   | 150°F (66°C), intermittent at 200°F (93°C)              |
| <b>Flexibility</b>                            | ASTM D522, 180° bend, 1/8" mandrel                       | Passes  |
| <b>Humidity Resistance</b>                    | ASTM D4585, 500 hours                                    | Rating 10 per ASTM D714 for blistering                  |
| <b>Pencil Hardness</b>                        | ASTM D3363   | F   |
| <b>Scrub Resistance (3 mils dft)</b>          | ASTM D2486, Section 8                                    | Passes 1000 cycles minimum                              |
| <b>Slip Resistance, Floors</b>                | ASTM C1028**, .60 Minimum Static Coefficient of Friction | Passes wet and dry, with and without SharkGrip Additive |
| <b>Wet Adhesion (one coat @ 2.0 mils dft)</b> | TT-P-1511A, 6000 cycles                                  | Passes  |

\*\*Test method withdrawn in 2014 without replacement



**ArmorSeal**  
**Heavy**  
**Duty Floor**  
**Coatings**

**100% ACRYLIC WATER BASED FLOOR COATING**

**ARMORSEAL®**  
**TREAD-PLEX™**

**B90 SERIES**

Revised: August 12, 2019

**PRODUCT INFORMATION**

8.12

**RECOMMENDED SYSTEMS**

|  | Dry Film Thickness / ct. |           |
|--|--------------------------|-----------|
|  | Mils                     | (Microns) |
| <b>Concrete Floors:</b>                              |                          |           |
| 2 cts. ArmorSeal Tread-Plex                          | 1.5-2.0                  | (40-50)   |
| <b>Wood Floors:</b>                                  |                          |           |
| 2 cts. ArmorSeal Tread-Plex                          | 1.5-2.0                  | (40-50)   |
| <b>Previously Painted Floors in Sound Condition:</b> |                          |           |
| 1-2 cts. ArmorSeal Tread-Plex                        | 1.5-2.0                  | (40-50)   |

The systems listed above are representative of the product's use, other systems may be appropriate.

**SURFACE PREPARATION**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:  
 Concrete Floors: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3

Wood Floors: Clean, smooth, dust free

**Do not use hydrocarbon solvents for cleaning**

**Surface Preparation Standards**

| Condition of Surface | ISO 8501-1<br>BS7079:A1   | SSPC             | NACE         |
|----------------------|---------------------------|------------------|--------------|
| White Metal          | Sa 3                      | SP 5             | 1            |
| Near White Metal     | Sa 2.5                    | SP 10            | 2            |
| Commercial Blast     | Sa 2                      | SP 6             | 3            |
| Brush-Off Blast      | Sa 1                      | SP 7             | 4            |
| Hand Tool Cleaning   | Rusted<br>Pitted & Rusted | SP 2<br>SP 2     | -<br>-       |
| Power Tool Cleaning  | Rusted<br>Pitted & Rusted | C St 3<br>D St 3 | SP 3<br>SP 3 |

**TINTING**

Do not tint package colors. Pastel and Ultradeep bases tint at 100% strength with EnviroToner, BAC, or CCE. Better performance will be achieved with Envirotoners. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

**APPLICATION CONDITIONS**

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum (air, surface, and material)  
 At least 5°F (2.8°C) above dew point  
 Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

**ORDERING INFORMATION**

Packaging: 1 gallon (3.78L) and 5 gallon (18.9L) containers  
 Weight: 10.7 ± 0.2 lb/gal ; 1.3 Kg/L, may vary by color

**SAFETY PRECAUTIONS**

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**WARRANTY**

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**DISCLAIMER**

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.



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**Heavy**  
**Duty Floor**  
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**100% ACRYLIC WATER BASED FLOOR COATING**

**ARMORSEAL®**  
**TREAD-PLEX™**

**B90 SERIES**

Revised: August 12, 2019

**APPLICATION BULLETIN**

8.12

**SURFACE PREPARATIONS**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

**Do not use hydrocarbon solvent for cleaning.**

**Concrete and Masonry**

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

**Follow the standard methods listed below when applicable:**

- ASTM D4258 Standard Practice for Cleaning Concrete.
- ASTM D4259 Standard Practice for Abrading Concrete.
- ASTM D4260 Standard Practice for Etching Concrete.
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
- ICRI No. 310.2R Concrete Surface Preparation.

**Wood**

Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Prime with recommended primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

**Previously Painted Surfaces**

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**Surface Preparation Standards**

| Condition of Surface | ISO 8501-1<br>BS7079:A1 | SSPC  | NACE |
|----------------------|-------------------------|-------|------|
| White Metal          | Sa 3                    | SP 5  | 1    |
| Near White Metal     | Sa 2.5                  | SP 10 | 2    |
| Commercial Blast     | Sa 2                    | SP 6  | 3    |
| Brush-Off Blast      | Sa 1                    | SP 7  | 4    |
| Hand Tool Cleaning   | C St 2                  | SP 2  | -    |
| Pitted & Rusted      | D St 2                  | SP 2  | -    |
| Rusted               | C St 3                  | SP 3  | -    |
| Power Tool Cleaning  | D St 3                  | SP 3  | -    |

**APPLICATION CONDITIONS**

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum (air, surface, and material)  
 At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

**APPLICATION EQUIPMENT**

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

**Reducer/Clean Up** .....Water

**Brush**

Brush.....Nylon/Polyester  
 Reduction.....As needed up to 6% by volume

**Roller**

Cover .....1/4"-3/8" woven with solvent resistant core  
 Reduction.....As needed up to 6% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.



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**APPLICATION BULLETIN**

8.12

**APPLICATION PROCEDURES**

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix paint thoroughly with low speed power agitation prior to use. Avoid vigorous agitation. Make certain no pigment remains on bottom of can.

Apply paint at the recommended film thickness and spreading rate as indicated below:

**Recommended Spreading Rate per coat:**

|  | Minimum           | Maximum           |
|--|-------------------|-------------------|
| <b>Wet mils (microns)</b>  | <b>3.5 (88)</b>   | <b>4.5 (112)</b>  |
| <b>Dry mils (microns)</b>  | <b>1.5 (40)</b>   | <b>2.0 (50)</b>   |
| <b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>                                     | <b>345 (8.4)</b>  | <b>460 (11.3)</b> |
| Theoretical coverage <b>sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b> | <b>688 (16.8)</b> |                   |

*NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.*

**Drying Schedule @ 4.0 mils wet (100 microns):**

|                       | @ 55°F/13°C | @ 77°F/25°C<br>50% RH | @ 100°F/38°C |
|-----------------------|-------------|-----------------------|--------------|
| <b>To touch:</b>      | 45 minutes  | 30 minutes            | 10 minutes   |
| <b>To recoat:</b>     | 6 hours     | 4 hours               | 30 minutes   |
| <b>Foot traffic:</b>  | 18 hours    | 8 hours               | 1 hour       |
| <b>Heavy traffic:</b> | 24 hours    | 18 hours              | 6 hours      |
| <b>To cure:</b>       | 7 days      | 7 days                | 7 days       |

*Drying time is temperature, humidity, and film thickness dependent.*

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

**CLEAN UP INSTRUCTIONS**

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

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**PERFORMANCE TIPS**

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

This product is not slip resistant where moisture, water, grease, or other liquids may be present.

Anti-slip additives, such as H&C SharkGrip®, may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.

Refer to Product Information sheet for additional performance characteristics and properties.

**SAFETY PRECAUTIONS**

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**WARRANTY**

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FE - Fire Extinguishers and Cabinets

## FIRE EXTINGUISHERS AND CABINETS

### Public Space Fire Extinguisher Cabinet

---

Manufacturer: Larsens Mfg Co  
Style/Series: Occult Style with Solid Door, vertical black lettering, standard pull SS-0-2409 (For extinguisher only) SS-0-4016 (For extinguisher & value combo)

IMAGE NOT  
AVAILABLE

### Sales Rep

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#### Primary

Customer Service  
Email: No.Email.354  
Office Phone: (800) 262-3473

### Attributes

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Public Space Fire Extinguisher Cabinet

Type: N/A

#### DIMENSIONS

Width: 9-1/2"  
Height: 24"  
Depth: 6"D  
Dimension Explanation: SS-0-4016 40" x 16" x 8 1/2"D

#### MATERIAL/FINISH

Finish: Stainless Steel

#### MISCELLANEOUS

Lead Time: To be verified  
Warranty: To be verified

GL - Glass

## GLASS

### Acrylic for Wall Partition Millwork

---

Manufacturer: 3form  
Style/Series: Color Weave

### Sales Rep

---

#### Primary

Natasza Zdanowicz  
Email: [natasza.zdanowicz@3-form.com](mailto:natasza.zdanowicz@3-form.com)  
Mobile Phone: (443) 983-4548

### Attributes

---

Acrylic for Wall Partition Millwork

Item Type: Acrylic Panel  
Model: Color Weave

### DIMENSIONS

#### MATERIAL / FINISH

Color: Fog  
Material Composition: Varia

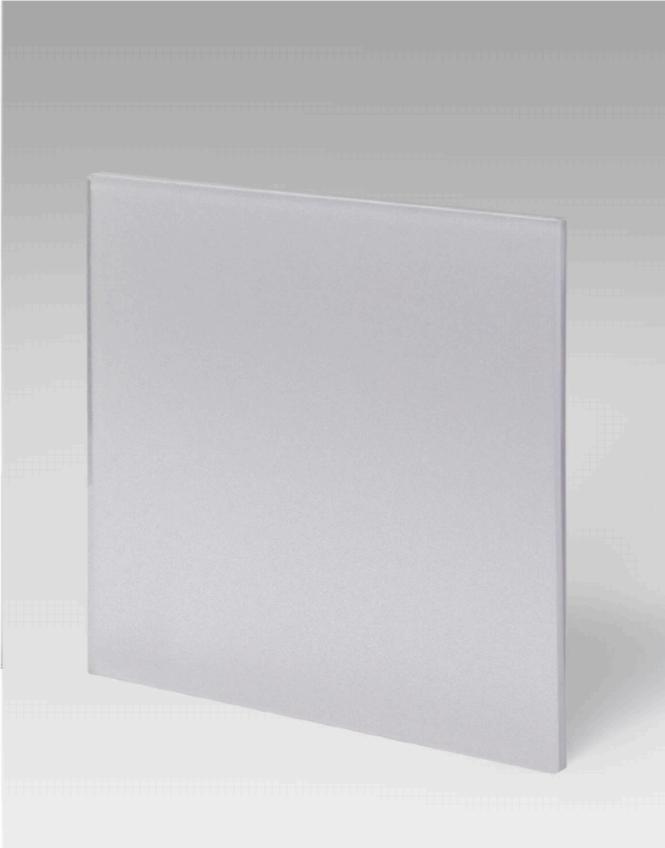
#### PERFORMANCE

Grade: Class A: 1/16", 1/8", 3/16", 1" Class B: 1/4", 3/8", 1/2", 3/4"

#### MISCELLANEOUS

Lead Time: 4 Weeks  
Notes / Special Instructions: Panels Side by Side with Different Orientations May Look Different Due to the Weave of the Fabric





8" x 8" Sample  
Shown in Sandstone finish

# Color Weave Fog

Add fields of color to the project your working on with the added benefit of a fabric-like look and feel.

---

## MATERIAL DETAILS

**Gauges** Varia: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 3/4", 1"

**Panel Sizes** Varia: 48" x 120", 48" x 96"  
Laminated Glass: 48" x 96"

**Pattern Direction** No direction  
Cannot be rotated

**Available Materials** Varia

**Price Group** A

**Fire Rating** Class A: 1/16", 1/8", 3/16", 1"  
Class B: 1/4", 3/8", 1/2", 3/4"

**Details** Pattern not applicable, however panels side by side with different orientations may look different due to the weave of the fabric

**Lead Time** 4 weeks

ML - Assembly, Millwork

## ASSEMBLY, MILLWORK

### Check-In Desk - Plastic Laminate Clad...

Manufacturer: VARIOUS MANUFACTURERS

Style/Series: Check-In Desk

#### Attributes

Check-In Desk - Plastic Laminate Clad Custom Millwork consisting of cabinets and countertops.

Type: Public Space Millwork

#### DIMENSIONS

Dimension Explanation: Refer to Design Guideline Drawings

#### MATERIAL/FINISH

Material Composition: Cabinet to Door Interface shall be Frameless, Flush (Full) Overlay. Grain direction to be vertical on doors, horizontal on drawer fronts.

Color: Colors to be selected by Architect; refer to Implementation Guide.

Finish: Finishes to be selected by Architect; refer to Implementation Guide.

#### PERFORMANCE

Accessibility Compliance : ANSI A117.1 current version, ADAAG

Acoustical Performance: Door & Drawer bumpers to be placed on all cabinet doors and drawers.

Best Practices: Use products with no urea-formaldehyde resins. Use adhesives with Low VOC content.

Classification: Particle Board: ANSI A208.1, Mat-Formed Particle Board, Grade 1-M-2, with minimum density of 45 pcf. Internal bond of 60 psi, and minimum screw holding capacity of 225 lb. on faces and 200 lb. on edges. Hardboard: ANSI A135.4, Class 1, tempered. MDF: ANSI A208.2, Grade 130.

Grade: Lumber shall be in accordance with the AWS Grade specified for the product being fabricated. Moisture content shall be 6% to 12% for boards up to 2-inches nominal thickness, and shall not exceed 19% for thicker pieces.

Quality Standards: Architectural Woodwork Standards (AWS)

#### MISCELLANEOUS

Lead Time: TBD

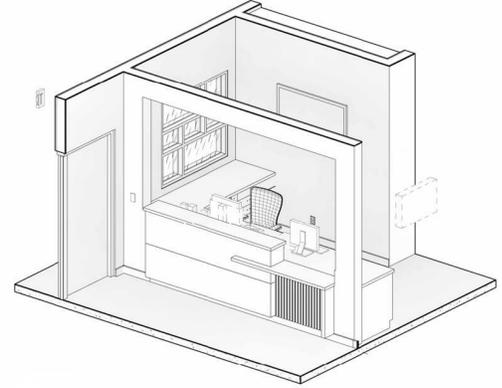
Notes / Special Instructions: Architect / General Contractor to coordinate millwork with equipment sizes and requirements, to include ALL equipment, glazing, accessories, lighting, power/data etc.

#### CUSTOM FIELDS

Lighting: N/A

Fabric Wrapped Panels: N/A

Plastic Laminate: Finishes to be selected by Architect; refer to



#### 10 NESTED ITEMS

| Code/Tag      | Product Name                      | Quantity |
|---------------|-----------------------------------|----------|
| RB-002-SC     | Wall Base                         | 0.0      |
| RB-002-MC     | 4" Vinyl Cove .080" Gauge - CVW05 | 0.0      |
| LA-005-PNL    | Thermally Fused Laminate          | 0.0      |
| LA-006-FM     | 8844 Aged Ash                     | 0.0      |
| CT-001-WIL    | PIETRA NOIR TS405                 | 0.0      |
| WF-001-SW     | Minwax Water Based Wood Stain     | 0.0      |
| SF-001-AMP    | TPS-9LT without envelope slot     | 0.0      |
| SF-001-AMP-A1 | TPS-9SLT without envelope slot    | 0.0      |
| DR-007-OD     | Counter Doors 652                 | 0.0      |
| WP-006-SS     | 332 Real Wood Veneer Tambour      | 0.0      |

Implementation Guide.

Millwork Hardware: Refer to Specifications within Building Product Manual for hinges, drawer slides, shelf supports and magnetic catch. Pulls, grommets & locks to be selected by Architect; refer to Implementation Guide.

## Notes

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1. Public Space Casework: Interior face of exposed cabinet units shall be Black Thermoset Decorative Overlay (melamine).
2. Top and Bottom Rails; and Sub-toe Boards: Not less than 3/4-inch particleboard faced with Grade VGS plastic laminate to match door and drawer fronts. Machine ends for wood-dowel or mechanical dowel fasteners to receive top, bottom, and back. Base ends to extend to floor. Finish exposed ends to match doors and doors and drawer fronts.
3. Unexposed Ends: Not less than 3/4-inch tempered hardboard; finished with Thermoset Decorative Overlay (Melamine). Attach to front frame in same manner as exposed ends.
4. Back Panels: Not less than 1/4-inch tempered hardboard or MDF; finished with Thermoset Decorative Overlay (Melamine).
5. Doors 48 Inches or Less in Height: 3/4 inch thick, Particle Board cores. Front faces to be Grad

## 4" Cove Base 168CA

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Manufacturer: Shaw Contract  
Style/Series: Wall Base

## Sales Rep

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### Primary

David Burn  
Email: No.Email.14

## Attributes

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4" Cove Base 168CA

Model: 168CA

### DIMENSIONS

Length: 120' Roll

Height: 4"

Thickness: 1/8"

### MATERIAL / FINISH

Color: 00086 Charcoal

Material Composition: Thermoplastic Rubber

### PERFORMANCE

Accessories: Manufacturer's Recommended Adhesive

### MISCELLANEOUS

Lead Time: TBD

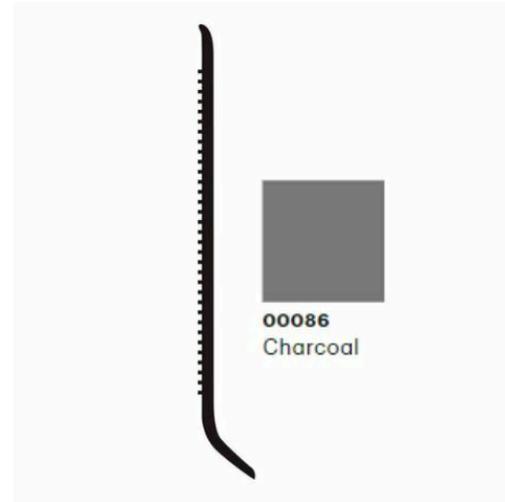
Installation: 141VS Wall Base Adhesive (twelve 30/oz tubes) 166VS

Wall Base Adhesive (1 gal)

## Notes

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168CA





**Product Specifications**

|                     |   |
|---------------------|---|
| <b>Style Number</b> | 168CA   |
| <b>Construction</b> | Thermoplastic Rubber                          |
| <b>Thickness</b>    | 1/8"  |
| <b>Size</b>         | 4" x 120'                                     |
| <b>Packaging</b>    | 120' Roll                                     |
|                     | Roll   120 Linear Feet per box                |
| <b>Adhesive</b>     | 141VS Wall Base Adhesive (twelve 30/oz tubes) |
|                     | 166VS Wall Base Adhesive (1 gal)              |

**Wall Base Features + Benefits**

- Through body color construction
- Zero stress whitening on corners
- Flexible construction for ease installation
- Regional availability

SHAWCONTRACT.COM

FINISHWORK

**InStock colors** | ship in two business days



**Quick Ship colors** | ship in 10 business days



Please see Made to Order Color options on the next page.

## Made to Order colors

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
|    |    |    |    |    |    |    |    |
| <b>00003</b><br>Steel   | <b>00004</b><br>Cement  | <b>00006</b><br>Metal   | <b>00008</b><br>Blue  | <b>00009</b><br>Nordic  | <b>00010</b><br>Navy  | <b>00012</b><br>Cyan  | <b>00013</b><br>Fog   |
|    |    |    |    |    |    |    |    |
| <b>00015</b><br>Aegean  | <b>00016</b><br>Hemlock   | <b>00017</b><br>Tropic  | <b>00019</b><br>Grey<br>Amethyst  | <b>00020</b><br>Plum  | <b>00021</b><br>Lava  | <b>00022</b><br>Blush   | <b>00024</b><br>Moleskin  |
|    |    |    |    |    |    |    |    |
| <b>00025</b><br>Red   | <b>00026</b><br>Silver  | <b>00027</b><br>Cinnamon  | <b>00029</b><br>Sea   | <b>00030</b><br>Mist  | <b>00031</b><br>Green   | <b>00032</b><br>Sterling  | <b>00033</b><br>Mineral   |
|    |    |    |    |    |    |    |    |
| <b>00034</b><br>Viridian  | <b>00036</b><br>Light Steel   | <b>00037</b><br>Ivy   | <b>00038</b><br>Patina  | <b>00041</b><br>Leather   | <b>00042</b><br>Natural   | <b>00045</b><br>Yellow  | <b>00046</b><br>Gravel  |
|   |   |   |   |   |   |   |   |
| <b>00047</b><br>Gilded  | <b>00050</b><br>Silt  | <b>00051</b><br>Ruby  | <b>00056</b><br>Lake  | <b>00057</b><br>Berry   | <b>00059</b><br>Cabernet  | <b>00060</b><br>Soft  | <b>00063</b><br>Stone   |
|  |  |  |  |  |  |  |  |
| <b>00069</b><br>Jungle  | <b>00070</b><br>Wheat   | <b>00079</b><br>Mica  | <b>00080</b><br>Tawny   | <b>00083</b><br>Henna   | <b>00089</b><br>Calypso   | <b>00092</b><br>Leaf  | <b>00093</b><br>Marsh   |
|  |  |  |   |   |   |   |   |
| <b>00097</b><br>Hyde  | <b>00098</b><br>Oyster  | <b>00111</b><br>Regal   |   |   |   |   |   |

SHAWCONTRACT.COM

FINISHWORX

### 4" Vinyl Cove .080" Gauge - CVW05

Manufacturer: Mohawk Group

Style/Series: 4" Vinyl Cove .080" Gauge - CVW05

#### Attributes

4" Vinyl Cove .080" Gauge - CVW05

Item Type: Elemental Edges Wall Base

Model: 4" Vinyl Cove .080" Gauge CVW05

#### DIMENSIONS

Size: 4" X 48" lengths

#### MATERIAL/FINISH

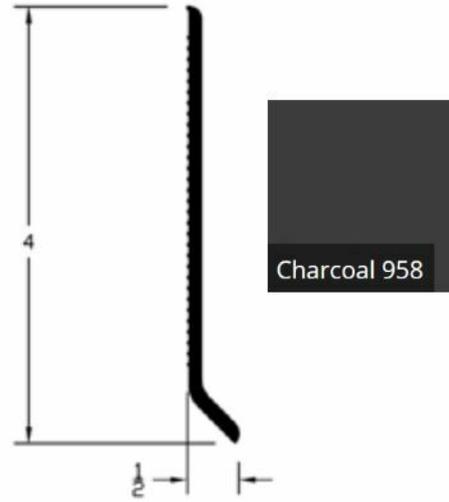
Material Composition: Rubber Vinyl

Color: 958 Charcoal

#### PERFORMANCE

Quality Standards: ASTM F1861- Conforms

Warranty: Limited 10 Year Warranty





# Elemental Edges

## WALL BASE

### Specifications

#### Elemental Edges Wall Base

##### DESIGN

|                  |                  |                     |                 |
|------------------|------------------|---------------------|-----------------|
| Product Type     | Rubber           |                     |                 |
| Gauge            | 1/8"             | <b>Straight SKU</b> | <b>Cove SKU</b> |
| Size             | 4" x 120' rolls  | CRW01               | CRW03           |
|                  | 6" x 96' rolls   | CRW01               | CRW03           |
|                  | 4" x 48" lengths | CRW02               | CRW05           |
|                  | 6" x 48" lengths | CRW02               | CRW05           |
| Product Type     | Vinyl            |                     |                 |
| Gauge            | 1/8"             | <b>Straight SKU</b> | <b>Cove SKU</b> |
| Size             | 4" x 120' rolls  | CVW01               | CVW03           |
|                  | 6" x 96' rolls   | CVW01               | CVW03           |
|                  | 4" x 48" lengths | CVW02               | CVW04           |
|                  | 6" x 48" lengths | CVW02               | CVW04           |
| Product Type     | Vinyl            |                     |                 |
| Gauge            | .080"            | <b>Cove SKU</b>     |                 |
| Size             | 4" x 48" lengths | CVW05               |                 |
| Colors Available | 74               |                     |                 |
| Quickship        | 14               |                     |                 |

##### PERFORMANCE

|                              |   |
|------------------------------|---|
| Composition                  |   |
| Rubber                       | Proprietary TP Rubber formulation including, pigments, stabilizers and other functional fillers |
| Vinyl                        | Proprietary vinyl formulation including, pigments, stabilizers and other functional fillers     |
| Critical Radiant Flux        | ASTM E648- Class I (> 0.45 W/cm2)   |
| Fire Resistance              | ASTM E84- Class II (26-75)  |
| Flame Propagation            | UL 992- < 2.0   |
| Resilient Wall Base Standard | ASTM F1861- Conforms  |

##### SUSTAINABILITY

|                   |                       |
|-------------------|-----------------------|
| Certification     | FloorScore® Certified |
| Country of Origin | USA                   |

##### SERVICE

|            |                          |
|------------|--------------------------|
| Warranties | Limited 10 Year Warranty |
|------------|--------------------------|

For detailed warranty, installation and adhesive information visit [mohawkgroup.com](http://mohawkgroup.com)

## Thermally Fused Melamine

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Manufacturer: Refer to Design Guide Project Manual Master for Specifications

Style/Series: Thermally Fused Laminate

### Attributes

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Thermally Fused Melamine

Type: Thermally Fused Laminate (TFL)

#### MATERIAL/FINISH

Material Composition: Laminate Composition: Melamine saturated decorative layers thermally fused to both core face surfaces with heat and pressure. Stain resistant surface with wear and scratch resistance.

Color: 1595 Black

Finish: Matte

#### PERFORMANCE

Accessories: Manufacturer's recommended adhesive

Best Practices: 17% Post-consumer content, Greenguard Certified

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45

Unbonded. Flame Spread 40, Smoke Density 100 Bonded

Quality Standards: Architectural Woodwork Standards (AWS); ANSI

3. A161.2 Standards for Fabricated High Pressure Decorative

Laminate Countertops, NEMA LD3 High Pressure Decorative

Laminates

#### MISCELLANEOUS

Warranty: 1 Year

#### CUSTOM FIELDS

Product/Color: Thermally Fused Laminate/Black Matte

Eco-Feature(s) \*as per manufacturer: NA



## Notes

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Panel Core Material: Composite panel product composed primarily of cellulosic materials and a bonding system, resulting in a durable and dimensionally stable substrate suitable for decorative laminate overlays. Panel core material can be particleboard or medium density fiberboard.

4" Height Continuous Base

Refer to Design Guide Project Master Manual, Sections 12 32 13 for Wood Veneer Casework and 12 32 16 for Plastic Laminate Casework

### Special Instructions

All substrates should be sanded smooth, and should be clean and free of oil or grease, and uniform in thickness.

## Millwork Laminate

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Manufacturer: Formica Group North America

Style/Series: 8844 Aged Ash

## Sales Rep

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### Primary

Kate Eimer

Email: kate.eimer@formica.com

## Attributes

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Millwork Laminate

Item Type: Plastic Laminate

Description: Type 107 General Purpose (HGS) Laminate

Manufacturer: Formica

Model: 8844

Dimensions: 0.048" Plus Minus 0.005" Thickness, Standard Sheet

Widths 36", 48", 60" x Standard Sheet Lengths 96", 120", 144"

Color: Aged Ash

Finish: Matte (58)

Material Composition: Melamine impregnated decorative surface papers combined with fire retardant phenolic treated kraft paper

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45  
Unbonded. Flame Spread 40, Smoke Density 100 Bonded.

Best Practices: 17% Post-consumer content, Green Guard Certified  
Quality Standards: Architectural Woodwork Standards (AWS); ANSI  
A161.2 "Standards for Fabricated High Pressure Decorative  
Laminate Countertops." NEMA LD3 "High Pressure Decorative  
Laminates"

Accessories: Manufacturer's recommended adhesive

Warranty: 1 Year

Notes: Recommended substrates for laminates are particleboard,  
medium density fiberboard (MDF) or plywood with one A-face. High-  
pressure laminate, plaster, concrete and gypsum board should not  
be considered suitable substrates.

SPECIAL INSTRUCTIONS: All substrates should be sanded smooth,  
and should be clean and free of oil or grease and uniform in  
thickness



## Public Space Countertop

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Manufacturer: Wilsonart Laminate & Countertops  
Style/Series: PIETRA NOIR TS405

## Sales Rep

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### Primary

Amy Morgenweck  
Email: morgena@wilsonart.com

## Attributes

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Public Space Countertop

Item Type: Laminate  
Description: Public Space Countertop NHELLPO  
Manufacturer: Wilsonart  
Model: THINSCAPE Performance Top  
Dimensions: Refer to drawings for size and thickness  
Color: PIETRA NOIR TS405  
Accessories: Adhesive per Manufacturer's Recommendation

### NOTES

Special Instructions: SPECIAL INSTRUCTIONS Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) an at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.



## 1. **Manufacturer**

Wilsonart LLC  
2501 Wilsonart Drive  
P.O. Box 6110  
Temple, Texas 76503-6110  
Phone: (254) 207-7000; (800) 433-3222  
Fax: (254) 207-2384  
Website: [www.wilsonart.com](http://www.wilsonart.com)

## 2. **Product Description**

Wilsonart® THINSCAPE® Performance Tops are ultra-thin, self-supporting countertops that are highly durable and versatile. Featuring a European-inspired “thin” profile, THINSCAPE slabs are available in stone, woodgrain and metal designs, and are produced with coordinating design, texture and color-core combinations.

### **Recommended Uses**

Wilsonart® THINSCAPE® Performance Tops are ideal for single-family & multi-family builds, commercial, hospitality, retail and office furniture applications such as kitchen countertops, bath vanities, laundry room worktops, table tops and other horizontal applications.

### **Product Composition**

Wilsonart® THINSCAPE® Performance Tops are a composite material, made up of papers and resins to achieve an overall thickness of ½”. This construction allows the slabs to be cut, routed, sanded and fabricated with dry tooling, which includes standard carbide-tipped blades/bits and woodworking tools. Small horizontal fissures sometimes observed running along the horizontal plain of the core are inherent of the modified resin composed core material and are acceptable. Climate controlled environments for inventory of panels, fabrication processes and final installation locations are important recommended practices to minimizing these fissures.

### **Basic Limitations**

Wilsonart® THINSCAPE® Performance Tops are designed for interior applications only and not recommended for exterior applications. However, as no one material is suitable for all possible conditions, THINSCAPE slab properties should be checked for suitability under the specific conditions of each application.

### **Patterns & Colors**

See all patterns and colors as listed below.

| Design | Name              | Core Color | Finish |
|--------|-------------------|------------|--------|
| TS101  | Distressed Pine   | Khaki      | WB     |
| TS102  | Quartzite Falls   | Khaki      | LR     |
| TS306  | Spanish Limestone | Grey       | SB     |
| TS307  | Soapstone Mist    | Grey       | LR     |
| TS308  | Sterling Calcutta | Grey       | LR     |
| TS309  | Quartz Rapids     | Grey       | SB     |
| TS311  | Taj Mahal         | Grey       | SB     |
| TS401  | Rugged Steel      | Black      | NL     |
| TS404  | Black Amani       | Black      | LR     |
| TS501  | Calcutta Blanc    | White      | LR     |
| TS503  | Italian Carrara   | White      | LR     |
| TS504  | Volakas Marble    | White      | LR     |

**Finishes**

|    |              |  |
|----|--------------|--|
| SB | Sandblasted  | The sandblasting method creates a smooth, lightly textured, ultra-matte surface. |
| WB | Wire Brushed | Wire Brushed creates a linear texture with both matte and gloss sheen.           |
| NL | Natural      | The Natural finish has minimal texture and a low sheen.                          |
| LR | Luster       | Luster has a semi-gloss sheen and a smooth surface.                              |

| Finish Availability | Imperial Measure (Inches) | Size Availability                | Metric Measure (Mm) | Lbs. /Sq.Ft |
|---------------------|---------------------------|----------------------------------|---------------------|-------------|
| WB, SB, NL, LR      | 1/2" (0.500)              | 30"x10', 30"x12', 5'x10', 5'x12' | 12.7mm              | 3.77        |

**Physical Properties**

| Test Method   | Units                                       | Scale           | THINSCAPE®                                       |
|---|---|-----------------|--|
| Scratch resistance (EN438)                                | N   | 1 to 5 (5 best) | 3  |
| Boiling Water Immersion (EN438)                           | Grade (4 min)                               | 1 to 5 (5 best) | 4  |
| Resistance to Water Vapor (EN438)                         | Grade (4 min)                               | 1 to 5 (5 best) | 4  |
| Resistance to Cigarette Burn (EN438)                      | Grade                                       | 1 to 5 (5 best) | Not Tested                                       |
| Resistance to Crazing (EN438)                             | Grade (Surface 4 min)<br>Grade (Core 3 min) | 1 to 5 (5 best) | Surface 5<br>Core 4                              |
| Modulus of Elasticity (EN ISO 178/ASTM-08)                | Mpa   | >11000          | ≥12,000  |
| Flexural Strength (MD)<br>(EN ISO 178/ASTM 790-07)        | Mpa   | > 114.0         | ≥180   |
| Flexural Strength (CD)<br>(EN ISO 178 ASTM 790-08)        | Mpa   | > 82.7          | ≥130   |
| Tensile Strength (MD)<br>(EN ISO 527-2 ASTM 638-08)       | Mpa   | > 114.0         | ≥140   |
| Tensile Strength (CD)<br>(EN 438-225)                     | Mpa   | > 82.7          | ≥100   |
| Density<br>(EN ISO 1183/ASTM 792-08)                      | g/cm <sup>2</sup>                           | ≥ 1.40          | ≥ 1.45   |
| Lightfastness<br>(ISO 4586)                               | Rating (min 4)                              | 1 to 5 (5 best) | ≥4   |
| Resistance to Surface Wear<br>(ISO 4586)                  | Revolutions                                 | Min Value 400   | ≥ 400  |
| Resistance to Impact by Large Diameter Ball<br>(ISO 4586) | Thickness Inches<br>(mm)                    | Visual          | <u>(0.500")</u><br><u>&gt;78" (&gt;1,980 mm)</u> |
| Resistance to Staining<br>(ISO 4586)                      | Rating (max 20)                             | Varies          | ≤20  |
| Stains 1-10 (ISO 4586)                                    | Rating (min 5)                              | 1 to 5 (5 best) | 5  |
| Stains 11-15<br>(ISO 4586)                                | Rating (min 3)                              | 1 to 5 (5 best) | ≥ 3  |
| Resistance to Radiant Heat<br>(ISO 486)                   | Seconds                                     | Visual          | Not Tested                                       |
| Resistance to Wet Heat<br>(ISO 4586)                      | Rating (min 5)                              | 1 to 5 (5 best) | 5  |
| Resistance to Dry Heat (ISO 4586)                         | Rating (min 4)                              | 1 to 5 (5 best) | ≥ 4  |
| Dimensional Change MD (ISO 4586)                          | % MD Max                                    | % Change        | (0.500")<br>≤ 0.3                                |

|                                     |                               |           |                   |
|-------------------------------------|-------------------------------|-----------|-------------------|
| Dimensional Change CD<br>(ISO 4586) | % CD Max                      | % Change  | (0.500")<br>≤ 0.7 |
| Fire Properties<br>ASTM E-84        |                               |           | Class B           |
| Flatness<br>ISO 4586 -2 (10)        | On products >1/2"<br>(12.7mm) | 5.0mm / m | 5.0mm / m         |

### 3. **Handling, Storage, and Conditioning**

When handling Wilsonart® THINSCAPE® Performance Tops, it is recommended to lift the panels individually to avoid scratching. It is recommended to prevent the decorative surfaces from sliding against one another. It is acceptable to use a gripping system, such as a suction pad.

Use flat and rigid pallets that are at least the same sizes as the panels to avoid sliding and unstable positioning. The maximum spacing between supporting boards is 24" (609.6mm). Store the panels in closed premises, safe from humidity and heat (50 to 86°F (10 to 30 °C) and 40 to 60% RH). In the case of horizontal storage on pallets, put a protective paper of an adequate size between the pallet and the panels and on the top panel. It is advisable to keep the panels wrapped inside their original packaging (plastic lining). Flat storage of the panels prevents deformations from occurring.

Prior to installation, it is recommended to store Wilsonart® THINSCAPE® Performance Tops for approximately 48 hours in the premises with the following environmental conditions.

- Temperature from 64 to 77°F (18 to 25°C)
- Relative humidity from 40 to 60%

When installing Wilsonart® THINSCAPE® Performance Tops, remove the protection films, (if present) from both sides simultaneously. For optimal results, we recommend that identical ventilation is assured on both sides.

Do not install Wilsonart® THINSCAPE® over a solid substrate.

NOTE: Before any fabrication and installation, always make sure that the two sides of the THINSCAPE slab are clean and that no abrasive particles are present.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per ISO 4586-2 Method 31 (B)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray\*
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner \*
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant\*
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose® II 256
17. Diversey™ Oxivir 1
18. Diversey™ Oxivir Tb Wipes
19. Diversey™ Stride® Floral Neutral Cleaner
20. Diversey™ Virex® II 256

21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed materials were placed in contact with Wilsonart® THINSCAPE® surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-2014 (Section 6 / Modified)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental, Inc. (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose II 256
17. Diversey™ Oxivir 1
18. Diversey™ Stride® Floral Neutral Cleaner
19. Diversey™ Tb Wipes
20. Diversey™ Virex II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed reagent materials were placed in contact with Wilsonart® THINSCAPE® surface with a one-inch square 100% cotton cloth completely saturated and covered with a 2" (50.8mm) diameter watch cover glass for 15 minute duration. The reagents listed above were removed with clean cloth and the area was then cleaned with clean cloth and distilled water only. The surface area was allowed to dry for 1-hour prior to evaluation for effect.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Resistance of Furniture to UV Lights for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-201X Section 9 (Alternate Method per ASTM G155 using ISO 4586-2.33 conditions).

Wilsonart® THINSCAPE® conforms to BIFMA – Healthcare Furniture Design Guidelines for Cleanability, Section 9 Resistance to Furniture to UV Lights. Wilsonart THINSCAPE meets or exceeds the acceptance level for surface evaluation.

4. [Warranty](#)

5. [Care and Maintenance](#)

6. **Technical Services**

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.

**Specification Form**

Surface shall be Wilsonart® THINSCAPE® Performance Tops, produced by Wilsonart LLC, Temple, Texas 76503-6110

Type: Specify THNSCAPE \_\_\_\_\_

Surface

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Finish

Number: \_\_\_\_\_

Name: \_\_\_\_\_

Edge Trim

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Adhesive

Name: \_\_\_\_\_

Grade/Type: \_\_\_\_\_

Brand: Wilsonart® Adhesives

Wilsonart® THINSCAPE® Performance Tops Technical Data

June 24, 2020

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## Wood Stain for Millwork

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Manufacturer: Wood Stain Colors - Minwax Stain Colors & Wood Finish Guide | Minwax  
Style/Series: Minwax Water Based Wood Stain

### Attributes

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Wood Stain for Millwork

Type: Water-based Wood Stain

#### MATERIAL / FINISH

Color: Stain to Match Formica 8844-WR Aged Ash  
Finish: Satin to Match Laminate

#### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Comply with Green Seal GS-11; MPI Architectural Painting Specification Manual; 40 CFR, Part 59, Subpart D 2001, National Volatile Organic Compound Emission Standards for Architectural Coatings

#### MISCELLANEOUS

Lead Time: Standard lead times are 3-5 days from receipt of purchase order. Lead time should be confirmed by the manufacturer.

Warranty: To Be Verified by Manufacturer

Notes / Special Instructions: Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of ornamental woodwork and quality grade specified unless otherwise indicated. Wood Moisture Content for Interior Materials: Maximum moisture content of 15 percent Hardwood Veneer Plywood Paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1 Wood Species to be Walnut, refer to drawings for panel sizes.

#### CUSTOM FIELDS

Urethane Type: N/A  
Sheen: N/A

### Notes

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VOC Stain: Maximum 250 g/L



### Guest Safe Deposit Boxes without enve...

Manufacturer: Amphion, a Division of Executive Safe and Security Corporation  
Style/Series: TPS-9LT without envelope slot

### Sales Rep

### Primary

Customer Service  
Email: info@amphion.biz

### Attributes

Guest Safe Deposit Boxes without envelope slot

Type: Deposit Boxes

#### DIMENSIONS

Width: 16.5  
Height: 31  
Depth: 24

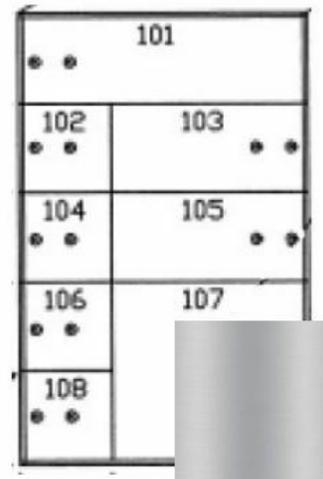
#### MATERIAL/FINISH

Finish: Polished Aluminum with Stamped Numbers, Case and Case  
Edge Finish: Black

### Notes

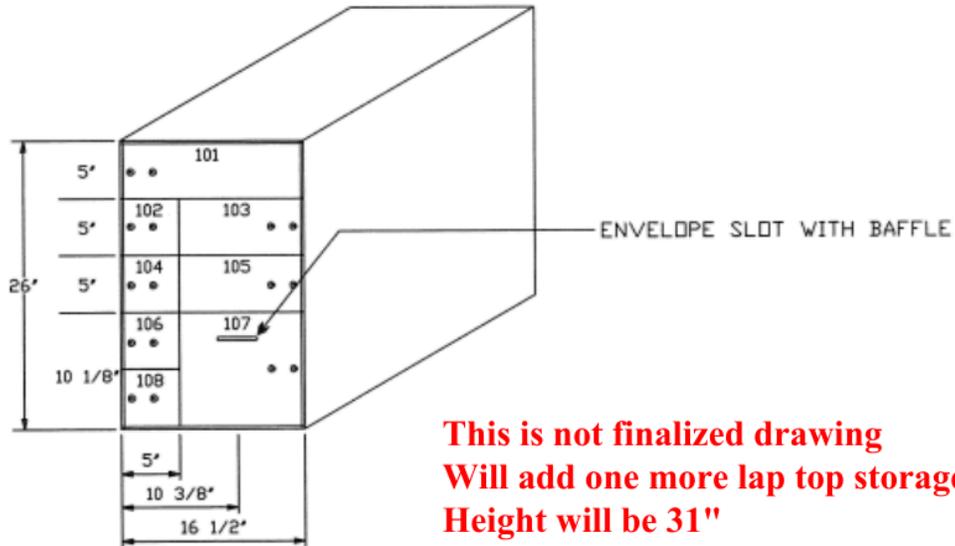
4 Openings at 5" x 5", 2 openings at 5" x 10-3/8", 2 openings at 5" x 16-1/2" for laptop, and 1 opening at 10-1/8" x 10-3/8" without slotted door and anti-flush baffles.

Provide secure blocking to supportunits



**TPS**

**TPS-9SLT (TownePlace Suites)**  
**with envelope slot**  
**option**



**This is not finalized drawing**  
**Will add one more lap top storage on top**  
**Height will be 31"**

**TPS-9LT (TownePlace Suites)**  
**without envelope slot**

**Standard**

**Guest Safe Deposit Boxes with envelop...**

Manufacturer: Amphion, a Division of Executive Safe and Security Corporation  
Style/Series: TPS-9SLT without envelope slot

**Sales Rep****Primary**

Customer Service  
Email: info@amphion.biz

**Attributes**

Guest Safe Deposit Boxes with envelope slot

Type: Deposit Boxes

**DIMENSIONS**

Width: 16.5  
Height: 31  
Depth: 24

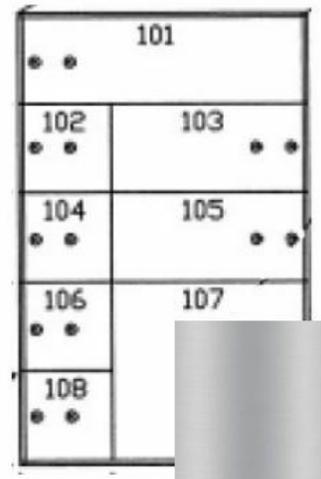
**MATERIAL/FINISH**

Finish: Polished Aluminum with Stamped Numbers, Case and Case  
Edge Finish: Black

**Notes**

4 Openings at 5" x 5", 2 openings at 5" x 10-3/8", 2 openings at 5" x 16-1/2" for laptop, and 1 opening at 10-1/8" x 10-3/8" with slotted door and anti-flush baffles.

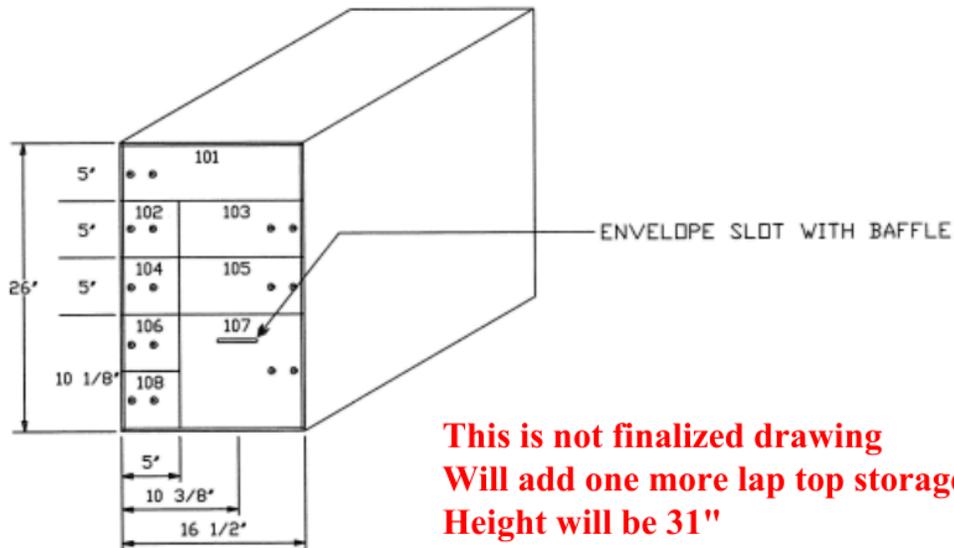
Provide secure blocking to supportunits



**TPS**

**TPS-9SLT (TownePlace Suites)  
with envelope slot**

**option**



**This is not finalized drawing  
Will add one more lap top storage on top  
Height will be 31"**

~~**TPS-9LT (TownePlace Suites)  
without envelope slot**~~

~~**Standard**~~

## 652 Locking Metal Curtain Rolling Cou...

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Manufacturer: Overhead Door  
Style/Series: Counter Doors 652

### Attributes

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652 Locking Metal Curtain Rolling Counter Door

Type: Rolling Counter Door, Interior

#### DIMENSIONS

Dimension Explanation: Refer to the Design Guideline Drawings

Thickness: 1 15/16"

#### MATERIAL / FINISH

Finish: Manufacturer Standard Bronze Anodized Finish

Material Composition: Aluminum

#### PERFORMANCE

Accessibility Compliance : ADA and ANSI A117.1

Accessories: Cylinder Lock

#### MISCELLANEOUS

Warranty: Life of building

#### CUSTOM FIELDS

Door Type: Overhead

Glazing: Safety glass complying with ANSI Z97.1.

Hardware: Refer to Door Hardware Schedule & Specifications

Louver: Manufacturer's standard fire-rated automatic louvers as required. Refer to Mechanical Drawings for locations.

Operation: Manual Push-Up



### Area and Type

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LOBBY AREAS

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# ROLLING COUNTER **DOOR SYSTEMS**



PRODUCT LINE

METAL CURTAIN

INTEGRAL FRAME

WOOD CURTAIN

MODELS

650/651/652

655/657/658

665



INDUSTRY LEADING  
COMMERCIAL & INDUSTRIAL SOLUTIONS



## General features and benefits

### A rolling counter door for any environment

- Choice of aluminum, steel or stainless steel offers durable, attractive and versatile solutions for retail, commercial and industrial applications for openings up to 20' wide and 9' high (6096 mm and 2743 mm)
- Integral frame and sill counter doors in sizes up to 12'5" wide and 6'5" high (3785 mm and 1956 mm) provide the convenience of a factory-assembled unit and an attractive finished look
- Wood curtains in Douglas fir, red oak, white oak, birch, or exotic species for openings to 12' wide and 8' high (3658 mm and 2438 mm) complement interior design features

### Options provide design flexibility and simplify operation

- Choice of curtain materials and a variety of finish options for enhanced design flexibility
- Motor operation option and an array of operator controls simplify door operation (not available on integral frame and sill counter doors)

### Built to last

- Top-quality materials, excellent field service and optional maintenance program contribute to extended door life, low maintenance costs and maximum productivity
- Up to 24-month limited warranty

### Approximately 200 RAL Powder Coat Finishes

- The color palette specifying from powder coat finishes in approximately 200 colors is available from your Overhead Door™ Distributor. Color may also be matched to architect's specifications to best complement the look of the facility.



#### Cover image:

Model 651, primed white

#### Image above:

Model 650, primed gray



**General specifications for ROLLING COUNTER DOORS**

|                                | Metal curtain       |                              |                         | Integral frame and sill      |                              |                              | Wood curtain     |
|--------------------------------|---------------------|------------------------------|-------------------------|------------------------------|------------------------------|------------------------------|------------------|
| <b>Model</b>                   | <b>650</b>          | <b>651</b>                   | <b>652</b>              | <b>655</b>                   | <b>657</b>                   | <b>658</b>                   | <b>665</b>       |
| Maximum standard width         | 20'<br>(6096 mm)    | 20'<br>(6096 mm)             | 20'<br>(6096 mm)        | 12'5"<br>(3785 mm)           | 12'5"<br>(3785 mm)           | 12'5"<br>(3785 mm)           | 12'<br>(3658 mm) |
| Maximum standard height        | 9'<br>(2743 mm)     | 9'<br>(2743 mm)              | 9'<br>(2743 mm)         | 6'5"<br>(1956 mm)            | 6'5"<br>(1956 mm)            | 6'5"<br>(1956 mm)            | 8'<br>(2438 mm)  |
| Standard mounting              | face of wall        | face of wall                 | face of wall            | between jambs                | between jambs                | between jambs                | face of wall     |
| Standard operation             | push up             | push up                      | push up                 | push up                      | push up                      | push up                      | push up          |
| <b>Curtain material</b>        |                     |                              |                         |                              |                              |                              |                  |
| Painted steel                  | •                   |                              |                         |                              |                              | •                            |                  |
| Stainless steel                |                     | •                            |                         |                              | •                            |                              |                  |
| Aluminum                       |                     |                              | •                       | •                            |                              |                              |                  |
| Wood                           |                     |                              |                         |                              |                              |                              | •                |
| <b>Frame and sill material</b> |                     |                              |                         |                              |                              |                              |                  |
| Stainless steel                |                     |                              |                         | •                            | •                            | •                            |                  |
| Primed steel                   |                     |                              |                         |                              |                              |                              |                  |
| <b>Guide</b>                   |                     |                              |                         |                              |                              |                              |                  |
| Painted steel                  | Option              | Option                       | Option                  |                              |                              |                              |                  |
| Stainless steel                |                     | Option                       | Option                  | •                            | •                            | •                            |                  |
| Aluminum                       | •                   | •                            | •                       |                              |                              |                              |                  |
| Wood                           |                     |                              |                         |                              |                              |                              | •                |
| <b>Slat profile type</b>       | F-158               | F-158                        | F-158                   | integral frame and sill slat | integral frame and sill slat | integral frame and sill slat | wood slat        |
| <b>Standard finish</b>         | primed paint        | No. 4 finish stainless steel | clear anodized aluminum | clear anodized aluminum      | No. 4 finish stainless steel | primed paint                 | unfinished wood  |
| <b>Lock</b>                    | Interior slide bolt | Interior slide bolt          |                         |                              |                              |                              | thumbturn        |



| Available options for ROLLING COUNTER DOORS |               |     |     |                         |     |     |              |
|---|---------------|-----|-----|-------------------------|-----|-----|--------------|
|   | Metal curtain |     |     | Integral frame and sill |     |     | Wood curtain |
| Model                                       | 650           | 651 | 652 | 655                     | 657 | 658 | 665          |
| Electric operator                           | •             | •   | •   |                         |     |     | •            |
| Crank                                       | •             | •   | •   | •                       | •   | •   | •            |
| Cylinder lock                               | •             | •   | •   | •                       | •   | •   | •            |
| Wood species                                |               |     |     |                         |     |     |              |
| Douglas Fir                                 |               |     |     |                         |     |     | •            |
| Red Oak                                     |               |     |     |                         |     |     | •            |
| Birch                                       |               |     |     |                         |     |     | •            |
| White oak                                   |               |     |     |                         |     |     | •            |
| Exotic                                      |               |     |     |                         |     |     | •            |

Installation and Service: Overhead Door Company of Dallas™ – Commercial



Model 652

# METAL CURTAIN – ROLLING COUNTER DOOR

## MODELS 650/651/652

These doors are ideal for a host of small-opening applications where security is important and a non-rated door is appropriate. Common applications include concession areas, cafeterias, pharmacies, parts-storage areas and ticket windows.

### Standard features at a glance

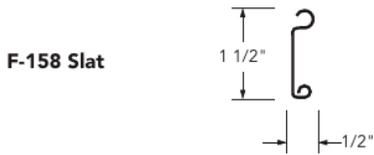
|                         |   |
|-------------------------|---|
| Maximum standard width  | 20' (6096 mm)   |
| Maximum standard height | 9' (2743 mm)  |
| Curtain                 | Interlocking flat profile slats (F-158) with endlocks<br>650: galvanized steel (same for hood)<br>651: stainless steel (same for hood)<br>652: aluminum (same for hood) |
| Finish                  | 650: galvanized steel primed with choice of baked-on polyester top coat in gray or tan<br>651: No. 4 stainless steel<br>652: Aluminum, clear anodized                   |
| Standard mounting       | Face-of-wall, between jambs   |
| Counterbalance          | Helical torsion springs housed in a steel tube or pipe barrel   |
| Brackets                | Steel plate to support curtain, counterbalance and hood   |
| Operation               | Manual push-up  |
| Lock                    | Interior slide bolt   |
| Warranty                | 24-month limited  |

### Options

|   |
|---|
| Crank or electric operation   |
| Bronze anodized finish (652)  |
| PowderGuard™ premium powder coat paint finish in approximately 200 standard colors, or color-matched to specification |
| PowderGuard™ Zinc and PowderGuard™ Weathered finishes   |
| Vision lites 5/8" x 3"  |
| Perforated slats  |
| Fenestrated slats with uniformly spaced openings of 5/8" x 3" (16 mm x 76 mm)   |
| Guides - Steel guides; stainless steel guides   |
| Cylinder lock   |
| Fascia and backhoods  |
| Mullions  |
| Bracket end covers  |

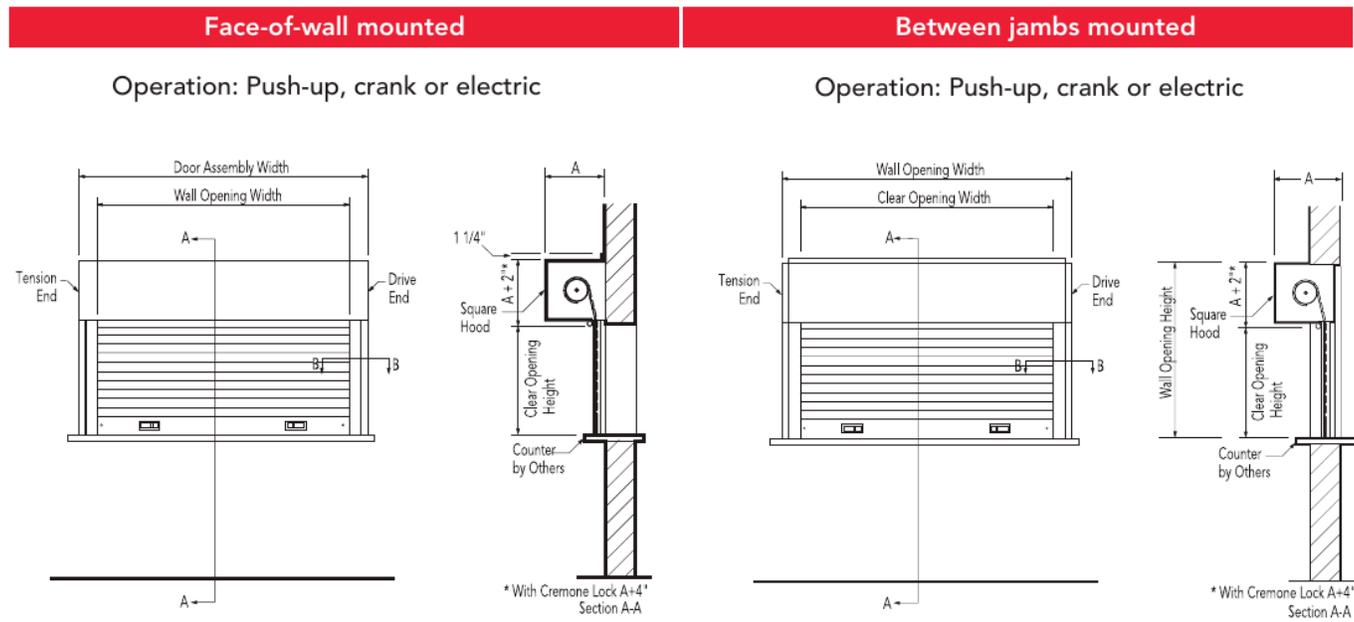


**Slat data**



| Model | Slat  | Opening width        | Standard                  |
|-------|-------|----------------------|---------------------------|
| 650   | F-158 | Thru 20'0" (6096 mm) | 22-gauge galvanized steel |
| 651   | F-158 | Thru 20'0" (6096 mm) | 22-gauge stainless steel  |
| 652   | F-158 | Thru 20'0" (6096 mm) | aluminum                  |

**Door clearance elevations**



**Headroom clearance dimensions**

| Dimensions A F-158 slat |                               |
|-------------------------|-------------------------------|
| Opening height          | A dimension – headplate width |
| Thru 5'0" (1524 mm)     | 9 1/2" (241 mm)               |
| Thru 8'4" (2540 mm)     | 11 1/2" (292 mm)              |

**Door selection guide**

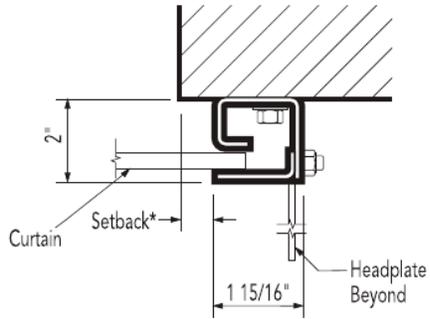
| Model      | 650                                   | 651                                   | 652                                   |
|------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Curtain    | Galvanized steel                      | Stainless steel                       | Aluminum                              |
| Slat       | F-158                                 | F-158                                 | F-158                                 |
| Finish     | Gray or Tan                           | #4                                    | Clear anodized                        |
| Hood       | Galvanized steel                      | Stainless steel                       | Aluminum                              |
| Guides     | Aluminum/Primed steel/Stainless steel | Aluminum/Primed steel/Stainless steel | Aluminum/Primed steel/Stainless steel |
| Bottom bar | Primed steel                          | Stainless steel                       | Aluminum                              |

# METAL CURTAIN – ROLLING COUNTER DOOR

## Guides

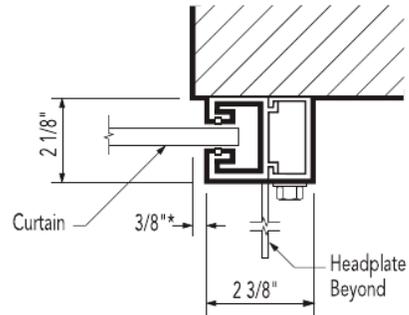
### Face-of-wall mounted

Rolled steel/stainless steel



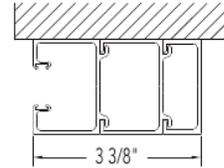
\*15/16" for masonry, wood studs, or steel studs.  
1/4" for steel jambs.

Extruded aluminum



\*All jambs

Extruded aluminum – RTM operator



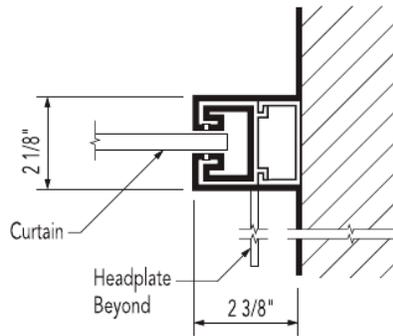
Model 651



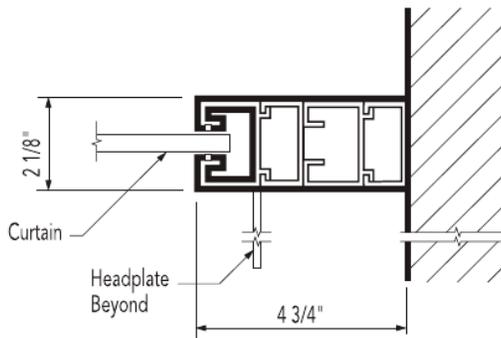
Between jambs mounted

Extruded aluminum guides

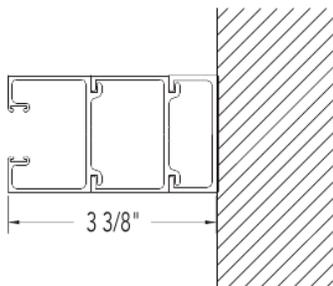
Push-up: tension & drive side  
Crank or electric:  
Tension side only



Crank or electric:  
Drive side only

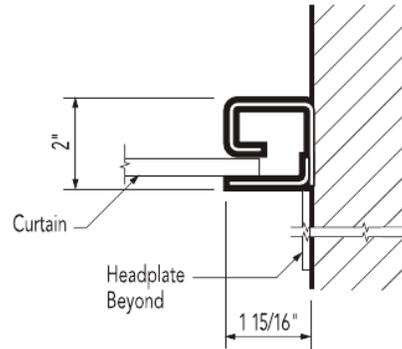


RTM operator

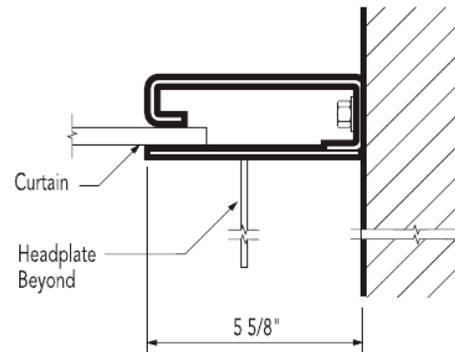


Rolled steel/stainless steel

Push-up: tension side  
Push-up: tension & drive side  
Crank or electric:  
Tension side only



Crank or electric:  
Drive side only



# INTEGRAL FRAME – ROLLING COUNTER DOOR

## MODELS 655/657/658

These models combine an attractive finished appearance with the convenience of a factory-assembled unit. Available to fit openings up to 12'5" wide and 6'5" high (3785 mm and 1956 mm), these rolling counter doors have a variety of applications, including food service areas.



### Standard features at a glance

|                         |   |
|-------------------------|---|
| Maximum standard width  | 12'5" (3785 mm)   |
| Maximum standard height | 6'5" (1956 mm)  |
| Curtain                 | 655: .040" (1.016 mm) aluminum slats<br>657: Interlocking 22-gauge stainless steel slats<br>658: Interlocking 22-gauge primed steel slats |
| Integral frames         | 16-gauge stainless steel  |
| Sill                    | 14-gauge stainless steel  |
| Standard mounting       | Between jambs   |
| Hood                    | Stainless steel   |
| Operation               | Push-up   |
| Warranty                | OEM limited   |

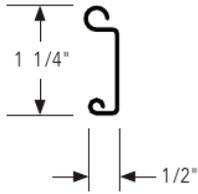
### Options

|                          |
|--------------------------|
| Crank operation          |
| Cylinder locking options |
| Tubular bottom bar       |
| Lintel brush seal        |
| Guide brush seal         |



Slat data

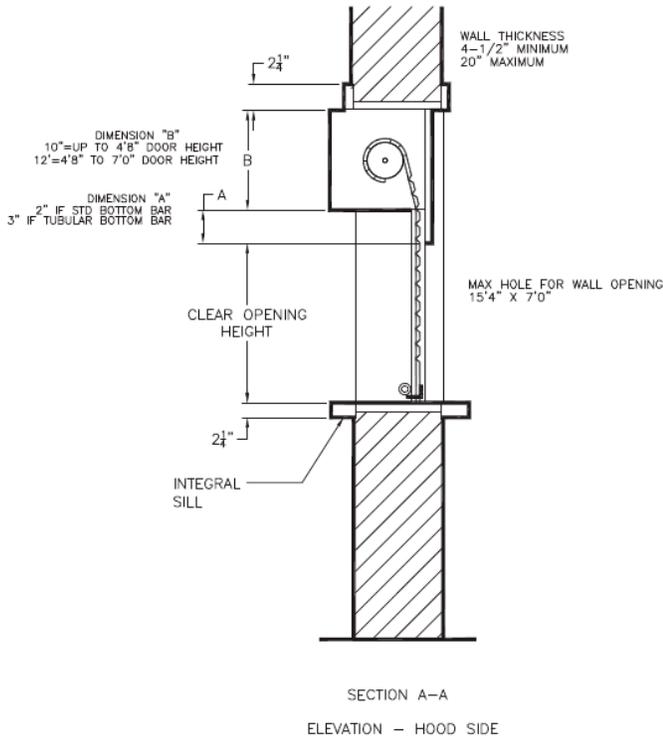
Integral Frame and Sill Slat



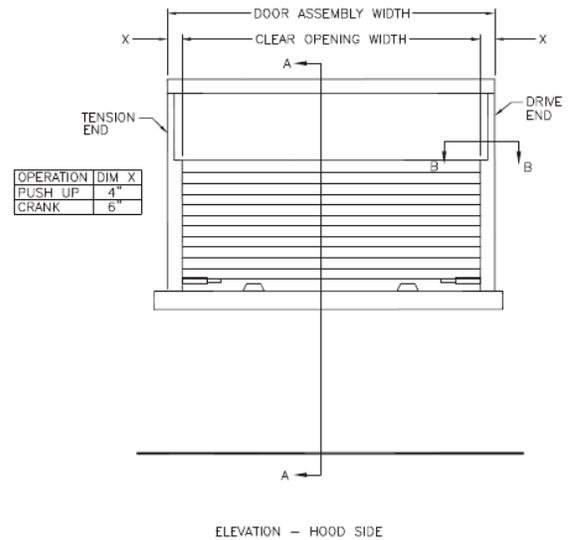
| Model | Slat                      | Frame, sill, hood |
|-------|---------------------------|-------------------|
| 655   | Aluminum                  | Stainless steel   |
| 657   | 22-gauge stainless steel  | Stainless steel   |
| 658   | 22-gauge galvanized steel | Stainless steel   |

Door clearance elevations

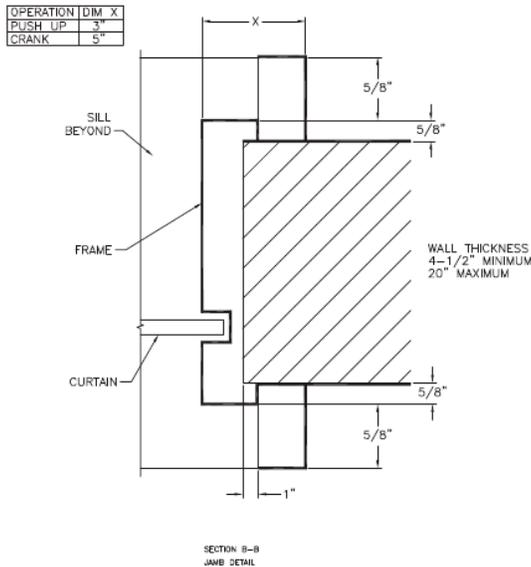
Operation: Push-up, crank



| Description                               | Dimension |
|---|-----------|
| Up to 4'8" high                           | 12"       |
| Up to 4'8" high with tubular bottom bar   | 13"       |
| 4'8" to 6'5" high                         | 14"       |
| 4'8" to 6'5" high with tubular bottom bar | 15"       |



Jamb section

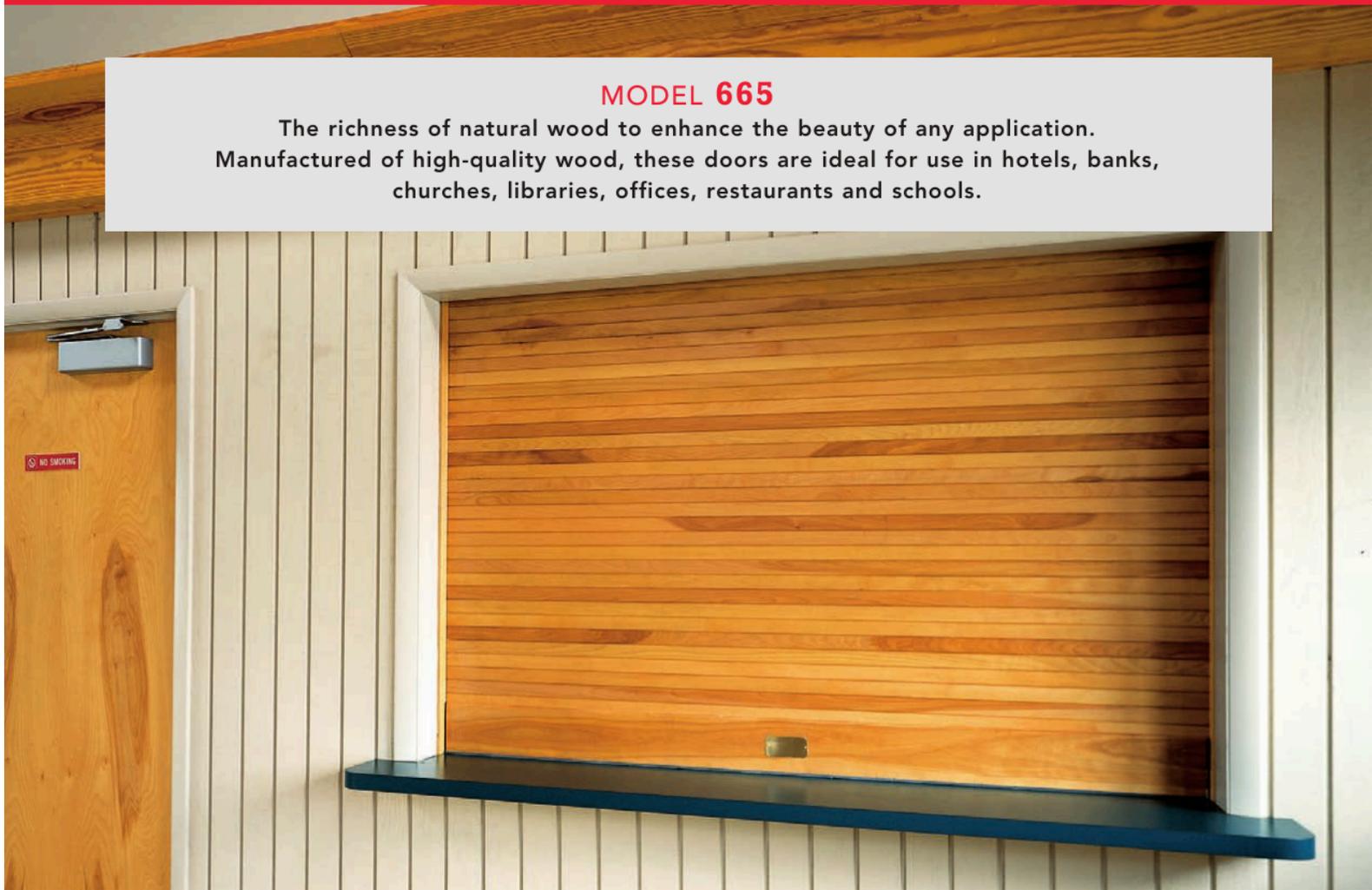


This unit is designed to be installed as wall is being built. For more detailed information go to our Architects Corner at [www.overheaddoor.com/architect-corner](http://www.overheaddoor.com/architect-corner). See your Overhead Door™ Distributor for a unit designed for existing openings.

# WOOD CURTAIN – ROLLING COUNTER DOOR

## MODEL 665

The richness of natural wood to enhance the beauty of any application. Manufactured of high-quality wood, these doors are ideal for use in hotels, banks, churches, libraries, offices, restaurants and schools.



### Standard features at a glance

|                         |   |
|-------------------------|---|
| Maximum standard width  | 12' (3658 mm)   |
| Maximum standard height | 8' (2438 mm)  |
| Curtain                 | Red Oak   |
| Slats                   | Wood slats, 1 5/8" (41 mm) high by 1/2" (13 mm) thick |
| Finish                  | Unfinished  |
| Standard mounting       | Face-of-wall, between jambs                           |
| Guides                  | Wood to match slats                                   |
| Bottom bar              | 5 1/2" x 1 5/8"                                       |
| Operation               | Push-up   |
| Lock                    | Thumbturn dead bolt                                   |
| Warranty                | OEM limited   |

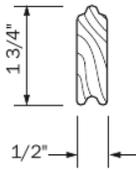
### Options

|   |
|---|
| Crank or electric operation   |
| Additional wood species: Douglas fir, white oak, birch, or exotic. Contact plant for additional options |
| Hood in wood to match slats or aluminum   |
| Aluminum guides   |
| Cylinder lock   |



Slat data

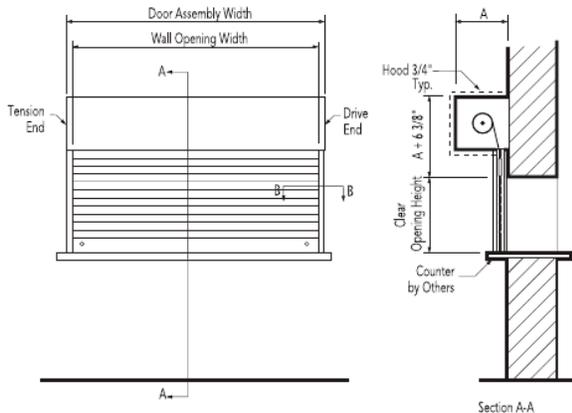
Wood Slat



Door clearance elevations

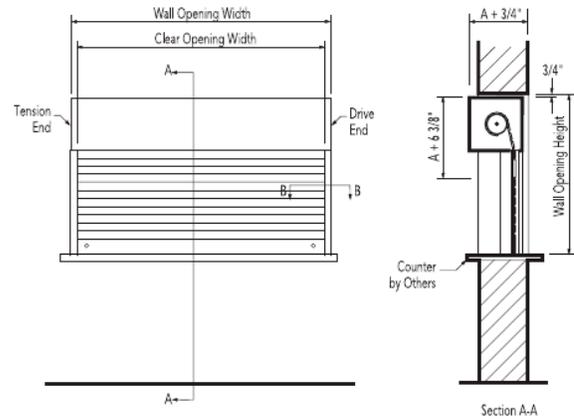
Face-of-wall mounted

Operation: Push-up, crank or electric



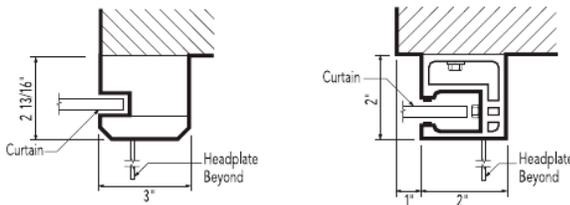
Between jambs mounted

Operation: Push-up, crank or electric



Guides

Face-of-wall mounted  
Wood guide | Aluminum guide

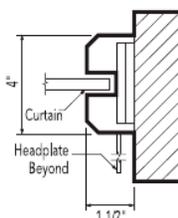


Dimension A

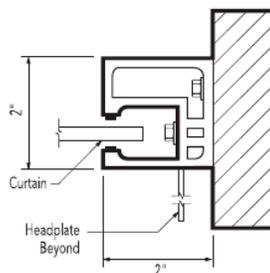
| Opening height      | A dimension - headplate width |
|---------------------|-------------------------------|
| Thru 4'6" (1370 mm) | 10" (254 mm)                  |
| Thru 6'4" (1930 mm) | 11" (279 mm)                  |
| Thru 8'4" (2540 mm) | 13" (330 mm)                  |

Between jambs mounted - push-up operation  
Wood guide | Aluminum guide

Tension & drive side  
Crank or electric operation:  
Tension side only

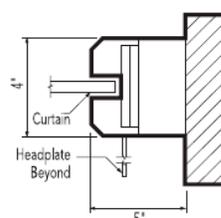


Tension & drive side  
Crank or electric operation:  
Tension side only

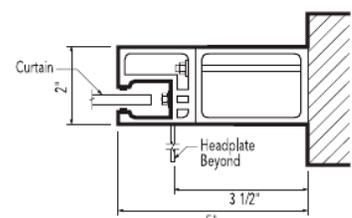


Between jambs mounted - crank or electric operation  
Wood guide | Aluminum guide

Drive side only



Drive side only



## Electric operators

Our broad line of electric operators to suit new construction and retrofit applications, as well as unusual or special requirements. In order to improve safety and enhance door and motor life, industry quality assurance guidelines recommend the choice of a single manufacturer for both door and operator applications.

We are one of the only manufacturers to offer a full line of commercial and industrial doors and operators specifically designed for integral applications.

### Model CDX®

Model CDX® is a gear-reduced commercial operator with a 1/2 HP motor. The CDX® operator may be used for doors up to 140 sq. ft. (13006 sq.mm). Mounting is front-of-hood only. Availability is dependent on weight of door.

### Model RMX®

Model RMX® is our advanced medium-duty operator. It is designed for quicker installation and hassle-free operation and operates rolling doors up to 16' (4876 mm) in height and 580 pounds (263 kg).

### Model RSX®

Model RSX® is a standard duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 1620 pounds (735 kg). It offers unique features like LimitLock®, SuperBelt™ and 16 digit menu setup.

### Model RTM

Model RTM is a tubular motor designed for counter doors. Mounting is in the barrel only.



## Safety recommendations

We strongly recommend the use of interlock switches and an electric safety edge for all electrically operated rolling service doors. We recommend a self-monitoring, electric sensing edge.

### Entrapment protection: electric sensing edge

The installation of an external reversing device for all electrically operated commercial doors is recommended. If a sensing edge or other reversing device is not installed, a constant-contact control switch must be used to close the door. We recommend a self-monitoring, electric sensing edge or photo cells required for all momentary contact applications.

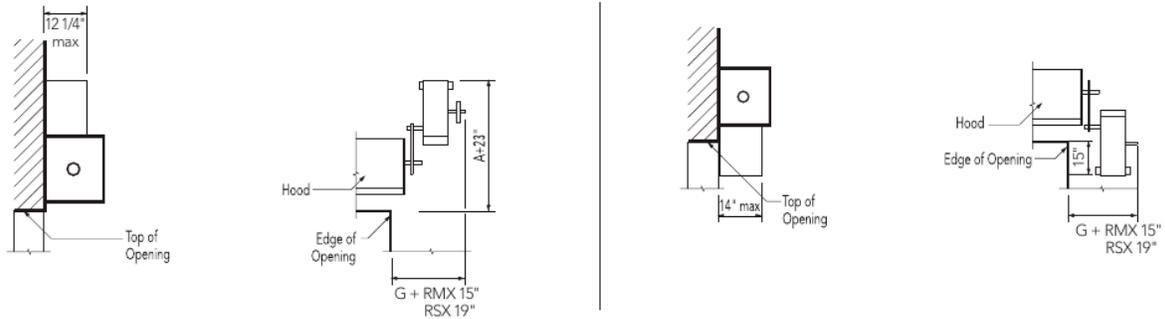


## Mounting details

### Wall mounted (above shaft) - RHX®/RSX®

### Wall mounted (below shaft)

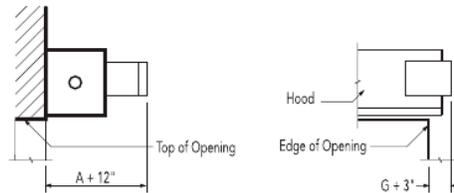
For 650/651/652 and 665 model doors



For "A" and "G" dimensions, refer to headroom and guide clearance dimension charts applicable to door type selected.

### Front-of-hood mounted - CDX®

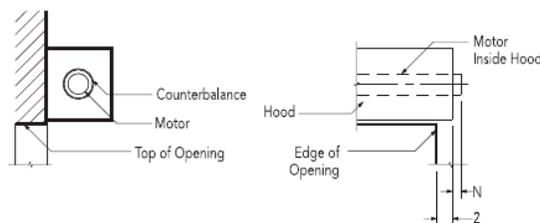
For 650/651/652 and 665 model doors



For "A" and "G" dimensions, refer to headroom and guide clearance dimension charts applicable to door type selected.

\* Front-of-hood mounted also available on between jambs mounted doors.

### Barrel mounted - RTM



N = 2" without manual override.

N = 3 1/2" with built-in manual override.

Consult factory for project application. Operator models have height and torque limits.

For more detailed information, refer to our Architects Corner on our website or consult your local Overhead Door™ Company Distributor.



*Integral frame counter door*



**Tools to help you  
get the job done.**

## Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

[overheaddoor.com](http://overheaddoor.com)

### The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the sectional garage door industry, inventing the first sectional garage door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.



INDUSTRY LEADING  
COMMERCIAL & INDUSTRIAL SOLUTIONS



2501 S. State Hwy. 121 Bus., Suite 200, Lewisville, TX 75067  
1-800-929-DOOR • [sales@overheaddoor.com](mailto:sales@overheaddoor.com)  
[overheaddoor.com](http://overheaddoor.com)

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Manufacturer: Surfacing Solution  
Style/Series: 332 Real Wood Veneer Tambour

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### Attributes

Item Type: Wall Panel  
Model: 332 Real Wood Veneer Tambour

#### DIMENSIONS

Width: 4'  
Height: 8'  
Profile Dimensions: Trapezoid - .75" wide x 5/32" thick slats - 30 degree bevel

#### MATERIAL / FINISH

Color: Wire Brushed White Oak (332)  
Material Composition: Core Material: MDF





# SurfacingSolution™

2480 Chaska Blvd. Chaska, MN 55318  
800-964-6727 • 800-964-0630 fax  
www.SurfacingSolution.com



331 & 332

Slat Width: 3/4" Wide

Smooth Veneers (Brown MDF Core): Red Oak, Maple, White Oak,

Smooth Veneers (Black PVC Core): Walnut, Teak, Purple Heart, Cherry, Brushed Aluminum (333), Brushed Brass(333)

332 Wire Brushed Veneers (WB): WB White Oak, WB Teak, WB Red Oak, WB Elm, WB Wenge (Black PVC Core)

## 1.1 WOOD VENEER TAMBOUR PANELS

### A. Basis of Design: Real Wood Veneer Tambour by Surfacing Solution.

1. Panel Size: 4 x 8 feet (1219 x 2438 mm). See species options below
2. Panel Size 4x10 ( 1219 x 3048 mm) See Species Options below
3. Core Material: MDF or black PVC.
4. Profile 331/332/333:
  - a. Slat Width: 1/2 inch (12.7 mm).
  - b. Slat Height: 5/32 inch (4.0 mm).
  - c. Texture: Smooth.
  - d. Species 4x8: [Red Oak] [Maple] [White Oak] [Walnut] [Cherry] [Gray Stained White Oak] [Purple Heart] [Teak] [Brushed Aluminum (333)] [Brushed Brass (333)] [Wire Brushed White Oak (332)] [Wire Brushed Red Oak (332)] [Wire Brushed Elm] [Wire Brushed Wenge (Black PVC Core)] [Wire Brushed Teak]
  - e. Species 4x10: Birch, Teak ( Black PVC Core), White Oak, Walnut, Wire brushed White Oak (332).
5. Field Finish: [Stain and clear coat polyurethane] [Clear] [Natural oil] [Paint].[\_\_\_\_\_].

### Basic Uses & Installation

Our Tambour is intended for interior applications and is to be bonded to any clean, dry, structurally sound and rigid surface either horizontal, diagonal, or vertical. Each panel should be stretched by rolling the panel up with slats facing inward as well as bending concave carefully. This spreads each tambour slat out and spaces them evenly allowing for expansion and contraction. As soon as the panels arrive, they must be in a controlled environment (temperature and humidity) ranging from 50 degrees (Fahrenheit) to 80 degrees (Fahrenheit). The humidity levels must not fall below 30% and not go above 50% for an extended period.

Since this is real wood it will expand and contract regularly. If painting, staining, or coating – it is extremely important to stretch the material (as mentioned above) to allow for expansion with moisture prior to coating. The material must be acclimated for a minimum of 48 hours prior to finishing. Panels are then typically glued up with a standard paneling/construction adhesive (trowel or caulk style) onto a solid substrate. Thicker profiles should additionally either be held with finishing nails or braced in place until the glue cures.

The thickness of the tambour varies in thickness depending on the profile (shape) chosen. It is recommended that both the solid wood and veneers be finished with either a stain and a clear coat polyurethane finish, a clear coat, natural oil moisturizer, or painted to increase durability and life.

Panels are nominal in size and are not finish cut to exact lengths, however we don't allow shorter than noted slat length. We hand lay and assemble each panel, sorting and matching color to the natural color variation of the wood chosen. We only use the highest quality slats and put them on a flexible backing with a permanent pressure sensitive adhesive.

Please note: This is a real natural wood product and will have color & grain variation from slat to slat and panel to panel. While we do hand assemble them and color sort slats within a reasonable color variation depending on the wood species – the grain/color will never be 100% consistent from slat to slat or panel to panel.



# SurfacingSolution™

2480 Chaska Blvd. Chaska, MN 55318  
800-964-6727 • 800-964-0630 fax  
[www.SurfacingSolution.com](http://www.SurfacingSolution.com)

## ASSEMBLY, MILLWORK

### Hydration Station - Plastic Laminate ...

Manufacturer: VARIOUS MANUFACTURERS

Style/Series: Hydration Station

#### Attributes

Hydration Station - Plastic Laminate Clad Custom Millwork consisting of cabinets, shelves and countertops.

Type: Public Space Millwork

#### DIMENSIONS

Dimension Explanation: Refer to Design Guideline Drawings

#### MATERIAL / FINISH

Material Composition: Cabinet to Door Interface shall be Frameless, Flush (Full) Overlay. Grain direction to be vertical on doors, horizontal on drawer fronts.

Color: Colors to be selected by Architect; refer to Implementation Guide.

Finish: Finishes to be selected by Architect; refer to Implementation Guide.

#### PERFORMANCE

Accessibility Compliance : ANSI A117.1 current version, ADAAG

Acoustical Performance: Door & Drawer bumpers to be placed on all cabinet doors and drawers.

Best Practices: Use products with no urea-formaldehyde resins. Use adhesives with Low VOC content.

Classification: Particle Board: ANSI A208.1, Mat-Formed Particle Board, Grade 1-M-2, with minimum density of 45 pcf. Internal bond of 60 psi, and minimum screw holding capacity of 225 lb. on faces and 200 lb. on edges. Hardboard: ANSI A135.4, Class 1, tempered. MDF: ANSI A208.2, Grade 130.

Grade: Lumber shall be in accordance with the AWS Grade specified for the product being fabricated. Moisture content shall be 6% to 12% for boards up to 2-inches nominal thickness, and shall not exceed 19% for thicker pieces.

Quality Standards: Architectural Woodwork Standards (AWS)

#### MISCELLANEOUS

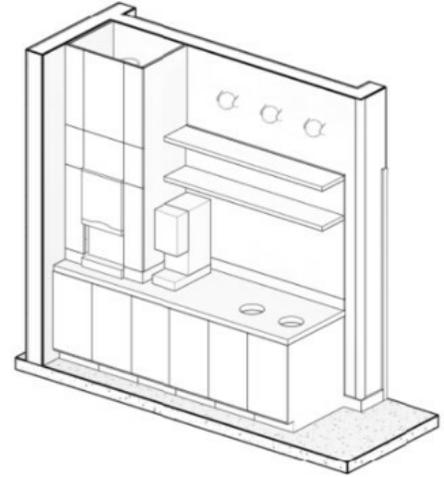
Lead Time: TBD

Notes / Special Instructions: Architect / General Contractor to coordinate millwork with equipment sizes and requirements, to include ALL equipment, glazing, accessories, lighting, power/data etc.

Design & Construction:

#### CUSTOM FIELDS

Lighting: N/A



#### 8 NESTED ITEMS

| Code/Tag   | Product Name                           | Quantity |
|------------|--|----------|
| CT-002-WIL | CALCUTTA BLANC TS501                   | 0.0      |
| ERA-006-NE | LCD-2 HOT                              | 0.0      |
| LA-001-PNL | Folkstone Gray - SG241                 | 0.0      |
| LA-003-PNL | Thermally Fused Melamine               | 0.0      |
| PL-812-MOC | CNF0201                                | 0.0      |
| MH-001-RK  | Surface Mount Eh Support Bracket       | 0.0      |
| MH-002-DM  | TM2B - 8" Dia. X 2" Deep Trash Grommet | 0.0      |
| LA-006-FM  | 8844 Aged Ash                          | 0.0      |

Fabric Wrapped Panels: N/A

Plastic Laminate: Finishes to be selected by Architect; refer to Implementation Guide.

Millwork Hardware: Refer to Specifications within Building Product Manual for hinges, drawer slides, shelf supports and magnetic catch. Pulls, grommets & locks to be selected by Architect; refer to Implementation Guide.

## Notes

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1. Public Space Casework: Interior face of exposed cabinet units shall be Black Thermoset Decorative Overlay (melamine).
2. Top and Bottom Rails; and Sub-toe Boards: Not less than 3/4-inch particleboard faced with Grade VGS plastic laminate to match door and drawer fronts. Machine ends for wood-dowel or mechanical dowel fasteners to receive top, bottom, and back. Base ends to extend to floor. Finish exposed ends to match doors and doors and drawer fronts.
3. Unexposed Ends: Not less than 3/4-inch tempered hardboard; finished with Thermoset Decorative Overlay (Melamine). Attach to front frame in same manner as exposed ends.
4. Back Panels: Not less than 1/4-inch tempered hardboard or MDF; finished with Thermoset Decorative Overlay (Melamine).
5. Doors 48 Inches or Less in Height: 3/4 inch thick, Particle Board cores. Front faces to be Grad

## Back of House Countertop

---

Manufacturer: Wilsonart Laminate & Countertops  
Style/Series: CALCUTTA BLANC TS501

## Sales Rep

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### Primary

Amy Morgenweck  
Email: morgena@wilsonart.com

## Attributes

---

Back of House Countertop

Item Type: Laminate  
Description: Back of House Countertop  
Manufacturer: Wilsonart  
Model: THINSCAPE performance top  
Dimensions: Refer to drawings for size and thickness  
Color: CALCUTTA BLANC TS501  
Accessories: Adhesive per Manufacturer's Recommendation

### NOTES

Special Instructions: SPECIAL INSTRUCTIONS Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) an at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.

## Notes

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### SPECIAL INSTRUCTIONS

Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) an at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.



## 1. **Manufacturer**

Wilsonart LLC  
2501 Wilsonart Drive  
P.O. Box 6110  
Temple, Texas 76503-6110  
Phone: (254) 207-7000; (800) 433-3222  
Fax: (254) 207-2384  
Website: [www.wilsonart.com](http://www.wilsonart.com)

## 2. **Product Description**

Wilsonart® THINSCAPE® Performance Tops are ultra-thin, self-supporting countertops that are highly durable and versatile. Featuring a European-inspired “thin” profile, THINSCAPE slabs are available in stone, woodgrain and metal designs, and are produced with coordinating design, texture and color-core combinations.

### **Recommended Uses**

Wilsonart® THINSCAPE® Performance Tops are ideal for single-family & multi-family builds, commercial, hospitality, retail and office furniture applications such as kitchen countertops, bath vanities, laundry room worktops, table tops and other horizontal applications.

### **Product Composition**

Wilsonart® THINSCAPE® Performance Tops are a composite material, made up of papers and resins to achieve an overall thickness of ½”. This construction allows the slabs to be cut, routed, sanded and fabricated with dry tooling, which includes standard carbide-tipped blades/bits and woodworking tools. Small horizontal fissures sometimes observed running along the horizontal plain of the core are inherent of the modified resin composed core material and are acceptable. Climate controlled environments for inventory of panels, fabrication processes and final installation locations are important recommended practices to minimizing these fissures.

### **Basic Limitations**

Wilsonart® THINSCAPE® Performance Tops are designed for interior applications only and not recommended for exterior applications. However, as no one material is suitable for all possible conditions, THINSCAPE slab properties should be checked for suitability under the specific conditions of each application.

### **Patterns & Colors**

See all patterns and colors as listed below.

| Design | Name              | Core Color | Finish |
|--------|-------------------|------------|--------|
| TS101  | Distressed Pine   | Khaki      | WB     |
| TS102  | Quartzite Falls   | Khaki      | LR     |
| TS306  | Spanish Limestone | Grey       | SB     |
| TS307  | Soapstone Mist    | Grey       | LR     |
| TS308  | Sterling Calcutta | Grey       | LR     |
| TS309  | Quartz Rapids     | Grey       | SB     |
| TS311  | Taj Mahal         | Grey       | SB     |
| TS401  | Rugged Steel      | Black      | NL     |
| TS404  | Black Amani       | Black      | LR     |
| TS501  | Calcutta Blanc    | White      | LR     |
| TS503  | Italian Carrara   | White      | LR     |
| TS504  | Volakas Marble    | White      | LR     |

**Finishes**

|    |              |  |
|----|--------------|--|
| SB | Sandblasted  | The sandblasting method creates a smooth, lightly textured, ultra-matte surface. |
| WB | Wire Brushed | Wire Brushed creates a linear texture with both matte and gloss sheen.           |
| NL | Natural      | The Natural finish has minimal texture and a low sheen.                          |
| LR | Luster       | Luster has a semi-gloss sheen and a smooth surface.                              |

| Finish Availability | Imperial Measure (Inches) | Size Availability                | Metric Measure (Mm) | Lbs. /Sq.Ft |
|---------------------|---------------------------|----------------------------------|---------------------|-------------|
| WB, SB, NL, LR      | 1/2" (0.500)              | 30"x10', 30"x12', 5'x10', 5'x12' | 12.7mm              | 3.77        |

**Physical Properties**

| Test Method   | Units                                       | Scale           | THINSCAPE®                                       |
|---|---|-----------------|--|
| Scratch resistance (EN438)                                | N   | 1 to 5 (5 best) | 3  |
| Boiling Water Immersion (EN438)                           | Grade (4 min)                               | 1 to 5 (5 best) | 4  |
| Resistance to Water Vapor (EN438)                         | Grade (4 min)                               | 1 to 5 (5 best) | 4  |
| Resistance to Cigarette Burn (EN438)                      | Grade                                       | 1 to 5 (5 best) | Not Tested                                       |
| Resistance to Crazeing (EN438)                            | Grade (Surface 4 min)<br>Grade (Core 3 min) | 1 to 5 (5 best) | Surface 5<br>Core 4                              |
| Modulus of Elasticity (EN ISO 178/ASTM-08)                | Mpa   | >11000          | ≥12,000  |
| Flexural Strength (MD)<br>(EN ISO 178/ASTM 790-07)        | Mpa   | > 114.0         | ≥180   |
| Flexural Strength (CD)<br>(EN ISO 178 ASTM 790-08)        | Mpa   | > 82.7          | ≥130   |
| Tensile Strength (MD)<br>(EN ISO 527-2 ASTM 638-08)       | Mpa   | > 114.0         | ≥140   |
| Tensile Strength (CD)<br>(EN 438-225)                     | Mpa   | > 82.7          | ≥100   |
| Density<br>(EN ISO 1183/ASTM 792-08)                      | g/cm <sup>2</sup>                           | ≥ 1.40          | ≥ 1.45   |
| Lightfastness<br>(ISO 4586)                               | Rating (min 4)                              | 1 to 5 (5 best) | ≥4   |
| Resistance to Surface Wear<br>(ISO 4586)                  | Revolutions                                 | Min Value 400   | ≥ 400  |
| Resistance to Impact by Large Diameter Ball<br>(ISO 4586) | Thickness Inches<br>(mm)                    | Visual          | <u>(0.500")</u><br><u>&gt;78" (&gt;1,980 mm)</u> |
| Resistance to Staining<br>(ISO 4586)                      | Rating (max 20)                             | Varies          | ≤20  |
| Stains 1-10 (ISO 4586)                                    | Rating (min 5)                              | 1 to 5 (5 best) | 5  |
| Stains 11-15<br>(ISO 4586)                                | Rating (min 3)                              | 1 to 5 (5 best) | ≥ 3  |
| Resistance to Radiant Heat<br>(ISO 486)                   | Seconds                                     | Visual          | Not Tested                                       |
| Resistance to Wet Heat<br>(ISO 4586)                      | Rating (min 5)                              | 1 to 5 (5 best) | 5  |
| Resistance to Dry Heat (ISO 4586)                         | Rating (min 4)                              | 1 to 5 (5 best) | ≥ 4  |
| Dimensional Change MD (ISO 4586)                          | % MD Max                                    | % Change        | (0.500")<br>≤ 0.3                                |

|                                     |                               |           |                   |
|-------------------------------------|-------------------------------|-----------|-------------------|
| Dimensional Change CD<br>(ISO 4586) | % CD Max                      | % Change  | (0.500")<br>≤ 0.7 |
| Fire Properties<br>ASTM E-84        |                               |           | Class B           |
| Flatness<br>ISO 4586 -2 (10)        | On products >1/2"<br>(12.7mm) | 5.0mm / m | 5.0mm / m         |

### 3. Handling, Storage, and Conditioning

When handling Wilsonart® THINSCAPE® Performance Tops, it is recommended to lift the panels individually to avoid scratching. It is recommended to prevent the decorative surfaces from sliding against one another. It is acceptable to use a gripping system, such as a suction pad.

Use flat and rigid pallets that are at least the same sizes as the panels to avoid sliding and unstable positioning. The maximum spacing between supporting boards is 24" (609.6mm). Store the panels in closed premises, safe from humidity and heat (50 to 86°F (10 to 30 °C) and 40 to 60% RH). In the case of horizontal storage on pallets, put a protective paper of an adequate size between the pallet and the panels and on the top panel. It is advisable to keep the panels wrapped inside their original packaging (plastic lining). Flat storage of the panels prevents deformations from occurring.

Prior to installation, it is recommended to store Wilsonart® THINSCAPE® Performance Tops for approximately 48 hours in the premises with the following environmental conditions.

- Temperature from 64 to 77°F (18 to 25°C)
- Relative humidity from 40 to 60%

When installing Wilsonart® THINSCAPE® Performance Tops, remove the protection films, (if present) from both sides simultaneously. For optimal results, we recommend that identical ventilation is assured on both sides.

Do not install Wilsonart® THINSCAPE® over a solid substrate.

NOTE: Before any fabrication and installation, always make sure that the two sides of the THINSCAPE slab are clean and that no abrasive particles are present.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per ISO 4586-2 Method 31 (B)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray\*
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner \*
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant\*
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose® II 256
17. Diversey™ Oxivir 1
18. Diversey™ Oxivir Tb Wipes
19. Diversey™ Stride® Floral Neutral Cleaner
20. Diversey™ Virex® II 256

21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed materials were placed in contact with Wilsonart® THINSCAPE® surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-2014 (Section 6 / Modified)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental, Inc. (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose II 256
17. Diversey™ Oxivir 1
18. Diversey™ Stride® Floral Neutral Cleaner
19. Diversey™ Tb Wipes
20. Diversey™ Virex II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed reagent materials were placed in contact with Wilsonart® THINSCAPE® surface with a one-inch square 100% cotton cloth completely saturated and covered with a 2" (50.8mm) diameter watch cover glass for 15 minute duration. The reagents listed above were removed with clean cloth and the area was then cleaned with clean cloth and distilled water only. The surface area was allowed to dry for 1-hour prior to evaluation for effect.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Resistance of Furniture to UV Lights for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-201X Section 9 (Alternate Method per ASTM G155 using ISO 4586-2.33 conditions).

Wilsonart® THINSCAPE® conforms to BIFMA – Healthcare Furniture Design Guidelines for Cleanability, Section 9 Resistance to Furniture to UV Lights. Wilsonart THINSCAPE meets or exceeds the acceptance level for surface evaluation.

4. [Warranty](#)

5. [Care and Maintenance](#)

6. **Technical Services**

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.

**Specification Form**

Surface shall be Wilsonart® THINSCAPE® Performance Tops, produced by Wilsonart LLC, Temple, Texas 76503-6110

Type: Specify THNSCAPE \_\_\_\_\_

Surface

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Finish

Number: \_\_\_\_\_

Name: \_\_\_\_\_

Edge Trim

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Adhesive

Name: \_\_\_\_\_

Grade/Type: \_\_\_\_\_

Brand: Wilsonart® Adhesives

Wilsonart® THINSCAPE® Performance Tops Technical Data

June 24, 2020

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Manufacturer: Newco Enterprises, Inc.  
Style/Series: LCD-2 HOT

### Attributes

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Item Type: LCD-2  
Description: Coffee Maker  
Manufacturer: Newco  
Model: LCD-02

**NOTES** H 26.3" x W 9.5" x D 20"  
Manufacturer Data Sheet: <https://tinyurl.com/2u43eue3>





*Mild or Bold  
Hot or Cold*

## LCD-2 LIQUID COFFEE DISPENSER

- 2 Product selection extract coffee dispenser supports two shelf stable B.I.B.s
- Super burst capacity - dispenses over 150 cups per hour (5oz cups @ 120vac 15 amps)
- Dispense by the cup or by the carafe
- Single dispense point - features product blending option for 1/2 & 1/2 or "half caff" beverages (up to a 35-1 ratio)
- Digital ratio adjustment
- Delivers ratios in a range from 15-1 up to 70-1
- Quick product loading - uses Scholle B.I.B. connector
- Brilliant L.E.D. backlighting - highlights marketing signboard display. No more light bulb replacement!
- Operates in continuous flow (Push and Hold) or portion controlled mode
- 3 selection buttons supporting each product channel provides options:
  - Small-Medium-Large
  - Mild-Regular-Bold
  - 10 oz - 12oz - Carafe
- Unique mixing chamber design - eliminates "striping"
- Dual voltage model available
- Hot water dispense feature - for hot tea



LCD-2

*Ask about our other models too.*



HOT

COMBO

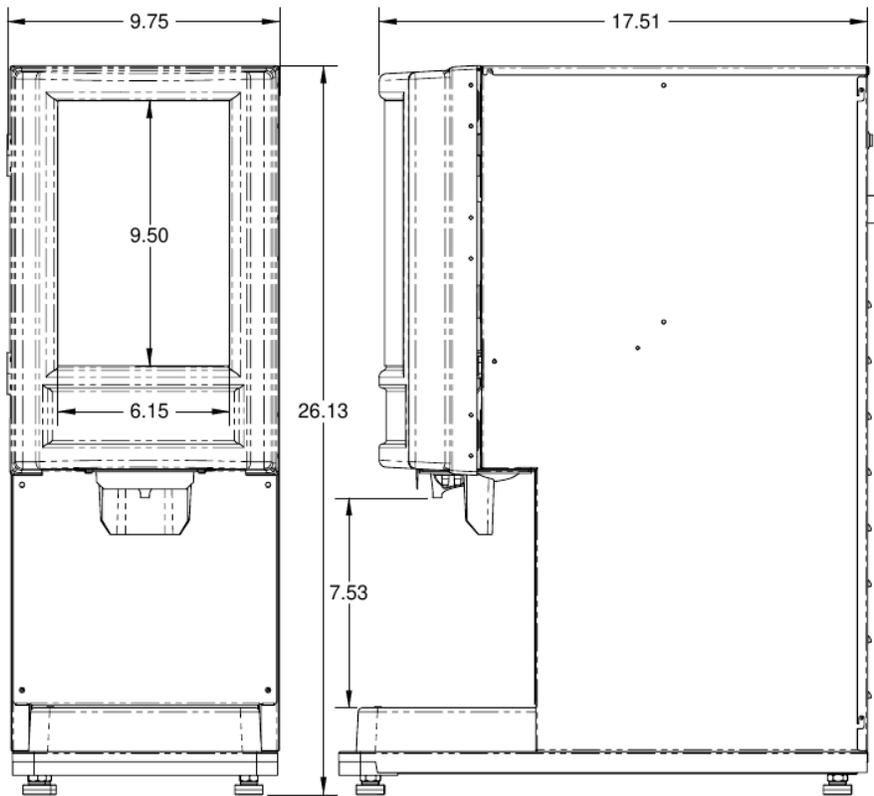
AMBIENT



# LCD-2

*Dimensions*

## LCD-2 LIQUID COFFEE DISPENSER



| Base Model | Part Number | Volts | Amps | Tank Wattage | Ship Weight | Cord Attached |
|------------|-------------|-------|------|--------------|-------------|---------------|
| LCD-2      | 120532      | 120   | 15   | 1750w        | 43 Lbs      | Yes           |
| LCD-2      | 120354      | 240   | 14.5 | 3550w        | 43 Lbs      | No            |

**Electrical:** 120 V models are 2 wires plus ground service rated 120V, single phase, 60Hz.

**Plumbing:** Water line should be 20-90 PSI and have a minimum flow rate of 1.5 GPM. Mechanical connection on brewer is 1/4" male flare connector.

## Millwork Laminate

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Manufacturer: Panolam Surface Systems  
Style/Series: Folkstone Gray - SG241

## Sales Rep

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### Primary

Alitia Cross  
Email: No.Email.398

## Attributes

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Millwork Laminate

Item Type: Plastic Laminate

Description: Type 107 General Purpose (HGS) Laminate

Manufacturer: Panolam / Pionite

Model: SG241

Dimensions: 0.048" Plus Minus 0.005" Thickness, Standard Sheet

Widths 36", 48", 60" x Standard Sheet Lengths 96", 120", 144"

Color: Folkstone Gray

Finish: Textured/Suede (SD)

Material Composition: Melamine impregnated decorative surface papers combined with fire retardant phenolic treated kraft paper

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45  
Unbonded. Flame Spread 40, Smoke Density 100 Bonded.

Best Practices: 17% Post-consumer content, Green Guard Certified  
Quality Standards: Architectural Woodwork Standards (AWS); ANSI  
A161.2 "Standards for Fabricated High Pressure Decorative  
Laminate Countertops." NEMA LD3 "High Pressure Decorative  
Laminates"

Accessories: Manufacturer's recommended adhesive

Warranty: 1 Year

Notes: Recommended substrates for laminates are particleboard,  
medium density fiberboard (MDF) or plywood with one A-face. High-  
pressure laminate, plaster, concrete and gypsum board should not  
be considered suitable substrates.

SPECIAL INSTRUCTIONS: All substrates should be sanded smooth,  
and should be clean and free of oil or grease and uniform in  
thickness



## Thermally Fused Melamine

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Manufacturer: Panolam Surface Systems

Style/Series: Thermally Fused Melamine

## Sales Rep

---

### Primary

Alitia Cross

Email: No.Email.398

## Attributes

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Thermally Fused Melamine

Type: Thermally Fused Laminate (TFL)

Material Composition: Laminate Composition: Melamine saturated decorative layers thermally fused to both core face surfaces with heat and pressure. Stain resistant surface with wear and scratch resistance.

Color: White

Finish: Matte

Accessories: Manufacturer's recommended adhesive

Best Practices: 17% Post-consumer content, Greenguard Certified

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45

Unbonded. Flame Spread 40, Smoke Density 100 Bonded

Quality Standards: Architectural Woodwork Standards (AWS); ANSI

3. A161.2 Standards for Fabricated High Pressure Decorative

Laminate Countertops , NEMA LD3 High Pressure Decorative

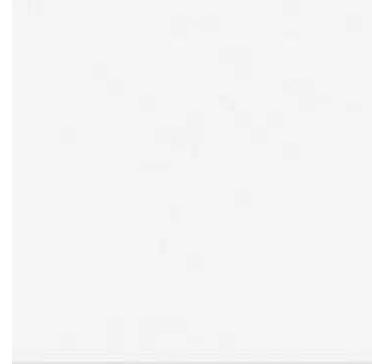
Laminates

Product/Color: Thermally Fused Laminate/White Matte

Eco-Feature(s) \*as per manufacturer: N/A

Warranty: 1 Year

Special Instructions: All substrates should be sanded smooth, and should be clean and free of oil or grease, and uniform in thickness.



## Notes

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Panel Core Material: Composite panel product composed primarily of cellulosic materials and a bonding system, resulting in a durable and dimensionally stable substrate suitable for decorative laminate overlays. Panel core material can be particleboard or medium density fiberboard.

4" Height Continuous Base

Refer to Design Guide Project Master Manual, Sections 12 32 13 for Wood Veneer Casework and 12 32 16 for Plastic Laminate Casework

## Hydration Station Ice Maker and Water...

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Manufacturer: Manitowoc Ice, Inc.  
Style/Series: CNF0201

## Sales Rep

---

### Primary

Customer Service  
Email: N/A

## Attributes

---

Hydration Station Ice Maker and Water Dispenser

Type: Air Cooled Countertop Nugget Ice Maker and Water Dispenser

### DIMENSIONS

Width: 16.25"

Height: 35"

Depth: 24"

### MATERIAL/FINISH

Finish: Stainless Steel

### PERFORMANCE

Quality Standards: UL Listed, NSF Listed

### MISCELLANEOUS

Lead Time: To Be Verified

Warranty: 2 year warranty on ice maker parts; 5 year warranty on compressor parts (2 year labor warranty for ice maker and compressor)





# CNF0201 • CNF0202

## Countertop Nugget Ice Maker & Dispenser

CNF0201 • CNF0202 Countertop Nugget Ice Maker & Dispenser

### Models

- CNF0201AL 
  CNF0201A 
  CNF0202AL 
  CNF0202A

Three dispense settings are standard: ice only, water only, or ice and water.



- **New bite-sized nugget** boasts 85% ice content\* with only 15% water offering one of the best nugget ratios for maximum cooling and minimal drink dilution.
- **Up to 315 lbs. (143 kgs) standard daily ice production** including ice and water content.
- **New DuraTech™ front panel** for easy cleaning and reduced hardwater staining in the dispense area.
- **Only 16.25" (41.28 cm) wide** by 24.00" (61.00 cm) deep by 35.00" (89.00 cm) tall on the RNS12 and 42.00" (107.00 cm) tall without legs; legs sold separately.
- **Trouble-free ice dispensing.** Simply place cup under chute and activate.
- **Two ice activation options:** activation arm or touchless.
- Dispense opening (10.50"/ 26.67 cm) from grate to chute maximizes clearance for tall containers.
- Larger drain pan minimizes ice spillage.
- Blue LED light provides dispense visibility for rooms with limited ambient light.
- Drain connections in back or bottom of unit for flush mounting.
- Manitowoc's patented cleaning technology manages the cleaning process from start to finish.

### Ice Machine Electric

115/60/1. (230/50/1 also available.) 115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration. 230/50/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total ampacity: Air-cooled: 10.3 amps.

Maximum fuse size: Air-cooled: 15 amps.

HACR-type circuit breakers can be used in place of fuses.

\*70/50° F



### Specifications

BTU Per Hour:  
2,300 (average)

Compressor:  
Nominal rating: 1/3 HP  
Refrigerant: R404A

- Operating Limits:
- Ambient Temperature Range: 45°-110°F (7.2°-43.3°C)
  - Water Temperature Range: 45°-90°F (7.2°-32°C)
  - Water Pressure Ice Maker Water In:  
Min. 20 psi (137.9 kPa)  
Max. 80 psi (551.1 kPa)

### Ice Shape

Nugget ice consists of small pieces ranging from 3/8" to 1/2" in width and length on average. Offers a 85% ice to water ratio with a softer, chewable texture while still providing maximum cooling effect and great dispensibility.





| Model                                  | Ice Shape | Ice Production 24 Hours                |  | Power kWh/<br>100 lbs.<br>@ 90°/70°F<br>32°/21°C |
|--|-----------|--|--|--|
|  |           | 70°Air/50°F Water<br>21°Air/10°C Water | 90°Air/70°F Water<br>32°Air/21°C Water |  |
| CNF0201A                               | nugget    | 315 lbs.                               | 222 lbs.                               | 6.69   |
|  |           | 143 kgs                                | 101 kgs                                |  |
| CNF0202A                               | nugget    | 315 lbs.                               | 222 lbs.                               | 6.69   |
|  |           | 143 kgs                                | 101 kgs                                |  |
| Water usage/100 lbs./45.4 kgs of Ice   |           |  |  |  |
| Potable Water: 12 gallons, 45.4 liters |           |  |  |  |

\*A following model number indicates "Air" condensing unit.

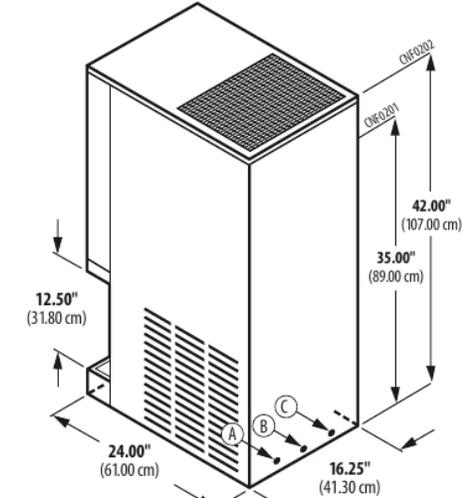
### Space-Saving Designs



|             | CNF0201            | CNF0202             |
|-------------|--------------------|---------------------|
| Height*     | 35.00"<br>89.00 cm | 42.00"<br>107.00 cm |
| Width       | 16.25"<br>41.30 cm | 16.25"<br>41.30 cm  |
| Depth       | 24.00"<br>61.00 cm | 24.00"<br>61.00 cm  |
| Bin Storage | 10 lbs.<br>4.5 kgs | 20 lbs.<br>9.1 kgs  |

\*Height without legs. Legs sold separately: K-00345.

### CNF0201/202



- (A) 3/8" (0.95 cm) F.P.T. Ice Making Water Inlet
- (B) 3/4" (1.91 cm) Bin Drain
- (C) Electrical Entrance

**MINIMUM INSTALLATION CLEARANCE –**  
Top: 24" (60.96 cm); Sides: 8" (20.32 cm); Back: 5" (12.7 cm); Bottom: 0" (0 cm).

Stand offers a solution when there is no counter space available for an CNF0201 or 202 unit.

| Kit Number | W x D x H             | Shipping Weight |
|------------|-----------------------|-----------------|
| K-00453    | 22.2 x 29.2 x 36"     | 100 lbs         |
|            | 56.4 x 74.2 x 76.2 cm | 50 kgs          |

\*Height includes 6" legs

### CNF0201N/202N

#### Solid Front Panel

Shipped with ice/water option selected. Solid front panel makes machine completely touch-free.



### Air Flow Front View

Air in right, air out top.

### Front Access



Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.

### Lever-activated or Touchless Dispensing\*



CNF0201L  
CNF0202L



CNF0201  
CNF0202

\*Select at time of purchase. K-00377 can be used to convert from lever-activated to touchless sensing.

© 2017 Welbilt. Continuing product improvement may necessitate change of specifications without notice.

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Manufacturer: Rakks Shelving  
Style/Series: Surface Mount Eh Support Bracket

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### Attributes

Model: EH Countertop Support Bracket with Rounded Ends

**MATERIAL/FINISH**

Material: Aluminum

Color: Off-White

Manufacturer Data Sheet: <https://tinyurl.com/4keem87s>

**NOTES**



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Manufacturer: Doug Mockett & Company  
Style/Series: TM2B - 8" Dia. X 2" Deep Trash Grommet

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### Attributes

Model: TM2B

#### DIMENSIONS

Diameter: 8"

Depth: 2"

#### MATERIAL / FINISH

Finish: Satin Stainless Steel

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/55ekx9wk>



## Millwork Laminate

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Manufacturer: Formica Group North America

Style/Series: 8844 Aged Ash

## Sales Rep

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### Primary

Kate Eimer

Email: kate.eimer@formica.com

## Attributes

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Millwork Laminate

Item Type: Plastic Laminate

Description: Type 107 General Purpose (HGS) Laminate

Manufacturer: Formica

Model: 8844

Dimensions: 0.048" Plus Minus 0.005" Thickness, Standard Sheet

Widths 36", 48", 60" x Standard Sheet Lengths 96", 120", 144"

Color: Aged Ash

Finish: Matte (58)

Material Composition: Melamine impregnated decorative surface papers combined with fire retardant phenolic treated kraft paper

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45  
Unbonded. Flame Spread 40, Smoke Density 100 Bonded.

Best Practices: 17% Post-consumer content, Green Guard Certified  
Quality Standards: Architectural Woodwork Standards (AWS); ANSI  
A161.2 "Standards for Fabricated High Pressure Decorative  
Laminate Countertops." NEMA LD3 "High Pressure Decorative  
Laminates"

Accessories: Manufacturer's recommended adhesive

Warranty: 1 Year

Notes: Recommended substrates for laminates are particleboard,  
medium density fiberboard (MDF) or plywood with one A-face. High-  
pressure laminate, plaster, concrete and gypsum board should not  
be considered suitable substrates.

SPECIAL INSTRUCTIONS: All substrates should be sanded smooth,  
and should be clean and free of oil or grease and uniform in  
thickness



## ASSEMBLY, MILLWORK

### Breakroom Cabinetry - Plastic Laminat...

Manufacturer: VARIOUS MANUFACTURERS

Style/Series: Breakroom Cabinetry

#### Attributes

Breakroom Cabinetry - Plastic Laminate Clad Custom Millwork consisting of cabinets, shelves and countertops.

Type: Back of House Millwork

#### DIMENSIONS

Dimension Explanation: Refer to Design Guideline Drawings

#### MATERIAL / FINISH

Material Composition: Cabinet to Door Interface shall be Frameless, Flush (Full) Overlay. Grain direction to be vertical on doors, horizontal on drawer fronts

Color: Colors to be selected by Architect; refer to Implementation Guide.

Finish: Finishes to be selected by Architect; refer to Implementation Guide.

#### PERFORMANCE

Accessibility Compliance : ANSI A117.1 current version, ADAAG

Acoustical Performance: Door & Drawer bumpers to be placed on all cabinet doors and drawers.

Best Practices: Use products with no urea-formaldehyde resins. Use adhesives with Low VOC content

Classification: Particle Board: ANSI A208.1, Mat-Formed Particle Board, Grade 1-M-2, with minimum density of 45 pcf. Internal bond of 60 psi, and minimum screw holding capacity of 225 lb. on faces and 200 lb. on edges. Hardboard: ANSI A135.4, Class 1, tempered. MDF: ANSI A208.2, Grade 130.

Grade: Lumber shall be in accordance with the AWS Grade specified for the product being fabricated. Moisture content shall be 6% to 12% for boards up to 2-inches nominal thickness, and shall not exceed 19% for thicker pieces.

Quality Standards: Architectural Woodwork Standards (AWS)

#### MISCELLANEOUS

Lead Time: TBD

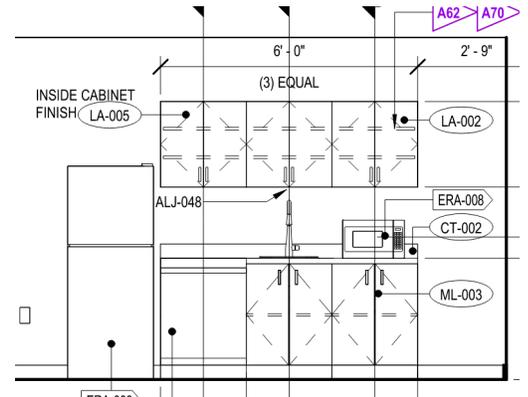
Notes / Special Instructions: Architect / General Contractor to coordinate millwork with equipment sizes and requirements, to include ALL equipment, glazing, accessories, lighting, power/data etc.

#### CUSTOM FIELDS

Lighting: N/A

Fabric Wrapped Panels: N/A

Plastic Laminate: Finishes to be selected by Architect; refer to



#### 4 NESTED ITEMS

| Code/Tag   | Product Name             | Quantity |
|------------|--------------------------|----------|
| ALJ-048-SI | LINCS100E L28 930 MB DIM | 0.0      |
| LA-002-PNL | Storm Gray               | 0.0      |
| CT-002-WIL | CALCUTTA BLANC TS501     | 0.0      |
| LA-005-PNL | Thermally Fused Laminate | 0.0      |

Implementation Guide.

Millwork Hardware: Refer to Specifications within Building Product Manual for hinges, drawer slides, shelf supports and magnetic catch. Pulls, grommets & locks to be selected by Architect; refer to Implementation Guide.

## Notes

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1. Public Space Casework: Interior face of exposed cabinet units shall be Black Thermoset Decorative Overlay (melamine).
2. Top and Bottom Rails; and Sub-toe Boards: Not less than 3/4-inch particleboard faced with Grade VGS plastic laminate to match door and drawer fronts. Machine ends for wood-dowel or mechanical dowel fasteners to receive top, bottom, and back. Base ends to extend to floor. Finish exposed ends to match doors and doors and drawer fronts.
3. Unexposed Ends: Not less than 3/4-inch tempered hardboard; finished with Thermoset Decorative Overlay (Melamine). Attach to front frame in same manner as exposed ends.
4. Back Panels: Not less than 1/4-inch tempered hardboard or MDF; finished with Thermoset Decorative Overlay (Melamine).
5. Doors 48 Inches or Less in Height: 3/4 inch thick, Particle Board cores. Front faces to be Grad

## 2' Undercabinet Strip w/Switch (conne...

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Manufacturer: Signify/Daybrite  
Style/Series: LINCS100E L28 930 MB DIM

## Sales Rep

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### Primary

Ryan Smillie  
Email: ryan.smillie@signify.com

## Attributes

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2' Undercabinet Strip w/Switch (connecting accessories available for connecting fixtures, see spec sheet)

Type: Low Profile Undercabinet

### DIMENSIONS

Width: 4.37"  
Length: 28.16"  
Height: 1.16"

### MATERIAL/FINISH

Finish: Matte Black

### MISCELLANEOUS

Lead Time: In stock to 4 weeks  
Warranty: Five year warranty

### CUSTOM FIELDS

Reflector: None  
Lamp Quantity: NA  
Mount: Surface/Undercabinet  
Lamp Model #: NA  
Finish: Matte Black  
Trim: Black  
Lamp Configuration: NA  
Delivered Lumens (LED) or Mean Lumens (Non-LED): 660  
On Dimming System: No  
Voltage: 120V  
Fixture Input (Max. Watts): NA  
Dimming Type: Standard Incandescent Dimmer  
Lamp Type: LED  
Lens/Shade: Acrylic  
Lamp CRI: 90  
Lamp Kelvin: 3000K

## Notes

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Efficacy: 110  
Lamp Life/Fixture Life: 50,000 hrs



# Day-Brite CFI

by  Signify

## Linear

LINCS LED  
undercabinet

10", 19", or 28" lengths



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Day-Brite / CFI LINCS LED undercabinets enable flexibility to suit the needs of many applications including office, healthcare, educational, and residential. The state of the art LED system provides high resolution lighting with excellent color rendering for high visual acuity on the task plane. The modular design allows field application of control options and continuous connectivity for ease of configuration and installation. LINCS LED is an ideal choice where high performing undercabinet lighting is specified.

### Ordering guide

Example: LINCS100EL28935UNVWHGDM

| Family                                | Length                        | Color                                  | Voltage  | Finish   | Driver                                | Options   |
|---------------------------------------|-------------------------------|--|--|--|---------------------------------------|---|
| LINCS100E                             | L28                           | 930                                    | UNV  | MB   | DIM                                   |   |
| LINCS100E<br>LINCS LED<br>Energy Star | L10 10"<br>L19 19"<br>L28 28" | 930 3000K, 90 CRI<br>935 3500K, 90 CRI | UNV Universal Voltage 120-277V<br>120 120V<br>277 277V | WHG White Glossy<br>MB Matte Black<br>SA Satin<br>SWH Aluminum Antimicrobial White | DIM Trailing edge phase dimming (ELV) | CSJT3 <sup>1,2</sup> SJT cord set hard-wired into back of fixture. UL listed as a portable fixture for use in office workstations (120V only)<br>OSC <sup>3,4</sup> Integral occupancy sensor control for UNV linking<br>OSHL <sup>3,4</sup> Integral occupancy sensor control for UNV, hard wired<br>RSW <sup>4,5</sup> Rocker switch (on/off) for linked input power, controls only this fixture<br>RSL <sup>4,5</sup> Rocker switch for hard linked input power, controls fixtures in the linked circuit<br>RSH <sup>4,5</sup> Rocker switch for hard wired input power, controls only this fixture<br>RSHL <sup>4,5</sup> Rocker switch for hard wired input power, controls fixtures in linked circuit<br>SBF Slow blow fuse |

### Accessories (order separately)

|            |                            |                                      |
|------------|----------------------------|--------------------------------------|
| QTY: _____ | LINCS1001 <sup>6</sup>     | Wiring module                        |
| QTY: _____ | LINCS1001RSW <sup>6</sup>  | Wiring module with rocker switch     |
| QTY: _____ | LINCS1002CO <sup>2,6</sup> | Wiring module with duplex outlet     |
| QTY: _____ | LINCS100PC3W               | 3' Straight power cord, white        |
| QTY: _____ | LINCS100PC6W               | 6' Straight power cord, white        |
| QTY: _____ | LINCS100ICSW               | 6" Straight interconnect cord, white |

Note: Power cords plug into left end of the luminaires.

### Notes

- LINCS fixtures with CSJT3 option can not be modularly connected.
- 120V only.
- OSC is not available with LINCS100EL10.
- See controls table page 3.
- Specify 120V or 277V only.
- Specify voltage and finish for these accessories. Include voltage and finish codes from catalog matrix after "1" or "2", i.e. LINCS1001120WHGRSW.



# LINCS100E LINCS LED undercabinet

10", 19", or 28" lengths

## Features

- Miniature 1" deep profile
- Modular design with accommodating accessories for ease of installation and flexibility in the field.
- Optional wiring module with master on/off switch, duplex convenience outlet, or occupancy sensor
- Extruded aluminum design is durable, lightweight and corrosion resistant
- Available in a white, black, satin aluminum, or antimicrobial white

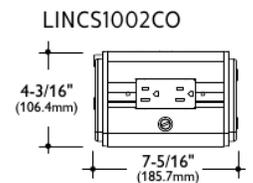
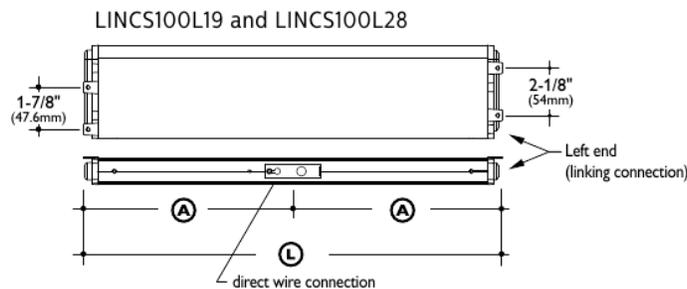
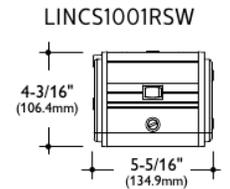
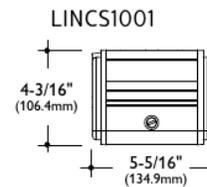
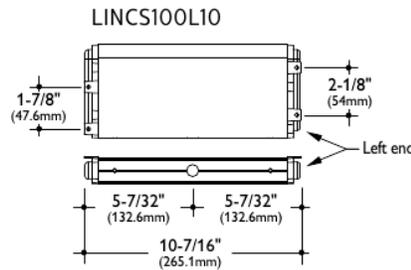
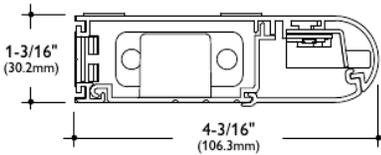
## Specifications

- **Construction:** .060" extruded aluminum housing with injection molded polycarbonate endcaps and covers.
- **Reflector and Lens:** Acrylic textured lens to minimize lamp image on task surface.

- **Finish:** LINCS is available in either a white or black polyester powder-coat paint finish. In addition, LINCS can be selected with an anodized satin aluminum finish. Standard white painted and antimicrobial finishes have matching white end caps. Black endcaps are provided with the black painted or satin aluminum finishes.
- **Lamps:** LINCS is supplied with high efficiency LEDs with a color temperature of 3000K or 3500K and 90 CRI. 70% of initial illumination at 50,000 hours at 25°C ambient. The LED board is field replaceable.
- **Listings:** cETLus Listed for direct-wire or portable installations. Damp rated. Energy Star® certified.
- **Electrical:** Luminaires are supplied with an integral, electronic Class "A" LED driver for 120V to 277V applications. Optional passive infrared occupancy sensor control (OSC) available.

- **Installation:** LINCS include male and female grounded connectors on each end to allow power conductivity with linking connector cord accessories. A UL recognized 3/8" flexible metal conduit/non-metallic sheathed wiring connector is supplied with the luminaire for direct-wiring into knockout in the back of the housing or through adapter plate at the left end. LINCS100-L19 and LINCS100-L28 models have a wiring access panel with a knockout to allow quick wiring of the first luminaire without opening the wireway cover. For portable installations, the LINCS100PC power cord plugs directly into the left end of the luminaire. It is not recommended that LINCS be plugged into a GFCI receptacle.
- **Warranty:** All luminaire components (except for the LED board and driver) are warranted against defects during the life of the original installation. The LED board and driver are warranted for 5 years from date of manufacture. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.

## Dimensional Data



### Installation Notes:

- (1) End-plate supplied to allow direct wiring into left end
- When row mounting, allow 1" at end of a run connection of last fixture
- When using power cord, allow 3" at start of run
- Subtract 7/16" for each end-cover removed in row mount applications.

| DIMENSION   | L                     | A                     |
|-------------|-----------------------|-----------------------|
| LINCS100L19 | 19-1/4"<br>(489.0mm)  | 9-5/8"<br>(244.5mm)   |
| LINCS100L28 | 28-1/16"<br>(712.8mm) | 14-1/32"<br>(356.4mm) |

# LINCS100E LINCS LED undercabinet

10", 19", or 28" lengths

## Controls

| Option Code           | Description  | Voltage      | Wiring Type | Control        |                |                   |
|-----------------------|--|--------------|-------------|----------------|----------------|-------------------|
|                       |  |              |             | Single Fixture | All In Circuit | Linked Thru Power |
| <b>OSC (standard)</b> | Integral Occ Sensor - Linked Input Power, Linked Control | UNV          | Linked      |                | X              | X                 |
| <b>OSHL</b>           | Integral Occ Sensor - Hard Wired Power, Linked Control   | UNV          | Hard Wired  |                | X              | X                 |
| <b>RSW (standard)</b> | Rocker Switch - Linked Input Power                       | 120V or 277V | Linked      | X              |                | X                 |
| <b>RSLL</b>           | Rocker Switch - Linked Input Power, Linked Control       | 120V or 277V | Linked      |                | X              | X                 |
| <b>RSH</b>            | Rocker Switch - Hard Wired Power                         | 120V or 277V | Hard Wired  | X              |                | X                 |
| <b>RSHL</b>           | Rocker Switch - Hard Wired Power, Linked Control         | 120V or 277V | Hard Wired  |                | X              | X                 |

### Wiring Type

#### Control - Single Fixture

#### Control - All in Circuit

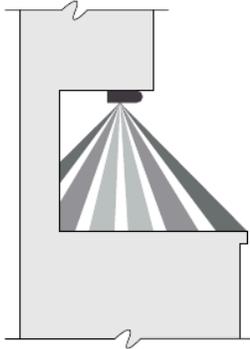
#### Linked Thru Power

Describes whether power is linked to the left side of the fixture, or direct wired to the back of the fixture.

The integrated device controls only this single fixture.

The integrated device controls this fixture and all adjacent fixtures (i.e. the thru power is controlled from this fixture).

Power is linked to adjacent fixtures via the LINCS connectors.



### Integral occupancy sensor control (OSC)

The OSC has a passive infrared occupancy (PIR) that has a field-adjustable time delay that can be set for 30 sec., 10 min., 20 min., or 30 min. Connect building power to the LINCS luminaire with the OSC. All additional luminaires interconnected to that luminaire will be controlled by the single OSC.

### Electrical Data

| Model             | LINCS L10 | LINCS L19 | LINCS L28 |
|-------------------|-----------|-----------|-----------|
| Fix. Watts        | 2.5       | 4.9       | 7.3       |
| Total Fix. Lumens | 175       | 391       | 594       |
| Max. Amps         | .02       | .04       | .06       |

Maximum of 6 total amps when row mounting.

# LINCS100E LINCS LED undercabinet

10", 19", or 28" lengths

## Photometry

### LINCS LED 10" 3000K

LER – 73

|   |                    |            |           |              |   |               |                    |                          |            |            |              |     |  |
|---|--------------------|------------|-----------|--------------|---|---------------|--------------------|--------------------------|------------|------------|--------------|-----|--|
| <b>Catalog No.</b> LINCS100E-L10-930-UNV-WHG-DIM<br><b>Test No.</b> 35770<br><b>S/MH</b> 1.2<br><b>Lamp Type</b> LED<br><b>Lumens</b> 184<br><b>Input Watts</b> 3<br><br>Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.29</b> based on 3000 hrs. and <b>\$.08</b> pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.<br><br>Photometric values based on test performed in compliance with LM-79. | <b>Candlepower</b> |            |           |              | <b>Light Distribution</b>                                   |               |                    | <b>Average Luminance</b> |            |            |              |     |  |
|   | <b>Angle</b>       | <b>End</b> | <b>45</b> | <b>Cross</b> | <b>Degrees</b>  | <b>Lumens</b> | <b>% Luminaire</b> | <b>Angle</b>             | <b>End</b> | <b>45'</b> | <b>Cross</b> |     |  |
|   | 0                  | 79         | 79        | 79           | 0-30  | 59            | 32.1               | 45                       | 7476       | 7933       | 7358         |     |  |
|   | 5                  | 80         | 80        | 79           | 0-40  | 93            | 50.6               | 55                       | 6547       | 6985       | 6276         |     |  |
|   | 15                 | 76         | 77        | 75           | 0-60  | 150           | 81.9               | 65                       | 5886       | 6311       | 5207         |     |  |
|   | 25                 | 69         | 70        | 67           | 0-90  | 183           | 99.9               | 75                       | 5915       | 6192       | 4529         |     |  |
|   | 35                 | 58         | 59        | 56           | 0-180   | 184           | 100.0              | 85                       | 9331       | 9331       | 4803         |     |  |
|   | 45                 | 44         | 47        | 44           | <b>Coefficients of Utilization</b>                          |               |                    |                          |            |            |              |     |  |
|   | 55                 | 31         | 34        | 30           | <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> |               |                    |                          |            |            |              |     |  |
|   | 65                 | 21         | 22        | 18           | pcc   | 80            |                    |                          | 70         |            |              | 50  |  |
| 75  | 13                 | 13         | 10        | pw           | 70  | 50            | 30                 | 70                       | 50         | 30         | 50           | 30  |  |
| 85  | 7                  | 7          | 4         | RCR          |   |               |                    |                          |            |            |              |     |  |
|   |                    |            |           | 0            | 118   | 118           | 118                | 115                      | 115        | 115        | 111          | 111 |  |
|   |                    |            |           | 1            | 109   | 104           | 100                | 106                      | 102        | 97         | 97           | 94  |  |
|   |                    |            |           | 2            | 100   | 92            | 84                 | 96                       | 90         | 83         | 85           | 81  |  |
|   |                    |            |           | 3            | 92  | 81            | 73                 | 89                       | 80         | 72         | 77           | 70  |  |
|   |                    |            |           | 4            | 83  | 72            | 64                 | 81                       | 70         | 64         | 68           | 61  |  |
|   |                    |            |           | 5            | 78  | 65            | 56                 | 76                       | 64         | 56         | 61           | 55  |  |
|   |                    |            |           | 6            | 71  | 58            | 51                 | 69                       | 57         | 50         | 56           | 48  |  |
|   |                    |            |           | 7            | 67  | 54            | 46                 | 65                       | 53         | 45         | 52           | 44  |  |
|   |                    |            |           | 8            | 63  | 50            | 40                 | 60                       | 48         | 40         | 46           | 40  |  |
|   |                    |            |           | 9            | 58  | 46            | 38                 | 56                       | 45         | 36         | 44           | 36  |  |
|   |                    |            |           | 10           | 55  | 41            | 34                 | 54                       | 41         | 34         | 40           | 34  |  |

### LINCS LED 10" 3500K

LER – 79

|   |                    |            |           |              |   |               |                    |                          |            |            |              |     |  |
|---|--------------------|------------|-----------|--------------|---|---------------|--------------------|--------------------------|------------|------------|--------------|-----|--|
| <b>Catalog No.</b> LINCS100E-L10-935-UNV-WHG-DIM<br><b>Test No.</b> 35771<br><b>S/MH</b> 1.2<br><b>Lamp Type</b> LED<br><b>Lumens</b> 196<br><b>Input Watts</b> 3<br><br>Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.04</b> based on 3000 hrs. and <b>\$.08</b> pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.<br><br>Photometric values based on test performed in compliance with LM-79. | <b>Candlepower</b> |            |           |              | <b>Light Distribution</b>                                   |               |                    | <b>Average Luminance</b> |            |            |              |     |  |
|   | <b>Angle</b>       | <b>End</b> | <b>45</b> | <b>Cross</b> | <b>Degrees</b>  | <b>Lumens</b> | <b>% Luminaire</b> | <b>Angle</b>             | <b>End</b> | <b>45'</b> | <b>Cross</b> |     |  |
|   | 0                  | 84         | 84        | 84           | 0-30  | 63            | 31.9               | 45                       | 8017       | 8457       | 7814         |     |  |
|   | 5                  | 85         | 84        | 84           | 0-40  | 99            | 50.3               | 55                       | 7069       | 7507       | 6735         |     |  |
|   | 15                 | 81         | 82        | 80           | 0-60  | 161           | 81.7               | 65                       | 6424       | 6792       | 5773         |     |  |
|   | 25                 | 73         | 74        | 72           | 0-90  | 196           | 99.9               | 75                       | 6423       | 6700       | 4806         |     |  |
|   | 35                 | 61         | 63        | 60           | 0-180   | 196           | 100.0              | 85                       | 10017      | 10017      | 5077         |     |  |
|   | 45                 | 47         | 50        | 46           | <b>Coefficients of Utilization</b>                          |               |                    |                          |            |            |              |     |  |
|   | 55                 | 34         | 36        | 32           | <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> |               |                    |                          |            |            |              |     |  |
|   | 65                 | 23         | 24        | 20           | pcc   | 80            |                    |                          | 70         |            |              | 50  |  |
| 75  | 14                 | 15         | 10        | pw           | 70  | 50            | 30                 | 70                       | 50         | 30         | 50           | 30  |  |
| 85  | 7                  | 7          | 4         | RCR          |   |               |                    |                          |            |            |              |     |  |
|   |                    |            |           | 0            | 118   | 118           | 118                | 115                      | 115        | 115        | 111          | 111 |  |
|   |                    |            |           | 1            | 109   | 104           | 100                | 106                      | 102        | 97         | 97           | 94  |  |
|   |                    |            |           | 2            | 100   | 92            | 84                 | 96                       | 90         | 83         | 85           | 81  |  |
|   |                    |            |           | 3            | 91  | 81            | 72                 | 89                       | 80         | 71         | 77           | 70  |  |
|   |                    |            |           | 4            | 83  | 72            | 64                 | 81                       | 70         | 63         | 68           | 61  |  |
|   |                    |            |           | 5            | 78  | 65            | 56                 | 76                       | 64         | 56         | 61           | 55  |  |
|   |                    |            |           | 6            | 71  | 58            | 50                 | 69                       | 57         | 50         | 56           | 48  |  |
|   |                    |            |           | 7            | 67  | 54            | 45                 | 65                       | 53         | 45         | 52           | 44  |  |
|   |                    |            |           | 8            | 61  | 48            | 40                 | 60                       | 48         | 40         | 46           | 40  |  |
|   |                    |            |           | 9            | 58  | 45            | 38                 | 56                       | 45         | 36         | 44           | 36  |  |
|   |                    |            |           | 10           | 55  | 41            | 34                 | 54                       | 41         | 34         | 40           | 34  |  |

# LINCS100E LINCS LED undercabinet

10", 19", or 28" lengths

## LINCS LED 19" 3000K

## LER – 78

| <b>Catalog No.</b> LINCS100E-L19-930-UNV-WHG-DIM<br><b>Test No.</b> 35772<br><b>S/MH</b> 1.2<br><b>Lamp Type</b> LED<br><b>Lumens</b> 392<br><b>Input Watts</b> 5<br><br>Comparative yearly lighting energy cost per 1000 lumens – <b>\$3.08</b> based on 3000 hrs. and <b>\$.08</b> pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.<br><br>Photometric values based on test performed in compliance with LM-79. | Candlepower |     |     |       | Light Distribution  |        |             | Average Luminance |       |       |       |     |
|---|-------------|-----|-----|-------|---|--------|-------------|-------------------|-------|-------|-------|-----|
|   | Angle       | End | 45  | Cross | Degrees   | Lumens | % Luminaire | Angle             | End   | 45'   | Cross |     |
|   | 0           | 167 | 167 | 167   | 0-30  | 125    | 31.8        | 45                | 8091  | 8460  | 7937  |     |
|   | 5           | 169 | 167 | 166   | 0-40  | 197    | 50.2        | 55                | 7175  | 7619  | 6826  |     |
|   | 15          | 160 | 161 | 159   | 0-60  | 320    | 81.7        | 65                | 6539  | 6955  | 5779  |     |
|   | 25          | 144 | 146 | 142   | 0-90  | 392    | 99.9        | 75                | 6650  | 6885  | 4824  |     |
|   | 35          | 121 | 124 | 120   | 0-180   | 392    | 100.0       | 85                | 10709 | 10222 | 4520  |     |
|   | 45          | 94  | 99  | 93    | <b>Coefficients of Utilization</b>                          |        |             |                   |       |       |       |     |
|   | 55          | 68  | 72  | 65    | <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> |        |             |                   |       |       |       |     |
|   | 65          | 46  | 49  | 40    | pcc   | 80     |             | 70                |       | 50    |       |     |
| 75  | 28          | 29  | 21  | pw    | 70  | 50     | 30          | 70                | 50    | 30    |       |     |
| 85  | 15          | 15  | 7   | RCR   |   |        |             |                   |       |       |       |     |
|   |             |     |     | 0     | 118   | 118    | 118         | 115               | 115   | 115   | 111   | 111 |
|   |             |     |     | 1     | 109   | 104    | 100         | 106               | 102   | 97    | 97    | 94  |
|   |             |     |     | 2     | 100   | 92     | 84          | 96                | 90    | 83    | 85    | 81  |
|   |             |     |     | 3     | 91  | 81     | 72          | 89                | 80    | 71    | 77    | 70  |
|   |             |     |     | 4     | 83  | 72     | 64          | 81                | 70    | 63    | 68    | 61  |
|   |             |     |     | 5     | 78  | 65     | 56          | 76                | 64    | 56    | 61    | 55  |
|   |             |     |     | 6     | 71  | 58     | 50          | 69                | 57    | 50    | 56    | 48  |
|   |             |     |     | 7     | 67  | 54     | 45          | 65                | 53    | 45    | 51    | 44  |
|   |             |     |     | 8     | 61  | 48     | 40          | 60                | 48    | 40    | 46    | 40  |
|   |             |     |     | 9     | 57  | 45     | 36          | 56                | 45    | 36    | 44    | 36  |
|   |             |     |     | 10    | 55  | 41     | 34          | 54                | 41    | 34    | 40    | 34  |

## LINCS LED 19" 3500K

## LER – 87

| <b>Catalog No.</b> LINCS100E-L19-935-UNV-WHG-DIM<br><b>Test No.</b> 35773<br><b>S/MH</b> 1.2<br><b>Lamp Type</b> LED<br><b>Lumens</b> 415<br><b>Input Watts</b> 5<br><br>Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.76</b> based on 3000 hrs. and <b>\$.08</b> pwr KWH.<br><br>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.<br><br>Photometric values based on test performed in compliance with LM-79. | Candlepower |     |     |       | Light Distribution  |        |             | Average Luminance |       |       |       |     |
|---|-------------|-----|-----|-------|---|--------|-------------|-------------------|-------|-------|-------|-----|
|   | Angle       | End | 45  | Cross | Degrees   | Lumens | % Luminaire | Angle             | End   | 45'   | Cross |     |
|   | 0           | 176 | 176 | 176   | 0-30  | 131    | 31.5        | 45                | 8828  | 9051  | 8357  |     |
|   | 5           | 177 | 176 | 174   | 0-40  | 207    | 49.9        | 55                | 7957  | 8231  | 7196  |     |
|   | 15          | 169 | 170 | 167   | 0-60  | 338    | 81.4        | 65                | 7343  | 7586  | 6124  |     |
|   | 25          | 153 | 154 | 150   | 0-90  | 415    | 99.9        | 75                | 7517  | 7564  | 5128  |     |
|   | 35          | 130 | 132 | 126   | 0-180   | 415    | 100.0       | 85                | 12030 | 11335 | 4729  |     |
|   | 45          | 103 | 106 | 98    | <b>Coefficients of Utilization</b>                          |        |             |                   |       |       |       |     |
|   | 55          | 75  | 78  | 68    | <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> |        |             |                   |       |       |       |     |
|   | 65          | 51  | 53  | 43    | pcc   | 80     |             | 70                |       | 50    |       |     |
| 75  | 32          | 32  | 22  | pw    | 70  | 50     | 30          | 70                | 50    | 30    |       |     |
| 85  | 17          | 16  | 7   | RCR   |   |        |             |                   |       |       |       |     |
|   |             |     |     | 0     | 118   | 118    | 118         | 115               | 115   | 115   | 111   | 111 |
|   |             |     |     | 1     | 109   | 104    | 100         | 106               | 102   | 97    | 97    | 94  |
|   |             |     |     | 2     | 100   | 92     | 84          | 96                | 90    | 83    | 85    | 81  |
|   |             |     |     | 3     | 91  | 81     | 72          | 89                | 80    | 71    | 77    | 69  |
|   |             |     |     | 4     | 83  | 71     | 64          | 81                | 70    | 63    | 68    | 61  |
|   |             |     |     | 5     | 78  | 65     | 56          | 75                | 64    | 56    | 61    | 55  |
|   |             |     |     | 6     | 71  | 58     | 50          | 69                | 57    | 50    | 56    | 48  |
|   |             |     |     | 7     | 67  | 54     | 45          | 65                | 53    | 45    | 51    | 44  |
|   |             |     |     | 8     | 61  | 48     | 40          | 60                | 47    | 40    | 46    | 40  |
|   |             |     |     | 9     | 57  | 45     | 36          | 56                | 45    | 36    | 44    | 36  |
|   |             |     |     | 10    | 55  | 41     | 34          | 54                | 40    | 34    | 40    | 34  |

# LINCS100E LINCS LED undercabinet

10", 19", or 28" lengths

## LINCS LED 28" 3000K

LER – 81

| Catalog No.  | L28-930-UNV-WHG-DIM | Candlepower |     |     |       | Light Distribution                                   |        |             | Average Luminance |      |      |       |     |     |
|--|---------------------|-------------|-----|-----|-------|--|--------|-------------|-------------------|------|------|-------|-----|-----|
|  |                     | Angle       | End | 45  | Cross | Degrees  | Lumens | % Luminaire | Angle             | End  | 45'  | Cross |     |     |
| Test No.   | 35774               | 0           | 252 | 252 | 252   | 0-30   | 188    | 31.9        | 45                | 7948 | 8377 | 7908  |     |     |
| S/MH   | 1.2                 | 5           | 253 | 252 | 249   | 0-40   | 297    | 50.4        | 55                | 6988 | 7516 | 6833  |     |     |
| Lamp Type  | LED                 | 15          | 239 | 241 | 238   | 0-60   | 482    | 81.9        | 65                | 6320 | 6798 | 5765  |     |     |
| Lumens   | 588                 | 25          | 214 | 218 | 213   | 0-90   | 588    | 99.9        | 75                | 6323 | 6604 | 4746  |     |     |
| Input Watts  | 7                   | 35          | 180 | 184 | 179   | 0-180  | 588    | 100.0       | 85                | 9596 | 9411 | 4080  |     |     |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.96 based on 3000 hrs. and \$.08 pwr KWH.   |                     | 45          | 139 | 147 | 138   | Coefficients of Utilization                          |        |             |                   |      |      |       |     |     |
| The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                     | 55          | 99  | 107 | 97    | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |             |                   |      |      |       |     |     |
| Photometric values based on test performed in compliance with LM-79.   |                     | 65          | 66  | 71  | 60    | pcc  | 80     |             |                   | 70   |      |       | 50  |     |
|  |                     | 75          | 41  | 42  | 30    | pw   | 70     | 50          | 30                | 70   | 50   | 30    | 50  | 30  |
|  |                     | 85          | 21  | 20  | 9     | RCR  |        |             |                   |      |      |       |     |     |
|  |                     |             |     |     |       | 0  | 118    | 118         | 118               | 115  | 115  | 115   | 111 | 111 |
|  |                     |             |     |     |       | 1  | 109    | 104         | 100               | 106  | 102  | 97    | 97  | 94  |
|  |                     |             |     |     |       | 2  | 100    | 92          | 84                | 96   | 90   | 83    | 85  | 81  |
|  |                     |             |     |     |       | 3  | 91     | 81          | 73                | 89   | 80   | 72    | 77  | 70  |
|  |                     |             |     |     |       | 4  | 83     | 72          | 64                | 81   | 70   | 63    | 68  | 61  |
|  |                     |             |     |     |       | 5  | 78     | 65          | 56                | 76   | 64   | 56    | 61  | 55  |
|  |                     |             |     |     |       | 6  | 71     | 58          | 51                | 69   | 57   | 50    | 56  | 48  |
|  |                     |             |     |     |       | 7  | 67     | 54          | 45                | 65   | 53   | 45    | 52  | 44  |
|  |                     |             |     |     |       | 8  | 63     | 48          | 40                | 60   | 48   | 40    | 46  | 40  |
|  |                     |             |     |     |       | 9  | 58     | 46          | 38                | 56   | 45   | 36    | 44  | 36  |
|  |                     |             |     |     |       | 10   | 55     | 41          | 34                | 54   | 41   | 34    | 40  | 34  |

## LINCS LED 28" 3500K

LER – 88

| Catalog No.  | L28-935-UNV-WHG-DIM | Candlepower |     |     |       | Light Distribution                                   |        |             | Average Luminance |       |       |       |     |     |
|--|---------------------|-------------|-----|-----|-------|--|--------|-------------|-------------------|-------|-------|-------|-----|-----|
|  |                     | Angle       | End | 45  | Cross | Degrees  | Lumens | % Luminaire | Angle             | End   | 45'   | Cross |     |     |
| Test No.   | 35775               | 0           | 269 | 269 | 269   | 0-30   | 200    | 31.9        | 45                | 8588  | 9045  | 8440  |     |     |
| S/MH   | 1.2                 | 5           | 270 | 269 | 266   | 0-40   | 316    | 50.4        | 55                | 7516  | 8172  | 7284  |     |     |
| Lamp Type  | LED                 | 15          | 257 | 258 | 254   | 0-60   | 514    | 81.9        | 65                | 6817  | 7400  | 6157  |     |     |
| Lumens   | 627                 | 25          | 231 | 234 | 228   | 0-90   | 626    | 99.9        | 75                | 6947  | 7290  | 5058  |     |     |
| Input Watts  | 7                   | 35          | 194 | 199 | 191   | 0-180  | 627    | 100.0       | 85                | 11034 | 10663 | 4358  |     |     |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.73 based on 3000 hrs. and \$.08 pwr KWH.   |                     | 45          | 150 | 158 | 148   | Coefficients of Utilization                          |        |             |                   |       |       |       |     |     |
| The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                     | 55          | 107 | 116 | 103   | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |             |                   |       |       |       |     |     |
| Photometric values based on test performed in compliance with LM-79.   |                     | 65          | 71  | 77  | 64    | pcc  | 80     |             |                   | 70    |       |       | 50  |     |
|  |                     | 75          | 45  | 47  | 32    | pw   | 70     | 50          | 30                | 70    | 50    | 30    | 50  | 30  |
|  |                     | 85          | 24  | 23  | 9     | RCR  |        |             |                   |       |       |       |     |     |
|  |                     |             |     |     |       | 0  | 118    | 118         | 118               | 115   | 115   | 115   | 111 | 111 |
|  |                     |             |     |     |       | 1  | 109    | 104         | 100               | 106   | 102   | 97    | 97  | 94  |
|  |                     |             |     |     |       | 2  | 100    | 92          | 84                | 96    | 90    | 83    | 85  | 81  |
|  |                     |             |     |     |       | 3  | 92     | 81          | 73                | 89    | 80    | 72    | 77  | 70  |
|  |                     |             |     |     |       | 4  | 83     | 72          | 64                | 81    | 70    | 63    | 68  | 61  |
|  |                     |             |     |     |       | 5  | 78     | 65          | 56                | 76    | 64    | 56    | 61  | 55  |
|  |                     |             |     |     |       | 6  | 71     | 58          | 51                | 69    | 57    | 50    | 56  | 48  |
|  |                     |             |     |     |       | 7  | 67     | 54          | 45                | 65    | 53    | 45    | 52  | 44  |
|  |                     |             |     |     |       | 8  | 63     | 48          | 40                | 60    | 48    | 40    | 46  | 40  |
|  |                     |             |     |     |       | 9  | 58     | 46          | 38                | 56    | 45    | 36    | 44  | 36  |
|  |                     |             |     |     |       | 10   | 55     | 41          | 34                | 54    | 41    | 34    | 40  | 34  |



## Millwork Laminate

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Manufacturer: Panolam Surface Systems

Style/Series: Storm Gray

## Sales Rep

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### Primary

Alitia Cross

Email: No.Email.398

## Attributes

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Millwork Laminate

Item Type: Plastic Laminate

Description: Type 107 General Purpose (HGS) Laminate

Manufacturer: Panolam / Pionite

Model: HP565

Dimensions: 0.048" Plus Minus 0.005" Thickness, Standard Sheet

Widths 36", 48", 60" x Standard Sheet Lengths 96", 120", 144"

Color: Storm Gray

Finish: Textured/Suede (SD)

Material Composition: Melamine impregnated decorative surface papers combined with fire retardant phenolic treated kraft paper

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45  
Unbonded. Flame Spread 40, Smoke Density 100 Bonded.

Best Practices: 17% Post-consumer content, Green Guard Certified  
Quality Standards: Architectural Woodwork Standards (AWS); ANSI  
A161.2 "Standards for Fabricated High Pressure Decorative  
Laminate Countertops." NEMA LD3 "High Pressure Decorative  
Laminates"

Accessories: Manufacturer's recommended adhesive

Warranty: 1 Year

Notes: Recommended substrates for laminates are particleboard, medium density fiberboard (MDF) or plywood with one A-face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates.

SPECIAL INSTRUCTIONS: All substrates should be sanded smooth, and should be clean and free of oil or grease and uniform in thickness



## Back of House Countertop

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Manufacturer: Wilsonart Laminate & Countertops  
Style/Series: CALCUTTA BLANC TS501

## Sales Rep

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### Primary

Amy Morgenweck  
Email: morgena@wilsonart.com

## Attributes

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Back of House Countertop

Item Type: Laminate  
Description: Back of House Countertop  
Manufacturer: Wilsonart  
Model: THINSCAPE performance top  
Dimensions: Refer to drawings for size and thickness  
Color: CALCUTTA BLANC TS501  
Accessories: Adhesive per Manufacturer's Recommendation

### NOTES

Special Instructions: SPECIAL INSTRUCTIONS Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) an at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.

## Notes

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### SPECIAL INSTRUCTIONS

Label of the manufacturers name shall be permanently stamped on the underside of all countertops (engineered quartz, granite, milk glass, etc.) at least approximately every foot or so in run (or one direction) an at least every 2'-0" apart in the opposite direction. The intent is to guarantee that the label will appear on every top no matter how large or small in an accessible/readable location. As long as that is accomplished the guideline for measurements above is flexible. Label to include percentage of quartz on engineered quartz tops.



## 1. **Manufacturer**

Wilsonart LLC  
2501 Wilsonart Drive  
P.O. Box 6110  
Temple, Texas 76503-6110  
Phone: (254) 207-7000; (800) 433-3222  
Fax: (254) 207-2384  
Website: [www.wilsonart.com](http://www.wilsonart.com)

## 2. **Product Description**

Wilsonart® THINSCAPE® Performance Tops are ultra-thin, self-supporting countertops that are highly durable and versatile. Featuring a European-inspired “thin” profile, THINSCAPE slabs are available in stone, woodgrain and metal designs, and are produced with coordinating design, texture and color-core combinations.

### **Recommended Uses**

Wilsonart® THINSCAPE® Performance Tops are ideal for single-family & multi-family builds, commercial, hospitality, retail and office furniture applications such as kitchen countertops, bath vanities, laundry room worktops, table tops and other horizontal applications.

### **Product Composition**

Wilsonart® THINSCAPE® Performance Tops are a composite material, made up of papers and resins to achieve an overall thickness of ½”. This construction allows the slabs to be cut, routed, sanded and fabricated with dry tooling, which includes standard carbide-tipped blades/bits and woodworking tools. Small horizontal fissures sometimes observed running along the horizontal plain of the core are inherent of the modified resin composed core material and are acceptable. Climate controlled environments for inventory of panels, fabrication processes and final installation locations are important recommended practices to minimizing these fissures.

### **Basic Limitations**

Wilsonart® THINSCAPE® Performance Tops are designed for interior applications only and not recommended for exterior applications. However, as no one material is suitable for all possible conditions, THINSCAPE slab properties should be checked for suitability under the specific conditions of each application.

### **Patterns & Colors**

See all patterns and colors as listed below.

| Design | Name              | Core Color | Finish |
|--------|-------------------|------------|--------|
| TS101  | Distressed Pine   | Khaki      | WB     |
| TS102  | Quartzite Falls   | Khaki      | LR     |
| TS306  | Spanish Limestone | Grey       | SB     |
| TS307  | Soapstone Mist    | Grey       | LR     |
| TS308  | Sterling Calcutta | Grey       | LR     |
| TS309  | Quartz Rapids     | Grey       | SB     |
| TS311  | Taj Mahal         | Grey       | SB     |
| TS401  | Rugged Steel      | Black      | NL     |
| TS404  | Black Amani       | Black      | LR     |
| TS501  | Calcutta Blanc    | White      | LR     |
| TS503  | Italian Carrara   | White      | LR     |
| TS504  | Volakas Marble    | White      | LR     |

**Finishes**

|    |              |  |
|----|--------------|--|
| SB | Sandblasted  | The sandblasting method creates a smooth, lightly textured, ultra-matte surface. |
| WB | Wire Brushed | Wire Brushed creates a linear texture with both matte and gloss sheen.           |
| NL | Natural      | The Natural finish has minimal texture and a low sheen.                          |
| LR | Luster       | Luster has a semi-gloss sheen and a smooth surface.                              |

| Finish Availability | Imperial Measure (Inches) | Size Availability                | Metric Measure (Mm) | Lbs. /Sq.Ft |
|---------------------|---------------------------|----------------------------------|---------------------|-------------|
| WB, SB, NL, LR      | 1/2" (0.500)              | 30"x10', 30"x12', 5'x10', 5'x12' | 12.7mm              | 3.77        |

**Physical Properties**

| Test Method   | Units                                       | Scale           | THINSCAPE®                   |
|---|---|-----------------|------------------------------|
| Scratch resistance (EN438)                                | N   | 1 to 5 (5 best) | 3                            |
| Boiling Water Immersion (EN438)                           | Grade (4 min)                               | 1 to 5 (5 best) | 4                            |
| Resistance to Water Vapor (EN438)                         | Grade (4 min)                               | 1 to 5 (5 best) | 4                            |
| Resistance to Cigarette Burn (EN438)                      | Grade                                       | 1 to 5 (5 best) | Not Tested                   |
| Resistance to Crazeing (EN438)                            | Grade (Surface 4 min)<br>Grade (Core 3 min) | 1 to 5 (5 best) | Surface 5<br>Core 4          |
| Modulus of Elasticity (EN ISO 178/ASTM-08)                | Mpa   | >11000          | ≥12,000                      |
| Flexural Strength (MD)<br>(EN ISO 178/ASTM 790-07)        | Mpa   | > 114.0         | ≥180                         |
| Flexural Strength (CD)<br>(EN ISO 178 ASTM 790-08)        | Mpa   | > 82.7          | ≥130                         |
| Tensile Strength (MD)<br>(EN ISO 527-2 ASTM 638-08)       | Mpa   | > 114.0         | ≥140                         |
| Tensile Strength (CD)<br>(EN 438-225)                     | Mpa   | > 82.7          | ≥100                         |
| Density<br>(EN ISO 1183/ASTM 792-08)                      | g/cm <sup>2</sup>                           | ≥ 1.40          | ≥ 1.45                       |
| Lightfastness<br>(ISO 4586)                               | Rating (min 4)                              | 1 to 5 (5 best) | ≥4                           |
| Resistance to Surface Wear<br>(ISO 4586)                  | Revolutions                                 | Min Value 400   | ≥ 400                        |
| Resistance to Impact by Large Diameter Ball<br>(ISO 4586) | Thickness Inches<br>(mm)                    | Visual          | (0.500")<br>>78" (>1,980 mm) |
| Resistance to Staining<br>(ISO 4586)                      | Rating (max 20)                             | Varies          | ≤20                          |
| Stains 1-10 (ISO 4586)                                    | Rating (min 5)                              | 1 to 5 (5 best) | 5                            |
| Stains 11-15<br>(ISO 4586)                                | Rating (min 3)                              | 1 to 5 (5 best) | ≥ 3                          |
| Resistance to Radiant Heat<br>(ISO 486)                   | Seconds                                     | Visual          | Not Tested                   |
| Resistance to Wet Heat<br>(ISO 4586)                      | Rating (min 5)                              | 1 to 5 (5 best) | 5                            |
| Resistance to Dry Heat (ISO 4586)                         | Rating (min 4)                              | 1 to 5 (5 best) | ≥ 4                          |
| Dimensional Change MD (ISO 4586)                          | % MD Max                                    | % Change        | (0.500")<br>≤ 0.3            |

|                                     |                               |           |                   |
|-------------------------------------|-------------------------------|-----------|-------------------|
| Dimensional Change CD<br>(ISO 4586) | % CD Max                      | % Change  | (0.500")<br>≤ 0.7 |
| Fire Properties<br>ASTM E-84        |                               |           | Class B           |
| Flatness<br>ISO 4586 -2 (10)        | On products >1/2"<br>(12.7mm) | 5.0mm / m | 5.0mm / m         |

### 3. **Handling, Storage, and Conditioning**

When handling Wilsonart® THINSCAPE® Performance Tops, it is recommended to lift the panels individually to avoid scratching. It is recommended to prevent the decorative surfaces from sliding against one another. It is acceptable to use a gripping system, such as a suction pad.

Use flat and rigid pallets that are at least the same sizes as the panels to avoid sliding and unstable positioning. The maximum spacing between supporting boards is 24" (609.6mm). Store the panels in closed premises, safe from humidity and heat (50 to 86°F (10 to 30 °C) and 40 to 60% RH). In the case of horizontal storage on pallets, put a protective paper of an adequate size between the pallet and the panels and on the top panel. It is advisable to keep the panels wrapped inside their original packaging (plastic lining). Flat storage of the panels prevents deformations from occurring.

Prior to installation, it is recommended to store Wilsonart® THINSCAPE® Performance Tops for approximately 48 hours in the premises with the following environmental conditions.

- Temperature from 64 to 77°F (18 to 25°C)
- Relative humidity from 40 to 60%

When installing Wilsonart® THINSCAPE® Performance Tops, remove the protection films, (if present) from both sides simultaneously. For optimal results, we recommend that identical ventilation is assured on both sides.

Do not install Wilsonart® THINSCAPE® over a solid substrate.

NOTE: Before any fabrication and installation, always make sure that the two sides of the THINSCAPE slab are clean and that no abrasive particles are present.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per ISO 4586-2 Method 31 (B)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray\*
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner \*
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant\*
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose® II 256
17. Diversey™ Oxivir 1
18. Diversey™ Oxivir Tb Wipes
19. Diversey™ Stride® Floral Neutral Cleaner
20. Diversey™ Virex® II 256

21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed materials were placed in contact with Wilsonart® THINSCAPE® surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Branded Cleaner and Sanitizer Resistance for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-2014 (Section 6 / Modified)

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental, Inc. (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox® Healthcare® Bleach Germicidal Cleaner
12. Clorox® Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox® Healthcare® Fuzion® Cleaner Disinfectant
14. Clorox® Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose II 256
17. Diversey™ Oxivir 1
18. Diversey™ Stride® Floral Neutral Cleaner
19. Diversey™ Tb Wipes
20. Diversey™ Virex II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed reagent materials were placed in contact with Wilsonart® THINSCAPE® surface with a one-inch square 100% cotton cloth completely saturated and covered with a 2" (50.8mm) diameter watch cover glass for 15 minute duration. The reagents listed above were removed with clean cloth and the area was then cleaned with clean cloth and distilled water only. The surface area was allowed to dry for 1-hour prior to evaluation for effect.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Resistance of Furniture to UV Lights for Wilsonart® THINSCAPE® per BIFMA HCF 8.1-201X Section 9 (Alternate Method per ASTM G155 using ISO 4586-2.33 conditions).

Wilsonart® THINSCAPE® conforms to BIFMA – Healthcare Furniture Design Guidelines for Cleanability, Section 9 Resistance to Furniture to UV Lights. Wilsonart THINSCAPE meets or exceeds the acceptance level for surface evaluation.

4. [Warranty](#)

5. [Care and Maintenance](#)

6. **Technical Services**

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.

**Specification Form**

Surface shall be Wilsonart® THINSCAPE® Performance Tops, produced by Wilsonart LLC, Temple, Texas 76503-6110

Type: Specify THNSCAPE \_\_\_\_\_

Surface

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Finish

Number: \_\_\_\_\_

Name: \_\_\_\_\_

Edge Trim

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Adhesive

Name: \_\_\_\_\_

Grade/Type: \_\_\_\_\_

Brand: Wilsonart® Adhesives

Wilsonart® THINSCAPE® Performance Tops Technical Data

June 24, 2020

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## Thermally Fused Melamine

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Manufacturer: Refer to Design Guide Project Manual Master for Specifications

Style/Series: Thermally Fused Laminate

### Attributes

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Thermally Fused Melamine

Type: Thermally Fused Laminate (TFL)

#### MATERIAL/FINISH

Material Composition: Laminate Composition: Melamine saturated decorative layers thermally fused to both core face surfaces with heat and pressure. Stain resistant surface with wear and scratch resistance.

Color: 1595 Black

Finish: Matte

#### PERFORMANCE

Accessories: Manufacturer's recommended adhesive

Best Practices: 17% Post-consumer content, Greenguard Certified

Fire/Smoke Rating: ASTM E-84 Flame Spread 50, Smoke Density 45

Unbonded. Flame Spread 40, Smoke Density 100 Bonded

Quality Standards: Architectural Woodwork Standards (AWS); ANSI

3. A161.2 Standards for Fabricated High Pressure Decorative

Laminate Countertops, NEMA LD3 High Pressure Decorative

Laminates

#### MISCELLANEOUS

Warranty: 1 Year

#### CUSTOM FIELDS

Product/Color: Thermally Fused Laminate/Black Matte

Eco-Feature(s) \*as per manufacturer: NA

## Notes

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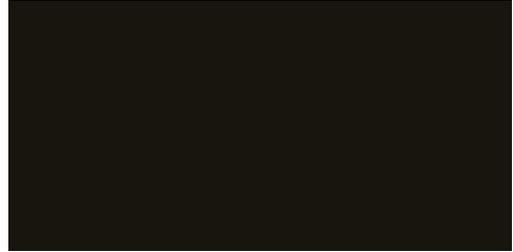
Panel Core Material: Composite panel product composed primarily of cellulosic materials and a bonding system, resulting in a durable and dimensionally stable substrate suitable for decorative laminate overlays. Panel core material can be particleboard or medium density fiberboard.

4" Height Continuous Base

Refer to Design Guide Project Master Manual, Sections 12 32 13 for Wood Veneer Casework and 12 32 16 for Plastic Laminate Casework

### Special Instructions

All substrates should be sanded smooth, and should be clean and free of oil or grease, and uniform in thickness.



MR - Mirrors

## MIRRORS

### Polished Glass Mirror, frame less

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Manufacturer: Acceptable Glazing Manufacturer  
Style/Series: Mirror

### Attributes

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Polished Glass Mirror, frame less

Type: Frameless Mirror

### DIMENSIONS

Thickness: 1/4"

Dimension Explanation: Refer to Design Guideline Drawings for mirror size.

### MATERIAL/FINISH

Finish: Clear

### PERFORMANCE

Accessibility Compliance : At a minimum, comply with accessibility regulations and standards of the country where the project is located. If governing accessibility regulations and standards do not exist, comply with the criteria as outlined by the U.S. ADA Standards for persons with disabilities.

### MISCELLANEOUS

Lead Time: Verify with manufacturer at time of purchase.

Warranty: To Be Verified with Manufacturer

### CUSTOM FIELDS

### Notes

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Special Instructions

Edge: Ground Smooth with satin chrome continuous bottom and top channel.



MT - Miscellaneous Metal

## MISCELLANEOUS METAL

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Manufacturer: GC TO SOURCE  
Style/Series: Matte Black Metal

### Attributes

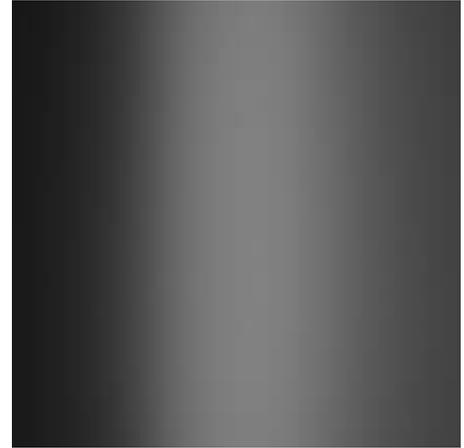
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#### MATERIAL / FINISH

Color: Black

#### MISCELLANEOUS

Lead Time: To be Verified with Manufacturer  
Warranty: To be Verified with Manufacturer



PL - Assembly, Plumbing

**ASSEMBLY, PLUMBING**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Public Space Vanity Assembly

**PLUMBING**

## 4 NESTED ITEMS

| Code/Tag  | Product Name   | Quantity |
|-----------|--|----------|
| PL-103-PF | 20 x 19 in. Rectangular Wall Mount Bathroom Sink in White        | 0.0      |
| PL-202-PF | Sensor Bathroom Sink Faucet in Chrome                            | 0.0      |
| PL-802-PF | 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout | 0.0      |
| PL-808-PF | Mixing Valve with 3/8" Fittings                                  | 0.0      |

## 20 x 19 in. Rectangular Wall Mount Ba...

Manufacturer: Ferguson  
Style/Series: 20 x 19 in. Rectangular Wall Mount Bathroom Sink in White R1

## Sales Rep

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

20 x 19 in. Rectangular Wall Mount Bathroom Sink

### DIMENSIONS

Length: 14-3/4"  
Width: 10-19/50"  
Depth: 4-3/4"

### MATERIAL / FINISH

Color: White  
Material Composition: Grade A Vitreous China

### PERFORMANCE

Best Practices: cUPC Certified  
Quality Standards: CUPC Approved; ADA Compliant ASME A112.19.2  
2018 CSA B45.1 2018 ANSI A117.1

### MISCELLANEOUS

Warranty: Limited Lifetime Warranty

### CUSTOM FIELDS

Installation: Wall Mounted  
Drain : Located at Rear Center with Overflow



## Lubec Sensor Bathroom Sink Faucet

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Manufacturer: Ferguson

Style/Series: Sensor Bathroom Sink Faucet in Chrome R1

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

---

Lubec Sensor Bathroom Sink Faucet

Model: PFXE200CP

### DIMENSIONS

Dimensions: Refer to Cutsheet

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Solid One-Piece Brass Body

### PERFORMANCE

Accessories: Manufacturer's Recommended Filter

Best Practices: Lead Law Compliant ADA Compliant

### CUSTOM FIELDS

Installation: Deck Mounted

Flow Rate: 0.5 gpm

Features: Touch-free Low Battery Indicator 9V Battery Powered



## Notes

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<https://tinyurl.com/49nfm33m>

**PROFLO®100 Series 1-1/4 x 1-1/2 in. Z...**

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Manufacturer: PROFLO

Style/Series: 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout R1

**Sales Rep**

---

**Primary**

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

**Attributes**

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PROFLO®

100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome

Item Type: P-Trap

Model: #PFPTB106

**MATERIAL/FINISH**

Finish: Polished Chrome

Material Composition: Zinc

Quality Standards: ASME A112.18.2-2015

Warranty: See website



---

Manufacturer: PROFLO

Style/Series: Mixing Valve with 3/8" Fittings R1

---

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

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### Attributes

Model: PFMVMS387

#### DIMENSIONS

Length: 2-7/8"

Fitting Size: 3/8"

Depth: 7/8"

#### MATERIAL / FINISH

Material Composition: low-lead brass

#### PERFORMANCE

Quality Standards: AB1953/NSF 61-9 compliant Certified to ASME

A112.18.1/CSA B125.1 NSF/ANSI/CAN61: Q≤1

#### MISCELLANEOUS

Warranty: 5 year limited commercial warranty



**ASSEMBLY, PLUMBING**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Optional Vanity Assembly

**PLUMBING**

## 4 NESTED ITEMS

| Code/Tag  | Product Name   | Quantity |
|-----------|--|----------|
| PL-104-FE | Nameeks Scarabeo 5116-Two Hole Scarabeo Teorema                  | 0.0      |
| PL-202-PF | Sensor Bathroom Sink Faucet in Chrome                            | 0.0      |
| PL-802-PF | 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout | 0.0      |
| PL-808-PF | Mixing Valve with 3/8" Fittings                                  | 0.0      |

## WALL MOUNTED LAVATORY - DUAL OPTION

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Manufacturer: Scarabeo

Style/Series: Nameeks Scarabeo 5116-Two Hole Scarabeo Teorema

### Attributes

---

WALL MOUNTED LAVATORY - DUAL OPTION

Item Type: Wall Mounted Bathroom Sink

Model: Scarabeo 5116-Two Hole

Dimensions: See website

#### MATERIAL/FINISH

Material: Ceramic

Color: White

#### PERFORMANCE

Quality Standards: IAPMO Certified US Standards Approved

Uniform Plumbing Code (UPC/cUPC) ASME A112.19.2-2018/CSA

B45.1-18

#### MISCELLANEOUS

Warranty: See website

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/2p84uwsr>



## Lubec Sensor Bathroom Sink Faucet

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Manufacturer: Ferguson

Style/Series: Sensor Bathroom Sink Faucet in Chrome R1

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

---

Lubec Sensor Bathroom Sink Faucet

Model: PFXE200CP

### DIMENSIONS

Dimensions: Refer to Cutsheet

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Solid One-Piece Brass Body

### PERFORMANCE

Accessories: Manufacturer's Recommended Filter

Best Practices: Lead Law Compliant ADA Compliant

### CUSTOM FIELDS

Installation: Deck Mounted

Flow Rate: 0.5 gpm

Features: Touch-free Low Battery Indicator 9V Battery Powered



## Notes

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<https://tinyurl.com/49nfm33m>

## PROFLO®100 Series 1-1/4 x 1-1/2 in. Z...

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Manufacturer: PROFLO

Style/Series: 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout R1

### Sales Rep

---

#### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

### Attributes

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PROFLO®

100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome

Item Type: P-Trap

Model: #PFPTB106

#### MATERIAL/FINISH

Finish: Polished Chrome

Material Composition: Zinc

Quality Standards: ASME A112.18.2-2015

Warranty: See website



---

Manufacturer: PROFLO

Style/Series: Mixing Valve with 3/8" Fittings R1

---

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

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### Attributes

Model: PFMVMS387

#### DIMENSIONS

Length: 2-7/8"

Fitting Size: 3/8"

Depth: 7/8"

#### MATERIAL / FINISH

Material Composition: low-lead brass

#### PERFORMANCE

Quality Standards: AB1953/NSF 61-9 compliant Certified to ASME

A112.18.1/CSA B125.1 NSF/ANSI/CAN61: Q≤1

#### MISCELLANEOUS

Warranty: 5 year limited commercial warranty



**ASSEMBLY, PLUMBING**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Breakroom Assembly

**PLUMBING**

## 4 NESTED ITEMS

| Code/Tag  | Product Name   | Quantity |
|-----------|--|----------|
| PL-102-PF | Plomosa 23" Undermount Single Basin Stainless Steel Kitchen Sink | 0.0      |
| PL-203-PF | Single Handle Kitchen Faucet in Chrome                           | 0.0      |
| PL-802-PF | 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout | 0.0      |
| PL-807-FE | Basket Only For Pf1431Ss Stainless Steel                         | 0.0      |

## Plomosa 23

---

Manufacturer: PROFLO  
Style/Series: Plomosa 23" Undermount Single Basin Stainless Steel Kitchen Sink R1

## Sales Rep

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### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Plomosa 23" Undermount Single Basin Stainless Steel Kitchen Sink

Model: PFUC311TA

### DIMENSIONS

Width: Overall: 23" Bowl: 21"

Length: Overall: 18" Bowl: 16"

Depth: 9"

Drain Diameter: 3-1/2"

### MATERIAL / FINISH

Finish: stainless steel

Material Composition: 18 gauge stainless steel

### PERFORMANCE

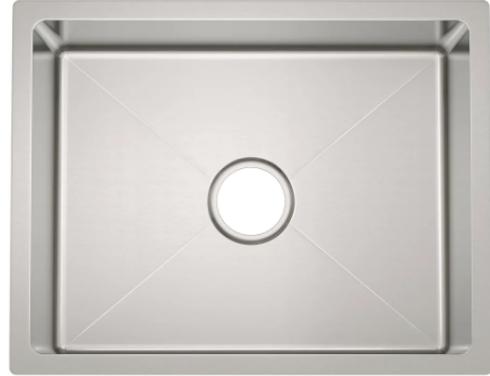
Accessories: Sink clips included

Quality Standards: ASME A112.19.3-2008 / CSA B45.4-08

### MISCELLANEOUS

#### CUSTOM FIELDS

Content: Under spray coating and pads for sound deadening and insulation



## Single Handle Kitchen Faucet

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Manufacturer: Ferguson

Style/Series: Single Handle Kitchen Faucet in Chrome R1

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

---

Single Handle Kitchen Faucet

### DIMENSIONS

Length: Spout Reach: 8-15/16 in

Height: Faucet Height: 10-3/4 in

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Metal construction

### PERFORMANCE

Best Practices: ADA Compliant; cUPC Approved Lead Law compliant

Quality Standards: ASME A112.18.1 ANSI 372 CSA B125.1

### MISCELLANEOUS

Warranty: 5 Year Limited Warranty

### CUSTOM FIELDS

Installation: Deck Mounted

Flow Rate: 1.5 gpm

Features: Lever Handle Operation



## PROFLO®100 Series 1-1/4 x 1-1/2 in. Z...

---

Manufacturer: PROFLO

Style/Series: 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout R1

### Sales Rep

---

#### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

### Attributes

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PROFLO®

100 Series 1-1/4 x 1-1/2 in. Zinc P-Trap with Semi-cast Design and Cleanout in Polished Chrome

Item Type: P-Trap

Model: #PFPTB106

#### MATERIAL/FINISH

Finish: Polished Chrome

Material Composition: Zinc

Quality Standards: ASME A112.18.2-2015

Warranty: See website



## Basket Strainers Stainless Steel

---

Manufacturer: Ferguson

Style/Series: Basket Only For Pf1431Ss Stainless Steel R1

## Sales Rep

---

### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

---

Basket Strainers Stainless Steel

Model: PF1431SS

### DIMENSIONS

#### MATERIAL / FINISH

Finish: Stainless Steel; SS 430

Material Composition: Stainless Steel

#### MISCELLANEOUS

Lead Time: TBD

Warranty: 1-year limited warranty

Notes / Special Instructions: Replacement 3mm Rubber Locknut

Washer available (PFBSG)



**ASSEMBLY, PLUMBING**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Mop Sink Assembly

**PLUMBING**

## 6 NESTED ITEMS

| Code/Tag  | Product Name  | Quantity |
|-----------|---|----------|
| PL-105-PF | 24 x 24 in. Mop Basin in White with PVC Strainer  | 0.0      |
| PL-205-PF | Non-Potable 9.3 gpm 8 in. Centerset Two Handle Wall Mount Service Sink in Polished Chrome | 0.0      |
| PL-803-PF | PF101PNC  | 0.0      |
| PL-809-PF | Single Hose Bracket For Service Sink Black  | 0.0      |
| PL-810-PF | Eterna 5/8 x 30 in. Hose in Chrome  | 0.0      |
| PL-811-PF | 24 In. Stainless Steel Wall Guard Set   | 0.0      |

**PROFLO®PFMB Series 24 x 24 in. Mop Ba...**

---

Manufacturer: PROFLO

Style/Series: 24 x 24 in. Mop Basin in White with PVC Strainer

**Sales Rep**

---

**Primary**

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

**Attributes**

---

PROFLO®

PFMB Series 24 x 24 in. Mop Basin in White with PVC Strainer

Model: PFMB2424

Dimensions: Refer to Cutsheet

Warranty: 1 Year Limited Warranty



## Non-Potable 9.3 gpm 8 in. Centerset T...

Manufacturer: PROFLO  
Style/Series: Non-Potable 9.3 gpm 8 in. Centerset Two Handle Wall Mount Service Sink in Polished Chrome R1

## Sales Rep

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

Non-Potable 9.3 gpm 8 in. Centerset Two Handle Wall Mount Service Sink in Polished Chrome

Model: Part #PF1119 Item #5133442 Manufacturer Part #F1119

### DIMENSIONS

Length: 9-1/2 in  
Width: 9-1/2 in  
Height: 4-3/8 in  
Faucet Center Size: 8 in  
Spout Reach: 8-5/8 in  
Hose Thread Length: 3/4 in  
Faucet Connection Size: 1/2 in

### MATERIAL / FINISH

Finish: Chrome  
Material Composition: Metal (brass)

### PERFORMANCE

Best Practices: cUPC/IAPMO listed CSA B125.1-18  
Quality Standards: ASME A112.18.1

### MISCELLANEOUS

Warranty: five years in commercial applications

### CUSTOM FIELDS

Maximum Pressure: 80 psi  
Faucet Connection Type: NPT  
Flow Rate: 9.3 gpm  
Handle Type: Lever



## Shower Drain

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Manufacturer: Ferguson  
Style/Series: PF101PNC

## Sales Rep

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### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

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Shower Drain

Model: PF101PNC

### DIMENSIONS

Diameter: 4.26"

Height: 2"

### MATERIAL / FINISH

Finish: Stainless Steel

Material Composition: Stainless Steel

### MISCELLANEOUS

Lead Time: TBD

Warranty: 1-year limited warranty



## Single Hose Bracket For Service Sink ...

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Manufacturer: Ferguson

Style/Series: Single Hose Bracket For Service Sink Black R1

## Sales Rep

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### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

---

Single Hose Bracket For Service Sink Black

Model: Part #PF296 Item #457294 Manufacturer Part #296

### DIMENSIONS

Diameter: 29/32 in

### MATERIAL / FINISH

Color: Black

### PERFORMANCE

Best Practices: Not WaterSense meet or exceed ANSI Z124.2

### MISCELLANEOUS

Lead Time: TBD

Warranty: 1-year limited warranty



## Eterna 5/8 x 30 in. Hose in Chrome

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Manufacturer: PROFLO

Style/Series: Eterna 5/8 x 30 in. Hose in Chrome R1

## Sales Rep

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### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

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Eterna 5/8 x 30 in. Hose in Chrome

Model: Part #PFSSHE Item #1279478 Manufacturer Part #149853

### DIMENSIONS

Length: 30 in

Diameter/ Fitting Size: 5/8 in

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Rubber

### PERFORMANCE

Best Practices: ANSI Z124.2

### MISCELLANEOUS

Warranty: 1-year limited warranty



## 24 In. Stainless Steel Wall Guard Set

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Manufacturer: PROFLO

Style/Series: 24 In. Stainless Steel Wall Guard Set R1

## Sales Rep

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### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

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24 In. Stainless Steel Wall Guard Set

Model: Part #PFWG24S Item #4203183 Manufacturer Part #MSG2424

### DIMENSIONS

Length: 24 in

Width: 24 in

Height: 12 in

### MATERIAL / FINISH

Finish: Stainless Steel

Material Composition: Stainless Steel

### PERFORMANCE

Accessories: Brand Model Compatibility: PFMB Series Mop Basins

Quality Standards: ANSI Z124.2

### MISCELLANEOUS

Warranty: 1-year limited warranty



**ASSEMBLY, PLUMBING**

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Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Public Space Toilet Plumbing Assembly

**PLUMBING**

## 3 NESTED ITEMS

| Code/Tag  | Product Name   | Quantity |
|-----------|--|----------|
| PL-303-PF | Toilet Bowl  | 0.0      |
| PL-304-PF | Elongated Open Front<br>Commercial Toilet Seat with<br>Cover   | 0.0      |
| PL-305-SL | REGAL 111 Regal® Exposed<br>Manual Water Closet<br>Flushometer | 0.0      |

## PROFLO GPF Toilet Bowl Only - Hand Lever

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Manufacturer: PROFLO  
Style/Series: Toilet Bowl

### Sales Rep

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#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

### Attributes

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PROFLO GPF Toilet Bowl Only - Hand Lever

Item Type: Toilet Bowl  
Model: PF1723WH

#### DIMENSIONS

Dimensions: Refer to Attachment - ADA height

#### MATERIAL/FINISH

Material: Vitreous china  
Color: White

#### PERFORMANCE

Quality Standards: ASME A112.19.2  
Accessibility Compliance : ADA

#### MISCELLANEOUS

Warranty: 1-year limited warranty

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/muun4btp>



## Elongated Open Front Commercial Toile...

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Manufacturer: ProFLO

Style/Series: Elongated Open Front Commercial Toilet Seat with Cover

## Sales Rep

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### Primary

Dean Armstrong

Email: dean.armstrong@ferguson.com

Mobile Phone: 949-289-3058

## Attributes

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Elongated Open Front Commercial Toilet Seat with Cover in White

Item Type: Elongated commercial toilet seat white

Model: PFTSCOFC2000WH

### MATERIAL/FINISH

Material: Plastic

Color: White

### PERFORMANCE

Quality Standards: Conforms to ANSI Z124.5

### MISCELLANEOUS

Warranty: See website

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/4r7a3s99>



## Regal® XL 111 1.28 gpf Diaphragm Man...

Manufacturer: Sloan  
Style/Series: REGAL 111 Regal® Exposed Manual Water Closet  
Flushometer

### Sales Rep

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

#### Secondary

Customer Service  
Email: customer.service@sloanvalve.com

### Attributes

Regal® XL 111 1.28 gpf Diaphragm Manual Closet Flush Valve

Item Type: Exposed Flush Valve  
Model: Manufacturer Part #3080050

#### MATERIAL/FINISH

Material: Brass  
Finish: Polished Chrome

#### PERFORMANCE

Quality Standards: ASME 112.19.2  
Accessibility Compliance : ADA

#### MISCELLANEOUS

Warranty: See website

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/bdz8rxc3>



**ASSEMBLY, PLUMBING**

---

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Corridor Hydration Station



## 1 NESTED ITEMS

| Code/Tag  | Product Name  | Quantity |
|-----------|---|----------|
| PL-813-HW | 2000S - Semi-Recessed Wall-Mount ADA Touchless Bottle Filling Station | 0.0      |

## Touch-free electric sensor water disp...

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Manufacturer: Haws  
Style/Series: 2000S - Semi-Recessed Wall-Mount ADA Touchless  
Bottle Filling Station R1

## Sales Rep

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### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

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Touch-free electric sensor water dispenser  
With carbon block filter with lifecycle control

Type: Electric sensor water dispenser

### DIMENSIONS

Height: Rough-In: 25-7/8" (657mm) Overall: 30-1/4" (768mm)

Width: Rough-In: 14-1/4" (362mm) Overall: 15" (381mm)

Depth: Outside of wall/enclosure: 3-5/16"

### MATERIAL/FINISH

Material Composition: Stainless Steel & ABS plastic

### PERFORMANCE

Quality Standards: Meets NSF/ANSI Standard 61, Section 9, NSF/  
ANSI Standards 42 & 53, NSF/ANSI 372 and CSA Standard B483.1.



## PTC - Ceiling Paints

## CEILING PAINTS

### INTERIOR CEILING PAINT

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Manufacturer: Sherwin-Williams

Style/Series: SW 7757 High Reflective White (Flat)

### Sales Rep

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#### Primary

**Matt Wessel**

Email: matthew.m.wessel@sherwin.com

Office Phone: (216) 515-7925

### Attributes

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#### INTERIOR CEILING PAINT

Item Type: Interior Ceiling Paint

Model: ProMar 200 ZeroVOC Interior Latex (B30W12651)

#### MATERIAL/FINISH

Color: SW7757 High Reflective White

Finish: Flat

#### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified

Quality Standards: Interior paint: Comply with Green Seal GS-11; MPI Architectural Painting Specification Manual; 40 CFR, Part 59, Subpart D 2001, National Volatile Organic Compound Emission Standards for Architectural Coatings

#### MISCELLANEOUS

Eco-Feature(s) \*as per manufacturer: Formulated without lead, mercury or chromates. 0 g/L VOC (US EPA) | GREENGUARD Gold Certified | LEED v4 VOC & Emissions Compliant, Materials Ingredient Declaration available.

Lead Time: Standard lead times are 3-5 days from receipt of purchase order. Lead time should be confirmed by the manufacturer.

Warranty: Limited Lifetime

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/y66pjxfe>

Special Instructions: Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for



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which they are intended. Required Wall Finish Levels: All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish. All walls to receive Paint (or light to med weight wall covering) are to have a level 4 Gypsum Board Finish. All walls to receive Gloss, enamel paint, or Murals to have a Level 5 Gypsum Board Finish.

**ProMar® 200 Zero V.O.C.****Interior Latex Flat**

B30-Series

**SHERWIN  
WILLIAMS®****CHARACTERISTICS**

**ProMar® 200 Zero V.O.C. Interior Latex Flat** is a durable, professional quality, interior vinyl acrylic finish for use on walls and ceilings of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shadow primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.4 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 1.5-3.5 units @ 85°

**Tinting with CCE only:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

**Extra White B30W12651**

(may vary by color)

**V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 34 ±2%

**Weight Solids:** 52 ±2%

**Weight per Gallon:** 11.45 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 36 months, unopened

**WVP Perms (US):** 70.83 grains/(hr ft<sup>2</sup> in Hg)

**Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

**COMPLIANCE**

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

**APPLICATION**

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure: 2000 p.s.i.  
Tip: .017-.021 inch

**APPLICATION TIPS**

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

**SPECIFICATIONS**

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Flat

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

|      |            |           |       |
|------|------------|-----------|-------|
| HOTW | 06/29/2023 | B30W12650 | 15 00 |
| HOTW | 06/29/2023 | B30W12651 | 26 00 |
| HOTW | 06/29/2023 | B30W02653 | 32 00 |
| HOTW | 06/29/2023 | B30T02654 | 34 00 |
| HOTW | 06/29/2023 | B30R12658 | 06 00 |
| HOTW | 06/29/2023 | B30Y02657 | 21 00 |
| HOTW | 06/29/2023 | B30W02606 | 20 00 |

FRC, SP

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## CEILING PAINTS

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Manufacturer: Sherwin-Williams

Style/Series: SW 6228 Refuge

### Sales Rep

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#### Primary

**Matt Wessel**

Email: matthew.m.wessel@sherwin.com

Office Phone: (216) 515-7925

### Attributes

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Item Type: Paint - Ceiling

Model: ProMar 200 Zero V.O.C. Interior Latex Flat

### MATERIAL / FINISH

Color: SW 6228 Refuge

Finish: Flat

### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified

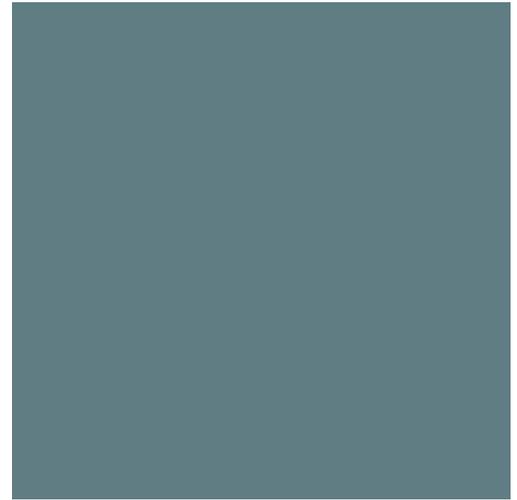
Quality Standards: Interior paint: Comply with Green Seal GS-11; MPI Architectural Painting Specification Manual; 40 CFR, Part 59, Subpart D 2001, National Volatile Organic Compound Emission Standards for Architectural Coatings

### MISCELLANEOUS

Lead Time: Standard lead times are 3-5 days from receipt of purchase order. Lead time should be confirmed by the manufacturer.

Warranty: Limited Lifetime

Notes / Special Instructions: SPECIAL INSTRUCTIONS Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended. Required Wall Finish Levels: All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish. All walls to receive Paint (or light to med weight wall covering) are to have a level 4 Gypsum Board Finish. All walls to receive Gloss, enamel paint, or Murals to have a Level 5 Gypsum Board Finish.



**ProMar® 200 Zero V.O.C.****Interior Latex Flat**

B30-Series

**SHERWIN  
WILLIAMS®****CHARACTERISTICS**

**ProMar® 200 Zero V.O.C. Interior Latex Flat** is a durable, professional quality, interior vinyl acrylic finish for use on walls and ceilings of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shadow primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.4 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 1.5-3.5 units @ 85°

**Tinting with CCE only:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

**Extra White B30W12651**

(may vary by color)

**V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 34 ±2%

**Weight Solids:** 52 ±2%

**Weight per Gallon:** 11.45 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 36 months, unopened

**WVP Perms (US):** 70.83 grains/(hr ft<sup>2</sup> in Hg)

**Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

**COMPLIANCE**

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

**APPLICATION**

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure: 2000 p.s.i.  
Tip: .017-.021 inch

**APPLICATION TIPS**

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

**SPECIFICATIONS**

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Flat

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

|      |            |           |       |
|------|------------|-----------|-------|
| HOTW | 06/29/2023 | B30W12650 | 15 00 |
| HOTW | 06/29/2023 | B30W12651 | 26 00 |
| HOTW | 06/29/2023 | B30W02653 | 32 00 |
| HOTW | 06/29/2023 | B30T02654 | 34 00 |
| HOTW | 06/29/2023 | B30R12658 | 06 00 |
| HOTW | 06/29/2023 | B30Y02657 | 21 00 |
| HOTW | 06/29/2023 | B30W02606 | 20 00 |

FRC, SP

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

PTW - Wall Paints

## WALL PAINTS

### INTERIOR WALL PAINT

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Manufacturer: Sherwin-Williams  
Style/Series: SW 7006 Extra White (Eg-Shel)

### Sales Rep

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#### Primary

**Matt Wessel**  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

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#### INTERIOR WALL PAINT

Item Type: Interior Wall Paint  
Model: ProMar 200 ZeroVOC Interior Latex (B20W12651)

#### MATERIAL/FINISH

Color: SW 7006 Extra White  
Finish: Eg-Shel

#### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Interior paint: Comply with Green Seal GS-11;  
MPI Architectural Painting Specification Manual; 40 CFR, Part 59,  
Subpart D 2001, National Volatile Organic Compound Emission  
Standards for Architectural Coatings

#### MISCELLANEOUS

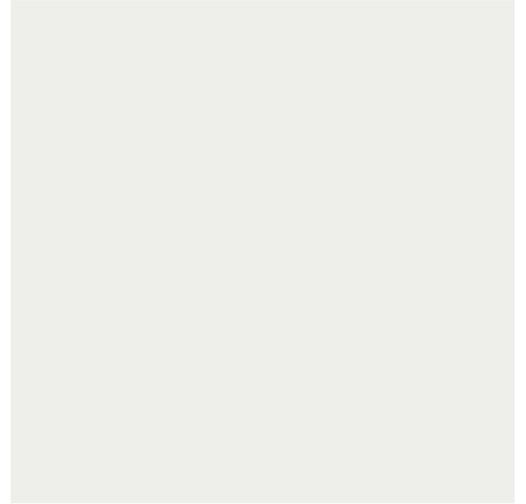
Eco-Feature(s) \*as per manufacturer: Formulated without lead,  
mercury or chromates.

Lead Time: Standard lead times are 3-5 days from receipt of  
purchase order. Lead time should be confirmed by the  
manufacturer.

Warranty: Limited Lifetime

#### NOTES

Manufacturer Cut Sheet: <https://tinyurl.com/ysrhnnh3>  
Special Instructions: Primer, undercoat, block filler, finish coat(s) are  
to be compatible and of the same manufacturer. All primers and  
undercoats are to be tinted to 50% lighter than the selected and  
approved finish coat color. All finish coats are to be tinted 25%  
darker than the primer coat until approved finish coat color is  
achieved. When the color schedule calls for the use of DEEP TONES  
(interior and/or exterior), it is the responsibility of the painting  
contractor to utilize the appropriate Deep Base Primers as  
manufactured by the painting company for use on the substrate for  
which they are intended. Required Wall Finish Levels: All walls to  
receive VWC are to have a Level 3 (minimum) Gypsum Board Finish.



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All walls to receive Paint (or light to medium weight wall covering) are to have a Level 4 Gypsum Board Finish. All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.

# ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel

B20-Series


**SHERWIN  
WILLIAMS®**

## CHARACTERISTICS

**ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel** is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shade primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.1 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 15-20 units @ 85°  
5+ units @ 60°

### **Tinting with CCE:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

### **Extra White B20W12651**

(may vary by color)

### **V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 42 ±2%

**Weight Solids:** 54 ±2%

**Weight per Gallon:** 10.81 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 18 months, unopened

**WVP Perms (US):** 54.19 grains/(hr ft<sup>2</sup> in Hg)

### **Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

## APPLICATION

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure: 2000 p.s.i.  
Tip: .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Eg-Shel

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a **NIOSH**-approved respirator to control lead exposure. Clean up carefully with a **HEPA** vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

|      |            |           |      |
|------|------------|-----------|------|
| HOTW | 06/28/2023 | B20W12650 | 18 0 |
| HOTW | 06/28/2023 | B20W12651 | 32 0 |
| HOTW | 06/28/2023 | B20W02653 | 38 0 |
| HOTW | 06/28/2023 | B20T02654 | 44 0 |
| HOTW | 06/28/2023 | B20R12658 | 05 0 |
| HOTW | 06/28/2023 | B20Y02657 | 22 0 |
| HOTW | 06/28/2023 | B20W02606 | 24 0 |

FRC, SP

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### Door + Door Frame Paint

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Manufacturer: Sherwin-Williams  
Style/Series: SW 7064 Passive (Semi-Gloss)

### Attributes

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Door + Door Frame Paint

Item Type: Interior Door + Door Frame Paint  
Model: ProMar 200 Zero V.O.C. Interior Latex

### MATERIAL/FINISH

Color: SW 7064 Passive  
Finish: Semi-Gloss

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/3f98z49a>  
Special Instructions: SPECIAL INSTRUCTIONS Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended. Required Wall Finish Levels: All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish. All walls to receive Paint (or light to medium weight wall covering) are to have a Level 4 Gypsum Board Finish. All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.



# ProMar® 200 Zero V.O.C. Interior Latex Semi-Gloss

B31-Series



## CHARACTERISTICS

**ProMar® 200 Zero V.O.C. Interior Latex Semi-Gloss** is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shadow primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.5 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 25-35 units @ 85°

### Tinting with CCE only:

| Base:          | oz. per gallon: | Strength: |
|----------------|-----------------|-----------|
| High Ref White | 0-6             | SherColor |
| Extra White    | 0-7             | SherColor |
| Deep Base      | 4-12            | SherColor |
| Ultradeep Base | 10-12           | SherColor |
| Real Red       | 0-12            | SherColor |
| Bright Yellow  | 0-12            | SherColor |
| Dover White    |                 |           |

**Do Not Tint**

### Extra White B31W12651

(may vary by color)

### V.O.C. (less exempt solvents):

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 38 ±2%

**Weight Solids:** 50 ±2%

**Weight per Gallon:** 10.30 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 36 months, unopened

**WVP Perms (US):** 85.75 grains/(hr ft<sup>2</sup> in Hg)

### Anti-microbial

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

## APPLICATION

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure: 2000 p.s.i.  
Tip: .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Semi-Gloss

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a **NIOSH**-approved respirator to control lead exposure. Clean up carefully with a **HEPA** vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

|         |            |           |    |    |
|---------|------------|-----------|----|----|
| HOTW    | 07/03/2023 | B31W02650 | 24 | 00 |
| HOTW    | 06/29/2023 | B31W02651 | 46 | 00 |
| HOTW    | 06/29/2023 | B31W02653 | 32 | 00 |
| HOTW    | 06/29/2023 | B31T02654 | 34 | 00 |
| HOTW    | 06/29/2023 | B31R12658 | 21 | 00 |
| HOTW    | 06/29/2023 | B31Y02657 | 24 | 00 |
| HOTW    | 06/29/2023 | B31W02606 | 25 | 00 |
| FRC, SP |            |           |    |    |

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### INTERIOR WALL PAINT

---

Manufacturer: Sherwin-Williams  
Style/Series: SW 7064 Passive (Eg-Shel)

### Sales Rep

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#### Primary

**Matt Wessel**  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

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#### INTERIOR WALL PAINT

Item Type: Guest Corridor and Public Space Wall Paint

#### MATERIAL/FINISH

Color: SW 7064 Passive  
Finish: Eg-Shel

#### PERFORMANCE

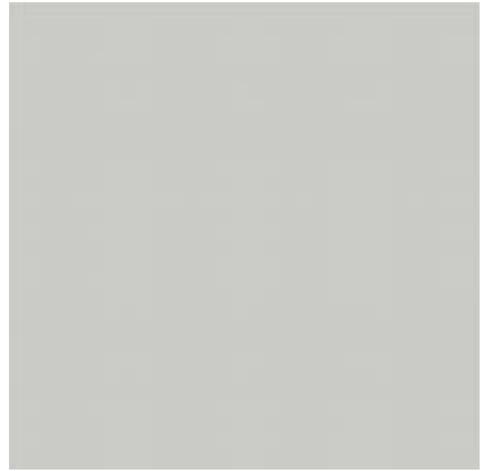
Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Interior paint: Comply with Green Seal GS-11;  
MPI Architectural Painting Specification Manual; 40 CFR, Part 59,  
Subpart D 2001, National Volatile Organic Compound Emission  
Standards for Architectural Coatings

#### MISCELLANEOUS

Eco-Feature(s) \*as per manufacturer: Formulated without lead,  
mercury or chromates.  
Lead Time: Standard lead times are 3-5 days from receipt of  
purchase order. Lead time should be confirmed by the  
manufacturer.  
Warranty: Limited Lifetime

#### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/ysrhnnh3>  
Special Instructions: Primer, undercoat, block filler, finish coat(s) are  
to be compatible and of the same manufacturer. All primers and  
undercoats are to be tinted to 50% lighter than the selected and  
approved finish coat color. All finish coats are to be tinted 25%  
darker than the primer coat until approved finish coat color is  
achieved. When the color schedule calls for the use of DEEP TONES  
(interior and/or exterior), it is the responsibility of the painting  
contractor to utilize the appropriate Deep Base Primers as  
manufactured by the painting company for use on the substrate for  
which they are intended. Required Wall Finish Levels: All walls to  
receive VWC are to have a Level 3 (minimum) Gypsum Board Finish.  
All walls to receive Paint (or light to medium weight wall covering)



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are to have a Level 4 Gypsum Board Finish. All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.

# ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel

B20-Series


**SHERWIN  
WILLIAMS®**

## CHARACTERISTICS

**ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel** is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shade primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.1 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 15-20 units @ 85°  
5+ units @ 60°

### **Tinting with CCE:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

### **Extra White B20W12651**

(may vary by color)

### **V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 42 ±2%

**Weight Solids:** 54 ±2%

**Weight per Gallon:** 10.81 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 18 months, unopened

**WVP Perms (US):** 54.19 grains/(hr ft<sup>2</sup> in Hg)

### **Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

## APPLICATION

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure 2000 p.s.i.  
Tip .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Eg-Shel

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a **NIOSH**-approved respirator to control lead exposure. Clean up carefully with a **HEPA** vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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| HOTW    | 06/28/2023 | B20R12658 | 05 0 |
| HOTW    | 06/28/2023 | B20Y02657 | 22 0 |
| HOTW    | 06/28/2023 | B20W02606 | 24 0 |
| FRC, SP |            |           |      |

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### INTERIOR WALL PAINT

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Manufacturer: Sherwin-Williams  
Style/Series: SW 6228 Refuge (Eg-Shel)

### Sales Rep

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#### Primary

**Matt Wessel**  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

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#### INTERIOR WALL PAINT

Item Type: Interior Wall Paint  
Model: ProMar 200 ZeroVOC Interior Latex (B30 Series)  
Color: SW 6228 Refuge  
Finish: Eg-Shel  
Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Interior paint: Comply with Green Seal GS-11; MPI Architectural Painting Specification Manual; 40 CFR Part 59, Subpart D 2001, National Volatile Organic Compound Emission Standards for Architectural Coatings  
Eco-Feature(s) \*as per manufacturer: Zero VOCs meets the most stringent VOC requirements. GREENGUARD Environmental Institute (GEI) and other green guidelines and regulation. ProMar 200 Zero VOC meets MPIS 53 and 143.  
Lead Time: Standard lead times are 3-5 days from receipt of purchase order. Lead time should be confirmed by the manufacturer.  
Warranty: Limited Lifetime  
Special Instructions: Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended. Required Wall Finish Levels: All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish. All walls to receive Paint (or light to medium weight wall covering) are to have a Level 4 Gypsum Board Finish. All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.



# ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel

B20-Series


**SHERWIN  
WILLIAMS®**

## CHARACTERISTICS

**ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel** is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shade primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.1 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 15-20 units @ 85°  
5+ units @ 60°

### **Tinting with CCE:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

### **Extra White B20W12651**

(may vary by color)

### **V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 42 ±2%

**Weight Solids:** 54 ±2%

**Weight per Gallon:** 10.81 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 18 months, unopened

**WVP Perms (US):** 54.19 grains/(hr ft<sup>2</sup> in Hg)

### **Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

## APPLICATION

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure 2000 p.s.i.  
Tip .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar<sup>®</sup> 200 Zero V.O.C. Interior Latex Eg-Shel

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a **NIOSH**-approved respirator to control lead exposure. Clean up carefully with a **HEPA** vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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| HOTW    | 06/28/2023 | B20Y02657 | 22 0 |
| HOTW    | 06/28/2023 | B20W02606 | 24 0 |
| FRC, SP |            |           |      |

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### INTERIOR WALL PAINT

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Manufacturer: Sherwin-Williams

Style/Series: SW 7615 Sea Serpent (Eg-Shel)

### Sales Rep

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#### Primary

**Matt Wessel**

Email: matthew.m.wessel@sherwin.com

Office Phone: (216) 515-7925

### Attributes

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INTERIOR WALL PAINT

Item Type: Interior Wall Paint

Model: ProMar 200 ZeroVOC Interior Latex (B20 Series)

### MATERIAL/FINISH

Color: SW 7615 Sea Serpent

Finish: Eg-Shel

### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified

Quality Standards: Interior paint: Comply with Green Seal GS-11; MPI Architectural Painting Specification Manual; 40 CFR, Part 59, Subpart D 2001, National Volatile Organic Compound Emission Standards for Architectural Coatings

### MISCELLANEOUS

Eco-Feature(s) \*as per manufacturer: Formulated without lead, mercury or chromates.

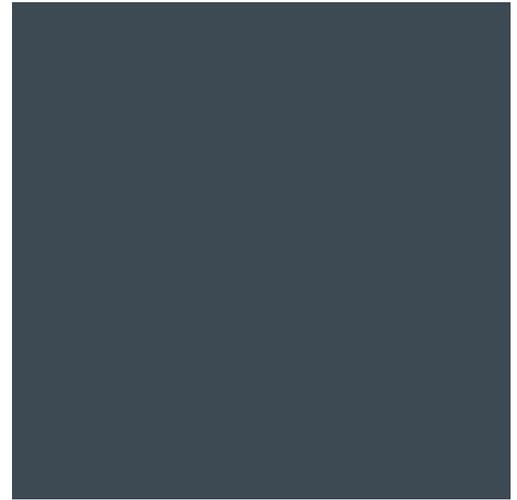
Lead Times: Standard lead times are 3-5 days from receipt of purchase order. Lead time should be confirmed by the manufacturer.

Warranty: Limited Lifetime

### NOTES

Manufacturer Data Sheet: <https://tinyurl.com/ysrhnnh3>

Special Instructions: Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended. Required Wall Finish Levels: All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish.



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All walls to receive Paint (or light to medium weight wall covering) are to have a Level 4 Gypsum Board Finish. All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.

# ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel

B20-Series


**SHERWIN  
WILLIAMS®**

## CHARACTERISTICS

**ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel** is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**Color:** Most Colors  
To optimize hide and color development, always use the recommended P-Shade primer.

**Coverage:** 350-400 sq. ft. per gallon  
@ 4 mils wet  
1.1 mils dry

**Drying Time, @ 77° F, 50% RH:**  
Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

**Finish:** 15-20 units @ 85°  
5+ units @ 60°

### **Tinting with CCE:**

| Base:          | oz. per gallon: | Strength:          |
|----------------|-----------------|--------------------|
| High Ref White | 0-6             | SherColor          |
| Extra White    | 0-7             | SherColor          |
| Deep Base      | 4-12            | SherColor          |
| Ultradeep Base | 10-12           | SherColor          |
| Real Red       | 0-12            | SherColor          |
| Bright Yellow  | 0-12            | SherColor          |
| Dover White    |                 | <b>Do Not Tint</b> |

### **Extra White B20W12651**

(may vary by color)

### **V.O.C. (less exempt solvents):**

Less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 42 ±2%

**Weight Solids:** 54 ±2%

**Weight per Gallon:** 10.81 lbs

**Flash Point:** N.A.

**Vehicle Type:** Vinyl Acrylic

**Shelf Life:** 18 months, unopened

**WVP Perms (US):** 54.19 grains/(hr ft<sup>2</sup> in Hg)

### **Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 06/29/2023, Complies with:

|                                      |     |
|--------------------------------------|-----|
| <b>OTC</b>                           | Yes |
| <b>OTC Phase II</b>                  | Yes |
| <b>S.C.A.Q.M.D.</b>                  | Yes |
| <b>CARB</b>                          | Yes |
| <b>CARB SCM 2007</b>                 | Yes |
| <b>CARB SCM 2020</b>                 | Yes |
| <b>Canada</b>                        | Yes |
| <b>LEED® v4 &amp; v4.1 Emissions</b> | Yes |
| <b>LEED® v4 &amp; v4.1 V.O.C.</b>    | Yes |
| <b>EPD-NSF® Certified</b>            | Yes |
| <b>MIR-Manufacturer Inventory</b>    | Yes |
| <b>MPI®</b>                          | Yes |

## APPLICATION

Apply at temperatures above 50°F  
No reduction needed.

**Brush:**  
Use a nylon-polyester brush.

**Roller:**  
Use a 3/8 to 3/4 inch nap synthetic cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on [Sherwin-williams.com](http://Sherwin-williams.com)

**Spray - Airless:**  
Pressure 2000 p.s.i.  
Tip .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

**Block:**  
1 coat ConFlex Block Filler\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Drywall:**  
1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Masonry:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Plaster:**  
1 coat Loxon Concrete & Masonry Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

**Wood:**  
1 coat Premium Wall & Wood Primer\*  
2 coats ProMar 200 Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar® 200 Zero V.O.C. Interior Latex Eg-Shel

## SURFACE PREPARATION

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a **NIOSH**-approved respirator to control lead exposure. Clean up carefully with a **HEPA** vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceiling, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations – usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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| HOTW    | 06/28/2023 | B20Y02657 | 22 0 |
| HOTW    | 06/28/2023 | B20W02606 | 24 0 |
| FRC, SP |            |           |      |

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### Interior Gypsum Board Wall Paint

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Manufacturer: Sherwin Williams  
Style/Series: SW 6991 Black Magic (Eg-Shel)

### Sales Rep

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#### Primary

Matt Wessel  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

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Interior Gypsum Board Wall Paint

Type: Interior Water-based Acrylic Latex Paint

#### MATERIAL/FINISH

Color: SW 6991 Black Magic  
Finish: Eg-Shel

#### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Interior paint: Comply with Green Seal GS-11;  
MPI Architectural Painting Specification Manual; 40 CFR, Part 59,  
Subpart D 2001, National Volatile Organic Compound Emission  
Standards for Architectural Coatings

#### MISCELLANEOUS

Lead Time: Standard lead times are 3-5 days from receipt of  
purchase order. Lead time should be confirmed by the  
manufacturer.  
Warranty: Limited Lifetime

#### CUSTOM FIELDS

Product Type: ProMar 200 ZeroVOC Interior Latex (B20W12651)  
Finish: NA  
Eco-Feature(s) \*as per manufacturer: Zero VOCs meets the most  
stringent VOC requirements. GREENGUARD Environmental Institute  
(GEI) and other green guidelines and regulations, ProMar 200 Zero  
VOC Flat meets MPI 53 and 143.

### Notes

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#### Special Instructions

Primer, undercoat, block filler, finish coat(s) are to be compatible  
and of the same manufacturer. All primers and undercoats are to



be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior). It is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended.

Required Wall Finish Levels:

All walls to receive VWC are to have a Level 3 (minimum) Gypsum Board Finish.

All walls to receive Paint (or light to medium weight wall covering) are to have a Level 4 Gypsum Board Finish.

All walls to receive Gloss, Enamel Paint, or Murals to have a Level 5 Gypsum Board Finish.

# ProMar® 200 HP Zero V.O.C. Interior Acrylic Eg-Shel

B20-1900 Series


**SHERWIN  
WILLIAMS.**

## CHARACTERISTICS

**ProMar 200 HP Zero VOC Interior Acrylic** is a high performance durable, professional quality, interior acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

**ProMar® 200 HP Zero VOC Interior Acrylic** is for commercial or light industrial projects that require greater durability and abrasion resistance.

MPI® compliance in Standard, High Performance, Institutional and X-Green® categories.

**Color:** Most Colors

To optimize hide and color development, always use the recommended P-Shade primer

**Coverage:** 350 - 400 sq. ft. per gallon  
@ 4 mils wet;  
1.7 mils dry

### **Drying Time, @ 77°F, 50% RH:**

Touch: 1 Hour  
Recoat: 4 Hours

Drying and recoat times are temperature, humidity, and film thickness dependent

**Finish:** 20-25 units @ 85°  
5+ units @60°

### **Tinting with CCE only:**

| Base:          | oz/gal: | Strength: |
|----------------|---------|-----------|
| High Ref White | 0-6     | SherColor |
| Extra White    | 0-7     | SherColor |
| Deep Base      | 4-12    | SherColor |
| Ultradeep Base | 10-12   | SherColor |

**Extra White B20W01951**  
(may vary by color)

### **V.O.C. (less exempt solvents):**

less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 42 ± 2%

**Weight Solids:** 54 ± 2%

**Weight per Gallon:** 10.73 lbs

**Flash Point:** N/A

**Vehicle Type:** Acrylic

**Shelf Life:** 36 months unopened

### **\*Anti-microbial**

This product contains agents which inhibit the growth of mold and mildew on the surface of this paint film.

## COMPLIANCE

As of 10/02/2019, Complies with:

|                            |     |
|----------------------------|-----|
| OTC                        | Yes |
| OTC Phase II               | Yes |
| SCAQMD                     | Yes |
| CARB                       | Yes |
| CARB SCM 2007              | Yes |
| Canada                     | Yes |
| LEED® v4 & v4.1 Emissions  | Yes |
| LEED® v4 & v4.1 V.O.C.     | Yes |
| EPD-NSF® Certified         | Yes |
| MIR-Product Lens Certified | No  |
| MPI®                       | Yes |

## APPLICATION

Apply at temperatures above 50°F.  
No reduction needed.

### **Brush:**

Use a nylon/polyester brush. Purdy XL Elite.

### **Roller:**

Use a 3/8 to 3/4 inch nap synthetic cover. Purdy Marathon.

For specific brushes and rollers, please refer to our Brush and Roller Guide.

### **Spray—Airless**

Pressure 2000 p.s.i.  
Tip .017-.021 inch

## APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Priming and application of two coats at the recommended film thickness can help where hiding of a previous coating or application to new drywall is a factor.

Using the same method of application and batch to touch up with as that originally used will help improve touch up.

When original application was by spray, preconditioning of touch up paint by running it through the spray tip will help touch up appearance.

## SPECIFICATIONS

### **Block:**

1 coat ConFlex Block Filler\*  
2 coats ProMar 200 HP Zero V.O.C. Interior Latex

### **Drywall:**

1 coat ProMar 200 Zero V.O.C. Latex Primer  
2 coats ProMar 200 HP Zero V.O.C. Interior Latex

### **Masonry:**

1 coat Loxon Concrete and Masonry Primer\*  
2 coats ProMar 200 HP Zero V.O.C. Interior Latex

### **Plaster:**

1 coat Loxon Concrete and Masonry Primer\*  
2 coats ProMar 200 HP Zero V.O.C. Interior Latex

### **Wood:**

1 coat Premium Wall and Wood Primer\*  
2 coats ProMar 200 HP Zero V.O.C. Interior Latex

\*These primers contain less than 50 grams per litre V.O.C.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

# ProMar® 200 HP Zero V.O.C. Interior Acrylic Eg-Shel

## SURFACE PREPARATION

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### **Caulking:**

Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

### **Drywall:**

Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

### **Masonry, Concrete, Cement, Block:**

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

## SURFACE PREPARATION

### **Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

### **Plaster:**

Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### **Wood:**

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

## CAUTIONS

For interior use only.  
Protect from freezing.  
Non-photochemically reactive.

Before using, carefully read **CAUTIONS on label**

**CRYSTALLINE SILICA** Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (**NIOSH** approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 10/02/2019 B20W01953 26 00  
FRC.SP

## CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

## WALL PAINTS

### Interior Gypsum Board Wall Primer

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Manufacturer: Sherwin Williams  
Style/Series: ProMar 200 ZeroVOC Interior Latex Wall Primer  
(B28W02600)

### Sales Rep

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#### Primary

**Matt Wessel**  
Email: matthew.m.wessel@sherwin.com  
Office Phone: (216) 515-7925

### Attributes

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Interior Gypsum Board Wall Primer

Type: Interior Water-based Acrylic Latex Primer

### MATERIAL/FINISH

Color: White  
Finish: Flat

### PERFORMANCE

Best Practices: Low-VOC, UL Greenguard Certified  
Quality Standards: Interior paint: Comply with Green Seal GS-11;  
MPI Architectural Painting Specification Manual; 40 CFR, Part 59,  
Subpart D 2001, National Volatile Organic Compound Emission  
Standards for Architectural Coatings;

### MISCELLANEOUS

Lead Time: Standard lead times are 3-5 days from receipt of  
purchase order. Lead time should be confirmed by the  
manufacturer.  
Warranty: Limited Lifetime

### CUSTOM FIELDS

Product Type: ProMar 200 ZeroVOC Interior Latex Wall Primer  
(B28W02600)  
Finish: Flat  
Eco-Feature(s) \*as per manufacturer: Zero VOCs meets the most  
stringent VOC requirements. GREENGUARD Environmental Institute  
(GEI) and other green guidelines and regulations. ProMar 200 Zero  
VOC Flat meets MPI 53 and 143.

### Notes

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Special Instructions

IMAGE NOT  
AVAILABLE

Primer, undercoat, block filler, finish coat(s) are to be compatible and of the same manufacturer. All primers and undercoats are to be tinted to 50% lighter than the selected and approved finish coat color. All finish coats are to be tinted 25% darker than the primer coat until approved finish coat color is achieved. When the color schedule calls for the use of DEEP TONES (interior and/or exterior), it is the responsibility of the painting contractor to utilize the appropriate Deep Base Primers as manufactured by the painting company for use on the substrate for which they are intended.

Required Wall Finish Levels:

All walls to receive VWC are to have a Level 3 minimum) Gypsum Board Finish. All walls to receive Paint (or light to med weight wall covering) are to have a level 4 Gypsum Board Finish. All walls to receive Gloss, enamel paint, or Murals to have a Level 5 Gypsum Board Finish.

# ProMar® 200

## Zero V.O.C. Interior Latex Primer

B28W02600 White


**SHERWIN  
WILLIAMS.**

### CHARACTERISTICS

**ProMar 200 Zero V.O.C. Interior Latex Primer** is a professional quality, interior vinyl acrylic primer.

This primer has been designed for use with the **ProMar Series Interior Latex topcoats** providing a complete system.

#### For use on these interior surfaces:

- Wood
- Drywall
- Plaster
- Masonry
- Primed Metal
- Previously painted surfaces

**Color:** White  
For best topcoat color development, use the recommended "P"-shade primer. Check color before use.

**Coverage:** 400 sq.ft.per gallon  
@ 4.0 mils wet;  
1.0 mils dry

Drying and recoat times are temperature, humidity, and film thickness dependent

**Drying Time, @ 77°F, 50% RH:**

**Touch:** 1 hour  
**Recoat:** 4 hour

**Finish:** 0-5 units @85°

**Tinting: Requires ColorCast Ecotoner for tinting.**

For best topcoat color development, use the recommended "P"-shade primer. If desired, up to 4 oz per gallon of ColorCast Ecotoner can be used to approximate the topcoat color. Check color before use.

#### White B28W02600

**V.O.C. (less exempt solvents):**

less than 50 grams per litre; 42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 26 ± 2%  
**Weight Solids:** 43 ± 2%  
**Weight per Gallon:** 10.77 lbs  
**Flash Point:** N.A.  
**Vehicle Type:** Vinyl acrylic  
**Shelf Life:** 36 months unopened

**WVP Perms (US):**

135.65 ± 5.07 perm grains/(hr ft<sup>2</sup> in Hg)

### COMPLIANCE

As of 07/13/2020, Complies with:

|                            |     |
|----------------------------|-----|
| OTC                        | Yes |
| OTC Phase II               | Yes |
| SCAQMD                     | Yes |
| CARB                       | Yes |
| CARB SCM 2007              | Yes |
| Canada                     | Yes |
| LEED® v4 & v4.1 Emissions  | Yes |
| LEED® v4 & v4.1 V.O.C.     | Yes |
| EPD-NSF® Certified         | Yes |
| MIR-Product Lens Certified | Yes |
| MPI®                       | Yes |

### APPLICATION

No reduction necessary.

Apply at temperatures above 50°F.

**Brush:**  
Use a nylon-polyester brush

**Roller:**  
Use a nap synthetic cover,

For specific brushes and rollers, please refer to our Brush and Roller Guide on [sherwin-williams.com](http://sherwin-williams.com)

**Spray—Airless:**  
**Pressure** 2000 p.s.i.  
**Tip** .017-.021 inch

### APPLICATION TIPS

When spot priming on some surfaces, a non-uniform appearance of the final coat may result, due to differences in holdout between primed and unprimed areas. To avoid this, prime the entire surface rather than spot priming.

For optimal performance, this primer must be topcoated with a latex, alkyd-oil, water based epoxy, or solvent based epoxy coating on architectural applications.

### SPECIFICATIONS

#### Drywall:

- 1 coat ProMar 200 Zero V.O.C. Latex Primer
- 2 coats Of appropriate finishes

#### Previously Painted:

- 1 coat ProMar 200 Zero V.O.C. Latex Primer
- 1-2 coats Of appropriate finishes

# ProMar® 200

## Zero V.O.C. Interior Latex Primer

### SURFACE PREPARATION

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**Caulking** - Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

**Drywall** - Fill cracks and nail holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

**Masonry, Concrete, Cement, Block** - All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.

**Plaster** - Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

### SURFACE PREPARATION

**Mildew** - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

### CAUTIONS

For interior use only.

Protect from freezing.

Non-photochemically reactive.

Not for use under wallpaper.

Before using, carefully read **CAUTIONS on label**

**CRYSTALLINE SILICA:** Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (**NIOSH** approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 07/13/2020 B28W02600 28 00  
FRC, SP

### CLEANUP INFORMATION

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

RF - Resilient Flooring

## RESILIENT FLOORING

### Back of House Flooring

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Manufacturer: Mohawk Group  
Style/Series: Medella Fleck - C2061

### Attributes

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Back of House Flooring

Type: Homogeneous Resilient Sheet

### DIMENSIONS

Length: 6'-7" Lengths  
Thickness: 2mm

### MATERIAL / FINISH

Style: Medella Fleck C2061  
Color: Fog - 84982  
Finish: M-Force Ultra

### PERFORMANCE

Accessories: Manufacturer's Recommended Adhesive  
Fire/Smoke Rating: (ASTM E-662)  $\leq 450$   
Quality Standards: Passes - ASTM F410 Meets or Exceeds ASTM  
F1913 ASTM C1028 - Passes, 0.53 West, 0.73 Dry

### MISCELLANEOUS

### Notes

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<https://tinyurl.com/5b88msvh>



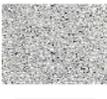
## Medella Fleck

|              |  |
|--------------|--|
| Collection   | Healthy Environments Homogeneous Resilient Sheet |
| Style Name   | Medella Fleck                                    |
| Style Number | C2061  |
| Product Type | Resilient Sheet                                  |
| Size         | 6 ft 7 in  |
| Installation | Monolithic                                       |

| Feature                             | Description   |
|-------------------------------------|---|
| Overall Thickness                   | 2 mm  |
| Wear Layer                          | ASTM F410 - Passes  |
| Finish                              | M-Force™ Ultra  |
| Square Ft per Carton                | 0   |
| Pounds per Carton                   | 0   |
| Pieces per Carton                   | 0   |
| Classification                      | ASTM F1913 Meets or Exceeds   |
| Recommended Adhesive                | M95.0 or MS160 Adhesive   |
| Type of Construction                | Commercial Grade Homogeneous Resilient Sheet Vinyl Non-ortho Phthalate Construction |
| Thickness                           | (ASTM F386) Passes  |
| Installation Method (Click or Glue) | Glue Down   |



## Colorways

|   |  |  |
|---|--|--|
|  <p><b>Almond</b></p> <p>Color code: 84163<br/>Style number: C2061</p>       |  <p><b>Silver Gray</b></p> <p>Color code: 84197<br/>Style number: C2061</p>   |  <p><b>Color Fleck</b></p> <p>Color code: 84410<br/>Style number: C2061</p> |
|  <p><b>Chateau Gray</b></p> <p>Color code: 84620<br/>Style number: C2061</p> |  <p><b>Shell</b></p> <p>Color code: 84760<br/>Style number: C2061</p>         |  <p><b>Pearl</b></p> <p>Color code: 84850<br/>Style number: C2061</p>       |
|  <p><b>Sky</b></p> <p>Color code: 84880<br/>Style number: C2061</p>          |  <p><b>Sandstone</b></p> <p>Color code: 84970<br/>Style number: C2061</p>     |  <p><b>Snow</b></p> <p>Color code: 84980<br/>Style number: C2061</p>        |
|  <p><b>Meadow Lake</b></p> <p>Color code: 84981<br/>Style number: C2061</p>  |  <p><b>Fog</b></p> <p>Color code: 84982<br/>Style number: C2061</p>           |  <p><b>Stone Dust</b></p> <p>Color code: 84983<br/>Style number: C2061</p>  |
|  <p><b>Tide</b></p> <p>Color code: 84984<br/>Style number: C2061</p>        |  <p><b>Morning Haze</b></p> <p>Color code: 84985<br/>Style number: C2061</p> |  <p><b>Shore Sand</b></p> <p>Color code: 84986<br/>Style number: C2061</p> |

## Colorways

|   |  |   |
|---|--|---|
|  <p><b>Stone Wall</b></p> <p>Color code: 84987<br/>Style number: C2061</p> |  <p><b>Alpine Lake</b></p> <p>Color code: 84988<br/>Style number: C2061</p> |  <p><b>Starry Night</b></p> <p>Color code: 84989<br/>Style number: C2061</p> |
|---|--|---|

## Performance

| Feature                 | Description                   |
|-------------------------|-------------------------------|
| Static Load             | (ASTM F970) 750 psi           |
| Residual Indentation    | (ASTM F1914) Passes           |
| Resistance to Chemicals | ASTM F925 - Passes, No Change |
| Resistance to Heat      | ASTM F 1514 - ΔE < 8.0        |
| Resistance to Light     | ASTM F 1515 - ΔE < 8.0        |
| Critical Radiant Flux   | ASTM E648 - Meets, Class 1    |
| Smoke Density           | (ASTM E-662) □ 450            |
| Flexibility             | (ASTMF137) Passes             |
| Thickness               | (ASTM F386) Passes            |

## Sustainability

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| Feature               | Description  |
|-----------------------|--|
| Floor Score           | Floor Score Certified  |
| Country of Origin     | China  |
| Beyond Carbon Neutral | This product is 100% carbon neutral plus an additional 5% offset |
| Carbon Handprint      | -0.04 kg CO2e/ft2  |
| Embodied Carbon       | 0.8 kg CO2e/ft2  |

## Warranties

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Limited 10 Year Commercial, Limited 10 Year Under Hospital Bed Warranty using M95.0 or M99.0

## RESILIENT FLOORING

### Resilient Flooring

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Manufacturer: Shaw Contract  
Style/Series: Vitality Tones

### Sales Rep

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#### Primary

David Burn  
Email: No.Email.14  
Office Phone: 301.520.9360

### Attributes

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Resilient Flooring

Type: Homogeneous Resilient Sheet

#### DIMENSIONS

Size: 6.56 ft x 65.62 ft  
Thickness: 2mm  
Style: Vitality Tones, 4375V  
Color: Pep Up - 00111  
Finish: Exoguard®

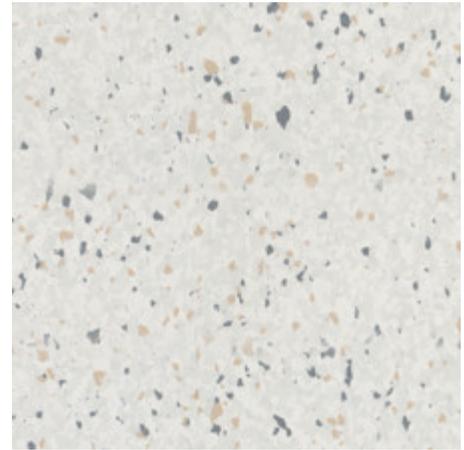
#### PERFORMANCE

Accessories: Manufacturer's Recommended Adhesive  
Fire/Smoke Rating: (ASTM E-662) ≤ 450  
Quality Standards: Passes - ASTM F410 Meets or Exceeds ASTM  
F1913 ASTM C1028 - Passes, 0.53 West, 0.73 Dry  
Warranty: 15 Year Commercial Limited Warranty

### Notes

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<https://tinyurl.com/242ezn5a>

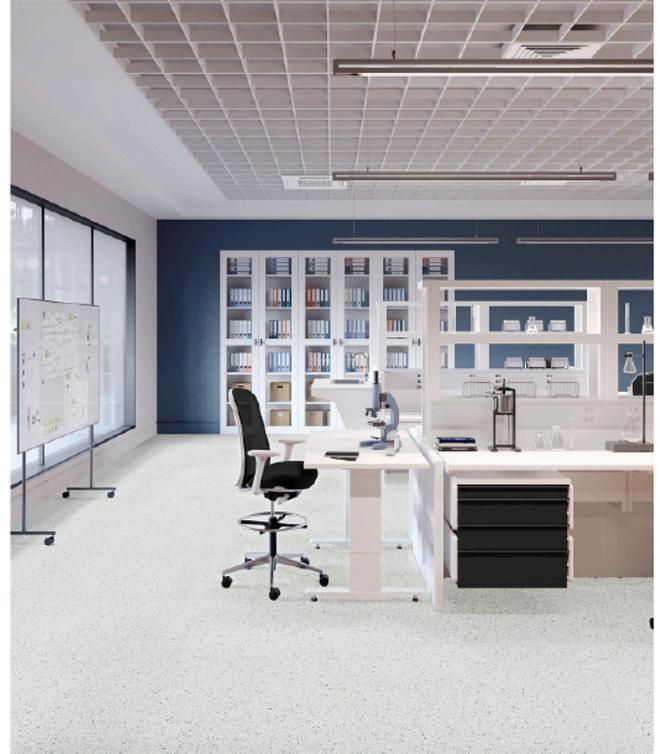


## Vitality Tones

|                          |  |             |
|--------------------------|--|-------------|
| Collection               | <b>Vitality</b>  |             |
| Style Number             | <b>4375V</b>   |             |
| Welding Rod Style Number | <b>184CA</b>   |             |
| Construction             | <b>Commercial Homogeneous Sheet</b>  |             |
| Finish                   | <b>ExoGuard®</b>   |             |
|                          | U.S.   | Metric      |
| Overall Thickness        | <b>0.079 in</b>  | <b>2 mm</b> |
| Installation Type        | <b>Dry Back</b>  |             |
| Installation             | <b>Direct Glue</b>   |             |
| Recommended Adhesive     | <b>S150-95 Resilient , LokWorx+ Premium R, LokWorx+ Premium R, LokWorx Resilient or 4151 Multi-Use Pre</b> |             |

### Packaging

|                  |                               |                             |
|------------------|-------------------------------|-----------------------------|
| Actual Roll Size | <b>6.56 ft w x 65.62 ft l</b> | <b>2.00 m w x 20.00 m l</b> |
| Area per Roll    | <b>47.84 sy/roll</b>          | <b>40 sq m/roll</b>         |
| Weight per Roll  | <b>286.6 lbs</b>              | <b>130 kg</b>               |



### Recommended Installation Method



Reverse

### Coordinating Products

Sheet: Vitality Sheet, Vitality Hues

### Performance + Testing

|   |  |  |
|---|--|--|
| Static Load (ASTM F970)                               | <b>Passes (Modified), *2000 lbs</b>  | *This test is intended to compare relative properties of different styles and constructions. Results are based on a laboratory test and used for comparative purposes - real life load limit may vary. |
| Residual Indentation (ASTM F1914)                     | <b>Passes</b>  |  |
| Flexibility (ASTM F137)                               | <b>Passes</b>  |  |
| Resistance to Heat (ASTM F1514)                       | <b>Passes</b>  |  |
| Resistance to Light (ASTM F1515)                      | <b>Passes</b>  |  |
| Resistance to Chemicals (ASTM F925)                   | <b>Passes</b>  |  |
| Smoke Density (ASTM E662, Flaming Mode)               | <b>Passes</b>  |  |
| Radiant Panel (ASTM E648)                             | <b>Passes, Class I</b>   |  |
| Coefficient of Friction (ASTM D2047, Slip Resistance) | <b>≥0.5, meets the recommended static coefficient of friction for ADA walking surfaces</b> |  |

Test Reports may be included or listed by the manufacturing/inventory style number as opposed to the noted selling style number.

## Warranties

[Commercial 15 Year Underbed Bond Warranty](#)  
[15 Year Commercial Limited Warranty](#)

## Diversity, Equity & Inclusion

We believe all humans are equal. Individually and collectively, we need to proactively create and promote opportunities that give everybody an equal footing in life. We nurture an environment where every voice and perspective can be heard, and proactively promote accessibility and inclusivity inside our network and beyond. One proof point is our ability to meet the criteria of the Social Fairness pillar of the Cradle to Cradle Product Standard. At Shaw Industries, we promote supplier participation that is reflective of Shaw's diverse customer base and local community. More than 42% of our spend\*\*\*\*\* is with small and diverse businesses. We believe having a strong Supplier Diversity Program is strategic for bringing more innovation to our businesses and opening new markets for growth.

## Material Health & Environmental Certifications

### Health & Wellbeing

Material Ingredient Transparency

[Health Product Declaration \(HPD\) | 1000 ppm Disclosure](#)

### Climate Impact

Environmental Product Declaration (EPD)

[3rd Party Certified in Accordance with ISO 14025, EN 15804, & ISO 21930:2017](#)

Total Recycled Content

0% (Pre-Consumer 0% | Post-Consumer 0%)

### Global Product Assessment

FloorScore® | Certified

Country of Origin | Imported

## Leed v4 Contribution Credits

MR Credit: Building Product Disclosure and Optimization  
 Environmental Product Declarations - Option 1: Environmental Product Declaration  
 EQ Credit: Low Emitting Materials  
 Option 1: Product Category Calculations

**RFCi Industry Average EPD (50%)**

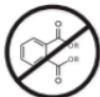
**FloorScore Certified**

[Installation Guidelines](#)  
[Maintenance Guidelines](#)

Please visit [www.shawcontract.com](http://www.shawcontract.com) for the most current warranty information. Specifications are subject to nominal manufacturing variance. Material supply and/or manufacturing processes may necessitate changes without notice.

This product is an exclusive design and may not be duplicated in any manner. Use of this design in the creation of another product design is also strictly prohibited.  
 \*\*\*\*\*Allowable spend is domestic (US) spend in categories in which we have diverse suppliers from which to choose. Compared to non-allowable spend which includes categories in which we do not have domestic, small or diverse suppliers available to meet our needs.

Visit [shawcontract.com/testing](http://shawcontract.com/testing) for more information.



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 October 5, 2023

## RESILIENT FLOORING

### Stair Treads and Risers

---

Manufacturer: Mohawk Group  
Style/Series: Round Tread w/Vis Strip - CRS07

### Attributes

---

Stair Treads and Risers

Model: Round Tread & Riser w/VisStrip

### DIMENSIONS

Dimensions: 20" x 72"  
Gauge: 1/8"

### MATERIAL / FINISH

Color: 002 - Night Skies  
Material Composition: Rubber

### PERFORMANCE

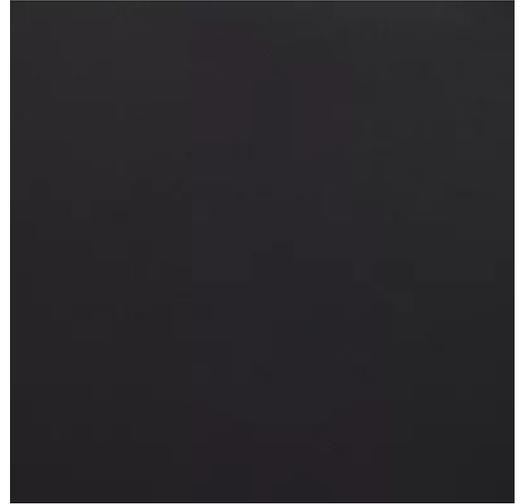
Accessories: Manufacturer's Recommended Adhesive  
Fire/Smoke Rating: ASTM E662 - < 450

### MISCELLANEOUS

### Notes

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<https://tinyurl.com/mpk9e8ax>



## RESILIENT FLOORING

### Stair Riser and Treads

---

Manufacturer: Shaw Contract  
Style/Series: Standard Stair Tread

### Attributes

---

Stair Riser and Treads

Model: 247VS - Standard Stair Tread 6'

### DIMENSIONS

Dimensions: 2 in W × 72 in L × 20 in D  
Thickness: 1/8"

### MATERIAL / FINISH

Color: 066 Night  
Material Composition: Rubber

### PERFORMANCE

Accessories: Manufacturer's Recommended Adhesive  
Best Practices: FloorScore Certified

### MISCELLANEOUS

Warranty: 1 Year Commercial Limited Warranty

### Notes

---

<https://tinyurl.com/3pvt8vww>





STAIR TREAD (246VS) IN NIGHT (00066)

## Colorways



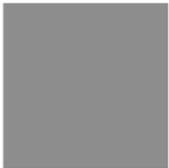
Black 00001



Night 00066



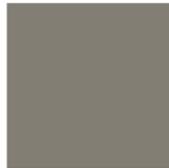
Tan 00048



Granite 00005



Dark 00054



Cement 00004



Bark 00043

## Suggested Applications

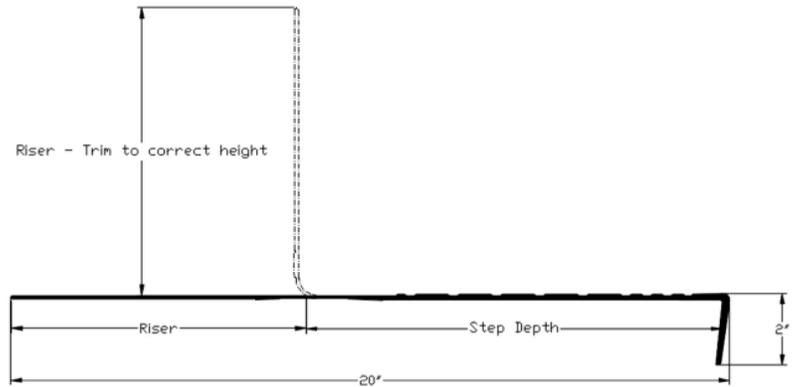
Commercial Stairwell



For more information about Stair Treads, contact your local Shaw Contract account manager, visit us at [www.shawcontract.com](http://www.shawcontract.com) or call 877-502-SHAW.

# Standard Stair Tread

The standard stair tread is a rubber, slip-resistant one-piece integrated tread and riser that is intended to increase safety conditions in stairwells. The standard tread comes in two sizes — 4 foot and 6 foot.



## Features & Benefits

- Slip resistance for increased safety
- Mask substrate irregularities
- Available on GSA Contract
- FloorScore Certified
- 1 Year Commercial Limited Warranty

## Specifications

| Style Name         | Standard Stair Tread 4'    | Standard Stair Tread 6'    |
|--------------------|----------------------------|----------------------------|
| Style Number       | 246VS                      | 247VS                      |
| Construction       | Thermoplastic Rubber       | Thermoplastic Rubber       |
| Overall Thickness  | 1/8" (3.175 mm)            | 1/8" (3.175 mm)            |
| Nominal Dimensions | 2 in W x 48 in L x 20 in D | 2 in W x 72 in L x 20 in D |
| Packaging          | 6 pieces per box           | 4 pieces per box           |

## Recommended Adhesive + Caulk

### Adhesive: 117CA

One gallon – Solvent-free, acrylic adhesive. Applied with 1/16" x 1/16" x 1/16 Square notch trowel. Spread rate is approximately 125-150 sf/gal or 75-90 linear feet of stair tread, including riser area.

### Caulk: 118CA

One tube (13.5 oz.) – Two-component solvent-free, epoxy nose caulking adhesive. Applied as a 3/8" bead beneath stair tread nosing. Coverage is approximately 25 feet per tube.

SF - Registration Equipment (Safes)

## REGISTRATION EQUIPMENT (SAFES)

### Wall-Mount Drop Box W500

---

Manufacturer: Durabox  
Style/Series: W500 Indoor Wall-Mountable Deposit Dropbox - DuraBox

#### Attributes

---

Wall-Mount Drop Box W500

Model: Wall-Mount Drop Box W500

#### DIMENSIONS

Width: 12" W  
Height: 15" H  
Depth: 4-1/4" D

#### MATERIAL / FINISH

Color: Black  
Material Composition: Steel

#### MISCELLANEOUS

Warranty: 1 Year Manufacturer (when used indoors only)



TA - Assembly, Toilet Accessories

**ASSEMBLY, TOILET ACCESSORIES**

---

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: Laundry



1 NESTED ITEMS

| Code/Tag  | Product Name              | Quantity |
|-----------|---------------------------|----------|
| TA-900-BW | Bobrick Swing-Up Grab Bar | 0.0      |

---

Manufacturer: Bobrick  
Style/Series: Bobrick Swing-Up Grab Bar

---

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

### Attributes

Item Type: Swing-Up Grab Bar  
Model: B-4998

#### **MATERIAL/FINISH**

Finish: Satin Stainless Steel

#### **PERFORMANCE**

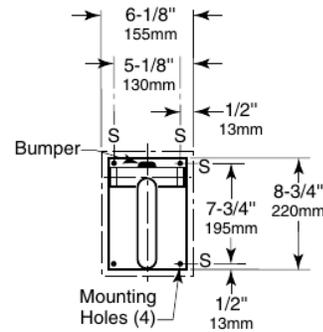
Accessibility Compliance : ADA

#### **NOTES**

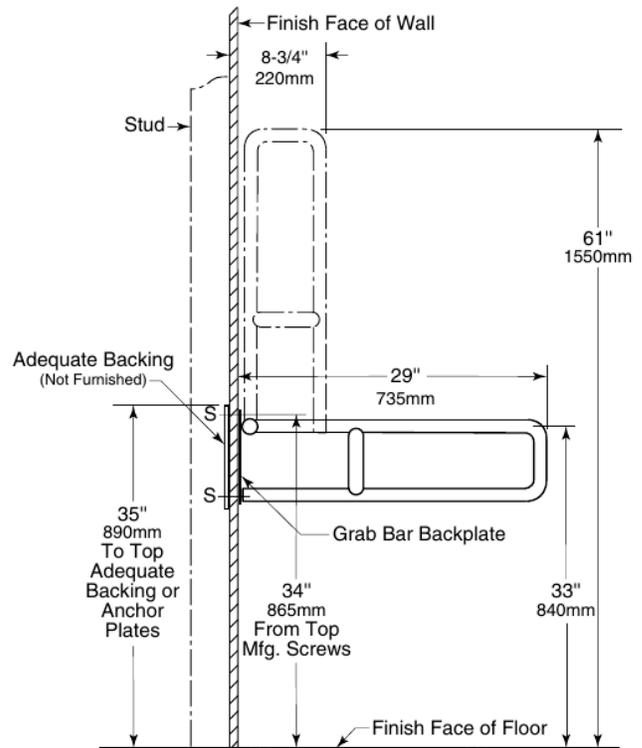
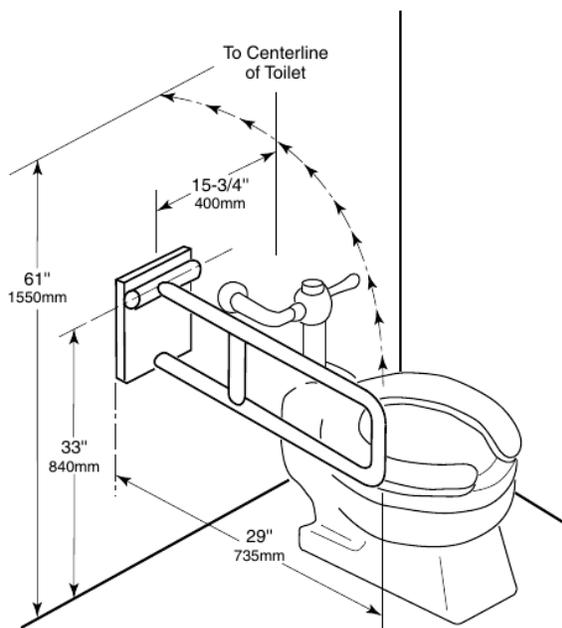
Warranty: See Website



Specify Finish Required:  Satin-finish  
 Satin-finish with peened gripping surface; add suffix .99 to model number



Grab Bar Backplate



### MATERIALS:

**Grab Bar** — 18-8, Type-304, 18-gauge (1.2mm) stainless steel tubing with satin-finish. 1-1/4" (32mm) outside diameter. Ends are heliarc welded to flanges.

**Backplate** — 18-8, Type-304, 3/16" (5mm) thick, satin-finish stainless steel with four screw holes for attachment to wall.

continued . . .

**OPERATION:**

Swing-up grab bar is manually raised for approach or departure and lowered to horizontal position for support; once grab bar is raised to the full upright (vertical) position, counterweighted design prevents grab bar from falling back down to the full horizontal position.

**STRENGTH:**

Swing-up grab bar can support loads in excess of 500 pounds (227kg) if properly installed.

**Safety Warning: Grab bars are no stronger than the anchors and walls to which they are attached and, therefore, must be firmly secured in order to support the loads for which they are intended. To avoid potential injury, the building owner or maintenance personnel should remove the grab bar from service if the grab bar is not adequately secured to wall or if there is any observe damage to the welds.**

**INSTALLATION:**

Provide concealed anchor device or backing as specified or required in accordance with local building codes before wall is finished. Fasten grab bar to anchor device or backing. Concealed anchor devices and mounted screws are not included with Bobrick grab bars and must be specified as an optional accessory.

**SPECIFICATION:**

Grab bar shall be Type-304 stainless steel with satin finish. Grab bar shall have 18-gauge (1.2mm) wall thickness and 1-1/4" (32mm) outside diameter. Backplate shall be 3/16" (5mm) thick stainless steel, equipped with screw holes for attachment to wall. Swing-up grab bar shall be manually raised for approach or departure and lowered to horizontal position for support; counterweighted design shall prevent grab bar from falling back down to the full horizontal position once grab bar is raised to the full upright (vertical) position.

**Swing-Up Grab Bar shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

**ASSEMBLY, TOILET ACCESSORIES**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: PUB RR - Single Stall

**TOILET  
ACCESSORIES**

11 NESTED ITEMS

| Code/Tag  | Product Name            | Quantity |
|-----------|-------------------------|----------|
| TA-104-FE | PFGB18BS4               | 0.0      |
| TA-105-FE | PFGB36BS4               | 0.0      |
| TA-106-FE | PFGB42BS4               | 0.0      |
| TA-201-BW | B-686                   | 0.0      |
| TA-400-SH | SHBWRH, SHBWRH2         | 0.0      |
| TA-400-BW | B-7671 Single Robe Hook | 0.0      |
| TA-402-BW | B-165                   | 0.0      |
| TA-800-KK | Kb300 01Ss              | 0.0      |
| TA-801-BW | B-270                   | 0.0      |
| TA-802-BW | B-43944                 | 0.0      |
| TA-803-BW | B-2111                  | 0.0      |

## 18 in. Grab Bar in Polished Stainless

---

Manufacturer: ProFlo  
Style/Series: PFGB18BS4

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

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18 in. Grab Bar in Polished Stainless

Model: PFGB18BS4

### DIMENSIONS

Length: 18"  
Diameter: 1-1/4"

### MATERIAL / FINISH

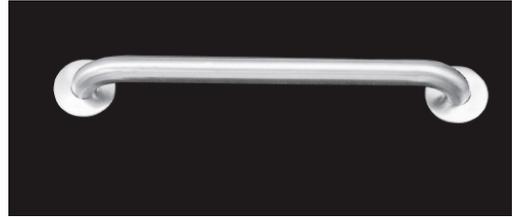
Finish: Polished Stainless  
Material Composition: Stainless Steel

### PERFORMANCE

Accessories: WRESGBW35 WingIts Grab Bar Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

### MISCELLANEOUS

Lead Time: TBD  
Warranty: s five years in commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar



### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

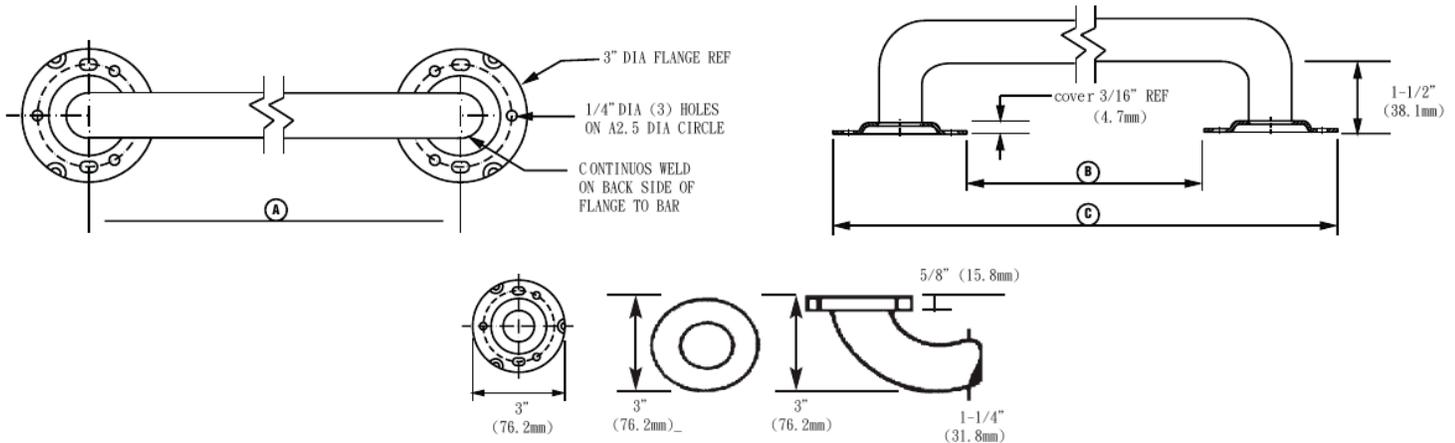


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

*Note: Stainless steel handle bar MUST BE attached to wall stud.*



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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CAP 04/17-A

## Stainless Steel Grab Bar

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Manufacturer: Proflo  
Style/Series: PFGB36BS4

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Stainless Steel Grab Bar

Model: PFGB36BS4

### DIMENSIONS

Length: 36"  
Diameter: 1-1/4"

### MATERIAL / FINISH

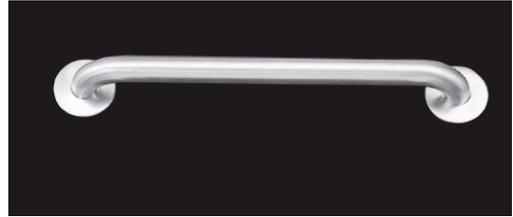
Finish: Polished Stainless  
Material Composition: Stainless Steel

### PERFORMANCE

Recommended Accessories: WRESGBW35: Winglts Grab Bar  
Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

### MISCELLANEOUS

Lead Time: TBD  
Warranty: five years in commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar

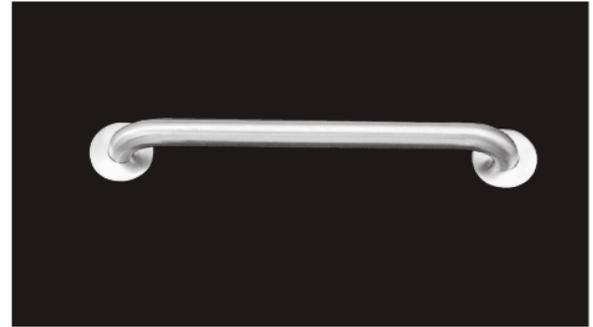


### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

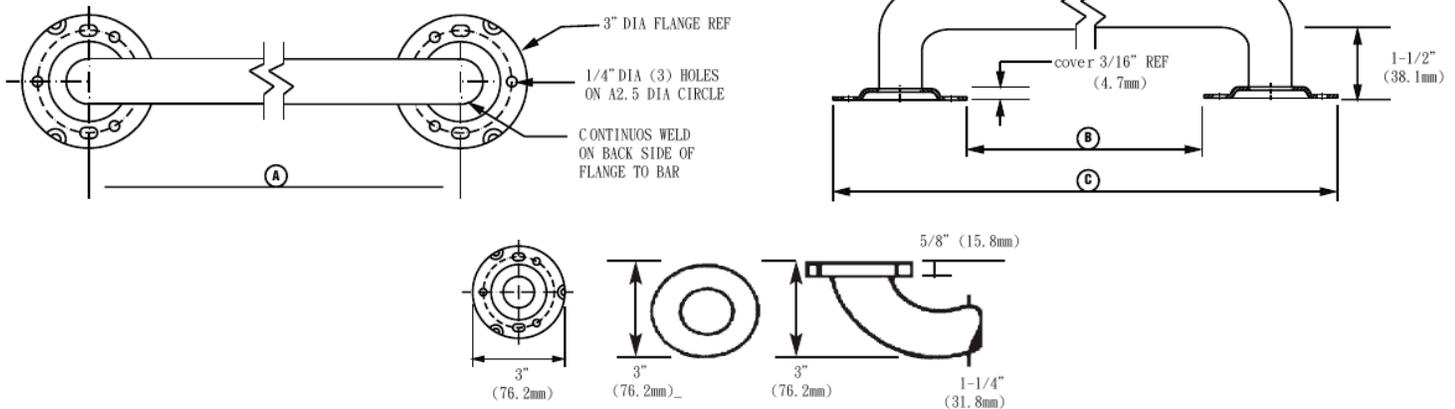


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

Note: Stainless steel handle bar **MUST BE** attached to wall stud.



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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CAP 04/17-A

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**42**

Manufacturer: Proflo  
Style/Series: PFGB42BS4

---

**Sales Rep****Primary**

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

**Attributes**

42" Stainless Steel Grab Bar

Model: PFGB42BS4

**DIMENSIONS**

Length: 42"  
Diameter: 3"  
Depth: 1 1/2"

**MATERIAL / FINISH**

Finish: Polished  
Material Composition: Stainless Steel

**PERFORMANCE**

Recommended Accessories: WRESGBW35: WingIts Grab Bar  
Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

**MISCELLANEOUS**

Lead Time: TBD  
Warranty: Five years in Commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar

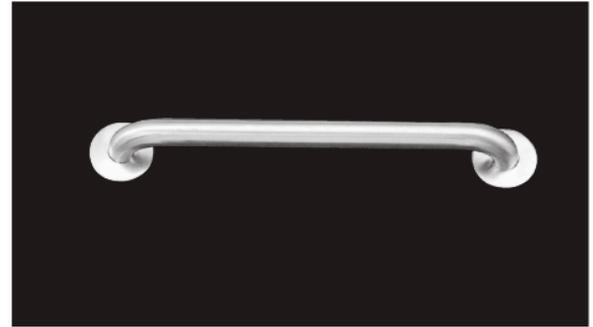


### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

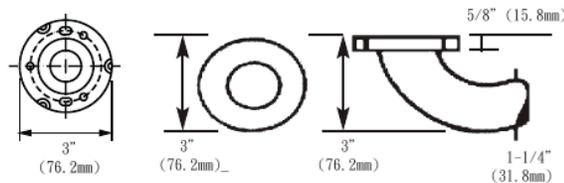
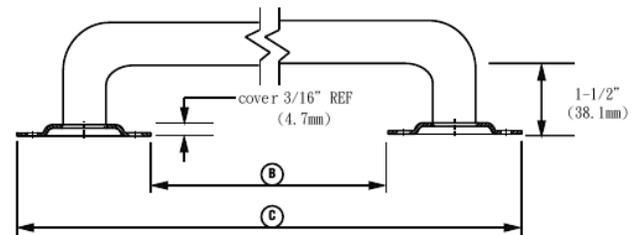
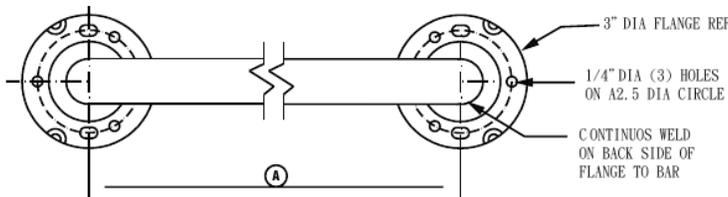


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

Note: Stainless steel handle bar **MUST BE** attached to wall stud.



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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## Double-roll toilet tissue dispenser s...

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Manufacturer: Bobrick Washroom Equipment  
Style/Series: B-686

## Sales Rep

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### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter.

Type: Toilet Tissue Holder - Double (Heavy Duty)

### DIMENSIONS

Width: 12-1/2"  
Height: 2"  
Depth: 3-15/16"

### MATERIAL/FINISH

Color: Stainless Steel  
Finish: Satin

### MISCELLANEOUS

Warranty: Parts Warranty - Limited Lifetime

### CUSTOM FIELDS

Content: NA  
Finish: NA  
Quality Standards: NA  
Mounting Hardware: NA  
Product: NA

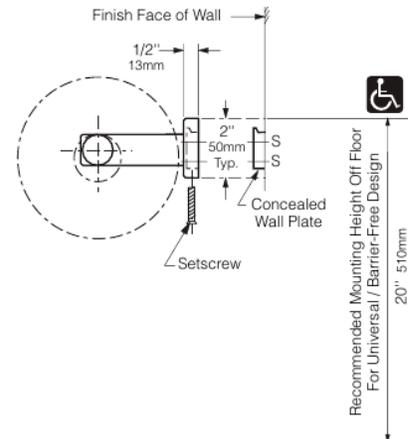
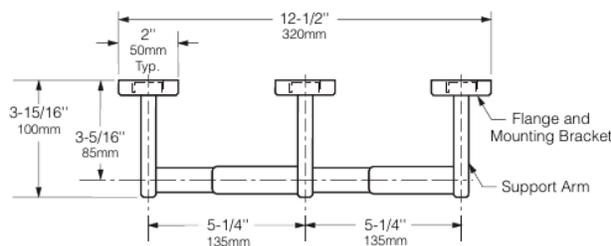




# DOUBLE-ROLL TOILET TISSUE DISPENSER

## B-686 B-6867

Specify Model Required:  Model B-686 Bright polished stainless steel  
 Model B-6867 Satin-finish stainless steel



### MATERIAL:

**Flanges and Support Arms (3)** — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 16-gauge (1.6mm) stainless steel mounting bracket is welded inside each flange. Secured to wall plate with setscrew.

**Concealed Wall Plates (3)** — 18-8 S, type-304, 16-gauge (1.6mm) stainless steel.

**Spindles (2)** — Chrome-plated plastic. Equipped with heavy-duty internal springs.

*Designer's Note:* Theft-resistant spindles, which are removable only with special key provided, are available as optional accessories. To specify, add suffix .60 to model number. Example B-686.60.

### INSTALLATION:

To remove concealed wall plates from back of flanges and mounting brackets, loosen setscrews. Mount each wall plate with prongs at top; secure with sheet-metal screws furnished by manufacturer at points indicated by an S. Engage mounting brackets onto prongs of wall plate, then secure into position by tightening setscrews at bottom of flanges.

**Note:** Center-to-center of concealed wall plates must be within 1/16" (1.6mm) of dimension shown.

For partitions with particle-board or other solid core: Secure with sheet-metal screws furnished by manufacturer or provide through-bolts, nuts, and washers.

For hollow-core metal partitions: Provide solid backing into which the furnished sheet-metal screws can be secured. If two units are installed back-to-back, then provide threaded sleeves and machine screws for the full thickness of partition.

For masonry walls: Provide fiber plugs or expansion shields for use with sheet-metal screws furnished by manufacturer, or provide 1/8" (3mm) toggle bolts or expansion bolts.

For plaster or dry wall construction: Provide concealed backing to comply with local building codes, then secure the unit with sheet-metal screws furnished.

### SPECIFICATION:

Double-roll toilet tissue dispenser shall be type-304 stainless steel with \_\_\_\_\_ (insert one: bright polished or satin) finish. Unit shall accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter (1800 sheets). Flanges shall be equipped with concealed, 16-gauge (1.6mm) stainless steel mounting brackets that are secured to concealed stainless steel wall plates with stainless steel setscrews. \*Spindles shall be equipped with a heavy-duty internal spring. Manufacturer's service and parts manual shall be provided to the building owner/manager upon completion of project.

*\*To specify theft-resistant spindles as an optional accessory, add to specification:* Theft-resistant spindles shall be removable only with special key provided.

Double-Roll Toilet Tissue Dispenser shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

## Berwyn Robe Hook

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Manufacturer: Signature Hardware  
Style/Series: SHBWRH, SHBWRH2

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Berwyn Robe Hook

Model: Code: SHBWRH, SHBWRH2

### DIMENSIONS

Length: 1-15/16"

Height: 2-1/16"

Depth: 1-7/8"

Base Plate Length: 1-15/16"

Base Plate Height: 1-15/16"

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Metal

### MISCELLANEOUS

Lead Time: TBD

Warranty: [signaturehardware.com/warranty](http://signaturehardware.com/warranty)

### CUSTOM FIELDS

Mounting Hardware: Included



# BERWYN ROBE HOOK

---

SKU: 953660

Code: SHBWRH, SHBWRH2



## FEATURES

Installation Type: Wall Mount

Design: Modern

Material: Metal

Length: 1-15/16"

Height: 2-1/16"

Depth: 1-7/8"

Base Plate Length: 1-15/16"

Base Plate Height: 1-15/16"

Base Plate Diameter: 1-15/16"

Mounting Hardware Included: Yes

Mounting Hardware Concealed: Yes

Assembly Required: Yes

## CODES/STANDARDS

REVISED 9/18/2023

# BERWYN ROBE HOOK

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SKU: 953660

Code: SHBWRH, SHBWRH2

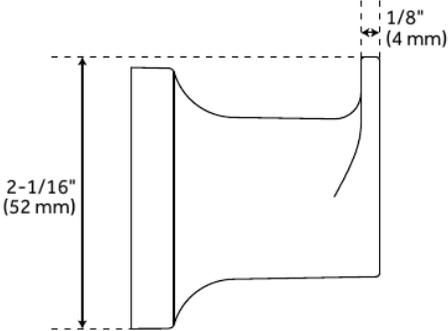
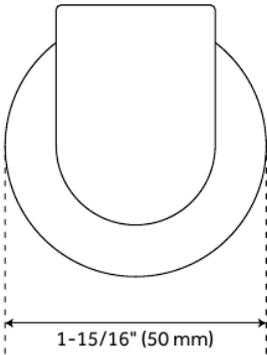
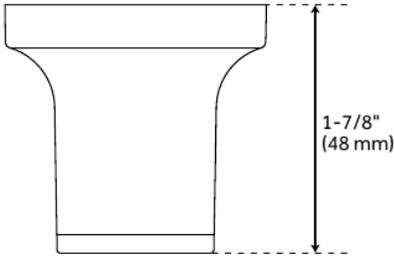


## ADDITIONAL FEATURES

REVISED 9/18/2023

# BERWYN ROBE HOOK

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All dimensions and specifications are nominal and may vary. Use actual products for accuracy in critical situations.

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Manufacturer: Bobrick  
Style/Series: B-7671 Single Robe Hook

---

### Sales Rep

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

### Attributes

Item Type: Single Robe Hook  
Model: B-7671  
Finish: Stainless Steel  
Warranty: See Website



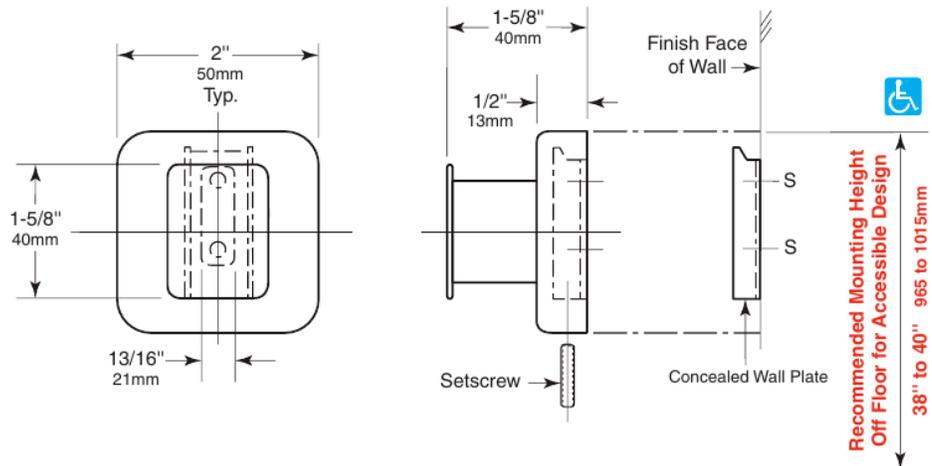


# Technical Data

# SURFACE-MOUNTED ROBE HOOK

# B-7671 B-76717

- Specify Model Required:  Model B-7671 Bright polished stainless steel  
 Model B-76717 Satin-finish stainless steel



### MATERIALS:

**Flange & Support Arm** — 18-8, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 18-gauge (1.2mm) stainless steel mounting bracket. All-welded construction. Secured to wall plate with a stainless steel setscrew.

**Concealed Wall Plate** — 18-8, type-304, 19-gauge (1.0mm) stainless steel.

**Cap** — 18-8, type-304, 14-gauge (2.0mm) stainless steel. Welded to the support arm.

### INSTALLATION:

To remove concealed wall plate from back of flange and mounting bracket, loosen setscrew. Mount wall plate so prongs are at top; secure with two sheet-metal screws, furnished by manufacturer, at points indicated by an S. Engage mounting bracket onto prongs of wall plate, then secure unit into position by tightening setscrew at bottom of flange.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

For partitions with particle-board or other solid core, secure with sheet-metal screws furnished, or provide through-bolts, nuts, and washers. For hollow-core metal partitions, provide solid backing into which the furnished sheet-metal screws can be secured.

### SPECIFICATION:

Surface-mounted robe hook shall be type-304 stainless steel with \_\_\_\_\_ (insert one: bright polished or satin) finish. Flange and support arm shall be 22 gauge (0.8mm) and equipped with a concealed, 18-gauge (1.2mm) mounting bracket that is secured to a concealed, 19-gauge (1.0mm) wall plate with a stainless steel setscrew. Cap shall be 14 gauge (2.0mm), welded to the support arm.

Surface-Mounted Robe Hook shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

**Mirror with stainless steel frame.**

---

Manufacturer: Bobrick Washroom Equipment  
Style/Series: B-165

**Sales Rep**

---

**Primary**

Steven Grande  
Email: steven.grande@bobrick.com

**Attributes**

---

Mirror with stainless steel frame.

Type: Mirror w/SS Frame

**DIMENSIONS**

Dimension Explanation: 1/2" x 1/2" frame

**MATERIAL/FINISH**

Color: Stainless Steel

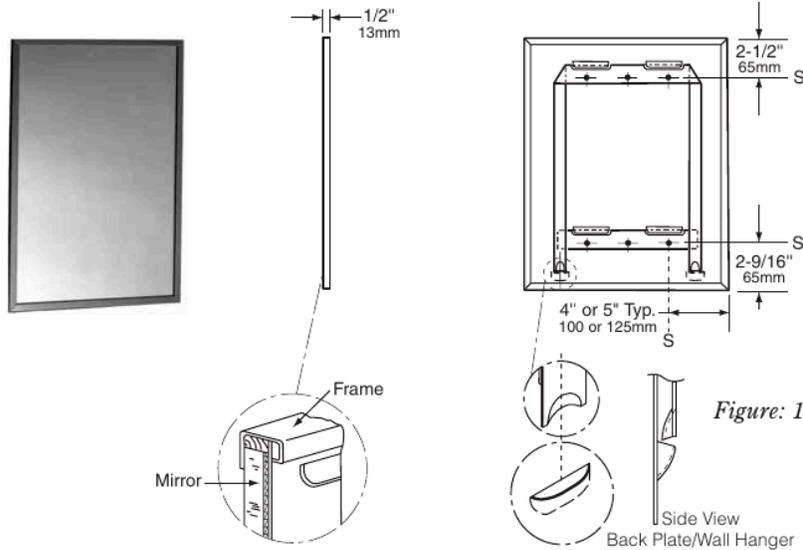
Finish: Satin

**PERFORMANCE**

Quality Standards: Federal Spec DD-M-411C, ASTM C-1036-91



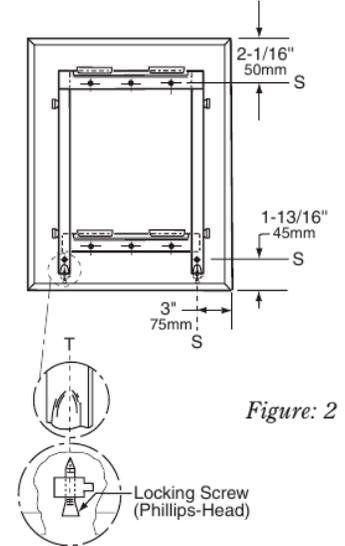
### SNAP LOCKING DESIGN (Rear View)



#### STANDARD B-165 SERIES MIRRORS

| MODEL NO.  | OVERALL SIZE |             |
|------------|--------------|-------------|
|            | W            | H           |
| B-165 1624 | 16" (41cm)   | 24" (61cm)  |
| B-165 1824 | 18" (46cm)   | 24" (61cm)  |
| B-165 1830 | 18" (46cm)   | 30" (76cm)  |
| B-165 1836 | 18" (46cm)   | 36" (91cm)  |
| B-165 2430 | 24" (61cm)   | 30" (76cm)  |
| B-165 2436 | 24" (61cm)   | 36" (91cm)  |
| B-165 2448 | 24" (61cm)   | 48" (122cm) |
| B-165 2460 | 24" (61cm)   | 60" (152cm) |

### SCREW LOCKING DESIGN (Rear View)



#### STANDARD B-165 SERIES MIRRORS

| MODEL NO.  | OVERALL SIZE |            |
|------------|--------------|------------|
|            | W            | H          |
| B-165 3636 | 36" (91cm)   | 36" (91cm) |
| B-165 4836 | 48" (122cm)  | 36" (91cm) |
| B-165 6036 | 60" (152cm)  | 36" (91cm) |

#### All Other Size Mirrors

#### Designer's Notes:

- Special-order sizes available on request.
- Maximum size mirror available, 72" x 60" (183 x 152cm); minimum size, 12" x 12" (30 x 30cm).
- All Bobrick framed mirrors are manufactured to overall width and height dimensions. EXAMPLE: A 24" x 36" (61 x 91cm) mirror will be furnished 24" x 36" (61 x 91cm) outside-of-frame to outside-of-frame.
- To specify special sizes use Series Number followed by width then height in inches. EXAMPLE: B-165 2024.
- Bobrick framed mirrors are manufactured to a tolerance 1/8" (3.2mm).
- For sufficient space to lift mirror onto wall hanger(s), provide 3-1/4" (85mm) minimum clearance above center line of mounting screw holes.
- Provide 1" (25mm) minimum clearance at bottom of mirror for engaging locking screws and 1" (25mm) clearance on each side.

#### MATERIALS:

**Frame** — Type-430 stainless steel, 1/2" x 1/2" x 3/8" (13 x 13 x 9.5mm) channel with 1/4" (6mm) return at rear with bright polished finish. One piece frame with 90 degree mitered corners. Galvanized steel back has integral horizontal hanging brackets near the top for hanging the mirror and near the bottom to prevent the bottom of the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger. In Screw Locking Design (see figure 2), concealed Phillips-head locking screws securely fasten mirror to wall hanger.

**Mirror** — No. 1 quality, 1/4" (6mm) select float glass: selected for silvering, electrolytically copper-plated by the galvanic process, and guaranteed for 10 years against silver spoilage. Corners are protected by friction-absorbing filler strips; back is protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding.

**Concealed Wall Hanger** — 20-gauge (0.9mm) galvanized steel. Incorporates lower support member, forming rigid rectangle, which engages lower backplate louvers to keep bottom of mirror against wall.

continued . . .

## INSTALLATION:

Mount wall hanger on wall with screws (furnished by manufacturer) at points indicated by an *S*. For plaster or dry wall construction, provide backing to comply with local building codes, then secure wall hanger with screws furnished. When providing a concealed backing, allow backing to cover minimum range of mounting hole locations shown on drawing. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts. Hang mirror on wall hanger with all four backplate louvers engaged behind horizontal wall hanger members. Hang mirror on wall hanger with all four backplate louvers engaged behind horizontal wall hanger members. To do this, mirror must be centered in front of the wall hanger horizontally, pressed flat against the wall approximately 1" (25mm) above final position and then lowered into final position.

**Snap Locking Design** — Locking devices automatically secure mirror to concealed wall hanger when it is lowered into final position. Locking devices may be unlocked by inserting two flat blade screwdrivers behind each side of mirror near the bottom or under the bottom of the mirror and pulling mirror bottom forward and then up (see figure 3).

**Screw Locking Design** — Lock mirror to wall hanger by tightening Phillips-head locking screws that are concealed in the bottom of frame at points indicated by a *T*. Mirror may be unlocked from wall hanger by loosening locking screws and lifting mirror off of concealed wall hanger (see figure 4).

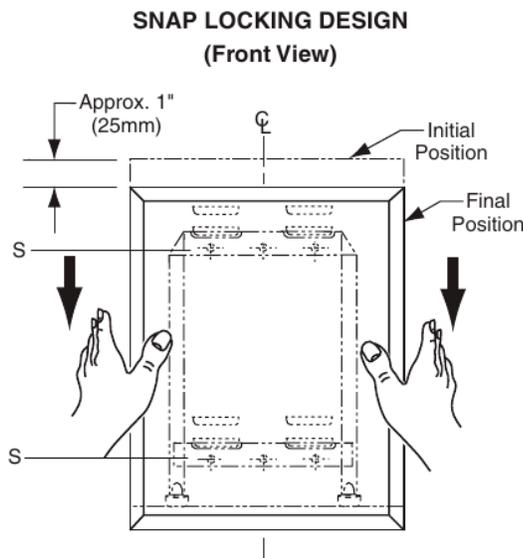


Figure: 3

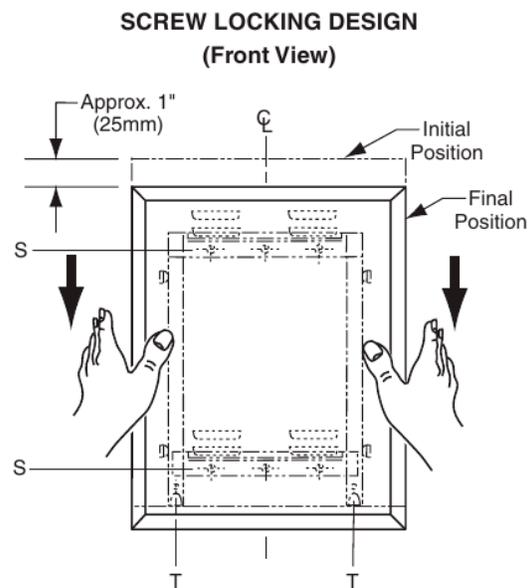


Figure: 4

## SPECIFICATION:

Mirror shall have a one-piece type-430 stainless steel channel frame, 1/2" x 1/2" x 3/8" (13 x 13 x 9.5mm), with 90° mitered corners; all exposed surfaces shall have bright polished finish. Select float glass mirror shall be guaranteed for 10 years against silver spoilage. Corners shall be protected by friction-absorbing filler strips and the back shall be protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding. Galvanized steel back shall have integral horizontal hanging brackets located at top and bottom for mounting on concealed rectangular wall hanger to prevent the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger. Mirror shall be removable from the wall.

**Framed Mirror shall be Model B-165 \_\_\_\_\_ (insert width and height) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

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Manufacturer: Koala Kare Baby Changing Stations  
Style/Series: Kb300 01Ss

---

## Sales Rep

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

## Attributes

Item Type: Baby Changing Station  
Model: KB300-01SS

### DIMENSIONS

Width: 35 15/16"

Depth: 4"

Height: 20 3/4"

### MATERIAL/FINISH

Color: 01 Grey

Finish: 304 Brushed Stainless Steel

Material Composition: Microban antimicrobial embedded plastic changing surface

### PERFORMANCE

Accessibility Compliance : ADA

Quality Standards: ICC A117.1, ASTM F2285-04(16), ANSI Z535.4

### NOTES

Warranty: 5-year limited warranty





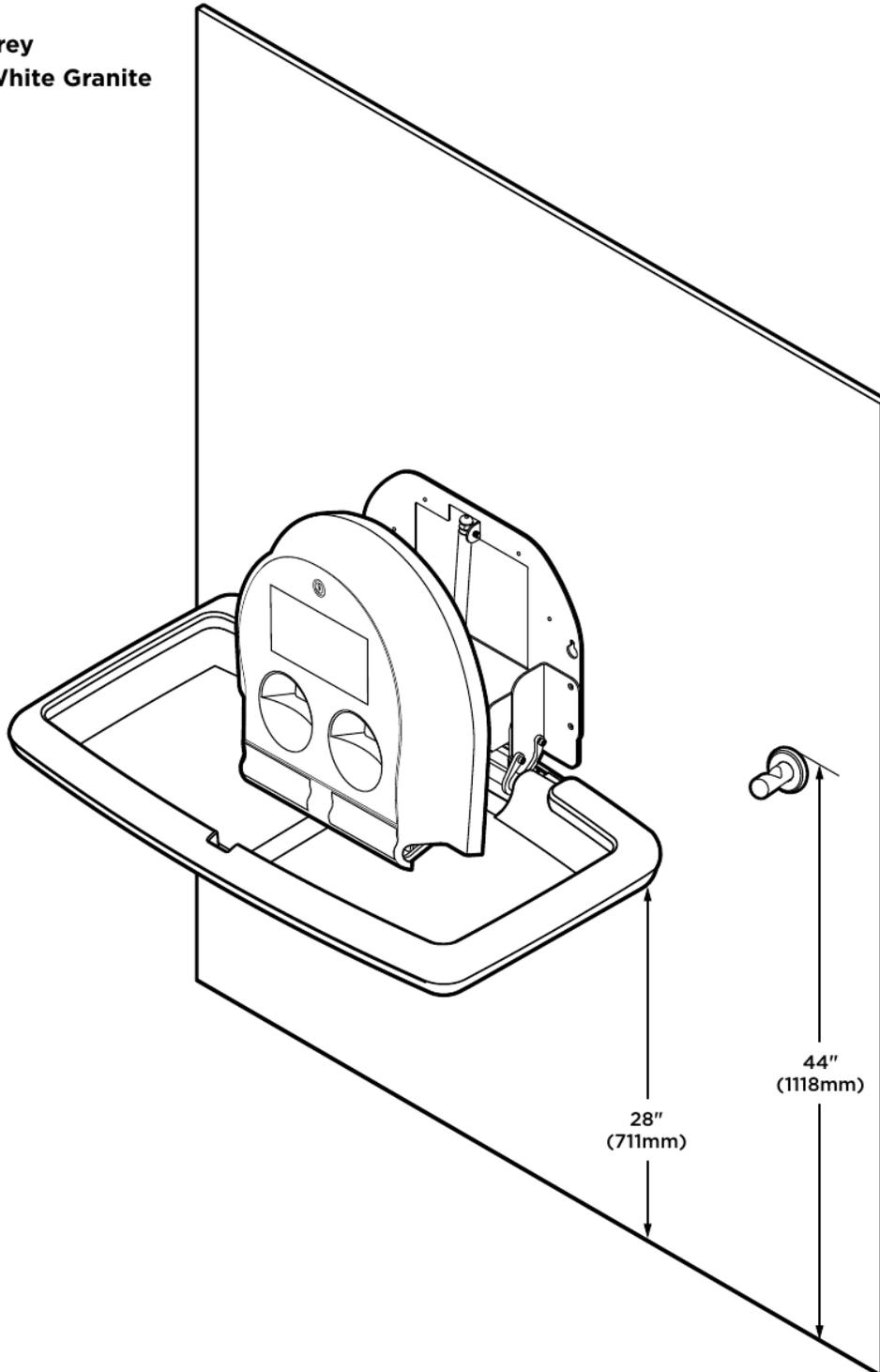
# KB300-SS Baby Changing Station

## Technical Data Sheet

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### Color

- KB300-01SS Grey
- KB300-05SS White Granite

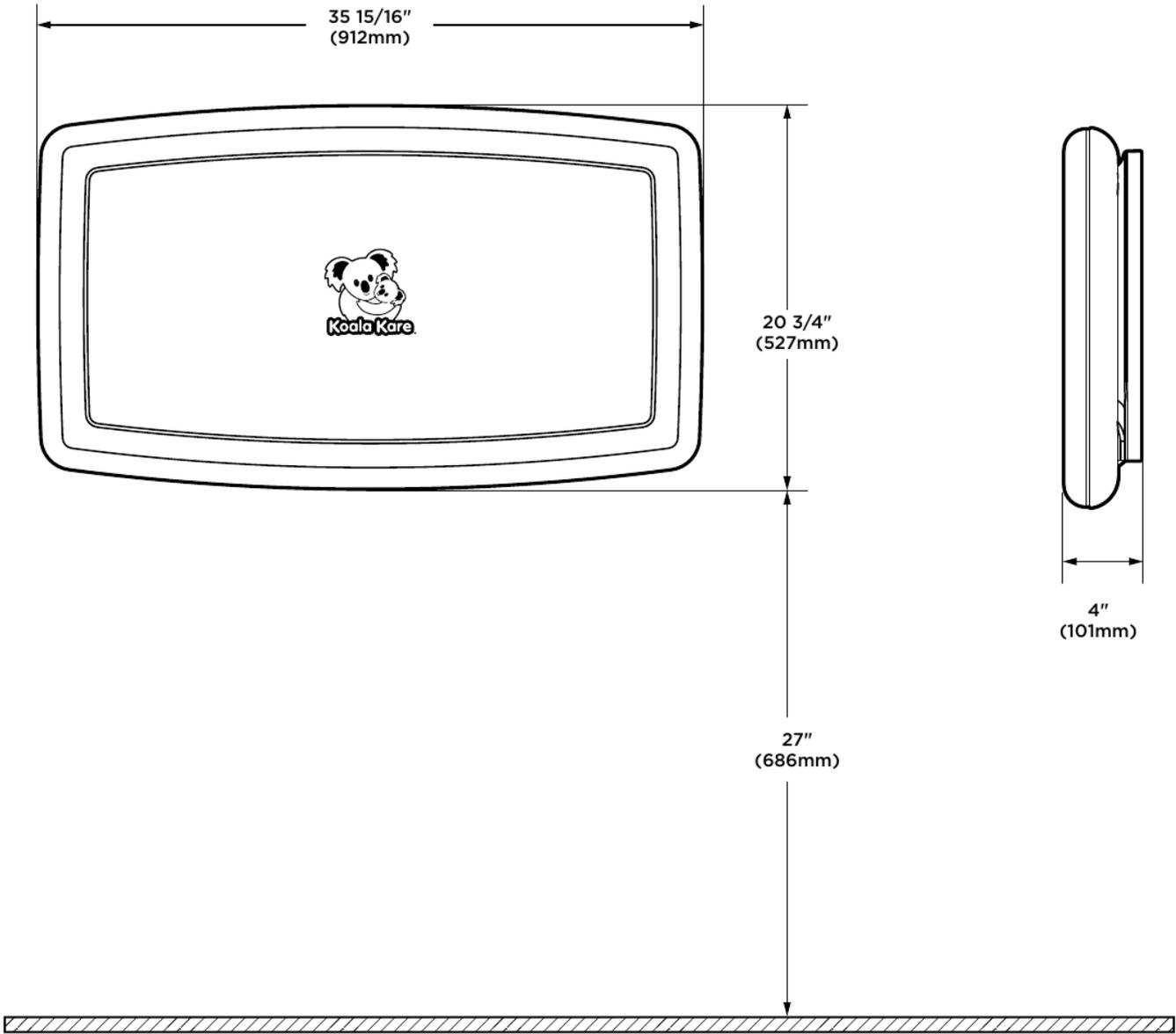


\*Diagrams are not to scale.



# KB300-SS Baby Changing Station

## Closed Position

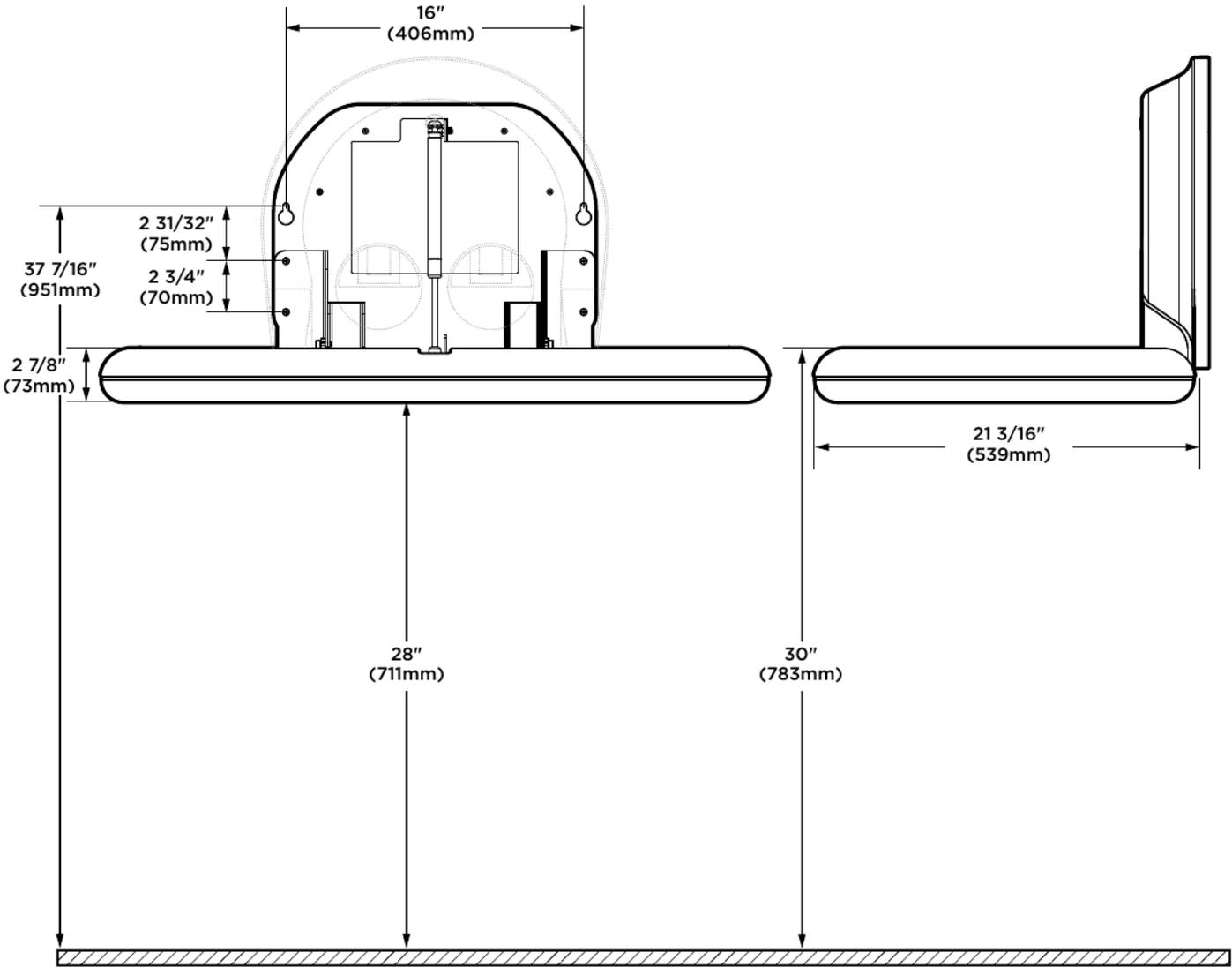


\*Diagrams are not to scale.



# KB300-SS Baby Changing Station

## Open Position



\*Diagrams are not to scale.



# KB300-SS Baby Changing Station Information

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## Material

Injection-molded polypropylene with Microban® antimicrobial additive embedded into the bed surface. Type 304 brushed stainless steel finish veneer. Reinforced steel-on-steel hinge mechanism and metal mounting chassis with mounting hardware included. Labeled usage instructions and safety messages in four languages. Optional Braille label available. Contoured changing surface area is 535 sq. in (3452 sq. cm) and comes complete with impervious TPU safety strap and solid stainless steel external bag hook. Dual cavity liner dispenser holds approximately 50 KB150-99 bed liners.

## Operation

Concealed pneumatic cylinder and metal mounting chassis provides controlled, slow opening and closing of bed. Polypropylene is easy to clean and resists odors and bacterial growth. Complies with ASTM static load performance requirements when properly installed. Internal liner dispenser with integrated spring tab dispensed one liner at a time.

**Warning:** To ensure that the unit supports the intended loads, baby changing stations must be properly installed according to the manufacturer's instructions.

## Specification

Baby changing station body shall be durable, injection-molded polypropylene. Design of unit shall be surface-mounted. Front surface of unit shall have a 304 brushed stainless steel finish veneer. Unit shall be equipped with a pneumatic cylinder for controlled opening and closing of bed. Bed shall be secured to metal mounting chassis with a concealed steel-on-steel hinge. No hinge structure shall be exposed on interior or exterior surfaces. Unit shall have mounting hardware included. Unit shall have Microban® antimicrobial embedded into plastic material on the changing surface. Unit shall comply with ADA regulations when properly installed. Bed shall have smooth concave changing area with a safety strap and external stainless steel hook for bags or purse provided.

The design and manufacture of Koala products is intended to be compliant with the 2010 ADA Standards for Accessible Design and the 2009 ICC A117.1, Accessible and Usable Buildings and Facilities. Unit shall conform to ASTM F2285-04(16) Standard Safety Performance Specification for Diaper Changing Tables for Commercial Use, ANSI Z535.4 Product Safety Signs and Labels, EN 12221:2008+A1: 2013. Unit shall have a built-in Liner Dispenser for use with 3-ply chemical free biodegradable bed liners, instructional graphics and safety messages in 4 languages. Unit shall be backed by manufacturer's 5-year limited warranty on materials and workmanship and include a provision for replacement caused by vandalism.

Unit shall be manufactured in the U.S.A.

## ADA Requirements

Additional information on how this product complies with ADA requirements can be found in the *KB300 & KB301 Baby Changing Stations Accessibility Compliance* document on [www.koalabear.com](http://www.koalabear.com).

*The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions without notice.*

**Koala Kare Products**  
**A Division of Bobrick**

6982 South Quentin Street, Centennial, CO 80112-3945  
**Main:** 303.539.8300 | **Toll Free:** 888.733.3456 | **Fax:** 303.539.8399  
**Website:** koalabear.com | **Email:** customerservice@koalabear.com

## Contura series surface mounted sanita...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-270

## Sales Rep

---

### Primary

Steven Grande  
Email: steven.grande@bobrick.com

### Secondary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Contura series surface mounted sanitary napkin disposal

Type: Sanitary Napkin Disposal - Wall Mtd

### DIMENSIONS

Width: 7-1/2"  
Height: 10"  
Depth: 3-13/16"

### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Satin

### CUSTOM FIELDS

Finish: NA  
Content: NA  
Mounting Hardware: NA  
Product: NA



## Contura Series Recessed Paper Towel D...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-43944

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Contura Series Recessed Paper Towel Dispenser and Waste Receptacle

Type: Paper Towel Dispenser and Disposal - Recessed

### DIMENSIONS

Width: 17-7/16"  
Height: 56-1/4"  
Depth: 8"

### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Satin

### CUSTOM FIELDS

Finish: NA  
Content: NA  
Mounting Hardware: NA  
Product: NA



### 40 Oz Classic Series Surface Mounted ...

---

Manufacturer: Bobrick  
Style/Series: B-2111

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

### Attributes

---

40 Oz Classic Series Surface Mounted Soap Dispenser

Type: N/A

#### DIMENSIONS

Width: 4-3/4"  
Height: 8-1/8"  
Depth: 3.5"

#### PERFORMANCE

Quality Standards: TBD

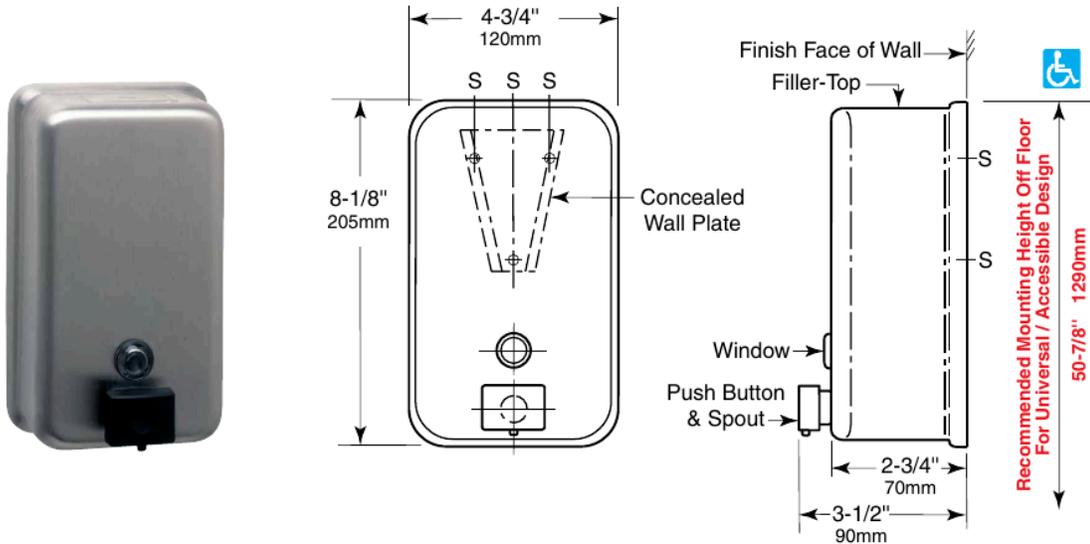
#### MISCELLANEOUS

Lead Time: TBD  
Warranty: TBD

#### CUSTOM FIELDS

Finish: Satin  
Content: Stainless Steel  
Mounting Hardware: NA  
Product: NA





**MATERIALS:**

**Container** — 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin-finish. Body is drawn, one-piece, seamless construction. Back plate has mounting bracket attached. Furnished with concealed wall plate. Equipped with a clear acrylic refill-indicator window and a locked, hinged stainless steel lid for top filling. Capacity: 40-fl oz (1.2-L).

**Valve** — Black molded plastic push button and spout. Soap head-holding mushroom valve. Stainless steel spring. U-packing seal and duckbill. Antibacterial-soap-resistant plastic cylinder.

**OPERATION:**

Corrosion-resistant valve dispenses commercially marketed all-purpose hand soaps. To prevent corrosion of the tank, use only chloride-free pH-neutral liquid soaps. Valve is operable with one hand, without tight grasping, pinching, or twisting of the wrist, and with less than 5 pounds of force (22.2 N) to comply with accessible design guidelines (including ADAAG in the U.S.A.). Window indicates when refill is required. The locked, hinged lid opens for top filling only with special key provided. Concealed, vandal-resistant mounting.

**INSTALLATION:**

Secure wall plate to the wall with three sheet-metal screws, furnished by manufacturer, at points indicated by an S. Slide mounting bracket of container down onto wall plate and secure unit with furnished locking-screw. For plaster or dry wall construction, provide concealed backing to comply with local building codes and secure with sheet-metal screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

**Note:** Surface-mount the dispenser plumb and true with valve 6" (150mm) to right or left of lavatory center. Provide 4" (100mm) minimum clearance from the lid to the underside of any horizontal projection. Push buttons should be located 44" (1120mm) maximum above the finish floor.

**SPECIFICATION:**

Surface-mounted soap dispenser shall be Type-304 stainless steel with satin-finish. Corrosion-resistant valve shall dispense commercially marketed all-purpose hand soaps, non-iodine based soaps and do not use alcohol based sensitizers. To prevent corrosion of the tank, use only chloride-free pH-neutral liquid soaps. Valve shall be operable with one hand and with less than 5 pounds of force (22.2 N) to comply with accessible design guidelines (including ADAAG in the U.S.A.). Container shall be equipped with a clear acrylic refill-indicator window; a locked, hinged stainless steel lid for top filling; and shall have a capacity of 40-fl oz (1.2-L). Unit shall have concealed, vandal-resistant mounting.

**Surface-Mounted Soap Dispenser shall be Model B-2111 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

**ASSEMBLY, TOILET ACCESSORIES**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: PUB RR - Accessible Stall

**TOILET  
ACCESSORIES**

7 NESTED ITEMS

| Code/Tag  | Product Name    | Quantity |
|-----------|-----------------|----------|
| TA-104-FE | PFGB18BS4       | 0.0      |
| TA-105-FE | PFGB36BS4       | 0.0      |
| TA-106-FE | PFGB42BS4       | 0.0      |
| TA-201-BW | B-686           | 0.0      |
| TA-400-SH | SHBWRH, SHBWRH2 | 0.0      |
| TA-801-BW | B-270           | 0.0      |
| TA-804-BW | B-4221          | 0.0      |

## 18 in. Grab Bar in Polished Stainless

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Manufacturer: ProFlo  
Style/Series: PFGB18BS4

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

18 in. Grab Bar in Polished Stainless

Model: PFGB18BS4

### DIMENSIONS

Length: 18"  
Diameter: 1-1/4"

### MATERIAL / FINISH

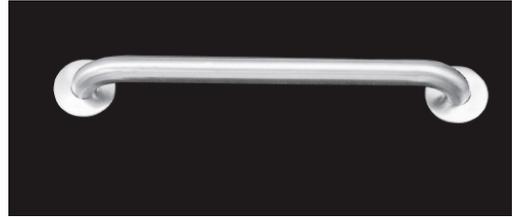
Finish: Polished Stainless  
Material Composition: Stainless Steel

### PERFORMANCE

Accessories: WRESGBW35 WingIts Grab Bar Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

### MISCELLANEOUS

Lead Time: TBD  
Warranty: s five years in commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar



### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

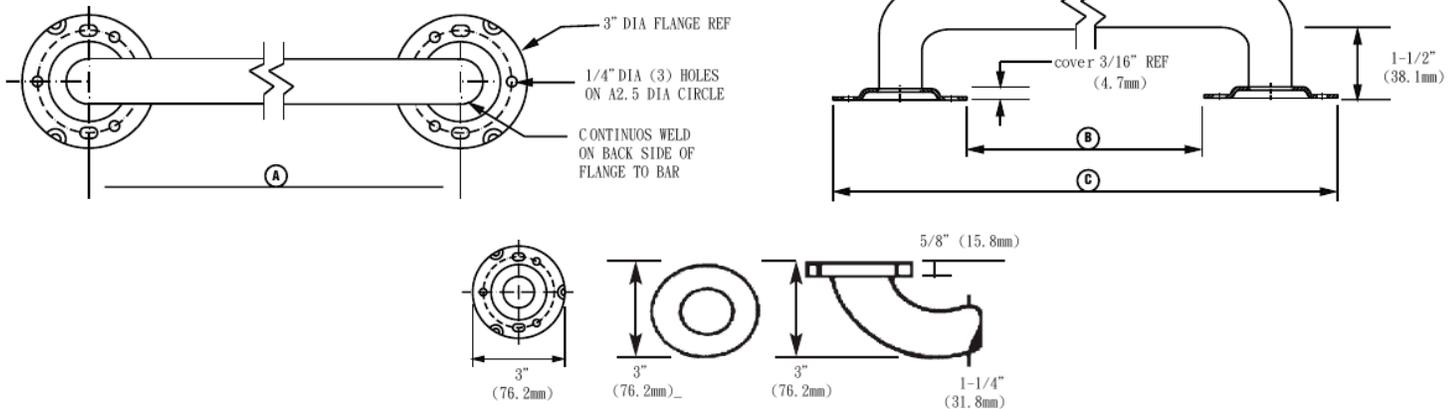


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

*Note: Stainless steel handle bar MUST BE attached to wall stud.*



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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CAP 04/17-A

## Stainless Steel Grab Bar

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Manufacturer: Proflo  
Style/Series: PFGB36BS4

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Stainless Steel Grab Bar

Model: PFGB36BS4

### DIMENSIONS

Length: 36"  
Diameter: 1-1/4"

### MATERIAL / FINISH

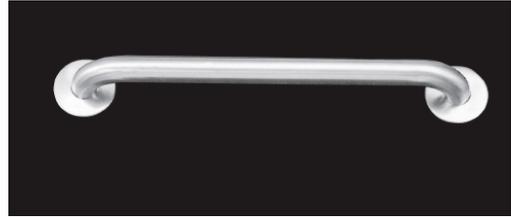
Finish: Polished Stainless  
Material Composition: Stainless Steel

### PERFORMANCE

Recommended Accessories: WRESGBW35: Winglts Grab Bar  
Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

### MISCELLANEOUS

Lead Time: TBD  
Warranty: five years in commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar



### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

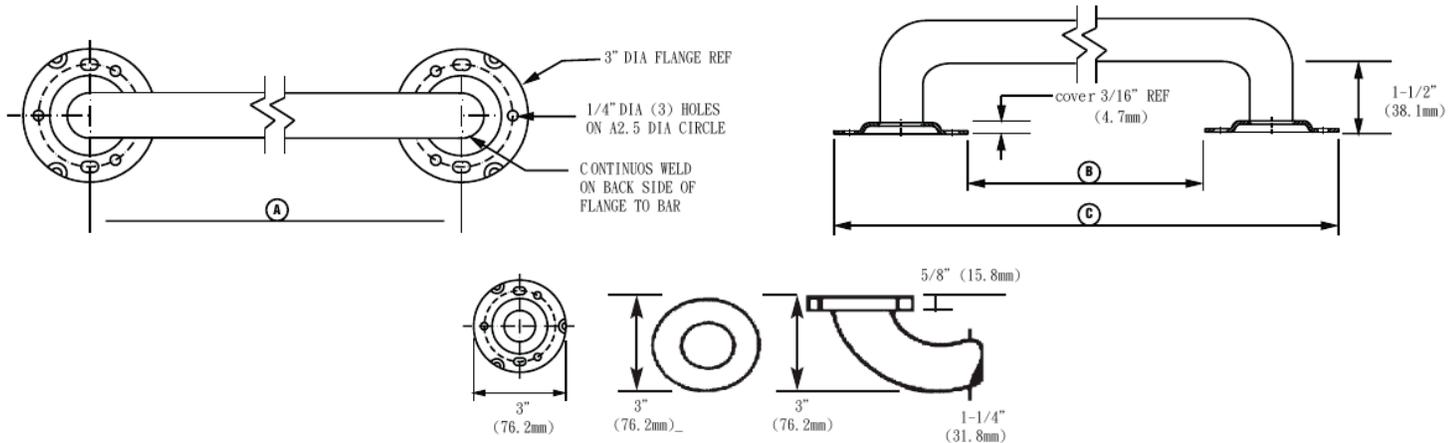


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

*Note: Stainless steel handle bar MUST BE attached to wall stud.*



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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CAP 04/17-A

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**42**

Manufacturer: Proflo  
Style/Series: PFGB42BS4

---

**Sales Rep****Primary**

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

**Attributes**

42" Stainless Steel Grab Bar

Model: PFGB42BS4

**DIMENSIONS**

Length: 42"  
Diameter: 3"  
Depth: 1 1/2"

**MATERIAL / FINISH**

Finish: Polished  
Material Composition: Stainless Steel

**PERFORMANCE**

Recommended Accessories: WRESGBW35: Winglts Grab Bar  
Fastener Set of 2  
Quality Standards: ADA CAP 04/17-A  
Structural Performance: Rated to 250 lb. test load

**MISCELLANEOUS**

Lead Time: TBD  
Warranty: Five years in Commercial applications



**PFGB Series**

**1-1/4" (OD)**

# Stainless Steel Grab Bar



### Product Features

- 1-1/4" SS grab bar w/concealed flange
- Bar-18 gauge (.048) 304 stainless steel
- Flange-14 gauge 304 stainless steel
- Screws-#10 x 2" self tapping stainless steel
- Polished Finish
- Rated to 250 lb. test load

### Recommended Accessory

WRESGBW35 WingIts Grab Bar Fastener Set of 2

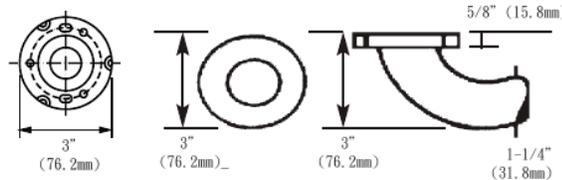
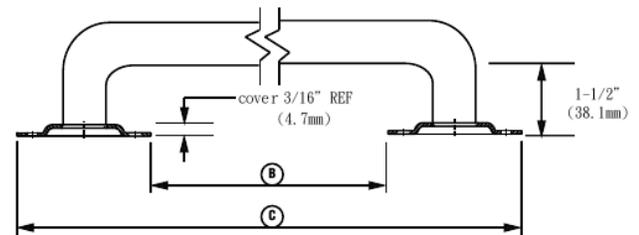
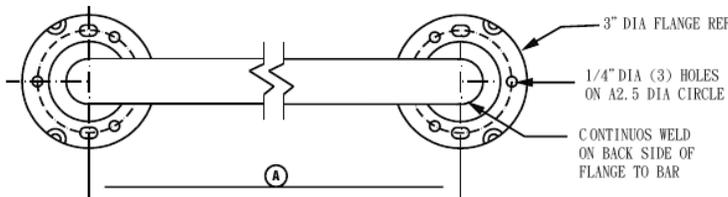


**PFGB**

### Product Specifications

| Polished Finish | A   | B   | C   |
|-----------------|-----|-----|-----|
| PFGB12BS4       | 12" | 9"  | 15" |
| PFGB18BS4       | 18" | 15" | 21" |
| PFGB24BS4       | 24" | 21" | 27" |
| PFGB30BS4       | 30" | 27" | 33" |
| PFGB36BS4       | 36" | 33" | 39" |
| PFGB42BS4       | 42" | 39" | 45" |
| PFGB48BS4       | 48" | 45" | 51" |

Note: Stainless steel handle bar **MUST BE** attached to wall stud.



### Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications.

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## Double-roll toilet tissue dispenser s...

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Manufacturer: Bobrick Washroom Equipment  
Style/Series: B-686

## Sales Rep

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### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter.

Type: Toilet Tissue Holder - Double (Heavy Duty)

### DIMENSIONS

Width: 12-1/2"

Height: 2"

Depth: 3-15/16"

### MATERIAL/FINISH

Color: Stainless Steel

Finish: Satin

### MISCELLANEOUS

Warranty: Parts Warranty - Limited Lifetime

### CUSTOM FIELDS

Content: NA

Finish: NA

Quality Standards: NA

Mounting Hardware: NA

Product: NA

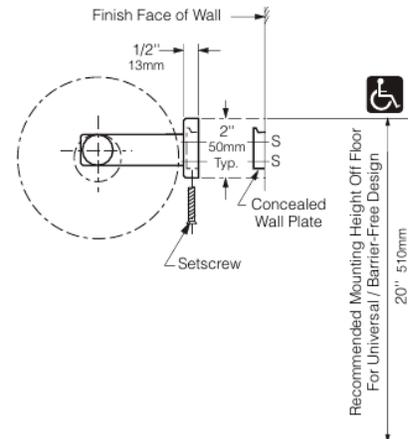
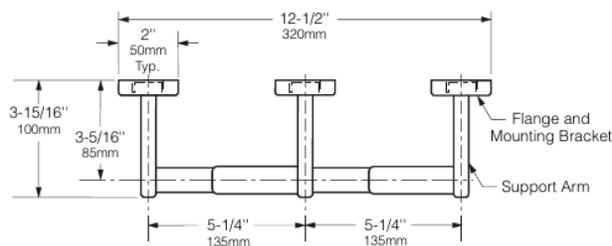




# DOUBLE-ROLL TOILET TISSUE DISPENSER

## B-686 B-6867

Specify Model Required:  Model B-686 Bright polished stainless steel  
 Model B-6867 Satin-finish stainless steel



### MATERIAL:

**Flanges and Support Arms (3)** — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 16-gauge (1.6mm) stainless steel mounting bracket is welded inside each flange. Secured to wall plate with setscrew.

**Concealed Wall Plates (3)** — 18-8 S, type-304, 16-gauge (1.6mm) stainless steel.

**Spindles (2)** — Chrome-plated plastic. Equipped with heavy-duty internal springs.

*Designer's Note:* Theft-resistant spindles, which are removable only with special key provided, are available as optional accessories. To specify, add suffix .60 to model number. Example B-686.60.

### INSTALLATION:

To remove concealed wall plates from back of flanges and mounting brackets, loosen setscrews. Mount each wall plate with prongs at top; secure with sheet-metal screws furnished by manufacturer at points indicated by an S. Engage mounting brackets onto prongs of wall plate, then secure into position by tightening setscrews at bottom of flanges.

**Note:** Center-to-center of concealed wall plates must be within 1/16" (1.6mm) of dimension shown.

For partitions with particle-board or other solid core: Secure with sheet-metal screws furnished by manufacturer or provide through-bolts, nuts, and washers.

For hollow-core metal partitions: Provide solid backing into which the furnished sheet-metal screws can be secured. If two units are installed back-to-back, then provide threaded sleeves and machine screws for the full thickness of partition.

For masonry walls: Provide fiber plugs or expansion shields for use with sheet-metal screws furnished by manufacturer, or provide 1/8" (3mm) toggle bolts or expansion bolts.

For plaster or dry wall construction: Provide concealed backing to comply with local building codes, then secure the unit with sheet-metal screws furnished.

### SPECIFICATION:

Double-roll toilet tissue dispenser shall be type-304 stainless steel with \_\_\_\_\_ (insert one: bright polished or satin) finish. Unit shall accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter (1800 sheets). Flanges shall be equipped with concealed, 16-gauge (1.6mm) stainless steel mounting brackets that are secured to concealed stainless steel wall plates with stainless steel setscrews. \*Spindles shall be equipped with a heavy-duty internal spring. Manufacturer's service and parts manual shall be provided to the building owner/manager upon completion of project.

*\*To specify theft-resistant spindles as an optional accessory, add to specification:* Theft-resistant spindles shall be removable only with special key provided.

Double-Roll Toilet Tissue Dispenser shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

## Berwyn Robe Hook

---

Manufacturer: Signature Hardware  
Style/Series: SHBWRH, SHBWRH2

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Berwyn Robe Hook

Model: Code: SHBWRH, SHBWRH2

### DIMENSIONS

Length: 1-15/16"

Height: 2-1/16"

Depth: 1-7/8"

Base Plate Length: 1-15/16"

Base Plate Height: 1-15/16"

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Metal

### MISCELLANEOUS

Lead Time: TBD

Warranty: [signaturehardware.com/warranty](http://signaturehardware.com/warranty)

### CUSTOM FIELDS

Mounting Hardware: Included



# BERWYN ROBE HOOK

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SKU: 953660

Code: SHBWRH, SHBWRH2



## FEATURES

Installation Type: Wall Mount  
Design: Modern  
Material: Metal  
Length: 1-15/16"  
Height: 2-1/16"  
Depth: 1-7/8"  
Base Plate Length: 1-15/16"  
Base Plate Height: 1-15/16"  
Base Plate Diameter: 1-15/16"  
Mounting Hardware Included: Yes  
Mounting Hardware Concealed: Yes  
Assembly Required: Yes

## CODES/STANDARDS

REVISED 9/18/2023

# BERWYN ROBE HOOK

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SKU: 953660  
Code: SHBWRH, SHBWRH2

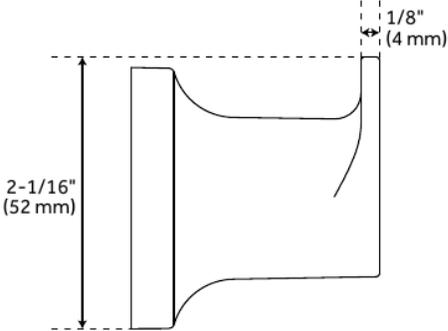
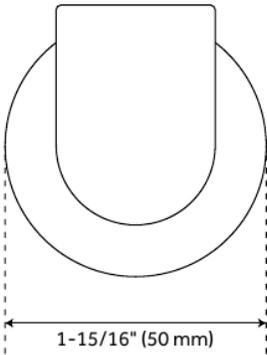
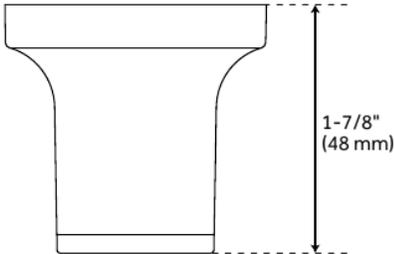


## ADDITIONAL FEATURES

REVISED 9/18/2023

# BERWYN ROBE HOOK

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All dimensions and specifications are nominal and may vary. Use actual products for accuracy in critical situations.

## Contura series surface mounted sanita...

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Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-270

## Sales Rep

---

### Primary

Steven Grande  
Email: steven.grande@bobrick.com

### Secondary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Contura series surface mounted sanitary napkin disposal

Type: Sanitary Napkin Disposal - Wall Mtd

### DIMENSIONS

Width: 7-1/2"  
Height: 10"  
Depth: 3-13/16"

### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Satin

### CUSTOM FIELDS

Finish: NA  
Content: NA  
Mounting Hardware: NA  
Product: NA



### ConturaSeries surface mounted seat co...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-4221

### Sales Rep

---

#### Primary

Steven Grande  
Email: steven.grande@bobrick.com

#### Secondary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

### Attributes

---

ConturaSeries surface mounted seat cover dispenser

Type: Seat Cover Dispenser - Wall Mtd.

#### DIMENSIONS

Width: 15-3/4"

Height: 11-1/4"

Depth: 2-3/16"

#### MATERIAL/FINISH

Material Composition: Stainless Steel

Finish: Satin

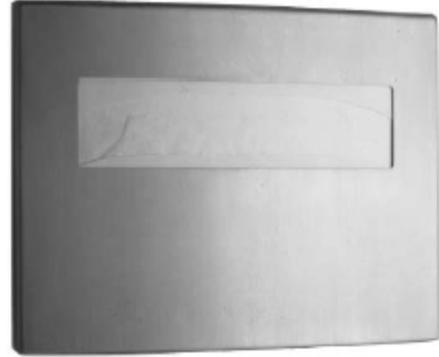
#### CUSTOM FIELDS

Finish: NA

Content: NA

Mounting Hardware: NA

Product: NA



**ASSEMBLY, TOILET ACCESSORIES**

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: PUB RR OPT - Single Stall

**TOILET  
ACCESSORIES**

5 NESTED ITEMS

| Code/Tag  | Product Name            | Quantity |
|-----------|-------------------------|----------|
| TA-201-BW | B-686                   | 0.0      |
| TA-400-SH | SHBWRH, SHBWRH2         | 0.0      |
| TA-400-BW | B-7671 Single Robe Hook | 0.0      |
| TA-801-BW | B-270                   | 0.0      |
| TA-804-BW | B-4221                  | 0.0      |

## Double-roll toilet tissue dispenser s...

---

Manufacturer: Bobrick Washroom Equipment  
Style/Series: B-686

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Double-roll toilet tissue dispenser shall be type-304 stainless steel and accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter.

Type: Toilet Tissue Holder - Double (Heavy Duty)

### DIMENSIONS

Width: 12-1/2"

Height: 2"

Depth: 3-15/16"

### MATERIAL/FINISH

Color: Stainless Steel

Finish: Satin

### MISCELLANEOUS

Warranty: Parts Warranty - Limited Lifetime

### CUSTOM FIELDS

Content: NA

Finish: NA

Quality Standards: NA

Mounting Hardware: NA

Product: NA

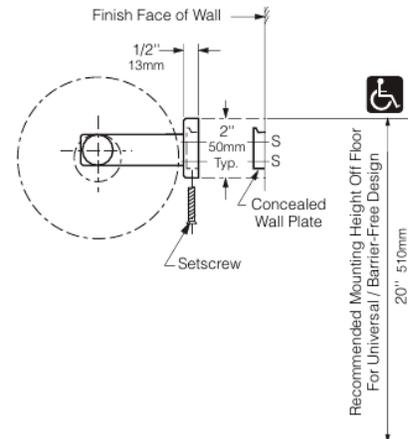
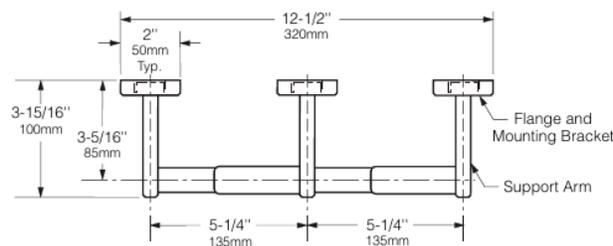




# DOUBLE-ROLL TOILET TISSUE DISPENSER

## B-686 B-6867

Specify Model Required:  Model B-686 Bright polished stainless steel  
 Model B-6867 Satin-finish stainless steel



### MATERIAL:

**Flanges and Support Arms (3)** — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 16-gauge (1.6mm) stainless steel mounting bracket is welded inside each flange. Secured to wall plate with setscrew.

**Concealed Wall Plates (3)** — 18-8 S, type-304, 16-gauge (1.6mm) stainless steel.

**Spindles (2)** — Chrome-plated plastic. Equipped with heavy-duty internal springs.

*Designer's Note:* Theft-resistant spindles, which are removable only with special key provided, are available as optional accessories. To specify, add suffix .60 to model number. Example B-686.60.

### INSTALLATION:

To remove concealed wall plates from back of flanges and mounting brackets, loosen setscrews. Mount each wall plate with prongs at top; secure with sheet-metal screws furnished by manufacturer at points indicated by an S. Engage mounting brackets onto prongs of wall plate, then secure into position by tightening setscrews at bottom of flanges.

**Note:** Center-to-center of concealed wall plates must be within 1/16" (1.6mm) of dimension shown.

For partitions with particle-board or other solid core: Secure with sheet-metal screws furnished by manufacturer or provide through-bolts, nuts, and washers.

For hollow-core metal partitions: Provide solid backing into which the furnished sheet-metal screws can be secured. If two units are installed back-to-back, then provide threaded sleeves and machine screws for the full thickness of partition.

For masonry walls: Provide fiber plugs or expansion shields for use with sheet-metal screws furnished by manufacturer, or provide 1/8" (3mm) toggle bolts or expansion bolts.

For plaster or dry wall construction: Provide concealed backing to comply with local building codes, then secure the unit with sheet-metal screws furnished.

### SPECIFICATION:

Double-roll toilet tissue dispenser shall be type-304 stainless steel with \_\_\_\_\_ (insert one: bright polished or satin) finish. Unit shall accommodate two standard-core toilet paper rolls up to 5-1/2" (140mm) diameter (1800 sheets). Flanges shall be equipped with concealed, 16-gauge (1.6mm) stainless steel mounting brackets that are secured to concealed stainless steel wall plates with stainless steel setscrews. \*Spindles shall be equipped with a heavy-duty internal spring. Manufacturer's service and parts manual shall be provided to the building owner/manager upon completion of project.

\*To specify theft-resistant spindles as an optional accessory, add to specification: Theft-resistant spindles shall be removable only with special key provided.

Double-Roll Toilet Tissue Dispenser shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

## Berwyn Robe Hook

---

Manufacturer: Signature Hardware  
Style/Series: SHBWRH, SHBWRH2

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Berwyn Robe Hook

Model: Code: SHBWRH, SHBWRH2

### DIMENSIONS

Length: 1-15/16"

Height: 2-1/16"

Depth: 1-7/8"

Base Plate Length: 1-15/16"

Base Plate Height: 1-15/16"

### MATERIAL / FINISH

Finish: Chrome

Material Composition: Metal

### MISCELLANEOUS

Lead Time: TBD

Warranty: [signaturehardware.com/warranty](http://signaturehardware.com/warranty)

### CUSTOM FIELDS

Mounting Hardware: Included



# BERWYN ROBE HOOK

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SKU: 953660

Code: SHBWRH, SHBWRH2



## FEATURES

Installation Type: Wall Mount

Design: Modern

Material: Metal

Length: 1-15/16"

Height: 2-1/16"

Depth: 1-7/8"

Base Plate Length: 1-15/16"

Base Plate Height: 1-15/16"

Base Plate Diameter: 1-15/16"

Mounting Hardware Included: Yes

Mounting Hardware Concealed: Yes

Assembly Required: Yes

## CODES/STANDARDS

REVISED 9/18/2023

# BERWYN ROBE HOOK

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SKU: 953660

Code: SHBWRH, SHBWRH2

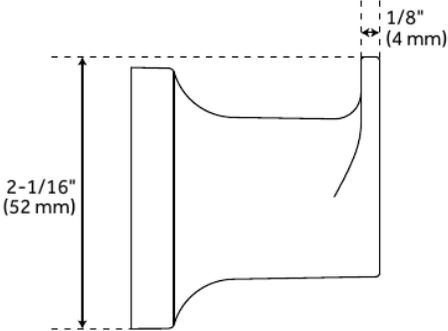
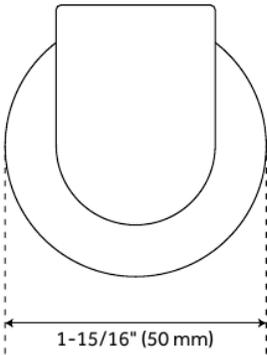
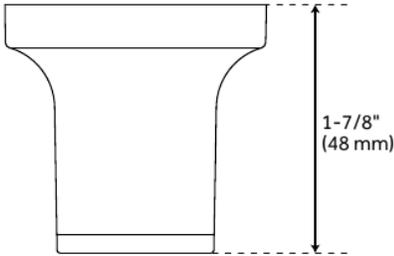


## ADDITIONAL FEATURES

REVISED 9/18/2023

# BERWYN ROBE HOOK

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All dimensions and specifications are nominal and may vary. Use actual products for accuracy in critical situations.

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Manufacturer: Bobrick  
Style/Series: B-7671 Single Robe Hook

---

### Sales Rep

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

---

### Attributes

Item Type: Single Robe Hook  
Model: B-7671  
Finish: Stainless Steel  
Warranty: See Website



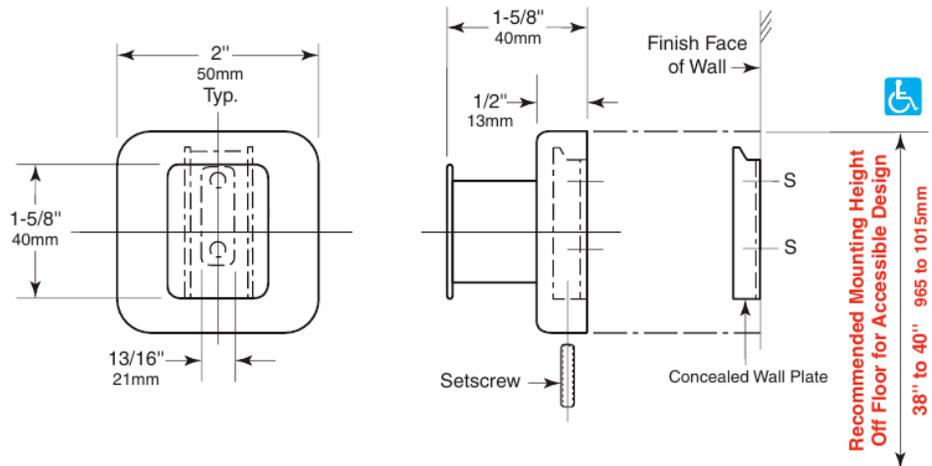


# Technical Data

# SURFACE-MOUNTED ROBE HOOK

# B-7671 B-76717

- Specify Model Required:  Model B-7671 Bright polished stainless steel  
 Model B-76717 Satin-finish stainless steel



### MATERIALS:

**Flange & Support Arm** — 18-8, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 18-gauge (1.2mm) stainless steel mounting bracket. All-welded construction. Secured to wall plate with a stainless steel setscrew.

**Concealed Wall Plate** — 18-8, type-304, 19-gauge (1.0mm) stainless steel.

**Cap** — 18-8, type-304, 14-gauge (2.0mm) stainless steel. Welded to the support arm.

### INSTALLATION:

To remove concealed wall plate from back of flange and mounting bracket, loosen setscrew. Mount wall plate so prongs are at top; secure with two sheet-metal screws, furnished by manufacturer, at points indicated by an S. Engage mounting bracket onto prongs of wall plate, then secure unit into position by tightening setscrew at bottom of flange.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

For partitions with particle-board or other solid core, secure with sheet-metal screws furnished, or provide through-bolts, nuts, and washers. For hollow-core metal partitions, provide solid backing into which the furnished sheet-metal screws can be secured.

### SPECIFICATION:

Surface-mounted robe hook shall be type-304 stainless steel with \_\_\_\_\_ (insert one: bright polished or satin) finish. Flange and support arm shall be 22 gauge (0.8mm) and equipped with a concealed, 18-gauge (1.2mm) mounting bracket that is secured to a concealed, 19-gauge (1.0mm) wall plate with a stainless steel setscrew. Cap shall be 14 gauge (2.0mm), welded to the support arm.

Surface-Mounted Robe Hook shall be Model \_\_\_\_\_ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

## Contura series surface mounted sanita...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-270

## Sales Rep

---

### Primary

Steven Grande  
Email: steven.grande@bobrick.com

### Secondary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Contura series surface mounted sanitary napkin disposal

Type: Sanitary Napkin Disposal - Wall Mtd

### DIMENSIONS

Width: 7-1/2"  
Height: 10"  
Depth: 3-13/16"

### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Satin

### CUSTOM FIELDS

Finish: NA  
Content: NA  
Mounting Hardware: NA  
Product: NA



### ConturaSeries surface mounted seat co...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-4221

### Sales Rep

---

#### Primary

Steven Grande  
Email: steven.grande@bobrick.com

#### Secondary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

### Attributes

---

ConturaSeries surface mounted seat cover dispenser

Type: Seat Cover Dispenser - Wall Mtd.

#### DIMENSIONS

Width: 15-3/4"

Height: 11-1/4"

Depth: 2-3/16"

#### MATERIAL/FINISH

Material Composition: Stainless Steel

Finish: Satin

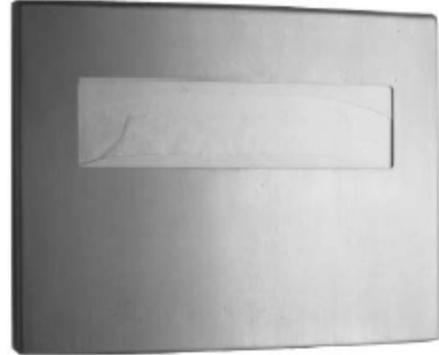
#### CUSTOM FIELDS

Finish: NA

Content: NA

Mounting Hardware: NA

Product: NA



**ASSEMBLY, TOILET ACCESSORIES**

---

Manufacturer: VARIOUS MANUFACTURERS  
Style/Series: PUB RR OPT - Sink Area

**TOILET  
ACCESSORIES**

3 NESTED ITEMS

| Code/Tag  | Product Name | Quantity |
|-----------|--------------|----------|
| TA-402-BW | B-165        | 0.0      |
| TA-802-BW | B-43944      | 0.0      |
| TA-803-BW | B-2111       | 0.0      |

**Mirror with stainless steel frame.**

---

Manufacturer: Bobrick Washroom Equipment  
Style/Series: B-165

**Sales Rep**

---

**Primary**

Steven Grande  
Email: steven.grande@bobrick.com

**Attributes**

---

Mirror with stainless steel frame.

Type: Mirror w/SS Frame

**DIMENSIONS**

Dimension Explanation: 1/2" x 1/2" frame

**MATERIAL/FINISH**

Color: Stainless Steel

Finish: Satin

**PERFORMANCE**

Quality Standards: Federal Spec DD-M-411C, ASTM C-1036-91



### SNAP LOCKING DESIGN (Rear View)

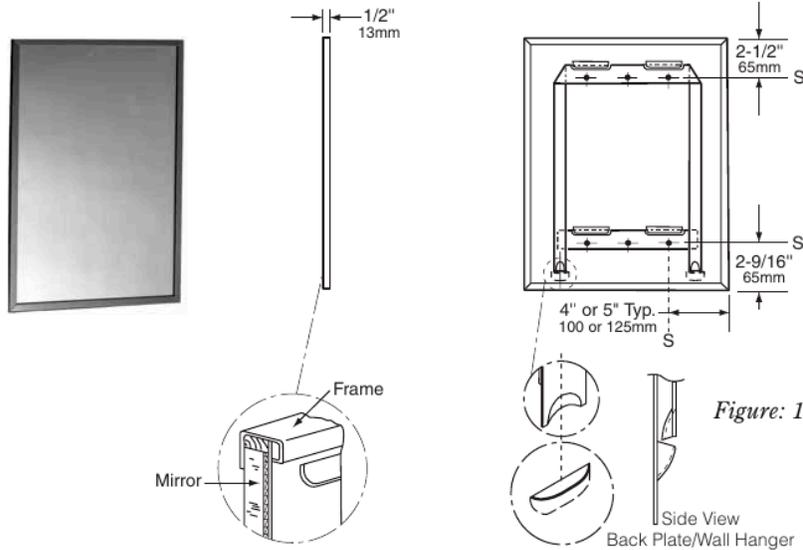


Figure: 1

### SCREW LOCKING DESIGN (Rear View)

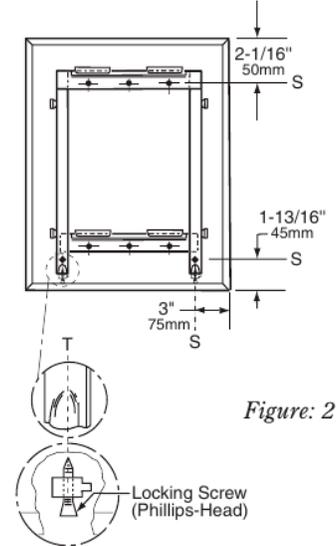


Figure: 2

#### STANDARD B-165 SERIES MIRRORS

| MODEL NO.  | OVERALL SIZE |             |
|------------|--------------|-------------|
|            | W            | H           |
| B-165 1624 | 16" (41cm)   | 24" (61cm)  |
| B-165 1824 | 18" (46cm)   | 24" (61cm)  |
| B-165 1830 | 18" (46cm)   | 30" (76cm)  |
| B-165 1836 | 18" (46cm)   | 36" (91cm)  |
| B-165 2430 | 24" (61cm)   | 30" (76cm)  |
| B-165 2436 | 24" (61cm)   | 36" (91cm)  |
| B-165 2448 | 24" (61cm)   | 48" (122cm) |
| B-165 2460 | 24" (61cm)   | 60" (152cm) |

#### STANDARD B-165 SERIES MIRRORS

| MODEL NO.  | OVERALL SIZE |            |
|------------|--------------|------------|
|            | W            | H          |
| B-165 3636 | 36" (91cm)   | 36" (91cm) |
| B-165 4836 | 48" (122cm)  | 36" (91cm) |
| B-165 6036 | 60" (152cm)  | 36" (91cm) |

#### All Other Size Mirrors

#### Designer's Notes:

- Special-order sizes available on request.
- Maximum size mirror available, 72" x 60" (183 x 152cm); minimum size, 12" x 12" (30 x 30cm).
- All Bobrick framed mirrors are manufactured to overall width and height dimensions. EXAMPLE: A 24" x 36" (61 x 91cm) mirror will be furnished 24" x 36" (61 x 91cm) outside-of-frame to outside-of-frame.
- To specify special sizes use Series Number followed by width then height in inches. EXAMPLE: B-165 2024.
- Bobrick framed mirrors are manufactured to a tolerance 1/8" (3.2mm).
- For sufficient space to lift mirror onto wall hanger(s), provide 3-1/4" (85mm) minimum clearance above center line of mounting screw holes.
- Provide 1" (25mm) minimum clearance at bottom of mirror for engaging locking screws and 1" (25mm) clearance on each side.

#### MATERIALS:

**Frame** — Type-430 stainless steel, 1/2" x 1/2" x 3/8" (13 x 13 x 9.5mm) channel with 1/4" (6mm) return at rear with bright polished finish. One piece frame with 90 degree mitered corners. Galvanized steel back has integral horizontal hanging brackets near the top for hanging the mirror and near the bottom to prevent the bottom of the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger. In Screw Locking Design (see figure 2), concealed Phillips-head locking screws securely fasten mirror to wall hanger.

**Mirror** — No. 1 quality, 1/4" (6mm) select float glass: selected for silvering, electrolytically copper-plated by the galvanic process, and guaranteed for 10 years against silver spoilage. Corners are protected by friction-absorbing filler strips; back is protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding.

**Concealed Wall Hanger** — 20-gauge (0.9mm) galvanized steel. Incorporates lower support member, forming rigid rectangle, which engages lower backplate louvers to keep bottom of mirror against wall.

continued . . .

## INSTALLATION:

Mount wall hanger on wall with screws (furnished by manufacturer) at points indicated by an *S*. For plaster or dry wall construction, provide backing to comply with local building codes, then secure wall hanger with screws furnished. When providing a concealed backing, allow backing to cover minimum range of mounting hole locations shown on drawing. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts. Hang mirror on wall hanger with all four backplate louvers engaged behind horizontal wall hanger members. Hang mirror on wall hanger with all four backplate louvers engaged behind horizontal wall hanger members. To do this, mirror must be centered in front of the wall hanger horizontally, pressed flat against the wall approximately 1" (25mm) above final position and then lowered into final position.

**Snap Locking Design** — Locking devices automatically secure mirror to concealed wall hanger when it is lowered into final position. Locking devices may be unlocked by inserting two flat blade screwdrivers behind each side of mirror near the bottom or under the bottom of the mirror and pulling mirror bottom forward and then up (see figure 3).

**Screw Locking Design** — Lock mirror to wall hanger by tightening Phillips-head locking screws that are concealed in the bottom of frame at points indicated by a *T*. Mirror may be unlocked from wall hanger by loosening locking screws and lifting mirror off of concealed wall hanger (see figure 4).

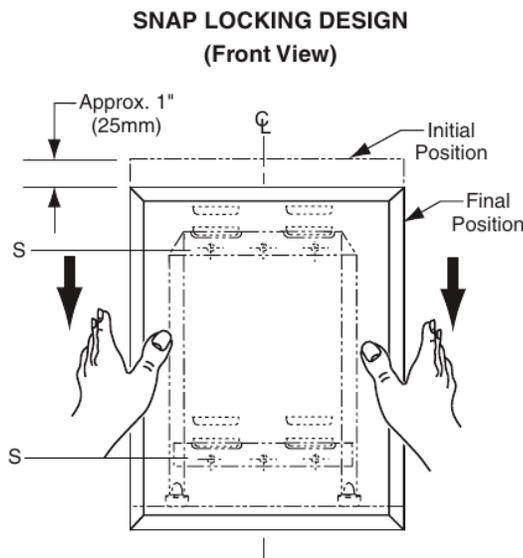


Figure: 3

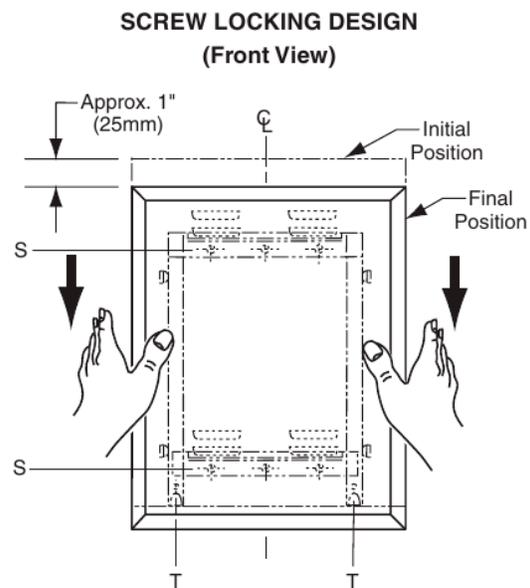


Figure: 4

## SPECIFICATION:

Mirror shall have a one-piece type-430 stainless steel channel frame, 1/2" x 1/2" x 3/8" (13 x 13 x 9.5mm), with 90° mitered corners; all exposed surfaces shall have bright polished finish. Select float glass mirror shall be guaranteed for 10 years against silver spoilage. Corners shall be protected by friction-absorbing filler strips and the back shall be protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding. Galvanized steel back shall have integral horizontal hanging brackets located at top and bottom for mounting on concealed rectangular wall hanger to prevent the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger. Mirror shall be removable from the wall.

**Framed Mirror shall be Model B-165 \_\_\_\_\_ (insert width and height) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

## Contura Series Recessed Paper Towel D...

---

Manufacturer: Bobrick Washroom Equipment, Inc.  
Style/Series: B-43944

## Sales Rep

---

### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

## Attributes

---

Contura Series Recessed Paper Towel Dispenser and Waste Receptacle

Type: Paper Towel Dispenser and Disposal - Recessed

### DIMENSIONS

Width: 17-7/16"  
Height: 56-1/4"  
Depth: 8"

### MATERIAL/FINISH

Material Composition: Stainless Steel  
Finish: Satin

### CUSTOM FIELDS

Finish: NA  
Content: NA  
Mounting Hardware: NA  
Product: NA



## 40 Oz Classic Series Surface Mounted ...

---

Manufacturer: Bobrick  
Style/Series: B-2111

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Mobile Phone: 949-289-3058

### Attributes

---

40 Oz Classic Series Surface Mounted Soap Dispenser

Type: N/A

#### DIMENSIONS

Width: 4-3/4"  
Height: 8-1/8"  
Depth: 3.5"

#### PERFORMANCE

Quality Standards: TBD

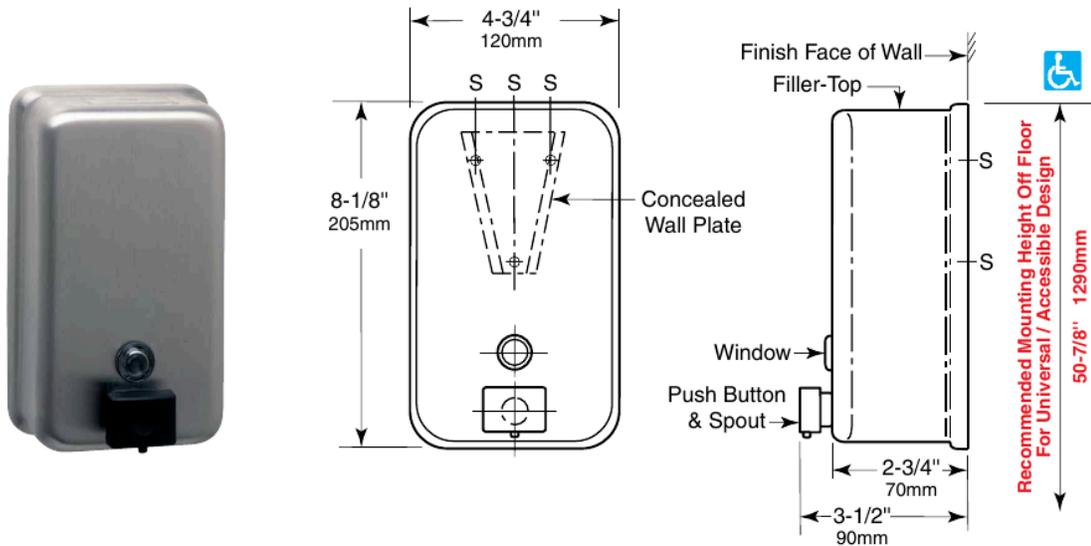
#### MISCELLANEOUS

Lead Time: TBD  
Warranty: TBD

#### CUSTOM FIELDS

Finish: Satin  
Content: Stainless Steel  
Mounting Hardware: NA  
Product: NA





**MATERIALS:**

**Container** — 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin-finish. Body is drawn, one-piece, seamless construction. Back plate has mounting bracket attached. Furnished with concealed wall plate. Equipped with a clear acrylic refill-indicator window and a locked, hinged stainless steel lid for top filling. Capacity: 40-fl oz (1.2-L).

**Valve** — Black molded plastic push button and spout. Soap head-holding mushroom valve. Stainless steel spring. U-packing seal and duckbill. Antibacterial-soap-resistant plastic cylinder.

**OPERATION:**

Corrosion-resistant valve dispenses commercially marketed all-purpose hand soaps. To prevent corrosion of the tank, use only chloride-free pH-neutral liquid soaps. Valve is operable with one hand, without tight grasping, pinching, or twisting of the wrist, and with less than 5 pounds of force (22.2 N) to comply with accessible design guidelines (including ADAAG in the U.S.A.). Window indicates when refill is required. The locked, hinged lid opens for top filling only with special key provided. Concealed, vandal-resistant mounting.

**INSTALLATION:**

Secure wall plate to the wall with three sheet-metal screws, furnished by manufacturer, at points indicated by an S. Slide mounting bracket of container down onto wall plate and secure unit with furnished locking-screw. For plaster or dry wall construction, provide concealed backing to comply with local building codes and secure with sheet-metal screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

**Note:** Surface-mount the dispenser plumb and true with valve 6" (150mm) to right or left of lavatory center. Provide 4" (100mm) minimum clearance from the lid to the underside of any horizontal projection. Push buttons should be located 44" (1120mm) maximum above the finish floor.

**SPECIFICATION:**

Surface-mounted soap dispenser shall be Type-304 stainless steel with satin-finish. Corrosion-resistant valve shall dispense commercially marketed all-purpose hand soaps, non-iodine based soaps and do not use alcohol based sensitizers. To prevent corrosion of the tank, use only chloride-free pH-neutral liquid soaps. Valve shall be operable with one hand and with less than 5 pounds of force (22.2 N) to comply with accessible design guidelines (including ADAAG in the U.S.A.). Container shall be equipped with a clear acrylic refill-indicator window; a locked, hinged stainless steel lid for top filling; and shall have a capacity of 40-fl oz (1.2-L). Unit shall have concealed, vandal-resistant mounting.

**Surface-Mounted Soap Dispenser shall be Model B-2111 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

TA - Miscellaneous Washroom Accessories

## MISCELLANEOUS WASHROOM ACCESSORIES

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Manufacturer: Bobrick  
Style/Series: Stainless Steel Shelf

### Sales Rep

---

#### Primary

Dean Armstrong  
Email: dean.armstrong@ferguson.com  
Office Phone: 855-521-1805  
Mobile Phone: 949-289-3058

### Attributes

---

Model: Part #BB224X3  
Item Type: UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS

#### MATERIAL/FINISH

Finish: Stainless Steel

#### NOTES

Warranty: See Website

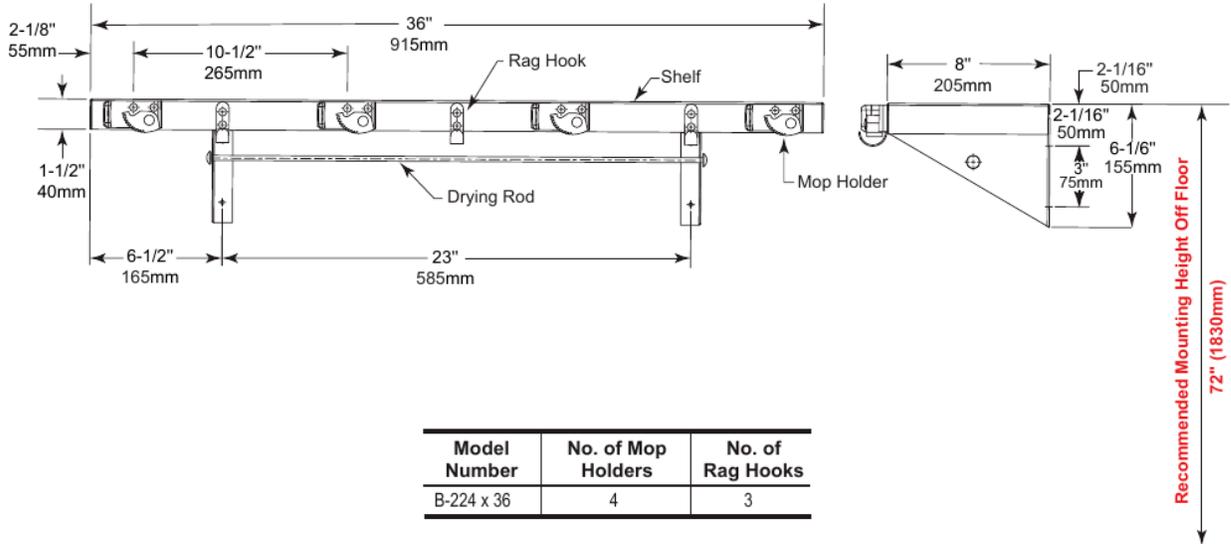




Technical Data

# UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS

# B-224



| Model Number | No. of Mop Holders | No. of Rag Hooks |
|--------------|--------------------|------------------|
| B-224 x 36   | 4                  | 3                |

### MATERIALS:

**Shelf** — 18-8, Type 304, 18-gauge (1.2mm) stainless steel with satin finish. Shelf has 1-1/2" (38mm) return edge for maximum rigidity.

**Mounting Brackets** — 18-8, Type 304, 18-gauge (1.2mm) stainless steel with satin finish; welded to shelf.

**Mop/Broom Holders** — Spring-loaded rubber cams with anti-slip coating.

**Rag Hooks** — 18-8, Type 304, 16-gauge (1.6mm) stainless steel with satin finish; secured to shelf with rivets.

**Drying Rod** — 18-8, Type 304, 1/4" (6mm) diameter stainless steel with satin finish.

### OPERATION:

Surface-mounted utility shelf with holders is designed to keep mops and brooms away from wall. Spring-loaded rubber cam holders accommodate mop or broom handles from 7/8" to 1-1/4" (22–32mm) diameter. Hooks for conveniently storing rags are located on front of shelf. Rod for hanging wet rags is located below shelf between mounting brackets.

### INSTALLATION:

Secure unit to wall with four sheet-metal screws, furnished by manufacturer, at points indicated by an S. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

### SPECIFICATION:

Surface-mounted utility shelf with mop/broom holders and rag hooks shall be Type 304 stainless steel with satin finish. Shelf shall be 18 gauge (1.2mm) with 1-1/2" (38mm) return edge. Mounting brackets, welded to shelf, shall be 18 gauge (1.2mm).

Utility Shelf With Mop/Broom Holders And Rag Hooks shall be Model 224x36 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

TC - Tile Ceiling

## TILE CEILING

### Acoustical Ceiling Tile

---

Manufacturer: USG  
Style/Series: Clean Room Class 100 (ISO C5) Acoustical Panels with Climaplus Performance, Item No. #3260

### Sales Rep

---

#### Primary

Ado Ade  
Email: No.Email.329  
Office Phone: (845) 786-2820

### Attributes

---

Acoustical Ceiling Tile

Type: N/A

#### DIMENSIONS

Width: 2'-0"  
Length: 2'-0"  
Thickness: 5/8"

#### MATERIAL/FINISH

Material Composition: Wet formed mineral fiber.  
Color: White  
Finish: Smooth-textured panel with an embossed, vinyl-laminated face.

#### PERFORMANCE

Acoustical Performance: 0-0.55 NRC, 35 CAC  
Best Practices: USDA Certified Biobased Product, 55% Recycled Content  
Fire/Smoke Rating: ASTM E-1264 Classification (Class 100: Type X, Pattern GI), ASTM E-84, Class A  
Thermal Performance: Resistance: R-1.6

#### MISCELLANEOUS

Warranty: 30 Year Limited Warranty.  
USG Donn Brand Suspension System and USG panels and tile with Climaplus performance, when used together, to be free from defects in materials and workmanship at time of manufacture.

#### CUSTOM FIELDS

Content: Wet formed mineral fiber.  
Edge: Square  
Suspension: USG Donn Brand Suspension System  
Product: Clean Room Class 100 (ISO C5) Acoustical Panels with Climaplus Performance, Item No. #56099.  
Grid: US DX/DXL



Finish: Smooth-textured panel with an embossed, vinyl-laminated face.  
Quality Standards: NA

# USG CLEAN ROOM™ ACOUSTICAL PANELS

CLIMAPLUS™ PERFORMANCE



USG Clean Room™ Class  
10M-100M Acoustical Panels  
with ClimaPlus™ Performance/  
USG Donn® Brand DXLA™  
Acoustical Suspension System

TO ORDER SAMPLES, GO TO [USG.COM](http://USG.COM) OR [CGCINC.COM](http://CGCINC.COM)



Flat White  
050

## FEATURES AND BENEFITS

- USG Clean Room™ Class 100 and Class 10M-100M panels have an embossed, vinyl-laminated face with sealed back and edges for use in Class 100 (ISO 5) or 10M-100M (ISO 7) Clean Rooms.
- USDA Certified Biobased Product.<sup>8</sup>
- Firecode® product designed to meet life-safety codes.
- ClimaPlus™ 30-year limited system warranty against visible sag.

## APPLICATIONS

- Clean Rooms
- Laboratories
- Surgical areas/emergency rooms
- Kitchens/food prep areas (Class 100 only)

## SUBSTRATE

- Wet-formed mineral fiber

Smooth-Textured Panel, Class 100

Smooth-Textured Perforated Panel, Class 10M-100M

# USG CLEAN ROOM™ ACOUSTICAL PANELS

## CLIMAPLUS™ PERFORMANCE

**ORDER SAMPLES/LITERATURE**  
 USG: [samplitt@usg.com](mailto:samplitt@usg.com)  
 fax: 888 874-2348 | [usg.com](http://usg.com)  
 CGC: contact Sales Representative

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[usgdesignstudio.com](http://usgdesignstudio.com)  
[cgcdesignstudio.com](http://cgcdesignstudio.com)



UL Classified

| Edge <sup>5</sup> | Panel Size              | Fire Rating <sup>2</sup> | Item No. | NRC <sup>4</sup> | CAC Min. | LR <sup>3</sup> | Color | Grid Options | Recycled Content <sup>1</sup> | Panel Cost |
|-------------------|-------------------------|--------------------------|----------|------------------|----------|-----------------|-------|--------------|-------------------------------|------------|
| SQ<br>            | 2'x2'x5/8" Unperforated |                          | 56099    | —                | 35       | 0.79            | White | A,B,C,D,E    | 55%                           | \$\$\$     |
|                   | 2'x4'x5/8" Unperforated |                          | 56091    | —                | 35       | 0.79            | White | A,B,C,D,E    | 55%                           | \$\$\$     |
| SQ<br>            | 2'x2'x5/8" Perforated   |                          | 56060    | 0.55             | 35       | 0.79            | White | A,B,C,D,E    | 55%                           | \$\$\$     |
|                   | 2'x4'x5/8" Perforated   |                          | 56090    | 0.55             | 35       | 0.79            | White | A,B,C,D,E    | 55%                           | \$\$\$     |

**HRC High Recycled Content**  
 Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of postconsumer and preconsumer (postindustrial) recycled content per FTC guidelines.

**Firecode<sup>®</sup>**

### GRID PROFILE OPTIONS

| A<br>USG DX™/DXL™ | B<br>USG DXLA™ | C<br>USG ZXLA™ | D<br>USG AX™ | E <sup>6</sup><br>USG CE™ |
|-------------------|----------------|----------------|--------------|---------------------------|
|                   |                |                |              |                           |

### PHYSICAL DATA/ FOOTNOTES

**Product literature**  
 Data sheet: SC1811

**ASTM E1264 classification**  
 Class 100: Type X, Pattern GI  
 Class 10M-100M: Type X, Pattern CGI

**ASTM E84 and CAN/ULC S102 surface-burning characteristics**  
 Class A  
 Flame spread: 25 or less  
 Smoke developed: 50 or less

**UL Type**  
 M

**Weight**  
 1.1 lb./sq. ft. (Class 100 panels)  
 1.2 lb./sq. ft. (Class 10M-100M panels)

**Online tools**  
[usgdesignstudio.com](http://usgdesignstudio.com) or [cgcdesignstudio.com](http://cgcdesignstudio.com)

**Thermal resistance**  
 R-1.6

**Maximum backloading**  
 See *USG 30-Year Limited System Warranty Commercial Applications* (SC2102).

**Maintenance**  
 Can be cleaned easily with a damp sponge, mild detergent and water. Do not use acetate, ammonia, or highly concentrated chlorine, bromide or other harsh chemicals.

**Metric sizes available**  
 Contact sales for minimum quantities and lead times.

#### Notes

- For details, see LEED report tool at [usgdesignstudio.com](http://usgdesignstudio.com) or [cgcdesignstudio.com](http://cgcdesignstudio.com).
- Fire-rated items: see UL design details.
- LR values are shown as averages.
- NRC rating for USG Clean Room™ ClimaPlus™ Class 100 panels is 0.10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than 0.50.
- Field-cut edges of USG Clean Room™ panels may be sealed with white latex paint.
- Clean Room-rated applications require a suspension system with gasketed tee flanges such as USG Donn® Brand CE™.
- Not intended for kitchen/food prep applications. Use unperforated product (Class 100)—item numbers 56099 and 56091.
- This product has achieved both BioPreferred initiatives: Federal Procurement Preference and Certified Product Labeling. See the complete listing of all USG ceiling panels on [biopreferred.gov](http://biopreferred.gov) website.

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 Chicago, IL 60661

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Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.



TS - Transitions Strips

## TRANSITIONS STRIPS

### Transitions from LVT to Tile and from...

---

Manufacturer: Schluter Systems  
Style/Series: Reno-U, EBU-100 R1

### Sales Rep

---

#### Primary

Steve Brasington  
Email: SBrasington@schluter.com  
Office Phone: (803) 429-2950

### Attributes

---

Transitions from LVT to Tile and from finished concrete to Tile

Type: Metal transition strip

#### DIMENSIONS

Height: 3/8"  
Dimension Explanation: Length Required (verify in field)

#### MATERIAL/FINISH

Material Composition: Stainless Steel, V2A  
Finish: EB - Brushed

#### PERFORMANCE

Accessibility Compliance : ADA-Compliant

#### MISCELLANEOUS

Lead Time: 3-5 business days  
Warranty: 5 year limited

#### CUSTOM FIELDS

Finish: EB - Brushed Stainless Steel, V2A



## TRANSITIONS STRIPS

### Finishing edge-protection profile, me...

---

Manufacturer: Schluter Systems  
Style/Series: Jolly

### Sales Rep

---

#### Primary

Steve Brasington  
Email: SBrasington@schluter.com  
Office Phone: (803) 429-2950

### Attributes

---

Finishing edge-protection profile, metal tile trim.

Type: Metal Edge Trim

#### MATERIAL/FINISH

Material Composition: Stainless Steel  
Color: Stainless Steel 316L

#### MISCELLANEOUS

Lead Time: To be verified  
Warranty: Warranted to be free from manufacturing defects for a period of 5 years from the date of the purchase order

#### CUSTOM FIELDS

Finish: NA



# FLOOR PROFILES



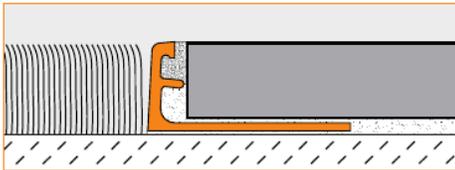
## INNOVATIVE SOLUTIONS FOR CERAMIC AND STONE TILE

### FINISHING, EDGE PROTECTION, AND TRANSITIONS

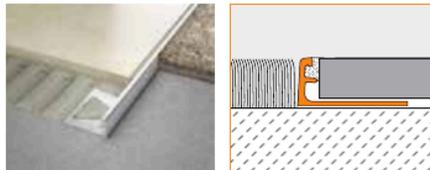
Because ceramic and stone tiles are inherently brittle, their exposed edges can chip and crack if left unprotected. Transitions between floor surfaces and at thresholds are particularly vulnerable to damage. Schluter-Systems offers a variety of profiles to provide edge protection and transition at thresholds and between adjacent surfaces, resulting in durable, maintenance-free tiled coverings. The profiles can be grouped into two categories: transitions between same-height surfaces and transitions between different-height surfaces

### Application and Function

#### Same-height Transitions



**1.1 Schluter®-SCHIENE** is designed to provide edging for tile coverings. Typical applications include edge protection where tile is bordered by carpet, at expansion joints, or as a decorative edging for stairs. SCHIENE is available in stainless steel, solid brass, aluminum, and anodized aluminum. The profile features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and an 87° sloped vertical wall section that transfers point loads to the substrate and surface covering while protecting tile edges from damage. SCHIENE, in solid brass, aluminum, and anodized aluminum, features a 5° sloped top flange and fillet at the anchoring leg/vertical section interface to enhance edge protection by reducing stresses on the tile, and, in sizes greater than 1/4" (6 mm), features an



1.1 Schluter®-SCHIENE

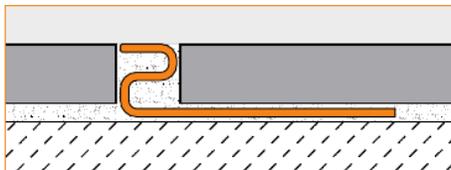


1.6 Schluter®-DECO

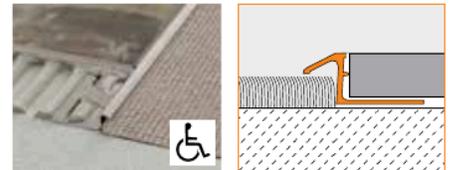


1.3 Schluter®-RENO-T

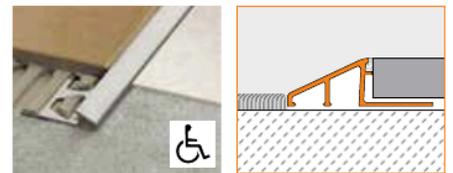
integrated joint spacer that establishes a defined joint cavity between the tile and the profile. The anchoring leg of SCHIENE, in all materials, is available with a special radius perforation "R" so that the profile can be used to form curves.



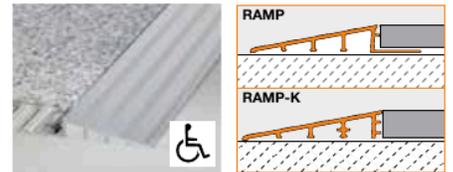
**1.6 Schluter®-DECO** is designed to provide decorative lines within tile coverings and edge protection at transitions from tile coverings to other same-height surface coverings, such as wood or carpet. The profile is available in stainless steel, solid brass, chrome-plated



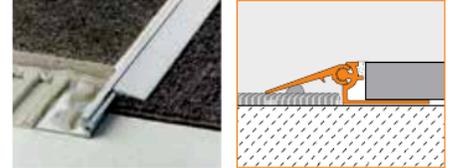
1.4 Schluter®-RENO-TK



1.2 Schluter®-RENO-U

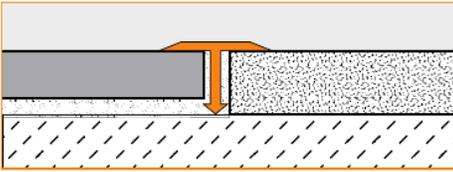


1.8 Schluter®-RENO-RAMP/-K



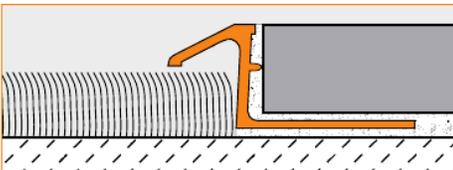
1.7 Schluter®-RENO-V

solid brass, and anodized aluminum. DECO features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and a 1/4" (6 mm)-wide visible surface that meets the high aesthetic requirements of showrooms, lobbies, galleries, exhibition booths, etc. The anchoring leg of DECO, in solid brass, chrome-plated solid brass, and anodized aluminum, is available with a special radius perforation "R" so that the profile can be used to form curves. DECO in chrome-plated brass requires a relatively large bending radius.

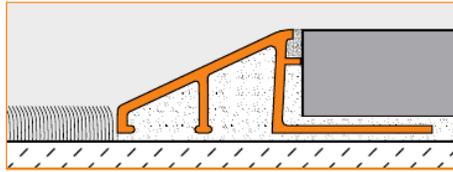


**1.3 Schluter®-RENO-T** is designed to provide transitions between existing same-height, hard-surface floor coverings (e.g., ceramic tile or natural stone, parquet flooring, concrete pavers, laminate, etc.), primarily in retrofit applications. The profile is available in stainless steel, solid brass, and anodized aluminum. RENO-T is installed within the existing joint cavity and overlaps adjoining surface materials, thus preventing edges from becoming damaged when subjected to mechanical stress. RENO-T, in brass and anodized aluminum size 9/14, is flexible in the lateral direction and can be used in curved applications.

**Different-height Transitions**

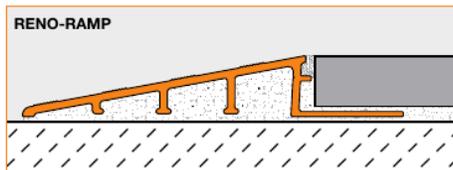


**1.4 Schluter®-RENO-TK** is designed to provide a smooth transition from tile coverings to floor coverings at lower elevations, typically carpet. The profile is available in stainless steel, solid brass, and anodized aluminum. RENO-TK features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and a sloped surface to eliminate trip hazards and protect tile edges. The 1/4" (6 mm) channel beneath the sloped flange of the profile hides and protects the cut edge of lower adjoining surface coverings. All sizes of the RENO-TK are compliant with the Americans with Disabilities Act (ADA). RENO-TK, in anodized aluminum, features an integrated joint spacer that establishes a defined joint cavity between the tile and the profile. The anchoring leg of RENO-TK, in solid brass and anodized aluminum, sizes 60 to 100, is available with a special radius perforation "R" so that the profile can be used to form curves.



**1.2 Schluter®-RENO-U** is designed to provide a smooth transition between tile coverings and floor coverings at lower elevations or finished concrete. The profile is available in stainless steel, solid brass, and anodized aluminum. RENO-U features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and a sloped surface (approximately 25°) that eliminates trip hazards and protects tile edges. The leading edge of the profile abuts the lower surface covering, typically VCT. RENO-U, in aluminum, features an integrated joint spacer that establishes a defined joint cavity between the tile and the profile. In installations where the leading edge abuts a lower surface covering, all sizes of RENO-U, except the 3/4" (20 mm) and 11/16" (17.5 mm), are compliant with the Americans with Disabilities Act (ADA). In installations where the leading edge rests on top of the lower floor covering (e.g., finished concrete), the 3/4" (20 mm), 11/16" (17.5 mm), and 9/16" (15 mm) sizes are not ADA-compliant.

**Note:** When using Schluter® uncoupling membranes with RENO-U profiles, factor in the thickness of the membrane over the anchoring leg when selecting the profile height.

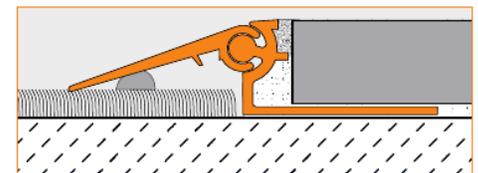


**1.8 Schluter®-RENO-RAMP** is designed to provide a smooth transition between tile coverings and floor coverings at lower elevations or finished concrete, particularly in commercial applications where wheel carts are used (e.g., bakeries, hospitals, etc.). The profile is available in anodized aluminum. RENO-RAMP features a trapezoid-perforated

anchoring leg, which is secured in the mortar bond coat beneath the tile, and a sloped transition surface that terminates at the height of the tile edge. The profile protects tile edges and provides a sloped surface to eliminate trip hazards and allow easy access for wheel carts. RENO-RAMP features an integrated joint spacer that establishes a defined joint cavity between the tile and the profile.

**Note:** When using Schluter® uncoupling membranes with RENO-RAMP profiles, factor in the thickness of the membrane over the anchoring leg when selecting the profile height.

**Schluter®-RENO-RAMP-K** is a variant of the profile without an anchoring leg. RENO-RAMP-K is installed adjacent to existing floor coverings, e.g., retrofitting between existing floor coverings and bare concrete without having to disturb the existing flooring. All sizes of RENO-RAMP, except sizes 9/16" (15 mm) and 3/4" (20 mm), are compliant with the Americans with Disabilities Act (ADA).



**1.7 Schluter®-RENO-V** is designed to provide a smooth transition between tile coverings and floor coverings at lower elevations. The profile is available in anodized aluminum. RENO-V features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and a movable transition arm that allows the profile to adjust to the height of the adjacent floor covering via a ball-and-socket joint. The profile protects tile edges and provides a sloped surface to eliminate trip hazards. RENO-V features an integrated joint spacer that establishes a defined joint cavity between the tile and the profile. RENO-V is also suitable for heavy-duty applications (e.g., entrances to garages or loading docks). In such cases, the adjustable arm is backfilled with mortar.

## Material Properties and Areas of Application

Schluter edge-protection and transition profiles are resistant to most chemicals encountered in tiled environments. In special cases, the suitability of a proposed type of profile must be verified based on the anticipated chemical, mechanical, and/or other stresses. Exceptions and special considerations are listed below:

**Stainless steel** profiles are roll-formed, resulting in a slightly different contour from those made of extruded brass or aluminum. Stainless steel can sustain high mechanical stresses and is particularly well suited for applications requiring resistance against chemicals and acids; for example in the food industry, breweries, dairies, commercial kitchens, and hospitals, as well as in residential applications. Typically, the profiles are formed using stainless steel 304 (1.4301 = V2A). For more severe chemical exposure, such as de-icing salts and chemicals used in swimming pools, we recommend the use of stainless steel 316 L (1.4404 = V4A), which offers even higher corrosion resistance than the 304. Even stainless steel cannot withstand all chemical exposures, such as hydrochloric acid, hydrofluoric acid or certain chlorine, chloride, and brine concentrations.

**Chrome-plated solid brass** is ideal for matching chrome fixtures. Surfaces must be protected against abrasion or scratching.

**Solid brass** can sustain high mechanical stresses, as well as most chemicals commonly encountered in tiled environments. Solid brass that is exposed to air will oxidize, resulting in a natural patina. If exposed to moisture or aggressive substances, heavy oxidation and spotting may occur.

**Aluminum** profiles must be tested to verify their suitability if chemical stresses are anticipated. Cementitious materials, in conjunction with moisture, become alkaline. Since aluminum is sensitive to alkaline substances, exposure to the alkali (depending on the concentration and duration of exposure) may result in corrosion (aluminum hydroxide formation). Therefore, it is important to remove mortar or grout residue from visible surfaces. In addition, ensure that the profile is solidly embedded in the setting material and that all cavities are filled to prevent the collection of alkaline water.

**Anodized aluminum** profiles feature an anodized layer that retains a uniform appearance during normal use, but is not color-stable in exterior applications. The surface is susceptible to scratching and wear and may be damaged by grout or setting material. Therefore, these materials must be removed immediately. Otherwise, the description regarding aluminum applies.

## Cutting Profiles

Observe all safety instructions and standards as directed by the cutting tool manufacturer, including protective eyewear, hearing protection, and gloves.

Always measure carefully and dry fit the profiles, corners, and connectors to ensure proper fit and alignment prior to setting tile.

**Aluminum** profiles may be cut using any of the following options:

- **Hacksaw** with a bimetal blade and the highest teeth per inch (TPI) available.
- **Variable-Speed Angle Grinder** set to the lowest speed using the Schluter®-PROCUT-TSM cutting wheel.
- **Chop saw or Miter Saw** with a non-ferrous blade.

Regardless of the cutting tool used, remove any burrs from the cut end of the profile with a file or similar before installation.

**Stainless steel** profiles may be cut using any of the following options:

- **Variable-Speed Angle Grinder** set to the lowest speed using the Schluter®-PROCUT-TSM cutting wheel.
- **Band Saw** with a metal cutting blade.

Regardless of the cutting tool used, remove any burrs from the cut end of the profile with a file or similar before installation.

## Installation

### SCHIENE, JOLLY, DECO, RENO-TK, RENO-U, RENO-RAMP, and RENO-V

1. Select the profile according to tile thickness and format.

**Note:** When using Schluter® uncoupling membranes with RENO-U and RENO-RAMP profiles, factor in the thickness of the membrane over the anchoring leg when selecting the profile height.

2. Using a notched trowel, apply thin-set mortar to the area where the profile is to be placed.

For RENO-U and RENO-RAMP, fill the cavity beneath the sloped section of the profile with thin-set mortar. Follow this step when RENO-V is used in heavy-duty applications, as well.

3. Press the perforated anchoring leg of the profile into the mortar and align.
4. Trowel additional thin-set mortar over the perforated anchoring leg to ensure full coverage and support of the tile edges.
5. Solidly embed the tiles so that the tiled surface is flush with the top of the profile; the profile should not be higher than the tiled surface, but rather up to approx. 1/32" (1 mm) lower.
6. Set the tile to the integrated joint spacer, which ensures a uniform joint of 1/16" - 1/8" (1.5 - 3 mm). For DECO and stainless steel profiles, leave a space of approximately 1/16" - 1/8" (1.5 - 3 mm).
7. Fill the joint completely with grout or setting material.
8. Remove grout or mortar residue from the visible surface of the profile.

### RENO-RAMP-K

1. Fill the cavity beneath the sloped section of the profile with thin-set mortar.
2. Using a notched trowel, apply thin-set mortar to the area where the profile is to be placed.
3. Press the profile into the mortar and abut to the adjacent floor covering. The profile should not be higher than the adjacent floor covering, but rather up to approx. 1/32" (1 mm) lower.
4. Fill the joint completely with grout or setting material.
5. Work with materials and tools that will not scratch or damage sensitive surfaces. Setting materials must be removed immediately.

### RENO-T

1. Select the profile according to joint width, to ensure proper support of the lateral crosspiece.
2. The joint cavity must be at least 3/8" (9 mm) deep and free of debris. Substances that inhibit adhesion must be removed from the sides of the joint.

- Fill the joint with elastomeric sealant such as Schluter®-KERDI-FIX or similar. Then insert the vertical leg of RENO-T in the joint so that the lateral crosspiece rests completely on the edges of the surface coverings.
- Remove any excess sealant with a suitable cleaner.

### Maintenance

Schluter edge-protection and transition profiles require no special maintenance or care and are resistant to mold and fungi. Clean profiles periodically using neutral cleaning agents.

**Stainless steel** surfaces exposed to the environment or aggressive substances should be cleaned periodically using a mild household cleaner. Regular cleaning maintains the neat appearance of stainless steel and reduces the risk of corrosion. All cleaning agents must be free of hydrochloric acid, hydrofluoric acid, and

chlorides. Stainless steel surfaces develop a sheen when treated with a chrome-polishing agent.

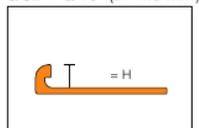
Oxidation films on exposed **solid brass** or **aluminum** can be removed by using a conventional polishing agent, but will form again.

In the case of **anodized aluminum**, **color-coated aluminum**, and **chrome-plated solid brass**, do not use abrasive cleaning agents.

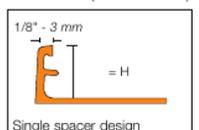
### Product Item Numbers



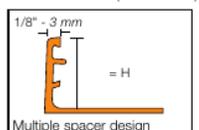
Aluminum, Brass  
3/32" - 3/16" (2 - 4.5 mm)



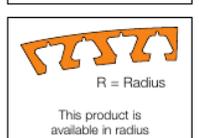
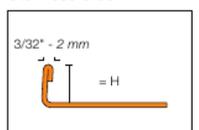
1/4" - 1/2" (6 - 12.5 mm)



17/32" - 1-3/16" (14 - 30 mm)



Stainless steel



### 1.1 Schluter®-SCHIENE

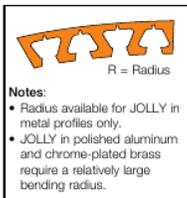
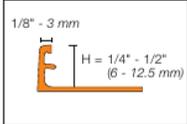
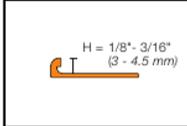
| H =<br>mm - in. | Item No.                                    |  |   |                 |              |                              |
|-----------------|---|--|---|-----------------|--------------|------------------------------|
|                 | Stainless steel 316L (1.4404 = V4A) (E/V4A) | Stainless steel 304 (1.4301 = V2A) (E) | Brushed stainless steel 304 (1.4301 = V2A) (EB) | Solid brass (M) | Aluminum (A) | Satin anodized aluminum (AE) |
| 2 - 3/32        | -   | E 20                                   | -   | -               | A 20         | AE 20                        |
| 3 - 1/8         | -   | E 30                                   | -   | M 30            | A 30         | AE 30                        |
| 4.5 - 3/16      | E 45/V4A                                    | E 45                                   | -   | M 45            | A 45         | AE 45                        |
| 6 - 1/4         | E 60/V4A                                    | E 60                                   | E 60 EB   | M 60            | A 60         | AE 60                        |
| 7 - 9/32        | -   | E 70                                   | -   | -               | A 70         | AE 70                        |
| 8 - 5/16        | E 80/V4A                                    | E 80                                   | E 80 EB   | M 80            | A 80         | AE 80                        |
| 9 - 11/32       | -   | E 90                                   | -   | M 90            | A 90         | AE 90                        |
| 10 - 3/8        | E 100/V4A                                   | E 100                                  | E 100 EB  | M 100           | A 100        | AE 100                       |
| 11 - 7/16       | -   | E 110                                  | E 110 EB  | M 110           | A 110        | AE 110                       |
| 12.5 - 1/2      | E 125/V4A                                   | E 125                                  | E 125 EB  | M 125           | A 125        | AE 125                       |
| 14 - 17/32      | -   | E 140                                  | -   | -               | A 140        | AE 140                       |
| 15 - 9/16       | E 150/V4A                                   | E 150                                  | -   | M 150           | A 150        | AE 150                       |
| 16 - 5/8        | -   | E 160                                  | -   | M 160           | A 160        | AE 160                       |
| 17.5 - 11/16    | E 175/V4A                                   | E 175                                  | -   | M 175           | A 175        | AE 175                       |
| 20 - 3/4        | E 200/V4A                                   | E 200                                  | -   | M 200           | A 200        | AE 200                       |
| 21 - 13/16      | -   | -                                      | -   | -               | A 210        | AE 210                       |
| 22.5 - 7/8      | E 225/V4A                                   | E 225                                  | -   | M 225           | A 225        | AE 225                       |
| 25 - 1          | E 250/V4A                                   | E 250                                  | -   | M 250           | A 250        | AE 250                       |
| 27.5 - 1-1/16   | -   | -                                      | -   | -               | A 275        | AE 275                       |
| 30 - 1-3/16     | E 300/V4A                                   | E 300                                  | -   | M 300           | A 300        | AE 300                       |

Length supplied: 8' 2-1/2" - 2.5 m

### 1.1 Schluter®-SCHIENE

Length = 3.05 m - 10'

| H =<br>mm - in. | Item No.                               |                              |
|-----------------|--|------------------------------|
|                 | Stainless steel 304 (1.4301 = V2A) (E) | Satin anodized aluminum (AE) |
| 8 - 5/16        | E 80/300                               | AE 80/300                    |
| 10 - 3/8        | E 100/300                              | AE 100/300                   |
| 12.5 - 1/2      | E 125/300                              | AE 125/300                   |



**2.3 Schluter®-JOLLY**

| H =<br>mm - in. | Item No.                                       |  |   |   |   |   |
|-----------------|--|--|---|---|---|---|
|                 | Satin<br>brass<br>anodized<br>aluminum<br>(AM) | Brushed<br>brass<br>anodized<br>aluminum<br>(AMGB) | Satin<br>copper<br>anodized<br>aluminum<br>(AK) | Brushed<br>copper<br>anodized<br>aluminum<br>(AKGB) | Satin<br>nickel<br>anodized<br>aluminum<br>(AT) | Brushed<br>nickel<br>anodized<br>aluminum<br>(ATGB) |
| 6 - 1/4         | A 60 AM  | A 60 AMGB  | A 60 AK   | A 60 AKGB   | A 60 AT   | A 60 ATGB   |
| 8 - 5/16        | A 80 AM  | A 80 AMGB  | A 80 AK   | A 80 AKGB   | A 80 AT   | A 80 ATGB   |
| 10 - 3/8        | A 100 AM                                       | A 100 AMGB   | A 100 AK  | A 100 AKGB  | A 100 AT  | A 100 ATGB  |
| 12.5 - 1/2      | A 125 AM                                       | A 125 AMGB   | A 125 AK  | A 125 AKGB  | A 125 AT  | A 125 ATGB  |

| H =<br>mm - in. | Item No.  |   |   |   |   |  |
|-----------------|---|---|---|---|---|--|
|                 | Brushed<br>antique bronze<br>anodized<br>aluminum<br>(ABGB) | Brushed<br>chrome<br>anodized<br>aluminum<br>(ACGB) | Polished<br>chrome<br>anodized<br>aluminum<br>(ACG) | Polished<br>copper<br>anodized<br>aluminum<br>(AKG) | Polished<br>nickel<br>anodized<br>aluminum<br>(ATG) | Polished<br>brass<br>anodized<br>aluminum<br>(AMG) |
| 6 - 1/4         | A 60 ABGB   | A 60 ACGB   | A 60 ACG  | A 60 AKG  | A 60 ATG  | A 60 AMG   |
| 8 - 5/16        | A 80 ABGB   | A 80 ACGB   | A 80 ACG  | A 80 AKG  | A 80 ATG  | A 80 AMG   |
| 10 - 3/8        | A 100 ABGB  | A 100 ACGB  | A 100 ACG   | A 100 AKG   | A 100 ATG   | A 100 AMG  |
| 12.5 - 1/2      | A 125 ABGB  | A 125 ACGB  | A 125 ACG   | A 125 AKG   | A 125 ATG   | A 125 AMG  |

Length supplied: 8' 2-1/2" — 2.5 m

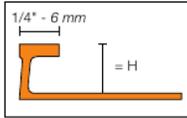
**2.3 Schluter®-JOLLY**

Length = 3.05 m - 10'

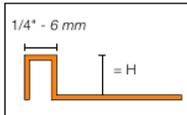
| H =<br>mm - in. | Item No.  |   |   |
|-----------------|---|---|---|
|                 | Satin<br>nickel<br>anodized<br>aluminum<br>(AT) | Brushed<br>antique bronze<br>anodized<br>aluminum<br>(ABGB) | Polished<br>chrome<br>anodized<br>aluminum<br>(ACG) |
| 8 - 5/16        | A 80 AT/300                                     | A 80 ABGB/300   | A 80 ACG/300  |
| 10 - 3/8        | A 100 AT/300                                    | A 100 ABGB/300  | A 100 ACG/300                                       |
| 12.5 - 1/2      | A 125 AT/300                                    | A 125 ABGB/300  | A 125 ACG/300                                       |



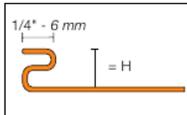
Aluminum & MC 80 D



Brass



Stainless steel



**1.6 Schluter®-DECO**

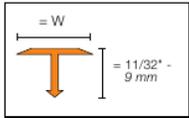
| H =<br>mm - in. | Item No.  |                       |   |                                       |
|-----------------|---|-----------------------|---|---------------------------------------|
|                 | Stainless<br>steel 304<br>(1.4301 = V2A)<br>(E) | Solid<br>brass<br>(M) | Chrome-<br>plated<br>solid<br>brass<br>(MC) | Satin<br>anodized<br>aluminum<br>(AE) |
| 8 - 5/16        | E 80 D  | -                     | MC 80 D                                     | AE 80 D                               |
| 9 - 11/32       | E 90 D  | M 90 D                | MC 90 D                                     | -                                     |
| 10 - 3/8        | E 100 D   | -                     | -   | AE 100 D                              |
| 11 - 7/16       | E 110 D   | M 110 D               | MC 110 D                                    | -                                     |
| 12.5 - 1/2      | E 125 D   | M 125 D               | MC 125 D                                    | AE 125 D                              |
| 14 - 17/32      | E 140 D   | -                     | -   | -                                     |
| 16 - 5/8        | E 160 D   | -                     | -   | -                                     |
| 18.5 - 23/32    | E 185 D   | -                     | -   | -                                     |
| 21 - 13/16      | E 210 D   | -                     | -   | -                                     |
| 25 - 1          | E 250 D   | -                     | -   | -                                     |
| 30 - 1-3/16     | E 300 D   | -                     | -   | -                                     |

Length supplied: 8' 2-1/2" — 2.5 m

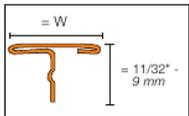
**Note:** Only the brass and aluminum DECO are available in radius.



Aluminum, Brass



Stainless steel



### 1.3 Schluter®-RENO-T

| W =<br>mm - in. | Item No.                               |   |                 |                              |                                     |                                     |                                    |
|-----------------|--|---|-----------------|------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
|                 | Stainless steel 304 (1.4301 = V2A) (E) | Brushed stainless steel 304 (1.4301 = V2A) (EB) | Solid brass (M) | Satin anodized aluminum (AE) | Satin nickel anodized aluminum (AT) | Satin copper anodized aluminum (AK) | Satin brass anodized aluminum (AM) |
| 14 - 9/16       | T 9/14 E                               | T 9/14 EB                                       | T 9/14 M        | T 9/14 AE                    | T 9/14 AT                           | T 9/14 AK                           | T 9/14 AM                          |
| 25 - 1          | T 9/25 E                               | T 9/25 EB                                       | T 9/25 M        | T 9/25 AE                    | T 9/25 AT                           | T 9/25 AK                           | T 9/25 AM                          |

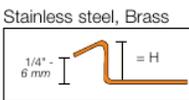
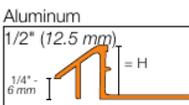
Length supplied: 8' 2-1/2" — 2.5 m



Aluminum (1/4" - 6 mm)



Aluminum 5/16" - 3/8" (8 - 10 mm)



### 1.4 Schluter®-RENO-TK

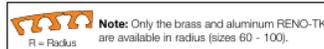
| H =<br>mm - in. | Item No.                               |   |                 |                              |                                       |                                     |   |
|-----------------|--|---|-----------------|------------------------------|---------------------------------------|-------------------------------------|---|
|                 | Stainless steel 304 (1.4301 = V2A) (E) | Brushed stainless steel 304 (1.4301 = V2A) (EB) | Solid brass (M) | Satin anodized aluminum (AE) | Bright chrome anodized aluminum (ACB) | Satin nickel anodized aluminum (AT) | Brushed nickel anodized aluminum (ATGB) |
| 6 - 1/4         | -                                      | -   | -               | AETK 60                      | ATK 60 ACB                            | ATK 60 AT                           | -                                       |
| 8 - 5/16        | ETK 80                                 | EBTK 80   | MTK 80          | AETK 80                      | ATK 80 ACB                            | ATK 80 AT                           | ATK 80 ATGB                             |
| 10 - 3/8        | ETK 100                                | EBTK 100  | MTK 100         | AETK 100                     | ATK 100 ACB                           | ATK 100 AT                          | ATK 100 ATGB                            |
| 11 - 7/16       | ETK 110                                | EBTK 110  | -               | -                            | -                                     | -                                   | -                                       |
| 12.5 - 1/2      | ETK 125                                | EBTK 125  | MTK 125         | AETK 125                     | ATK 125 ACB                           | ATK 125 AT                          | ATK 125 ATGB                            |

| H =<br>mm - in. | Item No.                            |   |   |                                      |
|-----------------|-------------------------------------|---|---|--------------------------------------|
|                 | Satin copper anodized aluminum (AK) | Brushed copper anodized aluminum (AKGB) | Brushed antique bronze anodized aluminum (ABGB) | Bright brass anodized aluminum (AMB) |
| 6 - 1/4         | ATK 60 AK                           | -                                       | -   | ATK 60 AMB                           |
| 8 - 5/16        | ATK 80 AK                           | ATK 80 AKGB                             | ATK 80 ABGB                                     | ATK 80 AMB                           |
| 10 - 3/8        | ATK 100 AK                          | ATK 100 AKGB                            | ATK 100 ABGB                                    | ATK 100 AMB                          |
| 12.5 - 1/2      | ATK 125 AK                          | ATK 125 AKGB                            | ATK 125 ABGB                                    | ATK 125 AMB                          |

Length supplied: 8' 2-1/2" — 2.5 m

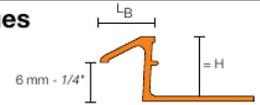


ADA-Compliant



Note: Only the brass and aluminum RENO-TK are available in radius (sizes 60 - 100).

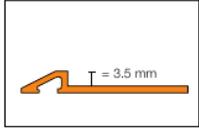
#### Diagram Values



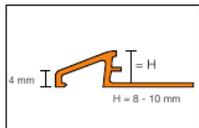
| H =<br>mm - in. | L <sub>B</sub> = mm - in. |                           |
|-----------------|---------------------------|---------------------------|
|                 | Aluminum                  | Stainless steel/<br>Brass |
| 6 - 1/4         | 7.5 - 19/64               | -                         |
| 8 - 5/16        | 8.5 - 21/64               | 7 - 9/32                  |
| 10 - 3/8        | 8.5 - 21/64               | 11 - 7/16                 |
| 11 - 7/16       | -                         | 13.5 - 17/32              |
| 12.5 - 1/2      | 15.5 - 39/64              | 16.5 - 21/32              |



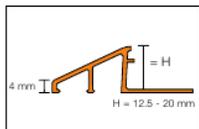
Aluminum  
1/8" (3.5 mm)



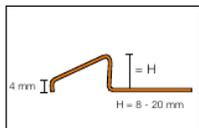
5/16" - 3/8" (8 - 10 mm)



1/2" - 3/4" (12.5 - 20 mm)



Stainless steel, Brass



### 1.2 Schluter®-RENO-U

| H =<br>mm - in. | Item No.                               |   |                 |                              |                                       |                                     |   |   |
|-----------------|--|---|-----------------|------------------------------|---------------------------------------|-------------------------------------|---|---|
|                 | Stainless steel 304 (1.4301 = V2A) (E) | Brushed stainless steel 304 (1.4301 = V2A) (EB) | Solid brass (M) | Satin anodized aluminum (AE) | Bright chrome anodized aluminum (ACB) | Satin nickel anodized aluminum (AT) | Brushed nickel anodized aluminum (ATGB) |   |
| 3.5 - 1/8       | -                                      | -   | -               | AEU 35                       | -                                     | -                                   | -                                       | - |
| 8 - 5/16        | EU 80                                  | EBU 80  | MU 80           | AEU 80                       | AU 80 ACB                             | AU 80 AT                            | AU 80 ATGB                              |   |
| 10 - 3/8        | EU 100                                 | EBU 100   | MU 100          | AEU 100                      | AU 100 ACB                            | AU 100 AT                           | AU 100 ATGB                             |   |
| 11 - 7/16       | EU 110                                 | EBU 110   | -               | -                            | -                                     | -                                   | -                                       |   |
| 12.5 - 1/2      | EU 125                                 | EBU 125   | MU 125          | AEU 125                      | AU 125 ACB                            | AU 125 AT                           | AU 125 ATGB                             |   |
| 15 - 9/16       | EU 150                                 | EBU 150   | MU 150          | AEU 150                      | -                                     | -                                   | -                                       |   |
| 17.5 - 11/16    | EU 175                                 | EBU 175   | -               | AEU 175                      | -                                     | -                                   | -                                       |   |
| 20 - 3/4        | EU 200                                 | EBU 200   | -               | -                            | -                                     | -                                   | -                                       |   |

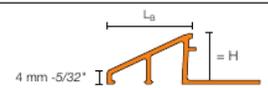
| H =<br>mm - in. | Item No.                            |   |   |                                    |                                      |  |
|-----------------|-------------------------------------|---|---|------------------------------------|--------------------------------------|--|
|                 | Satin copper anodized aluminum (AK) | Brushed copper anodized aluminum (AKGB) | Brushed antique bronze anodized aluminum (ABGB) | Satin brass anodized aluminum (AM) | Bright brass anodized aluminum (AMB) |  |
| 8 - 5/16        | AU 80 AK                            | AU 80 AKGB                              | AU 80 ABGB                                      | AU 80 AM                           | AU 80 AMB                            |  |
| 10 - 3/8        | AU 100 AK                           | AU 100 AKGB                             | AU 100 ABGB                                     | AU 100 AM                          | AU 100 AMB                           |  |
| 12.5 - 1/2      | AU 125 AK                           | AU 125 AKGB                             | AU 125 ABGB                                     | AU 125 AM                          | AU 125 AMB                           |  |

Length supplied: 8' 2-1/2" - 2.5 m

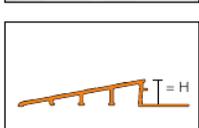
#### ADA-Compliant

**Note:** When leading edge abuts lower surface covering, sizes 3/4" (20 mm) and 11/16" (17.5 mm) are not ADA-compliant. When leading edge rests on top of lower surface covering, sizes 3/4" (20 mm), 9/16" (15 mm), and 11/16" (12.5 mm) are not ADA-compliant.

#### Diagram Values



| H =<br>mm - in. | L <sub>B</sub> = mm - in. |                       |
|-----------------|---------------------------|-----------------------|
|                 | Aluminum                  | Stainless steel/Brass |
| 3.5 - 1/8       | 9 - 23/64                 | -                     |
| 8 - 5/16        | 12.5 - 31/64              | 13 - 33/64            |
| 10 - 3/8        | 16.5 - 21/32              | 17.5 - 11/16          |
| 11 - 7/16       | -                         | 19.5 - 49/64          |
| 12.5 - 1/2      | 22 - 55/64                | 23 - 29/32            |
| 15 - 9/16       | 27.5 - 1-5/64             | 28 - 1-7/64           |
| 17.5 - 11/16    | 27 - 1-1/16               | 33.5 - 1-5/16         |
| 20 - 3/4        | 31.5 - 1-15/64            | 40 - 1-37/64          |



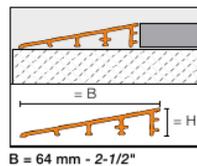
### 1.8 Schluter®-RENO-RAMP

| H =<br>mm - in.           | Item No.                     |  |
|---------------------------|------------------------------|--|
|                           | Satin anodized aluminum (AE) |  |
| <b>B = 50 mm - 2"</b>     |                              |  |
| 6 - 1/4                   | AERP 60 B50                  |  |
| <b>B = 64 mm - 2-1/2"</b> |                              |  |
| 10 - 3/8                  | AERP 100 B65                 |  |
| 12.5 - 1/2                | AERP 125 B65                 |  |
| <b>B = 89 mm - 3-1/2"</b> |                              |  |
| 12.5 - 1/2                | AERP 125 B90                 |  |
| 15 - 9/16                 | AERP 150 B90                 |  |
| 20 - 3/4                  | AERP 200 B90                 |  |

Length supplied: 8' 2-1/2" - 2.5 m

#### ADA-Compliant

**Note:** RENO-RAMP sizes 3/4" - 20 mm and 9/16" - 15 mm are not ADA-compliant.



B = 64 mm - 2-1/2"

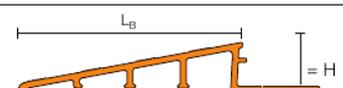
### 1.8 Schluter®-RENO-RAMP-K

| H =<br>mm - in. | Item No.                     |  |
|-----------------|------------------------------|--|
|                 | Satin anodized aluminum (AE) |  |
| 12.5 - 1/2      | AERPK 125 B65                |  |

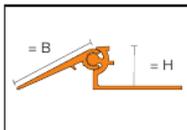
Length supplied: 8' 2-1/2" - 2.5 m

#### Diagram Values

Length supplied: 8' 2-1/2" - 2.5 m



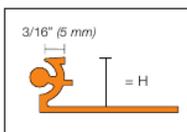
| H = mm - in. | L <sub>B</sub> = mm - in. |
|--------------|---------------------------|
| 6 - 1/4      | 50 - 2                    |
| 10 - 3/8     | 64 - 2-1/2                |
| 12.5 - 1/2   | 64 - 2-1/2                |
| 12.5 - 1/2   | 89 - 3-1/2                |
| 15 - 9/16    | 89 - 3-1/2                |
| 20 - 3/4     | 89 - 3-1/2                |



### 1.7 Schluter®-RENO-V

| H =<br>mm - in.            | Item No.                              |  |
|----------------------------|---------------------------------------|--|
|                            | Satin<br>anodized<br>aluminum<br>(AE) | Satin<br>brass<br>anodized<br>aluminum<br>(AM) |
| <b>B = 20 mm - 3/4"</b>    |                                       |  |
| 8 - 5/16                   | AEVT 80 B20                           | AVT 80 B20 AM                                  |
| 10 - 3/8                   | AEVT 100 B20                          | AVT 100 B20 AM                                 |
| 12.5 - 1/2                 | AEVT 125 B20                          | AVT 125 B20 AM                                 |
| 15 - 9/16                  | AEVT 150 B20                          | AVT 150 B20 AM                                 |
| 17.5 - 11/16               | AEVT 175 B20                          | AVT 175 B20 AM                                 |
| 20 - 3/4                   | AEVT 200 B20                          | AVT 200 B20 AM                                 |
| <b>B = 30 mm - 1-3/16"</b> |                                       |  |
| 8 - 5/16                   | AEVT 80 B30                           | AVT 80 B30 AM                                  |
| 10 - 3/8                   | AEVT 100 B30                          | AVT 100 B30 AM                                 |
| 12.5 - 1/2                 | AEVT 125 B30                          | AVT 125 B30 AM                                 |
| 15 - 9/16                  | AEVT 150 B30                          | AVT 150 B30 AM                                 |
| 17.5 - 11/16               | AEVT 175 B30                          | AVT 175 B30 AM                                 |
| 20 - 3/4                   | AEVT 200 B30                          | AVT 200 B30 AM                                 |
| <b>B = 40 mm - 1-9/16"</b> |                                       |  |
| 8 - 5/16                   | AEVT 80 B40                           | AVT 80 B40 AM                                  |
| 10 - 3/8                   | AEVT 100 B40                          | AVT 100 B40 AM                                 |
| 12.5 - 1/2                 | AEVT 125 B40                          | AVT 125 B40 AM                                 |
| 15 - 9/16                  | AEVT 150 B40                          | AVT 150 B40 AM                                 |
| 17.5 - 11/16               | AEVT 175 B40                          | AVT 175 B40 AM                                 |
| 20 - 3/4                   | AEVT 200 B40                          | AVT 200 B40 AM                                 |

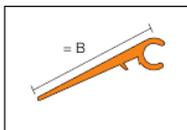
Length supplied: 8' 2-1/2" — 2.5 m



### 1.7 Schluter®-RENO-VT

| H =<br>mm - in. | Item No.                              |  |
|-----------------|---------------------------------------|--|
|                 | Satin<br>anodized<br>aluminum<br>(AE) | Satin<br>brass<br>anodized<br>aluminum<br>(AM) |
| 8 - 5/16        | AEVT 80                               | AVT 80 AM                                      |
| 10 - 3/8        | AEVT 100                              | AVT 100 AM                                     |
| 12.5 - 1/2      | AEVT 125                              | AVT 125 AM                                     |
| 15 - 9/16       | AEVT 150                              | AVT 150 AM                                     |
| 17.5 - 11/16    | AEVT 175                              | AVT 175 AM                                     |
| 20 - 3/4        | AEVT 200                              | AVT 200 AM                                     |

Length supplied: 8' 2-1/2" — 2.5 m



### 1.7 Schluter®-RENO-VB

| B =<br>mm - in. | Item No.                              |  |
|-----------------|---------------------------------------|--|
|                 | Satin<br>anodized<br>aluminum<br>(AE) | Satin<br>brass<br>anodized<br>aluminum<br>(AM) |
| 20 - 3/4        | AEVB 20                               | AVB 20 AM                                      |
| 30 - 1-3/16     | AEVB 30                               | AVB 30 AM                                      |
| 40 - 1-9/16     | AEVB 40                               | AVB 40 AM                                      |

Length supplied: 8' 2-1/2" — 2.5 m

## Schluter® Systems Floor Profiles 5-Year Limited Warranty

**LIMITED WARRANTY COVERAGE:** Subject to the conditions and limitations as stated in this **Schluter® Systems Floor Profiles 5-Year Limited Warranty** (the "**Limited Warranty**"), Schluter Systems warrants that its Schluter®-SCHIENE, Schluter®-JOLLY, Schluter®-RENO-TK, Schluter®-DECO, Schluter®-RENO-U, Schluter®-RENO-T, Schluter®-RENO-RAMP, Schluter®-RENO-RAMP-K, and Schluter®-RENO-V (collectively, the "**Products**") will be free from manufacturing defects and will perform as described in the Schluter Systems Floor Profiles Technical Data Sheet (collectively, the "**Written Materials**") for a period of five (5) years from the date of purchase when installed and used in accordance with the terms and conditions of the Written Materials and industry standard guidelines that are not in conflict with the Written Materials in effect at the time of installation.

For the purposes of this Limited Warranty, "**Owner**" is defined as the original end user of the property in which the Products are installed; and "**Tile Assembly**" is defined to include the Products, non-reusable flooring surfaces, and applicable setting and grouting materials.

This Limited Warranty is only applicable to installations in the United States of America and Canada. Schluter Systems is not responsible or liable under any circumstances for determining the suitability of the Products for the Owner's intended purpose. It is the responsibility of the Owner to consult with an experienced and professional installer to ensure the suitability of the Products, subfloor/substrate and all building materials in the installation and that the Written Materials are followed properly.

**RESOLUTION:** If the Products are installed and used in accordance with the terms and conditions as described hereinabove and such Products are proven defective within the applicable warranty term, the Owner's exclusive remedy and the sole obligation of Schluter Systems, at its election, shall be to (a) reinstall or replace the failed portion of the Tile Assembly or (b) pay an amount not to exceed the original square foot cost of the installation of the Tile Assembly verified to be defective. Due to conditions beyond the control of Schluter Systems (e.g., color and shade availability, discontinuation, normal wear and tear), Schluter Systems cannot guarantee or warrant an exact match to the specific tile, stone, or other flooring materials used in the original installation. In such event, substantially similar materials may be substituted.

**EXCLUSIONS FROM COVERAGE:** This Limited Warranty excludes and in no event shall Schluter Systems have any liability for any indirect, special, incidental, punitive, exemplary, or consequential damages, including lost profits, arising out of or otherwise connected to the failure of the Products or Tile Assembly, regardless of any strict liability or active or passive negligence of Schluter Systems, and regardless of legal theory, whether in contract, tort, extra-contractual or other. This Limited Warranty further excludes any loss or damage arising out of or otherwise connected to: acts of war, terrorism, fire, explosion, natural disaster, acts of God, any failure to comply with the Written Materials, inadequate subfloor/substrate, improper preparation or other failure of subfloor/substrate, faulty or negligent penetration of the Products or subfloor/substrate, intentional acts of destruction, structural failure, misuse of or failure to maintain the Products, normal wear and tear, scratches, dents, corrosion or discoloration (whether caused by excessive heat, chemical cleaning products, abrasive agents or otherwise), efflorescence and shading which are a natural occurrence with cementitious materials and are not considered a defective condition for the purposes of this Limited Warranty, variations of texture, color or shade from those on product samples, packaging materials or other marketing materials, or other causes unrelated to the Products (e.g. floor covering failure, excess point loading, overvoltage). This Limited Warranty excludes exterior applications and applications utilizing glass tile or other non-approved floor coverings, unless specifically approved in writing on a case by case basis by the Schluter Systems Technical Services Director.

This Limited Warranty is conditioned and will be considered null and void and Schluter Systems will have the right to refuse any claims if: (a) the Products have been improperly stored or installed, or (b) the Products are subject to abusive or abnormal use, lack of maintenance, or used in a manner other than that for which the Products were designed or in any way contrary to the Written Materials.

**DISCLAIMER:** There are no warranties beyond this expressed warranty as stated herein. To the extent permitted by law, all other warranties, representations or conditions, expressed or implied, are hereby disclaimed and excluded, including but not limited to the implied warranties of **MERCHANTABILITY** or **FITNESS FOR A PARTICULAR PURPOSE** (as limited to such purposes as described in the Written Materials) or arising from a course of dealing, usage of trade or otherwise by law. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS LIMITED WARRANTY. NO REPRESENTATION, PROMISE, AFFIRMATION OR STATEMENT BY ANY EMPLOYEE OR AGENT OF SCHLUTER SYSTEMS WILL BE ENFORCEABLE AGAINST SCHLUTER SYSTEMS UNLESS IT IS SPECIFICALLY INCLUDED IN THIS LIMITED WARRANTY OR AUTHORIZED IN WRITING BY THE SCHLUTER SYSTEMS TECHNICAL SERVICES DIRECTOR. This Limited Warranty is given in lieu of any other warranty, whether expressed or implied. The remedies contained herein are the only remedies available for breach of this Limited Warranty. This Limited Warranty extends only to the Owner and is not transferable or assignable unless authorized by written agreement and signed by the Schluter Systems Technical Services Director or otherwise prohibited by specific state or provincial law. This Limited Warranty gives you specific legal rights; some states and provinces do not allow disclaimers or other restrictions of implied warranties; some of the above disclaimers may not apply to you. **No changes or modifications of any terms or conditions of this Limited Warranty are permitted unless duly authorized in writing by the Schluter Systems Technical Services Director.** This Limited Warranty shall supersede and replace any and all prior oral or written warranties, agreements, or other representations made by or on behalf of Schluter Systems relative to the Products or the application of the Products and shall apply to any installation occurring on or after April 8, 2019. If the Products are used in conjunction with other Schluter products, a different Schluter warranty may apply. For the most current information and materials regarding Schluter Systems warranties and programs, please visit [https://www.schluter.com/schluter-us/en\\_US/downloadfiles](https://www.schluter.com/schluter-us/en_US/downloadfiles).

**MAKING A CLAIM:** To make a claim under this Limited Warranty, the Owner must provide Schluter Systems<sup>2</sup> with written notice within thirty (30) days of any alleged defect in the Products covered by this Limited Warranty, together with date and proof of purchase of such Products and/or all of its components and name and address of all installers and all invoices related to the original installation, failing which this Limited Warranty shall have no legal effect<sup>3</sup>. Schluter Systems reserves the right at its election and as a condition of this Limited Warranty to inspect the alleged failed and/or defective Products.

All U.S. Claims shall be sent to:

Schluter Systems L.P.  
Attn: Warranty Claims Dept.  
194 Pleasant Ridge Road  
Plattsburgh, NY 12901-5841

All Canadian Claims shall be sent to:

Schluter Systems (Canada), Inc.  
Attn: Warranty Claims Dept.  
21100 chemin Ste-Marie  
Ste-Anne-de-Bellevue, QC H9X 3Y8

<sup>1</sup> If there are any conflicting terms between any Written Materials, the most recently updated document shall be deemed to control.

<sup>2</sup> This Limited Warranty is limited to sales of the Products made in and intended for use in the United States and Canada. For the purposes of this Limited Warranty, Schluter Systems L.P. shall offer warranty coverage to Owners located in the United States, and Schluter Systems (Canada) Inc. shall offer warranty coverage to Owners located in Canada.

<sup>3</sup> In the event that Owner fails to provide such required invoices relating to the original installation, Schluter Systems shall pay Owner an amount equal to the average, reasonable costs of a comparable installation. If the parties fail to agree on such amount, such dispute shall promptly, and in the first instance, be submitted: (a) if a U.S. claim, to arbitration in Clinton County, New York, in accordance with the rules of the American Arbitration Association, or (b) if a Canadian claim, in the Province of Quebec, Canada, in accordance with the ADRIIC Arbitration Rules. Any outcome of such arbitration proceeding shall be final and binding upon the parties hereto.



Schluter Systems L.P. • 194 Pleasant Ridge Road, Plattsburgh, NY 12901-5841 • Tel.: 800-472-4588 • Fax: 800-477-9783  
Schluter Systems (Canada) Inc. • 21100 chemin Ste-Marie, Ste-Anne-de-Bellevue, QC H9X 3Y8 • Tel.: 800-667-8746 • Fax: 877-667-2410

[www.schluter.com](http://www.schluter.com)

This technical data sheet is subject to change without notice. Please visit [www.schluter.com](http://www.schluter.com) for the latest version.

## TRANSITIONS STRIPS

### Metal Edge Trim

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Manufacturer: Schluter Systems  
Style/Series: Schluter®-SCHIENE R1

### Sales Rep

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#### Primary

Steve Brasington  
Email: SBrasington@schluter.com  
Office Phone: (803) 429-2950

### Attributes

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Metal Edge Trim

Type: Metal Edge Trim

#### DIMENSIONS

Dimension Explanation: Coordinate height with flooring material

#### MATERIAL/FINISH

Material Composition: Stainless Steel  
Color: Brushed Stainless Steel EB

#### PERFORMANCE

Accessibility Compliance : All horizontal Surfaces: COF 0.42 when wet (ANSI A326.3)  
Quality Standards: ANSI A108/A118/A136.1 American National Specifications for the Installation of Ceramic Tile; TCNA Handbook for Ceramic, Glass, and Stone Tile Installation

#### MISCELLANEOUS

Lead Time: To be verified  
Warranty: Warranted to be free from manufacturing defects for a period of 5 years from the date of the purchase order

#### CUSTOM FIELDS

### Notes

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Where alternate tile flooring occurs, use this transition strip.



WP - Wall Panels

## WALL PANELS

### FRP Panels

---

Manufacturer: Marlite  
Style/Series: Standard FRP

### Attributes

---

FRP Panels

Type: Standard FRP

### DIMENSIONS

Dimension Explanation: 4' x 8' x 3/32", 4' x 10' x 3/32"

### MATERIAL/FINISH

Material Composition: Fiberglass Reinforced Plastic Composite Panels

Color: P 440N Biscuit  
Finish: Pebbled Surface

### PERFORMANCE

Accessibility Compliance : Not Applicable  
Accessories: Adhesives per manufacturer's recommendation  
Acoustical Performance: Not Applicable  
Best Practices: Greenguard Gold Certified  
Classification: Not Applicable  
Compressive Strength: Not Applicable  
Fire/Smoke Rating: Class A or Class C  
Grade: Not Applicable  
Operation: Not Applicable  
Quality Standards: Meets USDA/FSIS requirements  
Structural Performance: Not Applicable  
Thermal Performance: Not Applicable  
Water Sense: Not Applicable



# FRP PANELS

*Innovative Durability for Secondary Spaces*



Induro™ FRP • Artizan™ FRP • Symmetrix™ FRP

Envue™ FRP • Laminated FRP • Standard FRP

 **Marlite**®



# Secondary Spaces

## *Markets Served*

Healthcare Facilities  
Schools & Universities  
Restaurants  
Hotels & Casinos  
Houses of Worship

Transportation Terminals  
Office & Residential Buildings  
Fitness Centers & Spas  
Grocery, Convenience & Drug Stores  
Government Buildings

# Walls That *work*

*Secondary Spaces:* Dining rooms, patient rooms, fitness areas, kitchens, restrooms, merchandising displays, service counters

Functional  
Easy to Clean  
Safe  
Secure  
Protective  
Useful



# Marlite FRP

Once considered bland and boring, Marlite now offers the industry's most innovative FRP products. Marlite FRP (fiberglass reinforced plastic) wall panels provide ultimate durability, satisfying the most stringent demands. Marlite FRP is tough, water-resistant, economical to install and easy to maintain. Only Marlite allows you to design beautiful, affordable interiors for high wear spaces. Once limited to kitchens and restrooms, these products enhance classrooms, hospital rooms, waiting rooms, offices, hallways, corridors, dining rooms and recreational areas – virtually any space within commercial interiors.



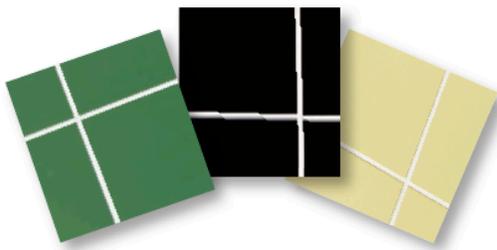
## Induro™ FRP

Unmatched durability in a wide array of attractive laminate finishes. See pages 6 and 7



## Artizan™ FRP

Unique surface technology offers exceptional wood grain and abstract patterns. See pages 8 and 9



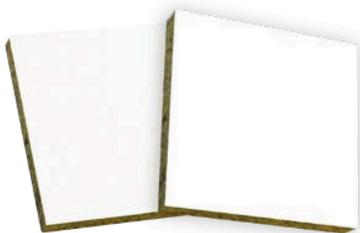
## Symmetrix™ FRP

Precision grid score lines provide the look of tile without the installation and maintenance difficulties. See pages 10 and 11



## Envue™ FRP

Create dramatic photo or graphic mural walls.  
See page 12



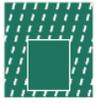
## Laminated FRP

Install directly to studs and add structural rigidity with FRP laminated to plywood or gypsum. See page 13



## Standard FRP

Classic colors on smooth or pebble textured surfaces. See pages 14 and 15



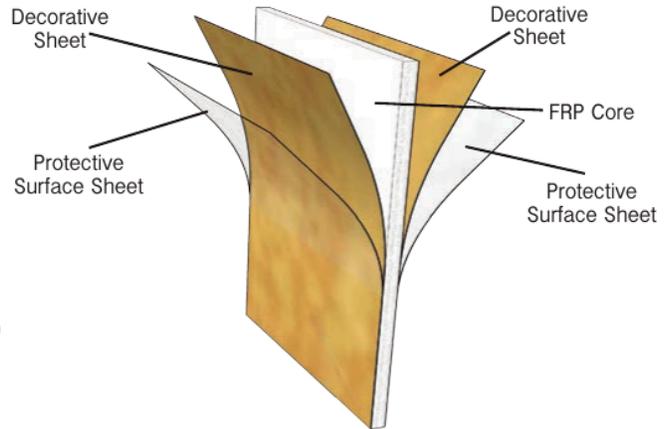
# Induro™ FRP

The ultimate in wall protection, Induro Decorative Laminate FRP is an exceptionally wear resistant panel created through an exclusive process of thermally bonding melamine impregnated surfacing materials directly to the FRP core. Designed to match and coordinate with popular high pressure laminates (HPL), the panels are available in a wide array of woodgrains, solid colors and abstract prints.

## Features and Benefits

- Offers the same outstanding durability as HPL.
- Possesses the same impact and moisture resistant properties as FRP.
- Balanced for panel integrity.
- Coordinates beautifully with HPL tabletops and case goods.
- Class A and Class C fire-ratings.
- The easiest, most affordable way of applying laminate to walls.

## Exclusive Panel Construction



Panel Dimensions – 47 1/2" x 95 1/2" x 3/32" (nominal)

## Impact Test

ASTM D5420-04 product on 1/2" Drywall



Rigid plastic wall panel - complete structural failure.



Induro™ FRP wall panel - nominal damage.



## Induro Finish Options

### Faux Woodgrains



7925 Monticello  
Maple



7061 Natural Pear



FP610 Hard Rock  
Maple



7922 Brighton  
Walnut



7924 Biltmore  
Cherry



7939 Blonde Echo

### Abstract Patterns



4143 Neutral Glace



4746 Woolamai  
Brush



FP612 Graphic  
Spectrum



4810 Titanium



4893 Tumbled  
Mosaic



4873 Western  
Bronze

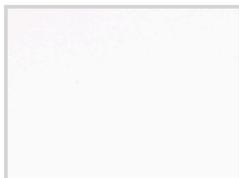


4878 Pewter Mesh



4745 Maroochy  
Brush

### Solid Colors



D354 Designer White



D381 Fashion Grey



Induro FRP can be special ordered in laminate finishes from WilsonArt, Nevamar, Pionite and Arborite.



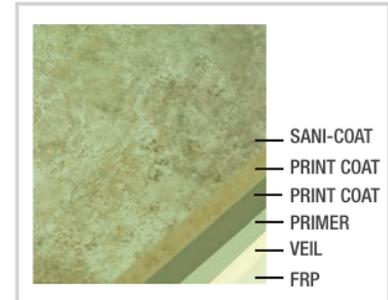
# Artizan™ FRP

Artizan special formula FRP has a richly detailed and easy-to-maintain surface that is more economical than decorative laminates. The base coat, precision and print coats and melamine topcoats are applied to create a tough, durable finish.

## *Features and Benefits*

- Replaces bland walls with exciting ambience.
- Resists impact, stains, bacteria, mold and mildew and won't crack.
- Costs less installed than most ceramic tile, HPL or vinyl materials.
- Wipes clean easily with standard cleaning solutions.
- Meets USDA/FSIS requirements.
- Available in Class III/C and Class I/A Fire-rating.

Panel Dimensions – 4' x 8' x  $\frac{3}{32}$ " (nominal)



For Artizan FRP, create your own Marlite finish by providing a pattern swatch.



## Artizan FRP Finish Options

### Faux Woodgrains



148 Monticello Anigre



310 Sierra Maple



715 Mahogany



5408 Monterey Sand



5409 Townsend



5340 Sorrel



5341 Isabelline



5342 Grullo



5343 Cremello

### Abstract Patterns



194 Cody



209 Adara



211 Grizel

### Stone Grid - Smooth Finish FRP Panels



181-G1212 Dusk  
(12x12 1/4" score)



182-G1212 Oxide  
(12x12 1/4" score)



5415-G88 Coronado  
(8x8 1/4" score)



5416-G88 Catalina  
(8x8 1/4" score)

### Stone Grid - Textured Finish FRP Panels



T936-G44 Milan  
(4x4 1/8" score)



T938-G44 Tuscany  
(4x4 1/8" score)



T938-G88 Tuscany  
(8x8 1/4" score)



T939-G44 Verona  
(4x4 1/8" score)



T939-G88 Verona  
(8x8 1/4" score)



T5413-G1212 Genoa  
(12x12 1/4" score)



T5417-G88 Salerno  
(8x8 1/4" score)



5348-G1212 Oyster  
(12x12 1/4" score)



5349-G1212 Amanita  
(12x12 1/4" score)



5350-G1212 Portabello  
(12x12 1/4" score)



# Symmetrix™ FRP

Symmetrix scored FRP Panels with Sani-Coat provide a superior visual appearance over ceramic tile at minimal cost and without the installation and maintenance difficulties. Choose from an array of colors, patterns and scoring options to create a multitude of designs.

## Features and Benefits

- Resists staining, scratching, mold and mildew and won't crack or deteriorate like ceramic tile grout lines.
- Provides outstanding impact resistance due to fiberglass core.
- Costs less installed than most ceramic tile.
- Wipes clean easily with standard cleaning solutions.
- Meets USDA/FSIS requirements.
- Available in Class III/C Fire-rating.

Panel Dimensions – 4' x 8' x 3/32"  
4' x 10' x 3/32" (select finishes)

## Coated Groove Advantage

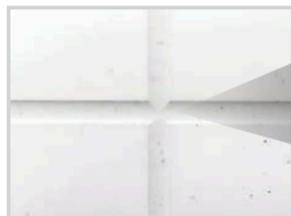
Marlite's Innovative Sani-Coat topcoat seals the groove of each Symmetrix panel offering several advantages over ceramic tile grout lines.

- Protects against mold and mildew growth.
- Is easy to clean, requiring no brushing or scrubbing.
- Won't deteriorate due to moisture or dirt.
- Possesses the same outstanding stain resistance as the panel face.
- Won't crack.

Meets ASTM D3273-94, D3274-95



Ceramic Tile  
5X Magnification



Symmetrix FRP  
5X Magnification



# Symmetrix FRP Finish Options

## Checkerboard & Accents



C 150 G44  
White with Black



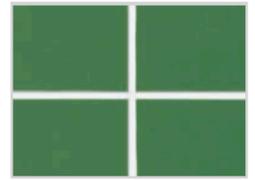
C 151 G44  
White with Everglade



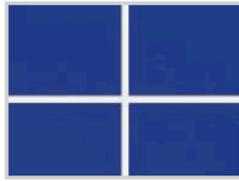
C 153 G44  
White with Periwinkle



C 105 G44  
Black



C 131 G44  
Everglade

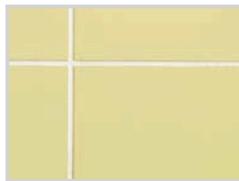


C 133 G44  
Periwinkle

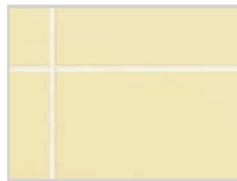
## Classic Colors



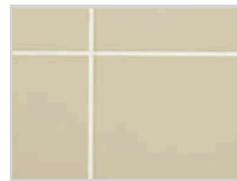
C 100-G44 White\*  
C100-G66 White



C 118-G44 Almond\*



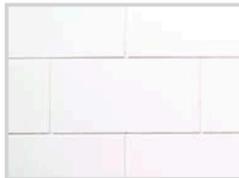
C 140-G44 Ivory



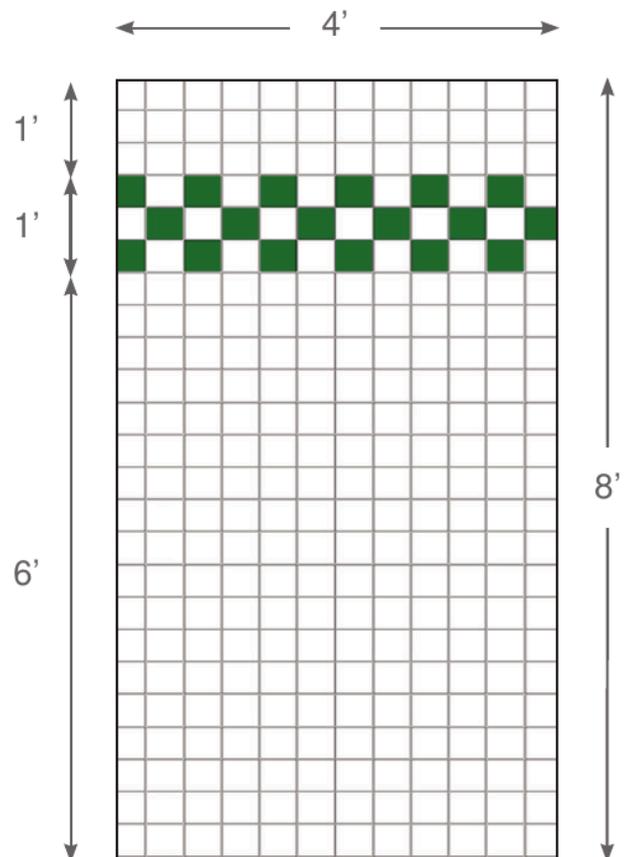
C 145-G44 Silver

\*Available in 4' x 10' x 3/32"

## Subway Tile



C 100-G63 White



Full panel Checkerboard, nominal sizes.  
Other pattern configurations available.

# Envue™ FRP

Design hi-res mural walls that create a stunning visual effect – on a tough, sanitary surface. Envue FRP wall panels provide optimum graphic reproduction, protected by Marlite's Sani-Coat sealer. Installed panels are resistant to moisture, stains, mold and mildew – and are easily wiped clean.

## *Features and Benefits*

- Offers feature wall appeal for high wear spaces.
- Resists impact, stains, bacteria, mold and mildew, and won't crack.
- Costs less installed than custom-printed HPL and vinyl wall coverings.
- Wipes clean easily with standard cleaning solutions.
- Meets USDA/FSIS requirements.
- Available in Class III/C and Class I/A Fire-rating.

Panel Dimensions – up to 4' x 10' x 3/32" (nominal)

## *Create Graphics with Ease*

Creating a stunning custom graphic wall has never been easier. Simply provide high resolution art, and Marlite will bring it to life. Photographs, logos, artwork or abstract patterns – from subtle accents to breathtaking graphics large enough to cover an entire wall – Marlite delivers.





# Laminated FRP

Laminated FRP is a durable, fiberglass sheet factory laminated to a gypsum or plywood core for enhanced structural rigidity. Laminated FRP is ideal for new construction of walls, ceilings or partitions. They easily install directly to studs, ceiling joists, furring strips or solid surfaces.

## Features and Benefits

- USDA, FDA and Agriculture Canada certified.
- Wood substrate for structural strength rigidity.
- Resists moisture, stains, odors, chemicals, impact and scratches.
- Cleans easily with steam, high pressure sprayers or soap/water.
- Class A or Class C fire-rating available.
- Available in a wide variety of custom colors, sizes and other substrates.
- Meets ASTM D-5319 Standard Specification for Glass-Fiber Reinforced Polyester Wall & Ceiling Panels.

### Panel Dimensions

3/8" Fir Exterior Plywood/White FRP  
5/8" Fire-Rated Gypsum/White FRP

4' x 8'  
4' x 8'

### Fire-Rating

Class A  
Class C

### Pebbled Surface



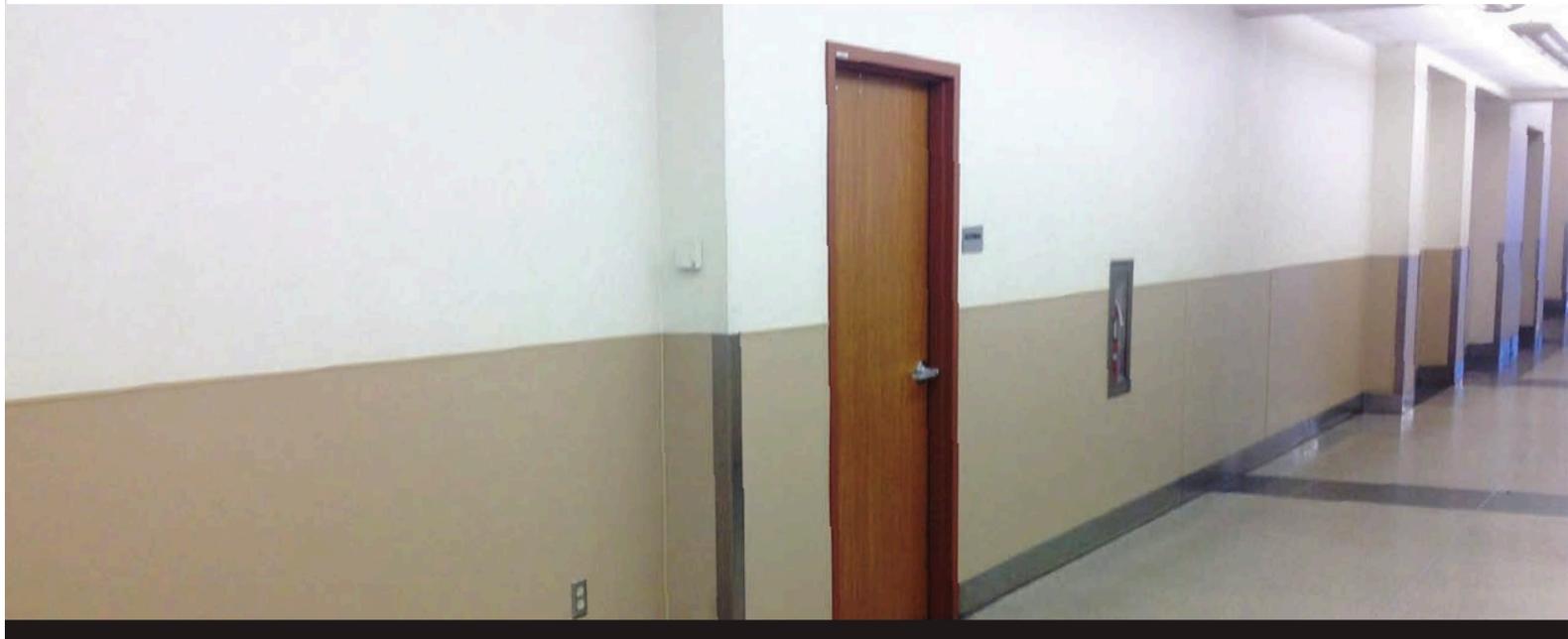
P 100 White  
P 100 White Class A

### Smooth Surface



S 100 S/2/S White

Other colors are available by request. Minimum orders and lead times apply.



# Standard FRP

Standard FRP is available in textured and smooth surfaces that provide excellent durability in high wear spaces. It is tough, water-resistant, economical to install and easy to maintain. Standard FRP is GREENGUARD Children & Schools Certified for low chemical emissions.



## Features and Benefits

- Resists stains, chemicals, scratches and abrasions and possesses high impact strength.
- Resistant to moisture, making the panel ideal for wet environments and does not support the growth of mold or mildew.
- Costs less installed than most other high impact products.
- Wipes clean easily with standard cleaning solutions.
- Meets USDA/FSIS requirements.
- Approved by Canadian Food Inspection Agency and Agriculture Canada.
- Available in Class III/C and Class I/A Fire-rating.

### Panel Dimensions

- 4' x 8' x 3/32"
- 4' x 9' x 3/32" (select finishes)
- 4' x 10' x 3/32"
- 4' x 12' x 3/32" (select finishes)

### FRP Ceiling Panels

#### FRP P100CP White

- Fire Rating - Class C, Class A
- Size - 2' x 4' x .090
- 2' x 2' x .090

#### FRP P100CP w/ Gypsum

- Fire Rating - Class A
- Size - 2' x 4' x 23/32"\*
- \*.090 FRP Laminated to 5/8" Fire Rated Gypsum



## Standard FRP Finish Options

### Pebbled Surface

Dimensions – 4' x 8' x 3/32"  
 4' x 10' x 3/32"  
 \*Also available in 4' x 9' x 3/32"



P 100 White\*  
 P 100 White Class A\*



P 118 Natural Almond\*  
 P118 Nat. Almond Class A



P 145 Silver\*  
 P 145 Silver Class A



P 199 Bright White\*  
 P 199 Bright White Class A



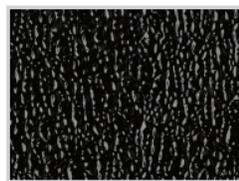
P 106 Beige  
 P 106 Beige Class A



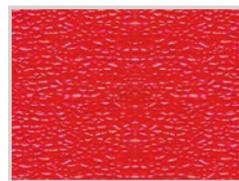
P 140 Ivory\*  
 P 140 Ivory Class A



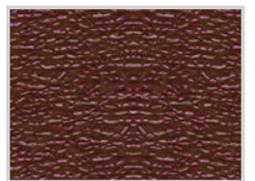
P 151 Light Grey\*  
 P 151 Light Grey Class A



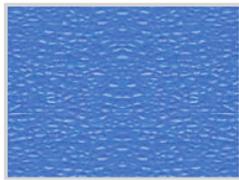
P 807 Black



P 400N Red



P 410N Brown



P 420N Blue



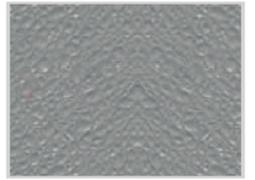
P 430N Medium Gray



P 440N Biscuit



P 460N Maroon



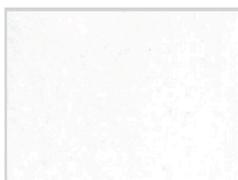
P 470N Dark Gray



P 460N Light Yellow

### Smooth Surface

Dimensions – 4' x 8' x 3/32"  
 4' x 10' x 3/32"



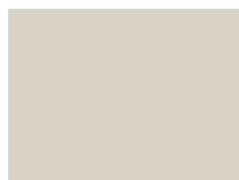
S 100 S/2/S White



S 100G White



S 118G Almond



S 490N Smooth Light Gray

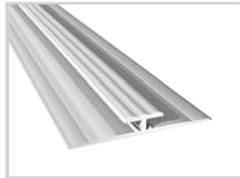


### Aluminum Trim

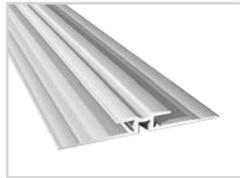
- Length – 8'
- Colors – As specified with FRP
- Material – Extruded aluminum with durable finish

### Designer Trim

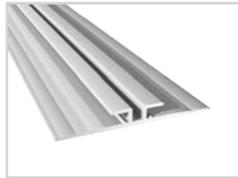
Available in Clear Satin Anodized or Harmonizing color



Ribbed F566



Radius F567



Square Channel  
F568

### Harmonizing Trim

Durable painted aluminum trim molding harmonizes with any FRP finish.



Inside Corner A551



Outside Corner A560



Division A565



Edge A570

### Anodized Trim

Satin, Bright Satin or Black Satin Anodized aluminum trim molding for use with any FRP finish.



Inside Corner F550



Outside Corner F561



Division F565



Edge F570

## PVC Trim

Length – 8' and 10'

Colors – Standard FRP colors- white, beige, natural almond, ivory, silver, light grey, black

Material – Extruded PVC with integral color



M350 Inside Corner



M360 Outside Corner



M365 Division



M370 Edge



V177 135° Inside  
Corner



V179 135° Outside  
Corner



V65 Base Cove 3"

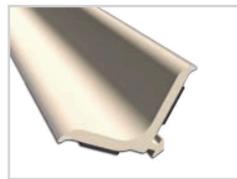
## Sani-SEAL Trim

(For use with smooth, unscored panels only. Not for use with Induro FRP.)

Length – 10' (unless noted otherwise)

Colors – White, Umber, Tan, Slate, Black

Material – Extruded polypropylene, monprene



Inside Corner S650



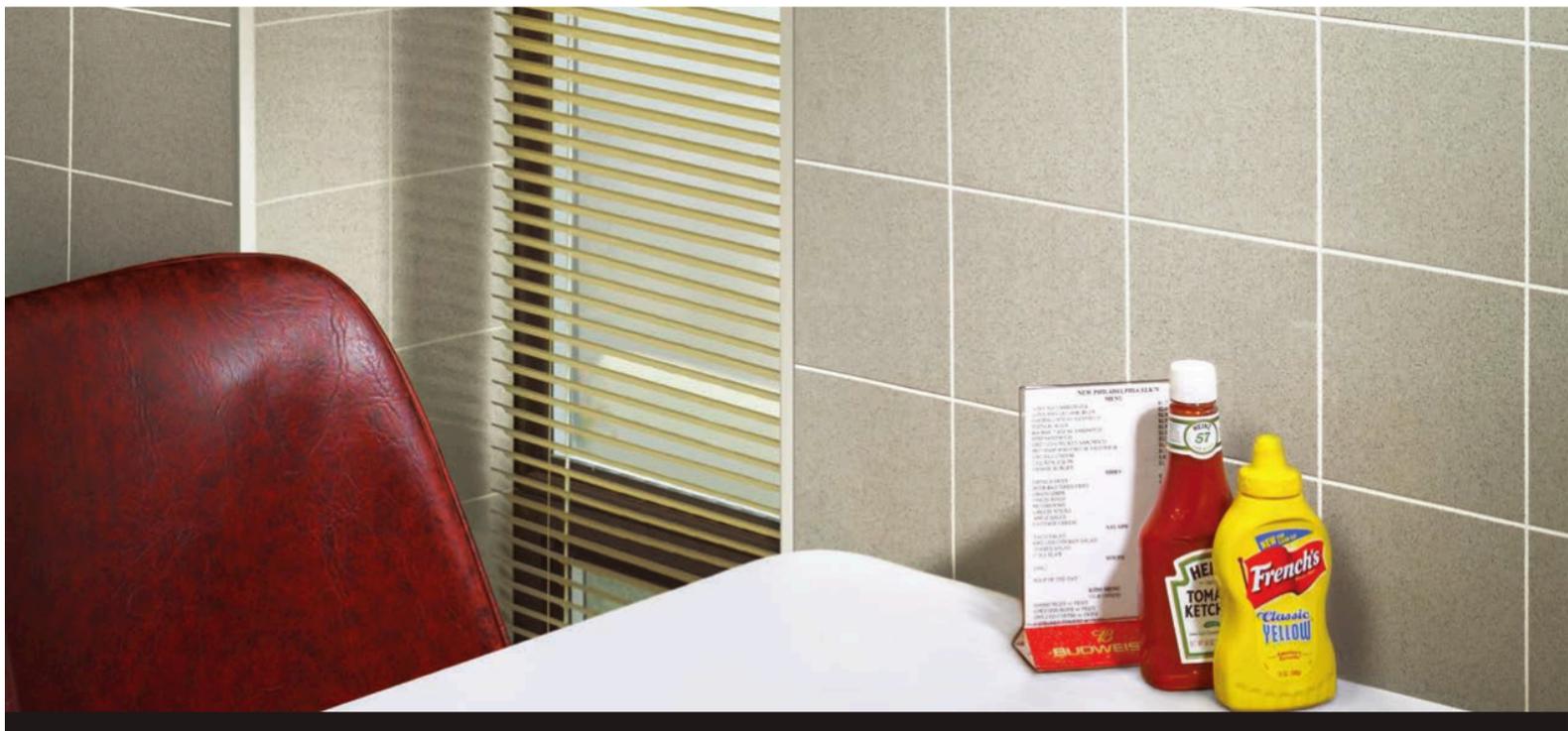
Outside Corner S660



Division 665  
8' length



Edge S670



## Base Molding and Corner Guards



M612 Base

### Base Molding

Length – 4" wide x 10' long

Colors – P200 Black, P203 Quarry Red

Material – Rigid Extruded PVC



M 651 Inside Corner



M 660 Outside Corner



End Caps  
M 625 RH End Cap  
M 620 LH End Cap



Butt Joint  
Connector  
Included with Base  
Molding Strips



M 961  
PVC Outside  
Corner Guard

### Corner Guard

Length – 8' and 10' long

Material – Stainless Steel or Rigid Extruded PVC

Colors – Most standard Marlite FRP colors-White, Natural  
Almond, Ivory\*, Silver\*, Light Grey\*

\*Denotes 10' length only



F 560SS Stainless  
Corner Guard







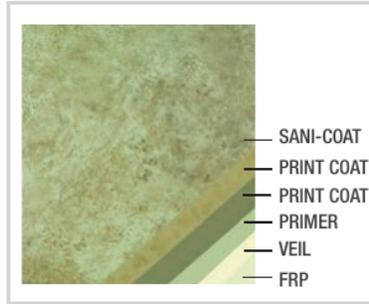
# Custom FRP Capabilities

Marlite's custom FRP capabilities are virtually limitless. Contact us today to learn how we can deliver superior durability and the exact aesthetic you envision.

## Custom Finishes



For Induro FRP, select from an array of laminates from any major brand.



For Artizan FRP, create your own Marlite finish by providing a pattern swatch.



For Symmetrix FRP, select any solid color, from Lime Green to Raspberry Red.

(Minimum order quantities and other terms may apply.)

## Strata Patterns

(Only for use with Artizan FRP and Symmetrix FRP.)

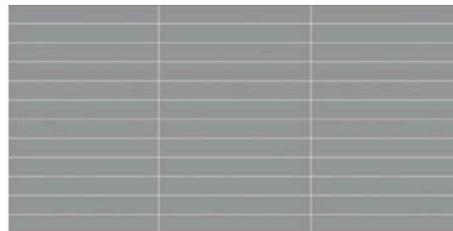
### Running Bond Pattern:

Each block segment - 48" w x 4" h



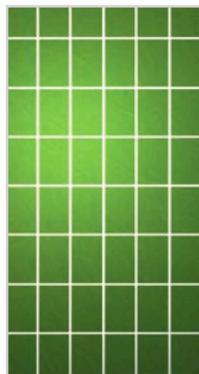
### Stacked Pattern:

Each block segment - 32" w x 4" h



## Custom Grooves

Feature large grids, small grids, rectangles, brick patterns, diamonds, even company logos and intricate designs.





FRP panels install easily and in a fraction of the installation time of ceramic tile. Installation varies depending on FRP type. Contact Marlite or visit [www.marlite.com](http://www.marlite.com) for specific installation instructions.

**Adhesives**

- C915 Adhesive..... 3.5 gallon can
- Adv Polymer Panel Adhesive ..... 3.5 gallon can
- C-551 Adhesive ..... 3.5 gallon can

**Sealants**

- MS-250 Clear ..... 10 oz. cartridge
- MS-251 White..... 10 oz. cartridge
- Color Matched ..... 10 oz. cartridge

Trowel ..... 3/16" W x 1/4" D x 1/2" C-C notch



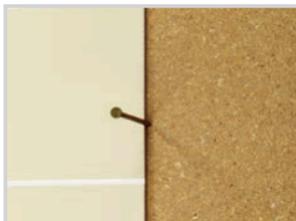
FRP panels can be easily cut with shears or a carbide tip saw.



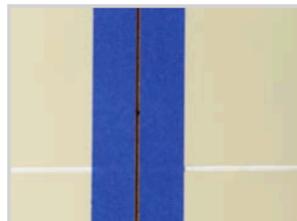
Apply Marlite Brand Adhesive to the back of panels and apply them to a subwall.



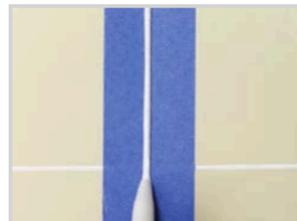
**Seam Joint Installation**



Place a 6 penny spacing nail between panels.



After adhesive dries one hour, remove nail and protect face with tape.



Place a bead of harmonizing sealant in the gap.



Using your finger, place a slight indentation in the gap.



Remove tape to reveal a grooved and matched seam joint.

Marlite offers other dynamic products for commercial interiors. Please visit [www.marlite.com](http://www.marlite.com) for more details.

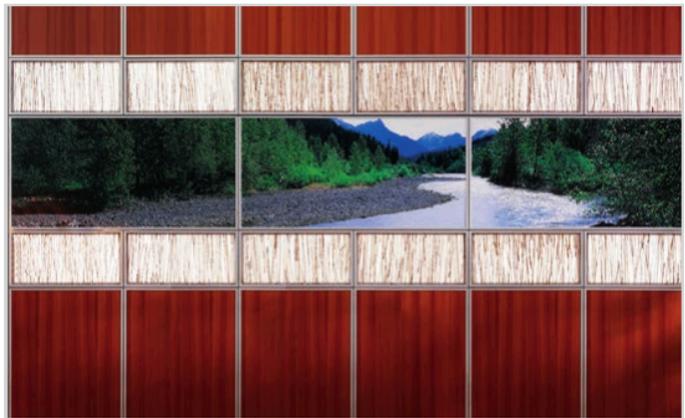
# Walls That *welcome*



*Primary Spaces:* Atriums, lobbies, main corridors, executive suites, conference rooms, offices

Surface Systems®  
Modules™  
Sieva™

# Walls That *wow*



*Feature Walls:* Focal areas and special accent walls. Perfect for branding.

Myriad™  
Volta™  
Volta Flex™

# Walls That *work*



**Secondary Spaces:** Dining rooms, patient rooms, gymnasiums, kitchens, restrooms

Induro FRP  
Artizan FRP  
Symmetrix FRP  
Envue FRP  
Standard FRP

Plank and Panels  
Slatwall  
Slatwall EQ  
Laminated FRP





Dover, Ohio 44622  
www.marlite.com

Ph: 800.377.1221  
info@marlite.com

Form No. FR30-11151

Effective Date: 12/15/15

Printed in USA

Marlite is committed to protecting our environment and sustaining resources for future generations.

Printed on Recycled Paper

## WALL PANELS

### Standard FRP Wall Protection Panels

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Manufacturer: Marlite Wall Systems  
Style/Series: Marlite FRP

### Attributes

---

Standard FRP Wall Protection Panels

### DIMENSIONS

Panel Size: 4'-0" x 8'-0"  
Thickness: 3/32"

### MATERIAL / FINISH

Color: P 145 Silver =  
Finish: Smooth  
Material Composition: Fiberglass Reinforced Plastic

### PERFORMANCE

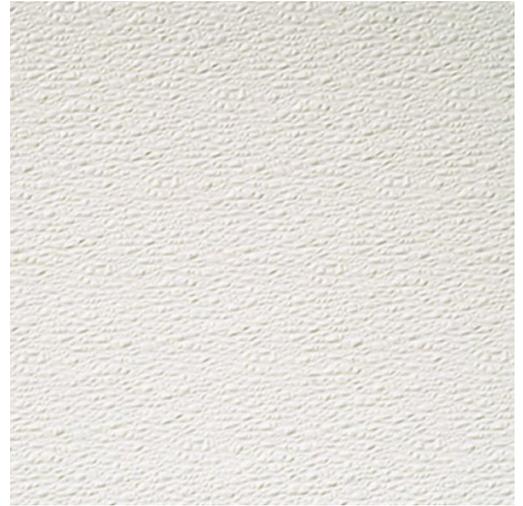
Accessories: Manufacturer's Recommended Adhesive and Trim Kits  
Best Practices: Greenguard Certified  
Grade: Class A / Class C

### MISCELLANEOUS

### Notes

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<https://tinyurl.com/355zbsum>



**WALL PANELS**

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Manufacturer: TBD  
Style/Series: TBD

**Attributes**

---

**DIMENSIONS**

**MATERIAL / FINISH**

**PERFORMANCE**

TBD