



# Door sealing systems



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Door sealing systems

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# The standard for quality in door sealing hardware

Allegion's Zero International brand is recognized as the standard for quality in door sealing hardware. Our perimeter seals and thresholds are engineered for durability and reliable performance even under the most challenging installation and operating conditions. Our sealing products also support green building applications by promoting heating and cooling efficiency.

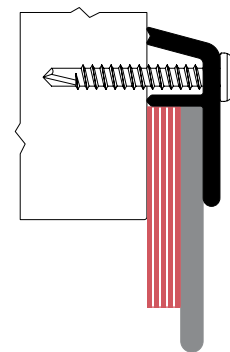
The comprehensive Zero product line includes advanced sound-control gasketing and a full array of other specialized sealing systems for doors and windows, as well as intumescent fire and smoke protection systems. We also offer a line of flood barrier shields with proven value for protecting door openings and building contents in flood-prone areas



Sound trap system



Patented automatic door bottom technology



Gap solutions-  
restore lost fire rating



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# Base materials

## Aluminum

Aluminum products are extruded from the 6063 alloy with hardness of T5 or T6. A variety of finishes are available. See specific model numbers for available finishes. Note that some finishes, such as aluminum mill, wear better in high traffic applications than others. Anodized options are offered, they will show wear a little faster in abrasive applications and do not carry a warranty on finish.

## Bronze

Bronze products are extruded from brass alloy 380, technically known as "architectural bronze". It contains 57.5% copper, 41% zinc, 1.3% lead, and 0.2% aluminum. When furnished in mill finish, a light golden color, it oxidizes over time to a rich darkened bronze.

## Spring Bronze

Rolled bronze, used only for cushion and spring material, is technically known as commercial bronze. The alloy is 85- 90% copper and 10-15% zinc. Commonly used material in weatherstripping applications.

## Zinc

Rolled zinc is alloy 191, and is highly resistant to corrosion. When exposed to the elements, a zinc carbonate film is formed providing long-term protection. Commonly used material in weatherstripping applications.

## Neoprene

The neoprene used in Zero gasketing is a multipurpose synthetic rubber with a balanced combination of properties. Zero products use two types of neoprene: closed-cell sponge and solid. All neoprene is black in color, and by virtue of its chlorine content, is flame-resistant and self-extinguishing.

## Silicone

Silicone-rubber has many variations and can be compounded to meet any number of applications with tensile strength up to 1500 PSI. Other properties include: low compression set, good resilience, moderate solvent resistance, excellent heat resistance, good release characteristics, and good performance at extreme low temperatures. Generally not recommended for exposure to concentrated solvents and acids, or dilute sodium hydroxide.

## EPDM rubber

EPDM rubber is excellent for outdoor use. It is well known for its superior ozone, weathering, and aging resistance. It also has excellent water and steam resistance, maintains its flexibility at low temperatures, features excellent resistance to alkalis, acids, and oxygenated solvents, and is very color stable. EPDM is generally not recommended for use in environments where exposure to oil, gasoline, and hydrocarbon solvents is common.

## Polypropylene brush

Inert polypropylene polymer resists deterioration under harsh environmental conditions. It consists of a "brush" of polypropylene fiber held by a carrier of the same material. They are welded together to resist corrosion, unlike the metal carrier of a traditional brush. The polypropylene fin running down the center of the fibers is unique. The fin is every bit as flexible as the fibers themselves but, more importantly it makes the material twice as effective as a "traditional brush" in air infiltration tests.





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Door sealing systems

# Product symbols and classification standards



## FIRE RATED-UL10C

UL Classified to ANSI/UL 10 C, Positive Pressure Fire Tests of Door Assemblies, for application to hollow metal type fire doors rated up to 3 hours, fiberglass or wood composite type fire doors rated up to 1-1/2 hours, and wood type fire doors rated up to 20 minutes.



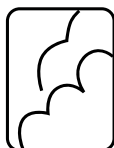
## FIRE RATED-UL10B

UL Classified to ANSI/UL 10 B, Fire Tests of Door Assemblies, for application to hollow metal type fire doors rated up to 3 hours, fiberglass or wood composite type fire doors rated up to 1-1/2 hours, and wood type fire doors rated up to 20 minutes.



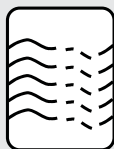
## FIRE RATED-CAN

UL Classified to CAN/ULC-S 10 4 Standard Method for Fire Tests of Door Assemblies for application to hollow metal type fire doors rated up to 3 hours, fiberglass or wood composite type fire doors rated up to 1-1/2 hours, and wood type fire doors rated up to 20 minutes.



## SMOKE AND DRAFT CONTROL

UL Classified to ANSI/UL 10 C and ANSI/UL 178 4 as Category H Smoke & Draft Control Gasketing. Complies with IBC and NFPA 105 for use on "S" labeled positive pressure fire doors. Check UL File # R18465 for complete details of fire door requirements and ratings for models marked with this symbol.



## AIR INFILTRATION

Tested in accordance with ASTM E-283 Standard Test for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors.



## SOUND

Acoustical rating achieved by OEM testing using specific door assembly configurations.



## ADA ACCESSIBLE

For use with ADA compliant doors meeting requirements of ICC/ANSI A 117.1-20 17 Standard for Accessible and Usable Buildings and Facilities, and IBC 2018.



## WARNOCK HERSEY MARK



## UL - UNDERWRITER LABORATORIES MARK

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty applications

Appendix

# Notes





# Thresholds

Door sealing systems



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## Thresholds

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## Accessories &amp; options

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## Saddle thresholds

|            |    |
|------------|----|
| 63 .....   | 14 |
| 64 .....   | 14 |
| 544 .....  | 14 |
| 545 .....  | 14 |
| 545B ..... | 14 |
| 546 .....  | 14 |
| 547 .....  | 15 |
| 548 .....  | 15 |
| 653 .....  | 15 |
| 654 .....  | 15 |
| 664 .....  | 15 |
| 164 .....  | 16 |
| 655 .....  | 16 |
| 8655 ..... | 16 |
| 656 .....  | 16 |
| 6570 ..... | 17 |
| 647 .....  | 17 |
| 657 .....  | 17 |
| 6575 ..... | 17 |

## Half-saddle thresholds

|            |    |
|------------|----|
| 1545 ..... | 18 |
| 15 .....   | 18 |
| 1545B..... | 18 |
| 304.....   | 18 |
| 1673 ..... | 18 |
| 1674 ..... | 18 |
| 1675 ..... | 18 |
| 627 .....  | 19 |
| 628 .....  | 19 |
| 523 .....  | 19 |
| 524 .....  | 19 |
| 622 .....  | 19 |
| 623 .....  | 19 |

## Offset thresholds

|           |    |
|-----------|----|
| 102 ..... | 20 |
| 104 ..... | 20 |
| 103 ..... | 20 |

## Rabbeted thresholds

|           |    |
|-----------|----|
| 564 ..... | 21 |
| 566 ..... | 21 |
| 567 ..... | 21 |
| 568 ..... | 21 |
| 267 ..... | 22 |
| 663 ..... | 22 |
| 265 ..... | 22 |
| 65 .....  | 22 |
| 560 ..... | 22 |
| 561 ..... | 23 |
| 563 ..... | 23 |
| 565 ..... | 23 |

## Thermal break thresholds

|            |    |
|------------|----|
| 624 .....  | 24 |
| 625 .....  | 24 |
| 8724 ..... | 24 |
| 626 .....  | 24 |
| 8726 ..... | 24 |
| 525 .....  | 25 |
| 526 .....  | 25 |
| 8729 ..... | 25 |

## Carpet divider thresholds

|             |    |
|-------------|----|
| 522 .....   | 26 |
| 643 .....   | 26 |
| 1682 .....  | 26 |
| 1682B ..... | 26 |
| 1684 .....  | 26 |
| 1685R ..... | 26 |
| 1686R ..... | 26 |

## Adjustable thresholds

|                  |    |
|------------------|----|
| 672 .....        | 27 |
| 673 .....        | 27 |
| 674 .....        | 27 |
| 675 .....        | 27 |
| 676 .....        | 27 |
| 678 .....        | 28 |
| 6710 .....       | 28 |
| 105 .....        | 28 |
| 106 .....        | 28 |
| 107 .....        | 28 |
| 269 .....        | 28 |
| 469 .....        | 28 |
| Series 671 ..... | 29 |
| 84R-PSA .....    | 29 |
| 268 .....        | 29 |
| 68 .....         | 29 |
| 168 .....        | 29 |
| 69 .....         | 29 |
| 48 .....         | 29 |
| 49 .....         | 29 |

## Traction tread adjustable thresholds

|            |    |
|------------|----|
| 3672 ..... | 30 |
| 3673 ..... | 30 |
| 3674 ..... | 31 |
| 3675 ..... | 31 |
| 3676 ..... | 31 |
| 2676 ..... | 31 |
| 2673 ..... | 31 |

## Ramps

|            |    |
|------------|----|
| 233 .....  | 32 |
| 235 .....  | 32 |
| 236 .....  | 32 |
| 2361 ..... | 32 |
| 232 .....  | 32 |
| 237 .....  | 33 |
| 234 .....  | 33 |
| 238 .....  | 33 |
| 233 .....  | 33 |
| 236 .....  | 33 |
| 259R ..... | 33 |

## Interlocking thresholds

|           |    |
|-----------|----|
| 70 .....  | 34 |
| 76 .....  | 34 |
| 73 .....  | 34 |
| 80 .....  | 34 |
| 175 ..... | 34 |

## Adjustable interlocking bronze threshold systems

|                 |    |
|-----------------|----|
| 7000 .....      | 35 |
| 7332 .....      | 35 |
| 7334 .....      | 35 |
| 7335 .....      | 36 |
| 7336 .....      | 36 |
| 7337 .....      | 36 |
| 7338 .....      | 37 |
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| 7338/7335 ..... | 37 |

## Specialized threshold solutions

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| 601CP .....                                                           | 39 |
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| 657 .....                                                             | 40 |
| 6575 .....                                                            | 40 |



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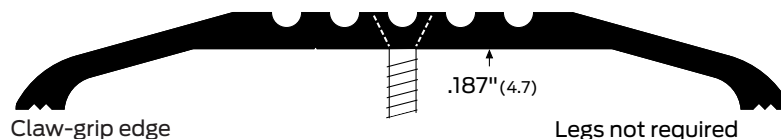
## Thresholds Introduction

# High quality thresholds with broad application coverage

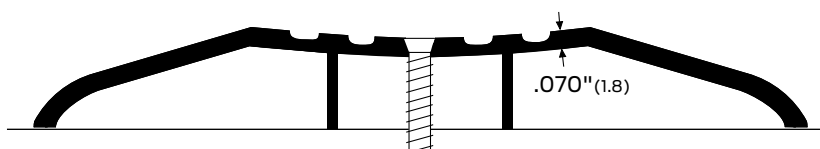
ZERO thresholds feature top-quality materials and construction, designed to stand up to the demands of heavy traffic applications as well as those with extreme temperature differentials.

The heavy-gauge material allows you to drill and screw our thresholds directly into concrete without the difficulties common when using lighter commercial materials, such as buckling under heavy loads or loose screws.

654 Threshold



Typical light-gauge threshold



A variety of types of thresholds are available to accommodate the specific needs of your application. With unique options such as:

- **Energy-efficient thermal-break thresholds** – Specially designed to prevent the transfer of outside temperature and frost to the interior side of the door
- **Adjustable-width systems** – Features threshold rests that interlock with various size plates. Much easier to trim and fit than conventional, single-size cast-bronze thresholds. Install without exposed screws on the base for better aesthetics and durability.
- **Extruded bulb finger (EBF) double sealing system** – Designed to ensure an airtight seal even when doors are misaligned because of poor installation or slightly warped. If the door fails to make contact with the bulb in this neoprene gasket, the extra “finger” acts as a supplemental seal to block air flow.

Commercial and institutional facilities can benefit from using them for both interior and perimeter applications. Fire rated doors, ADA openings and sound rated assemblies are just some of the applications that rely on specialized Zero threshold solutions. Since thresholds serve many important purposes, from increasing energy efficiency of a building by restricting airflow to creating a barrier for smoke, sound and light, it is crucial to standardize on high quality materials with a robust design that are back by the Zero brand you can trust.

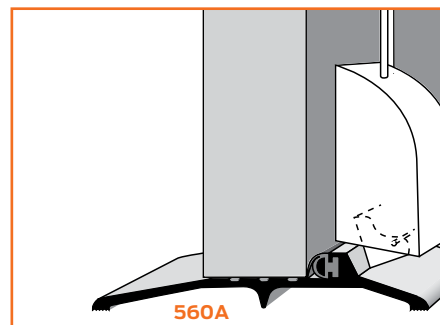


Specify this special feature

### EBF (Extruded bulb/finger)

The Neoprene gasket is designed with an extra lip for double seal protection, and to compensate for any warping or misalignment during installation.

**Zero Compress-O-Matic®**



## Thresholds

## Accessories &amp; options



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## Finishes



**A**  
Aluminum Mill Finish



**BK\***  
Black Anodized  
(711, 315AN)



**D\***  
Aluminum Dark Bronze  
Anodized (313AN)



**G\***  
Aluminum Gold Anodized  
(688)



**B**  
Bronze, Architectural  
Mill Finish



**B-ORB**  
Oil-Rubbed Bronze  
(US10B/613)



**B-SAT**  
Satin Polished Bronze

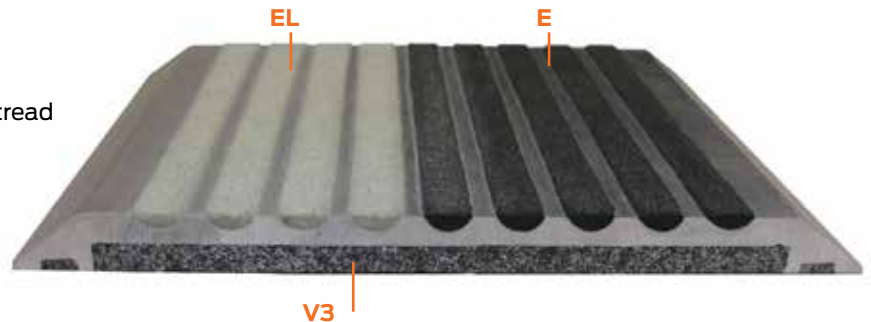


**B-POL**  
High Buff Polished Bronze

\*Black, Dark Bronze and Gold anodized aluminum finishes will show wear over time and are not included in the standard warranty.

## Options

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill
- NH** No holes
- WH** Weep hole (available on 76, 175 models only)
- BV** Beveled edges (length only - 600 and 601)



## Non-slip epoxy abrasive (E or EL)

Thresholds can be ordered with non-slip epoxy abrasive particles bonded into the grooves, with (EL) or without (E) photoluminescence for exit path markings. The tread provides a coefficient of friction of 1.02 dry and 0.98 wet to comply with ADA, OSHA and most local building code requirements.

## Full body strength (V3)

An aluminum composite filler containing aluminum oxide and silicon carbide. Available as option for most profiles, with no requirement for customized extrusions. Ideal applications include: heavy commercial traffic in supply rooms, manufacturing plants, schools, cafeterias, automobile dealers, hospitals, industrial facilities.

## No holes (NH)

Models supplied standard without mounting holes are noted on the product pages. All other models are supplied standard with mounting holes. Specify NH to order models without mounting holes drilled.

See Thresholds Accessories & options page for details.

## Finishes:

- A** Aluminum mill finish
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed bronze

## Options:

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

Special anchors available for mounting most thresholds on concrete surfaces.



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Thresholds

# Accessories & options

## Fasteners

Thresholds are supplied with the appropriate screws and quantities needed for installation based on threshold width, unless noted to order separately. Use the part numbers below for ordering additional screws, or ordering separately where indicated.

### All-purpose screws

| Part #       | Description                              | Applicable threshold models       | Package contents                              |
|--------------|------------------------------------------|-----------------------------------|-----------------------------------------------|
| 47254099     | Threshold screw pack — Clear Anodized    | All "A" finish thresholds         | 4 screws #10 X 1-1/2" FPHSMS                  |
| 47254100     | Threshold screw pack — Dark Bronze       | All "D" finish thresholds         | 4 screws #10 X 1-1/2" FPHSMS Black ZP         |
| 47254101     | Threshold screw pack — Bronze            | All "B" and "G" finish thresholds | 4 screws #10 X 1-3/4" FPHWS Brass             |
| 47254102     | Threshold screw pack — Stainless Steel   | All "STST" finish thresholds      | 4 screws #10 X 1-1/4" FPHSMS S.S.             |
| 47254101-10B | Threshold screw pack — Oil Rubbed Bronze | All ORB finish thresholds         | 4 screws #10 X 1-3/4" FPHWS Brass, Oil Rubbed |

### Anchors for concrete installations

| Part #   | Description/Model number                                        | Applicable threshold models | Package contents                             |
|----------|-----------------------------------------------------------------|-----------------------------|----------------------------------------------|
| 47257389 | 221-Plastic shield screw pack<br>Silver metallic finish         | Screw pack for 221          | 4 plastic shields and 4 #10 X 1-1/4" FPHSMS  |
| 47257390 | 222-Lead shield screw pack<br>Silver metallic finish            | Screw pack for 222          | 4 lead shields and 4 #10 X 1-1/4" FPHSMS     |
| 47257391 | 223-10-24 Concrete anchor screw pack<br>Silver metallic finish  | Screw pack for 223          | 4 10-24 anchors with 4 #10-24 X 1-1/2" FPHMS |
| 47257392 | 224-1/4-20 Concrete anchor screw pack<br>Silver metallic finish | Screw pack for 224          | 4 10-24 anchors with 4 1/4-20 X 1-1/2" FPHMS |
| 47257393 | 226-S.S. Sleeve anchor 1/4X3"<br>Silver metallic finish         | Screw pack for 226          | 4 sleeve anchors                             |



**221**  
**Plastic shield**



**222**  
**Lead shield**



**223**  
**MSLA-10**  
Anchor with  
machine screw  
10/24



**224**  
**MSLA-4**  
Anchor with  
machine screw  
1/4-20



**226**  
**Stainless steel sleeve anchor**  
Optional for all thresholds

- An expansion anchor with a unique flat head machine screw all in one unit.
- Easy installation. Place threshold in position and drill 1/4" dia. x 3 1/2" deep hole through countersunk hole in threshold. Drop the anchor in place and tighten with screwdriver.

See Thresholds Accessories & options page for details.

#### Finishes:

- A** Aluminum mill finish
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed bronze

#### Options:

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

#### Note:

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

## Accessories &amp; options



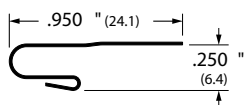
## Replacement rubber seals

Replacement seals are available for threshold models containing rubber components. See Appendix for replacement rubber seals. If viewing an interim catalog, contact technical support.

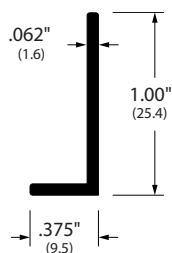
## Protection from water infiltration and leakage

These accessories can be used with any interlocking threshold to impede water infiltration around thresholds.

## 23 Interlocking hook



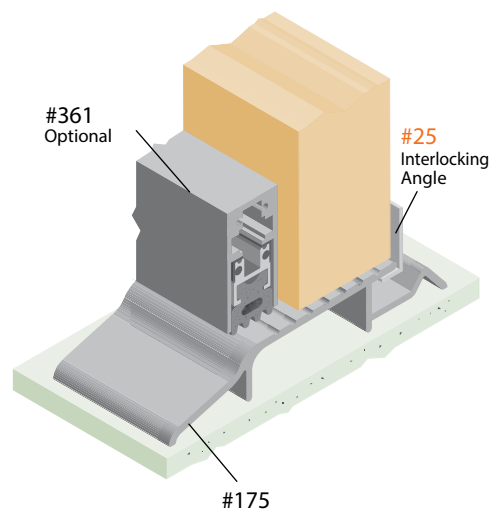
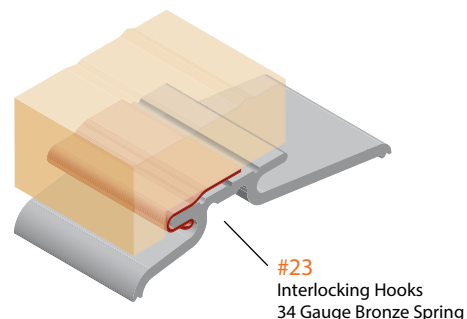
## 25 Interlocking angle



**Finishes:**  
A, BK, D, G

To order this accessory, please refer to How-to-Order instructions in the Perimeter Seals section. If you are using an interim Thresholds catalog that does not include perimeter seals, please call Allegion Customer Care for ordering assistance at: 877-671-7011, option 2 for technical services.

Note: Interlocking hook and angle can be used with 70, 76, 73, 80, 175



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# Thresholds order guide

How to order:

|                                                            | Model<br>63 | Finish<br>A | Options<br>EV3 | Fasteners<br>221 | Length<br>36 |
|------------------------------------------------------------|-------------|-------------|----------------|------------------|--------------|
| <b>Model</b>                                               |             |             |                |                  |              |
| <b>Example</b>                                             |             |             |                |                  |              |
| 63 3" Saddle Threshold                                     |             |             |                |                  |              |
| 546 6" Saddle Threshold                                    |             |             |                |                  |              |
| 236 Ramp                                                   |             |             |                |                  |              |
| 674 Adjustable Threshold                                   |             |             |                |                  |              |
| 1674 Half-Saddle Threshold                                 |             |             |                |                  |              |
| <b>Finish</b>                                              |             |             |                |                  |              |
| A - Aluminum Mill Finish                                   |             |             |                |                  |              |
| D - Aluminum Dark Bronze Anodized                          |             |             |                |                  |              |
| G - Aluminum Gold Anodized                                 |             |             |                |                  |              |
| BK - Black Anodized                                        |             |             |                |                  |              |
| B - Bronze, Architectural Mill Finish                      |             |             |                |                  |              |
| B-ORB - (US10B/613) Oil Rubbed, Aged Bronze                |             |             |                |                  |              |
| NOTE: No EV3, EV3, EL, ELV3 if ORB is requested.           |             |             |                |                  |              |
| B-SAT ** - Satin Polished Bronze                           |             |             |                |                  |              |
| B-POL ** - High Buff Polished Bronze                       |             |             |                |                  |              |
| ** - 7000, 7332, 7334, 7335, 7336, 7337, 7338 only         |             |             |                |                  |              |
| <b>Options</b>                                             |             |             |                |                  |              |
| Blank - no options                                         |             |             |                |                  |              |
| E - Epoxy Tread                                            |             |             |                |                  |              |
| EL - Photoluminescent and Epoxy Tread                      |             |             |                |                  |              |
| V3 - Full Body Fill                                        |             |             |                |                  |              |
| EV3 - Epoxy and V3                                         |             |             |                |                  |              |
| ELV3 - Photoluminescent Epoxy and V3                       |             |             |                |                  |              |
| NH - No Mounting Holes                                     |             |             |                |                  |              |
| WH - Weep Hole (available on 76, 175 models only)          |             |             |                |                  |              |
| BV - Beveled Edges (length only - 600 and 601 models only) |             |             |                |                  |              |
| <b>Fasteners</b>                                           |             |             |                |                  |              |
| 221 - Plastic Shield                                       |             |             |                |                  |              |
| 222 - Lead Shield                                          |             |             |                |                  |              |
| 223 - MSLA-10, Anchor with Machine Screw, 10-24            |             |             |                |                  |              |
| 224 - MSLA-4, Anchor with Machine Screw, 1/4"-20           |             |             |                |                  |              |
| 226 - Stainless Steel Anchor, 1/4" x 3"                    |             |             |                |                  |              |
| <b>Length</b>                                              |             |             |                |                  |              |
| Use decimal to nearest 1/8" Increment                      |             |             |                |                  |              |

Automatic door bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty applications

Appendix



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## Thresholds

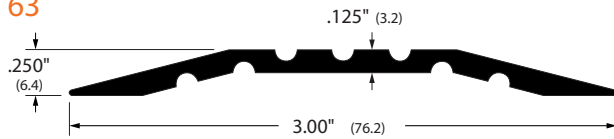
## Saddle thresholds



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63



**Finishes:**  
A, BK, D, G

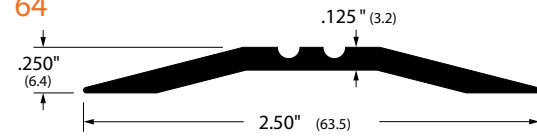
**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**  
63A, 63BK, 63D, 63G  
63A-E, 63BK-E, 63D-E, 63G-E

J32100, J32130  
J32200, J32230

64



**Finishes:**  
A, BK, D, G

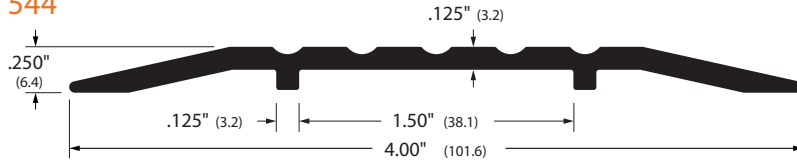
**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**  
64A, 64BK, 64D, 64G  
64A-E, 64BK-E, 64D-E, 64G-E

J32100, J32130  
J32200, J32230

544



**Finishes:**  
A, BK, D, G

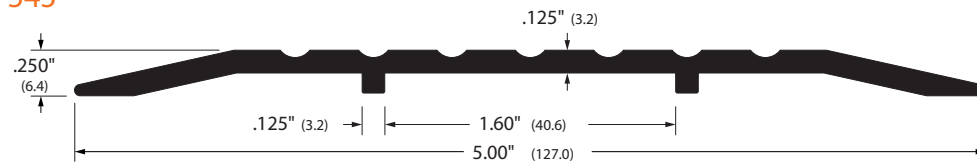
**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**  
544A, 544BK, 544D, 544G  
544A-E, 544BK-E, 544D-E, 544G-E

J32100, J32130  
J32200, J32230

545



**Finishes:**  
A, BK, D, G

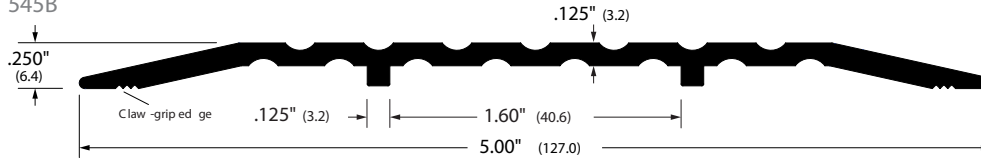
**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**  
545A, 545BK, 545D, 545G  
545A-E, 545BK-E, 545D-E, 545G-E

J32100, J32130  
J32200, J32230

545B



**Finishes:**  
B, B-ORB

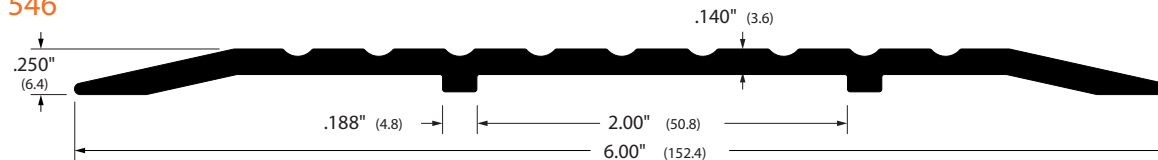
**Options:**  
E, EL, V3,  
EV3, ELV3  
(not available for B-ORB finish)



**ANSI/BHMA:**  
545B  
545B-E

J12100, J12130  
J12200, J12230

546



**Finishes:**  
A, BK, D, G

**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**  
546A, 546BK, 546D, 546G  
546A-E, 546BK-E, 546D-E, 546G-E

J32100, J32130  
J32200, J32230

Supplied without mounting holes.

See Thresholds Accessories & options page for details.

**Finishes:**

A Aluminum mill finish  
BK Aluminum black anodized  
D Aluminum dark bronze anodized  
G Aluminum gold anodized  
B Bronze, architectural mill finish  
B-ORB Oil-rubbed bronze

**Options:**

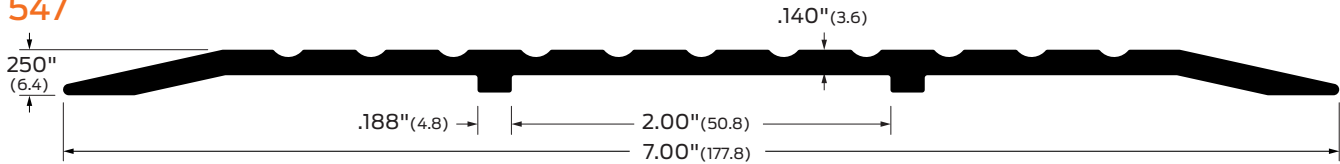
E Epoxy abrasive tread  
EL Photoluminescent and abrasive epoxy tread  
V3 Full body strength fill  
EV3 Epoxy and full body strength fill  
ELV3 Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

# Saddle thresholds

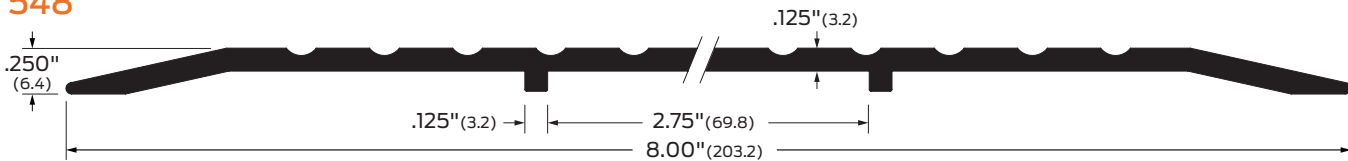
**547**



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 547A, 547BK, 547D, 547G  
547A-E, 547BK-E, 547D-E, 547G-E  
J32100, J32130  
J32200, J32230

Supplied without mounting holes.

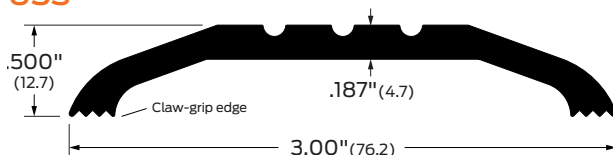
**548**



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 548A, 548BK, 548D, 548G  
548A-E, 548BK-E, 548D-E, 548G-E  
J32100, J32130  
J32200, J32230

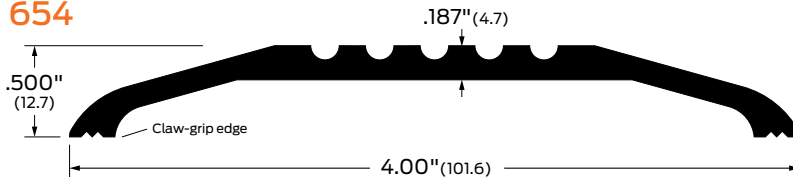
Supplied without mounting holes.

**653**



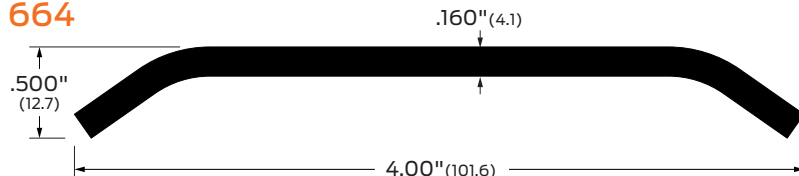
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 653A, 653BK, 653D, 653G  
653A-E, 653BK-E, 653D-E, 653G-E  
J32100, J32130  
J32200, J32230

**654**



**Finishes:** A, BK, D, G, B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3 (not available for B-ORB finish)  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 654A, 654BK, 654D, 654G  
654A-E, 654BK-E, 654D-E, 654G-E  
654B  
654B-E  
J32100, J32130  
J32200, J32230  
J12100, J12130  
J12200, J12230

**664**



**Finishes:** Stainless steel only  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 664STST  
664STST-E  
J52300  
J52400

E-Epoxy recommended for public access openings



See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

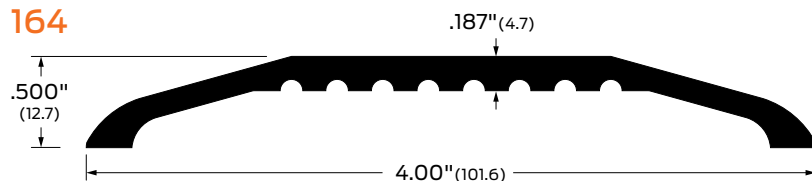
Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

## Saddle thresholds



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**164****Finishes:**

A, BK, D, G

**ANSI/BHMA:**

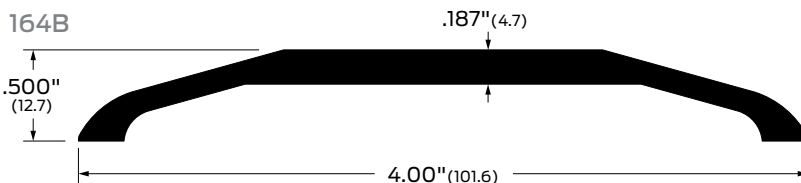
164A, 164BK, 164D, 164G

J32300, J32330

164A-E, 164BK-E, 164D-E, 164G-E

J32400, J32430

Model #654 is a recommended alternative if epoxy and/or body strength fills are desired.

**164B****Finishes:**

B, B-ORB

**ANSI/BHMA:**

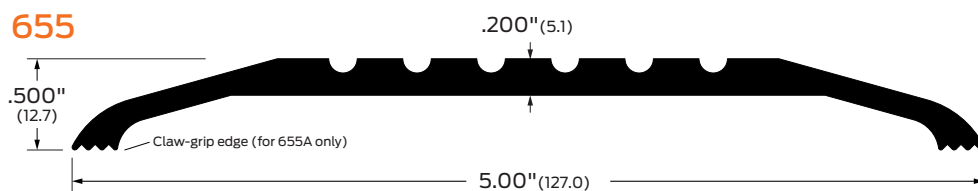
164B

J12100, J12130

164B-E

J12200, J12230

Model #654 is a recommended alternative if epoxy and/or body strength fills are desired.

**655****Finishes:**

A, BK, D, G

B, B-ORB

**Options:**

E, EL, V3,

EV3, ELV3

(not available for B-ORB finish)

**ANSI/BHMA:**

655A, 655BK, 655D, 655G

J32100, J32130

655A-E, 655BK-E, 655D-E, 655G-E

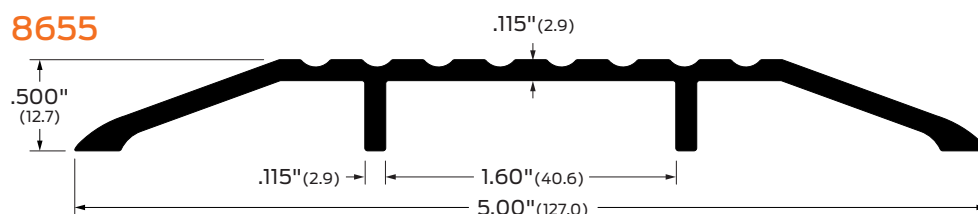
J32200, J32230

655B

J12100, J12130

655B-E

J12200, J12230

**8655****Finishes:**

A, BK, D, G

**Options:**

E, EL, V3,

EV3, ELV3

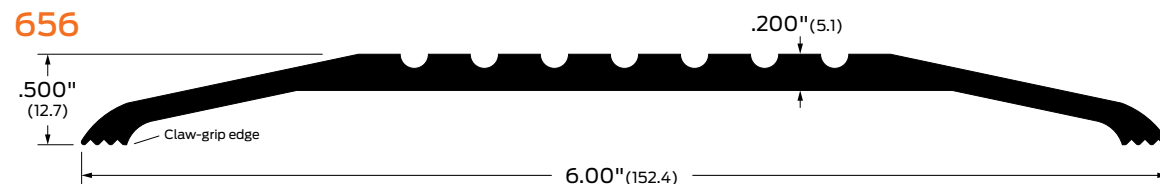
**ANSI/BHMA:**

8655A, 8655BK, 8655D, 865G

J32100, J32130

8655A-E, 8655BK-E, 8655D-E, 8655G-E

J32200, J32230

**656****Finishes:**

A, BK, D, G,

B, B-ORB

**Options:**

E, EL, V3,

EV3, ELV3

(not available for B-ORB finish)

**ANSI/BHMA:**

656A, 656BK, 656D, 656E

J32100, J32130

656A-E, 656BK-E, 656D-E, 656G-E

J32200, J32230

656B

J12100, J12130

656B-E

J12200, J12230

Supplied without mounting holes.

**655A-V3 (Full body strength)**

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

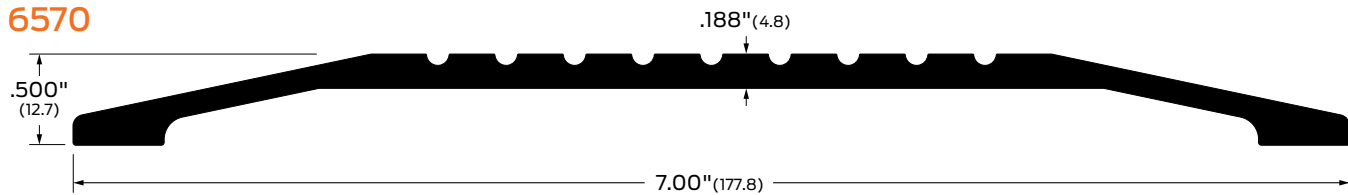
**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

# Saddle thresholds

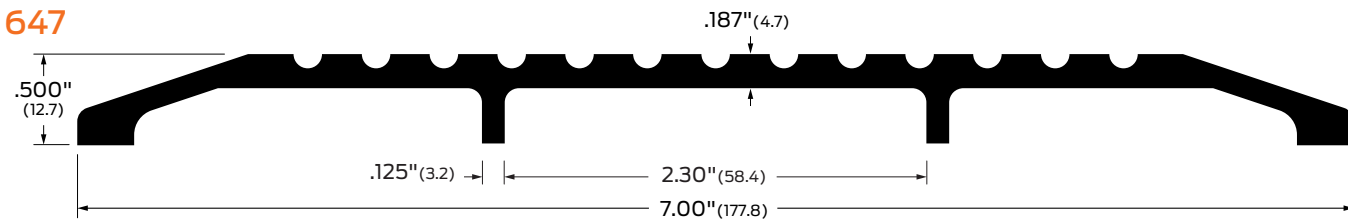
## 6570



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 6570A, 6570BK, 6570D, 6570G  
6570A-E, 6570BK-E, 6570D-E, 6570G-E  
J32100, J32130  
J32200, J32230

Supplied without mounting holes.

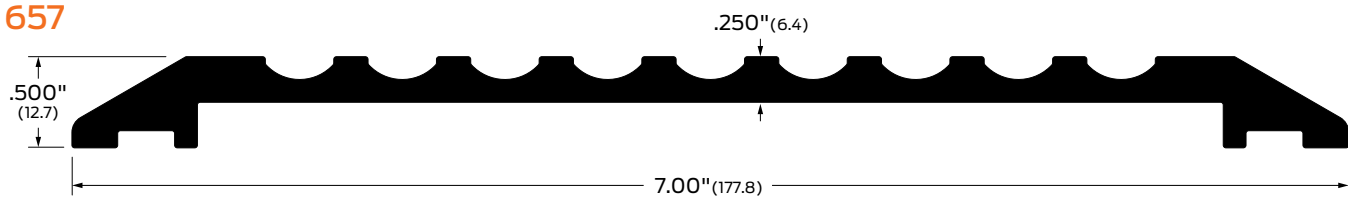
## 647



**Finishes:** B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3  
(not available for B-ORB finish)  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 647B J12100, J12130  
647B-E J12200, J12230

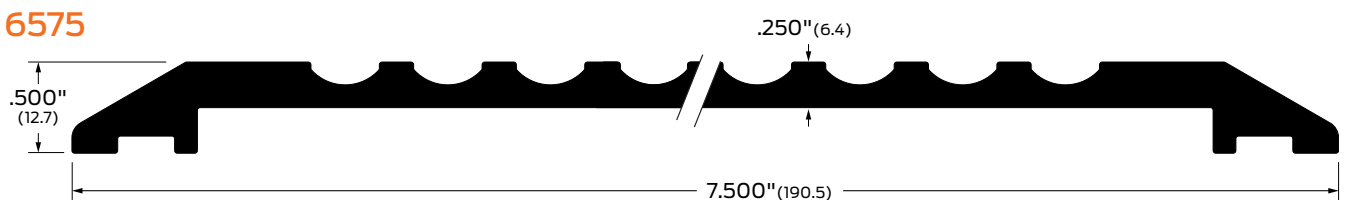
Supplied without mounting holes.

## 657



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 657A, 657BK, 657D, 657G  
657A-E, 657BK-E, 657D-E, 657G-E  
J32100  
J32200

## 6575



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 657A, 657BK, 657D, 657G  
657A-E, 657BK-E, 657D-E, 657G-E  
J32100  
J32200

Note: Model 6570 (see Saddle Thresholds section) may also be suitable for this application (Type 1 only), depending on configuration with floor-mounted automatic door closers. Check that the bevel allows adequate clearance.

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

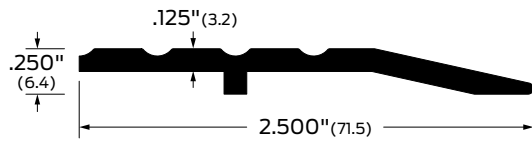
## Half-saddle thresholds



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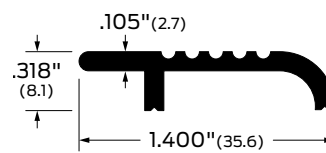


## 1545



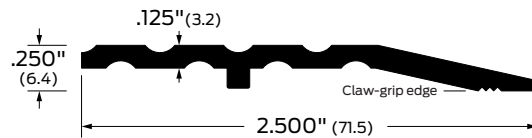
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1545A, 1545D, 1545G, 1545BK, 1545A-E, 1545D-E, 1545G-E, 1545BK-E  
J33100, J33130  
J33200, J33230

## 15



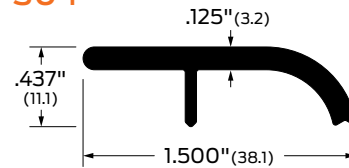
**Finishes:** B, B-ORB  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 15B  
J13100, J14170

## 1545B



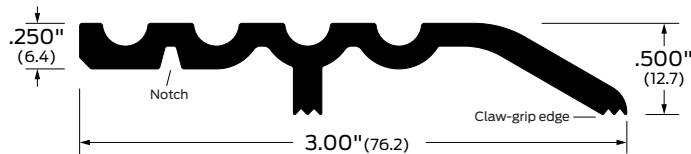
**Finishes:** B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3 (not available for ORB finish)  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1545B, 1545B-E  
J13100, J13130  
J13200, J13230

## 304



**Finishes:** A, BK, D, G  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 304A, 304D, 304G, 304BK  
J33300, J34170

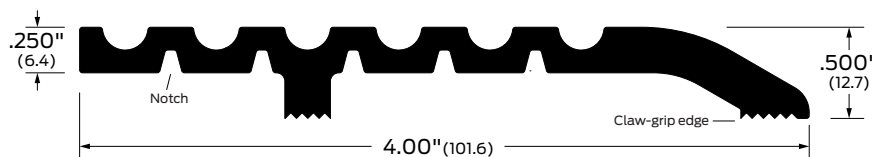
## 1673



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1673A, 1673D, 1673G, 1673BK, 1673A-E, 1673D-E, 1673G-E, 1673BK-E  
J33100  
J33200

Note: Notch allows use with adjustable threshold system. (See p.23)

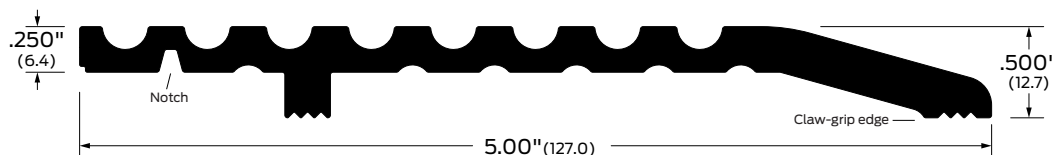
## 1674



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1674A, 1674D, 1674G, 1674BK, 1674A-E, 1674D-E, 1674G-E, 1674BK-E  
J33100  
J33200

Note: Notch allows use with adjustable threshold system. (See p.23)

## 1675



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1675A, 1675D, 1675G, 1675BK, 1675A-E, 1675D-E, 1675G-E, 1675BK-E  
J33100, J33130  
J33200, J33230

Note: Notch allows use with adjustable threshold system. (See p.23)

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

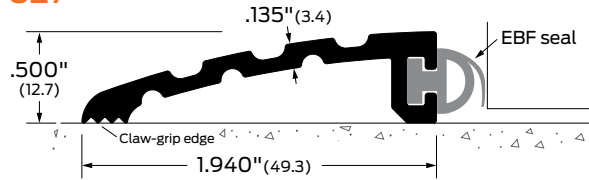
**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

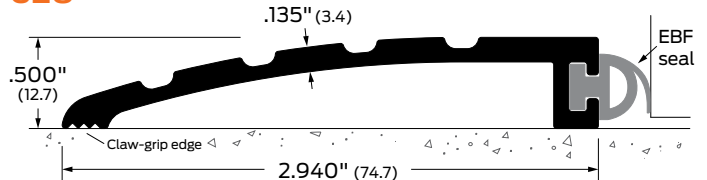
# Half-saddle threshold

627



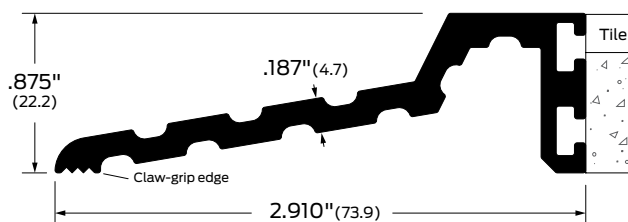
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**ANSI/BHMA:** 627A, 627D, 627G, 627BK, 627A-E, 627D-E, 627G-E, 627BK-E  
J33100 J33200  
Neoprene extruded bulb/finger for double-sealing protection.

628



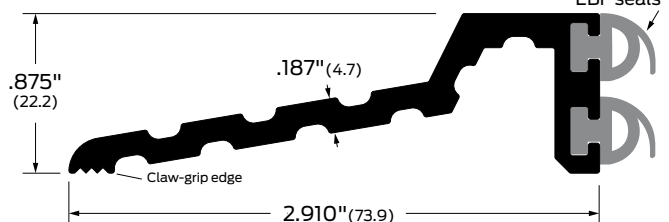
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**ANSI/BHMA:** 628A, 628D, 627G, 627BK, 628A-E, 628D-E, 628G-E, 628BK-E  
J33100 J33200  
Neoprene extruded bulb/finger for double-sealing protection.

523



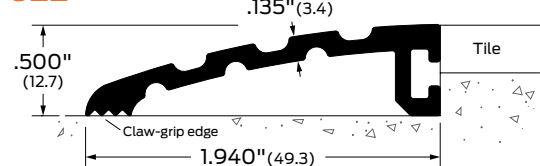
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED** **ANSI/BHMA:** 523A, 523D, 523G, 523BK, 523A-E, 523D-E, 523G-E, 523BK-E  
J33100 J33200

524



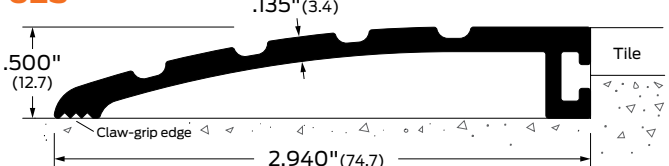
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED** **ANSI/BHMA:** 524A, 524D, 524G, 524BK, 524A-E, 524D-E, 524G-E, 524BK-E  
J33100 J33200  
Neoprene extruded bulb/finger for double-sealing protection.

622



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED** **ANSI/BHMA:** 622A, 622D, 622G, 622BK, 622A-E, 622D-E, 622G-E, 622BK-E  
J33100 J33200  
Also suitable for use as carpet divider threshold.  
ADA compliant when installed flush with the flooring

623



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED** **ANSI/BHMA:** 623A, 623D, 623G, 623 BK, 623A-E, 623D-E, 623G-E, 623BK-E  
J33100 J33200  
Also suitable for use as carpet divider threshold.  
ADA compliant when installed flush with the flooring

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

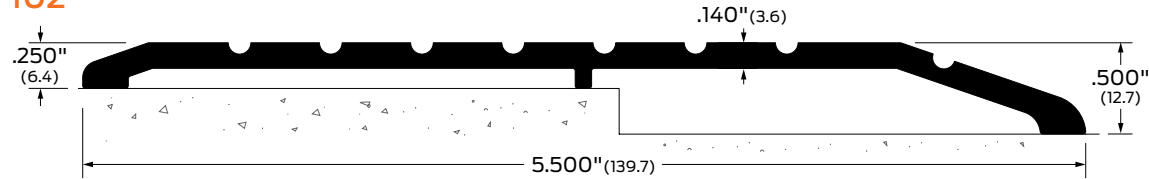
## Offset thresholds



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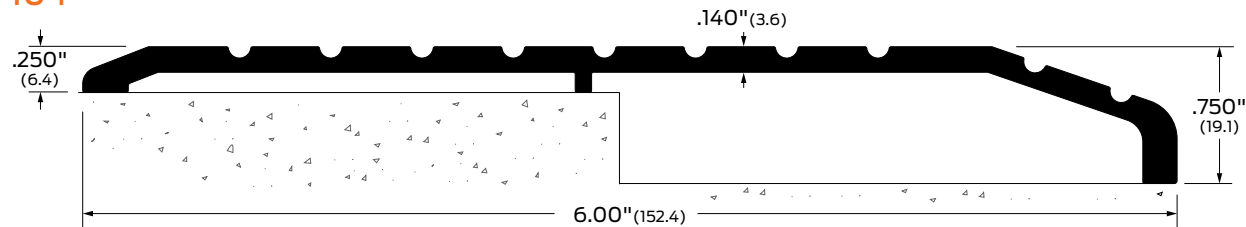
## 102



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA CERTIFIED** **ANSI/BHMA:** 102A, 102D, 102G, 102BK J32180  
102A-E, 102D-E, 102G-E, 102BK-E J32280

Handicap offset. Supplied without mounting holes.

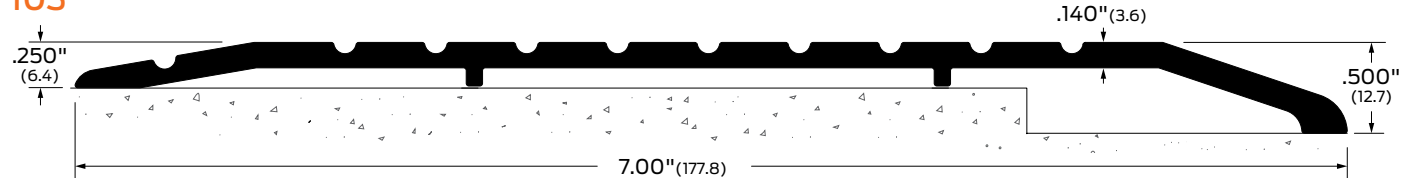
## 104



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA CERTIFIED** **ANSI/BHMA:** 104A, 104D, 104G, 104BK J32180  
104A-E, 104D-E, 104G-E, 104BK-E J32280

Supplied without mounting holes.

## 103



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA CERTIFIED** **ANSI/BHMA:** 103A, 103D, 103G, 103BK J32180  
103A-E, 103D-E, 103G-E, 103BK-E J32280

Handicap offset. Supplied without mounting holes.

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

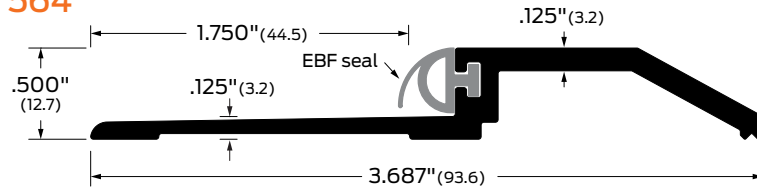
**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

# Rabbeted thresholds

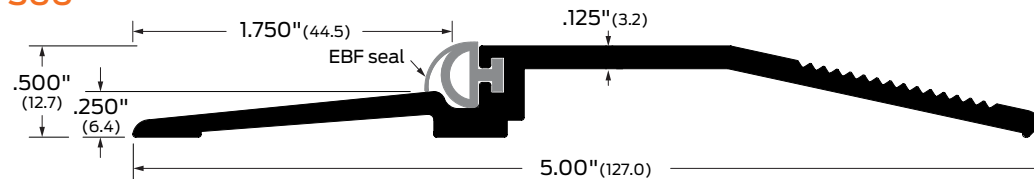
## 564



|                  |                                  |                                      |                                 |        |
|------------------|----------------------------------|--------------------------------------|---------------------------------|--------|
| <b>Finishes:</b> | <b>Options:</b>                  | <b>BHMA</b> <small>CERTIFIED</small> | <b>ANSI/BHMA:</b>               |        |
| A, BK, D, G      | E, EL, V3,                       |                                      | 564A, 564D, 564G, 564BK         | J36300 |
| B, B-ORB         | EV3, ELV3                        |                                      | 564A-E, 564D-E, 564G-E, 564BK-E | J36400 |
|                  | (not available for B-ORB finish) |                                      | 564B                            | J16300 |
|                  |                                  |                                      | 564B-E                          | J16400 |

Suitable for sound control applications and OEM use.  
Neoprene extruded bulb/finger for double-sealing protection.

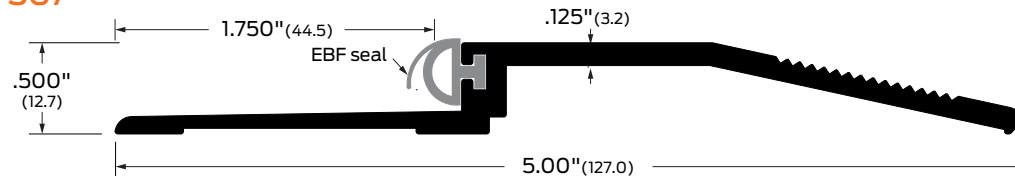
## 566



|                  |                 |                                      |                                 |                |
|------------------|-----------------|--------------------------------------|---------------------------------|----------------|
| <b>Finishes:</b> | <b>Options:</b> | <b>BHMA</b> <small>CERTIFIED</small> | <b>ANSI/BHMA:</b>               |                |
| A, BK, D, G      | E, EL, V3,      |                                      | 566A, 566D, 566G                | J36100, J36130 |
|                  | EV3, ELV3       |                                      | 566A-E, 566D-E, 566G-E, 566BK-E | J36200, J36230 |

Neoprene extruded bulb/finger for double-sealing protection.

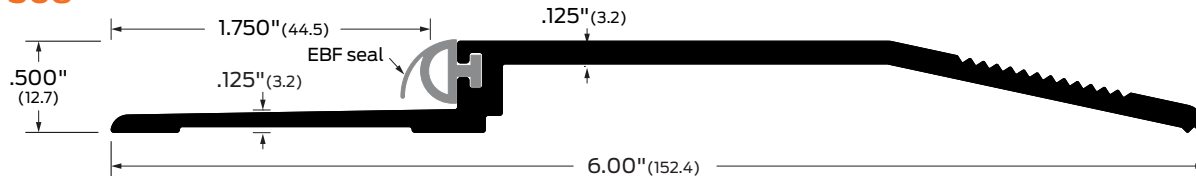
## 567



|                  |                                  |                                      |                   |        |
|------------------|----------------------------------|--------------------------------------|-------------------|--------|
| <b>Finishes:</b> | <b>Options:</b>                  | <b>BHMA</b> <small>CERTIFIED</small> | <b>ANSI/BHMA:</b> |        |
| B, B-ORB         | E, EL, V3,                       |                                      | 567B              | J16100 |
|                  | EV3, ELV3                        |                                      | 567B-E            | J16200 |
|                  | (not available for B-ORB finish) |                                      |                   |        |

Extruded bulb/finger for double-sealing protection.

## 568



|                  |                 |                                      |                                 |        |
|------------------|-----------------|--------------------------------------|---------------------------------|--------|
| <b>Finishes:</b> | <b>Options:</b> | <b>BHMA</b> <small>CERTIFIED</small> | <b>ANSI/BHMA:</b>               |        |
| A, BK, D, G      | E, EL, V3,      |                                      | 568A, 568D, 568G, 568BK         | J36100 |
|                  | EV3, ELV3       |                                      | 568A-E, 568D-E, 568G-E, 568BK-E | J36200 |

Neoprene extruded bulb/finger for double-sealing protection.

See Thresholds Accessories & options page for details.

### Finishes:

|              |                                   |
|--------------|-----------------------------------|
| <b>A</b>     | Aluminum mill finish              |
| <b>BK</b>    | Aluminum black anodized           |
| <b>D</b>     | Aluminum dark bronze anodized     |
| <b>G</b>     | Aluminum gold anodized            |
| <b>B</b>     | Bronze, architectural mill finish |
| <b>B-ORB</b> | Oil-rubbed bronze                 |

### Options:

|             |                                                                    |
|-------------|--------------------------------------------------------------------|
| <b>E</b>    | Epoxy abrasive tread                                               |
| <b>EL</b>   | Photoluminescent and abrasive epoxy tread                          |
| <b>V3</b>   | Full body strength fill                                            |
| <b>EV3</b>  | Epoxy and full body strength fill                                  |
| <b>ELV3</b> | Photoluminescent and abrasive epoxy tread, full body strength fill |

### Note:

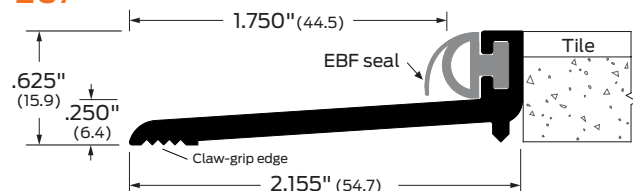
Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

## Rabbeted thresholds—standard



267



Finishes: A, BK, D, G  
Options: E, EL

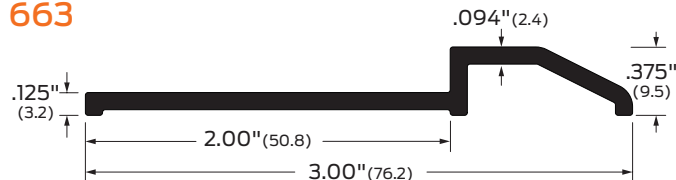


ANSI/BHMA: 267A, 264D, 267G, 267BK  
267A-E, 267D-E, 267G-E, 267BK-E

J36300  
J36400

Suitable for uneven floors.  
Neoprene extruded bulb/finger for double-sealing protection.

663



Finishes: A, BK, D, G  
Options: E, EL, V3, EV3, ELV3

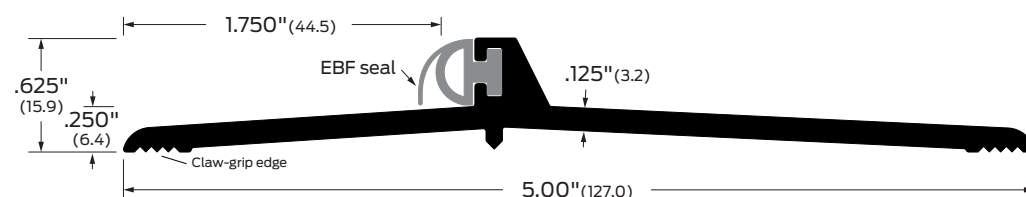


ANSI/BHMA: 663A, 663D, 663G, 663BK  
663A-E, 663BK-E, 663D-E, 663G-E

J37360, J373360  
J37400, J37436

Rabbeted, butt & transition.  
Supplied without mounting holes.

265



Finishes: A, BK, D, G  
Options: E, EL

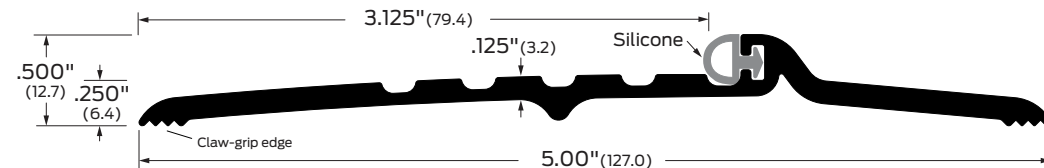


ANSI/BHMA: 265A, 265D, 265G, 265BK  
265A-E, 265D-E, 265G-E, 265BK-E

J36300  
J36400

For latch track hardware.  
Neoprene extruded bulb/finger for double-sealing protection.

65



Finishes: A, BK, D, G, B, B-ORB  
Options: E, EL (not available for ORB finish)

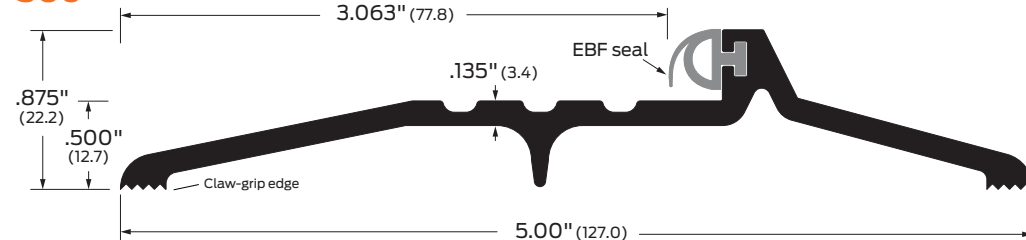


ANSI/BHMA: 65A, 65D, 65G, 65BK  
65A-E, 65D-E, 65G-E, 65BK-E  
65B  
65B-E

J36100, J36130  
J36200, J36230  
J16100, J16130  
J16200, J16230

For latch track hardware.

560



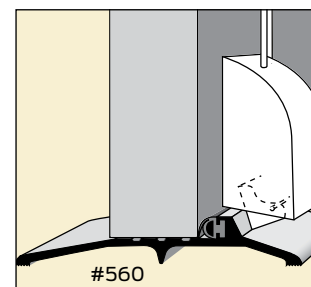
Finishes: A, BK, D, G  
Options: E, EL, V3, EV3, ELV3



ANSI/BHMA: 560A, 560D, 560G, 560BK  
560A-E, 560D-E, 560G-E, 560BK-E

J36100  
J36200

For latch track hardware.  
Neoprene extruded bulb/finger for double-sealing protection.



Specialty designed for bottom-latching exits and locks.

See Thresholds Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

## Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

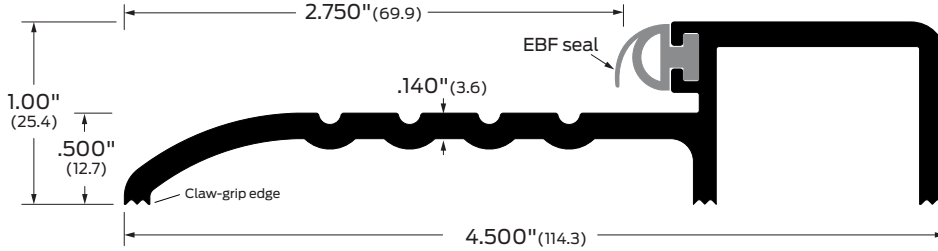
Special anchors available for mounting most thresholds on concrete surfaces.



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# Rabbeted thresholds

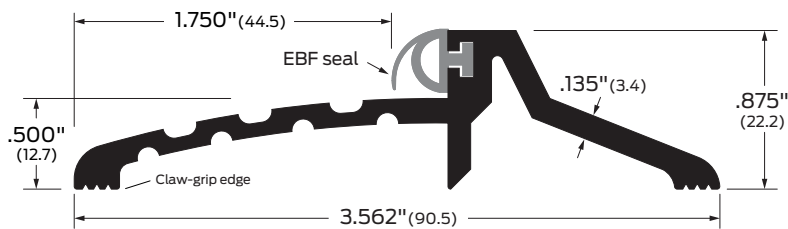
## 561



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFICATION**  
**ANSI/BHMA:** 561A, 561D, 561G, 561BK  
561A-E, 564D-E, 561G-E, 561BK-E  
J36100 J36200

Neoprene extruded bulb/finger for double-sealing protection.

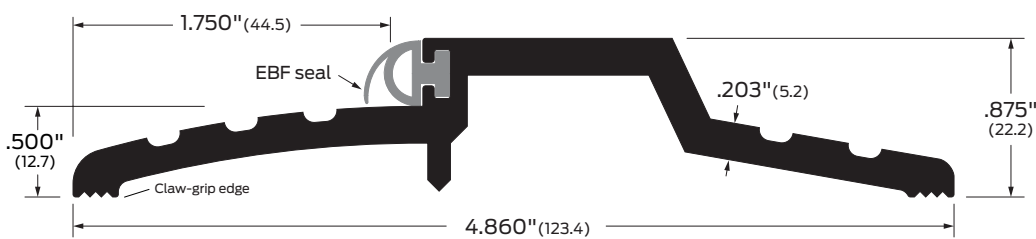
## 563



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFICATION**  
**ANSI/BHMA:** 563A, 563D, 563G, 563BK  
563A-E, 563D-E, 563G-E, 563BK-E  
J36100 J36200

Neoprene extruded bulb/finger for double-sealing protection.

## 565



**Finishes:** A, BK, D, G, B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3 (not available for B-ORB finish)  
**BHMA CERTIFICATION**  
**ANSI/BHMA:** 565A, 565D, 565G, 565BK  
565A-E, 565D-E, 565G-E, 565BK-E  
565B J36100 J36200  
565B-E J36100 J36200

Neoprene extruded bulb/finger for double-sealing protection.

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

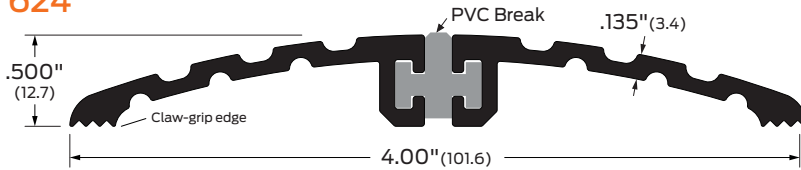
## Thermal break thresholds



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## 624



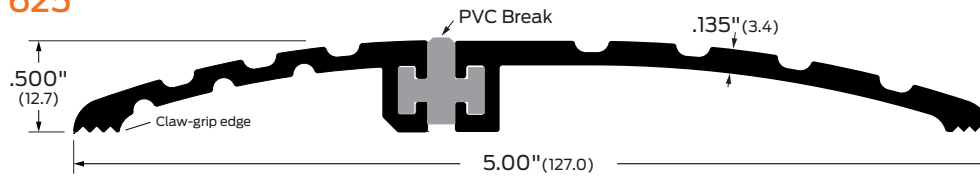
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3



**ANSI/BHMA:** 624A, 624D, 624G, 624BK  
624A-E, 624D-E, 624G-D, 624BK-E

J32139  
J32239

## 625



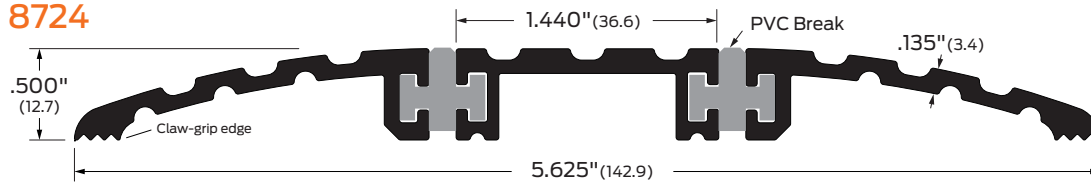
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3



**ANSI/BHMA:** 625A, 625BK, 625D, 625G  
625A-E, 625BK-E, 625D-E, 625G-E

J32139  
J32239

## 8724



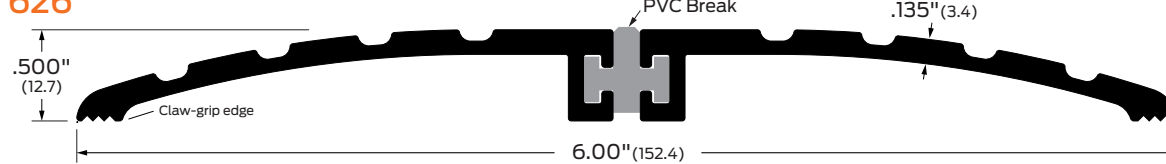
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3



**ANSI/BHMA:** 8724A, 8724D, 8724G, 8724BK  
8724A-E, 8724D-E, 8724G-E, 8724BK-E

J32139  
J32239

## 626



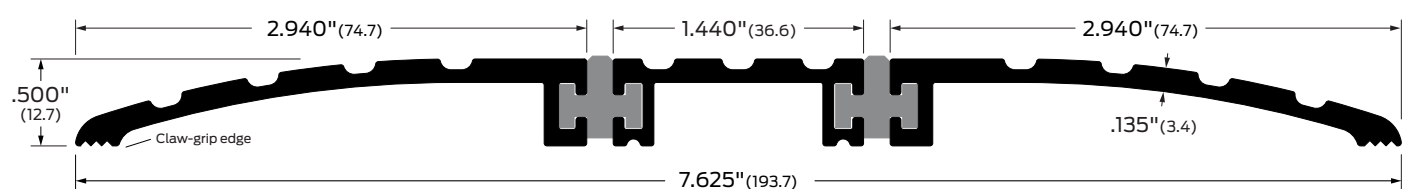
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3



**ANSI/BHMA:** 626A, 626D, 626G, 626BK  
626A-E, 626D-E, 626G-D, 626BK-E

J32139  
J32239

## 8726



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3



**ANSI/BHMA:** 8726A, 8726D, 8726G, 8726BK  
8726A-E, 8726D-E, 8726G-E, 8726BK-E

J32139  
J32239

Full illustration not to scale

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.  
Width dimensions for thresholds on this page are nominal. Slight variations may result from thermal break manufacturing.

# Thermal break thresholds

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

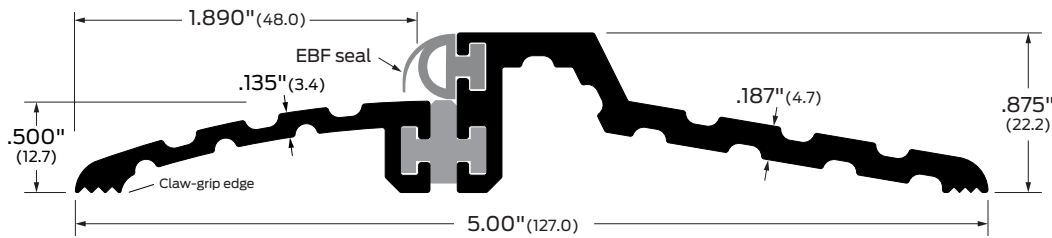
Intumescent

Sound control

Specialty applications

Appendix

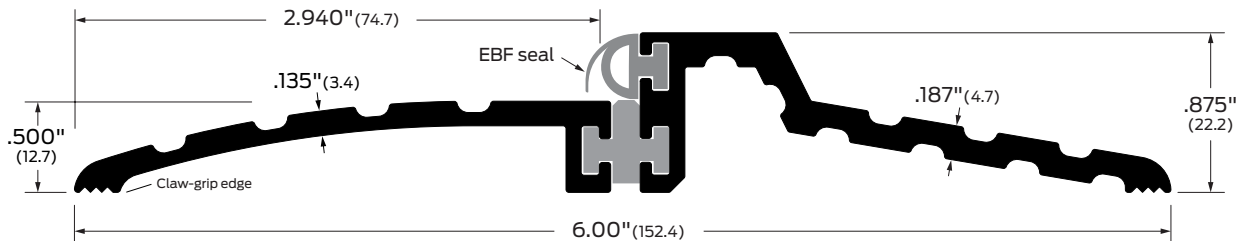
## 525



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 525A, 525BK, 525D, 525G  
 525A-E, 525BK-E, 525D-E, 525G-E  
 J36190

Neoprene extruded bulb/finger for double-sealing protection.

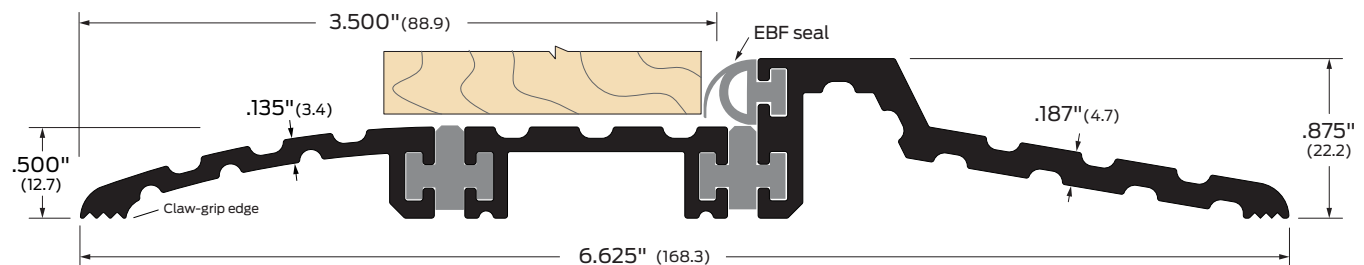
## 526



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 526A, 526BK, 526D, 526G  
 526A-E, 526BK-E, 526D-E, 526G-E  
 J36190  
 J36290

Neoprene extruded bulb/finger for double-sealing protection.

## 8729



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 8729A, 8729BK, 8729D, 8729G  
 8729A-E, 8729BK-E, 8729D-E, 8729G-E  
 J36190  
 J36290

Neoprene extruded bulb/finger for double-sealing protection.

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.  
 Width dimensions for thresholds on this page are nominal. Slight variations may result from thermal break manufacturing.

## Thresholds

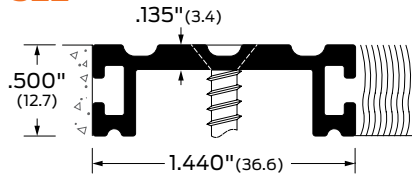
## Carpet divider thresholds



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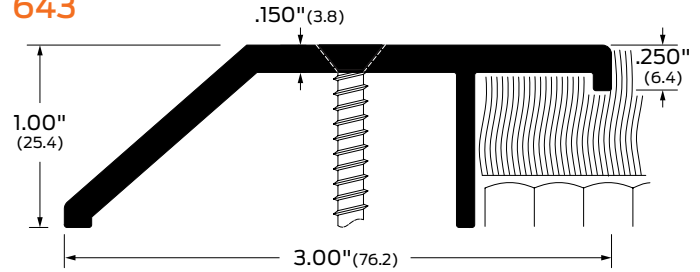


## 522



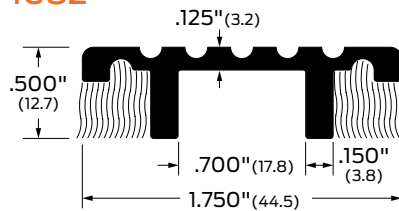
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 522A, 522BK, 522D, 522E J32140  
522A-E, 522BK-E, 522D-E, 522G-E J32240

## 643



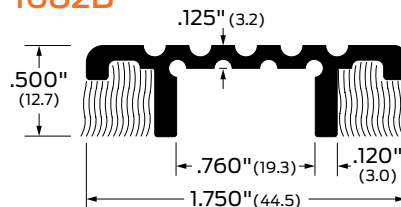
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 643A, 643BK, 643D, 643G J33300, J33340  
643A-E, 643BK-E, 643D-E, 643G-E J33400, J33440

## 1682



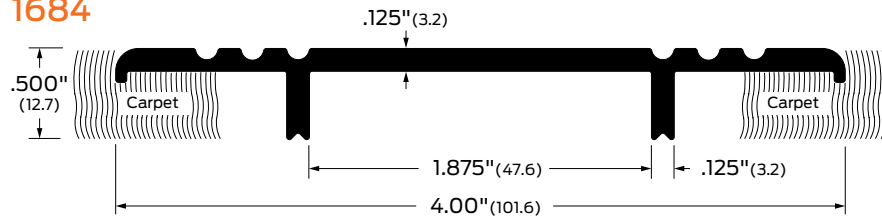
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1682A, 1682BK, 1682D, 1682G J32140  
1682A-E, 1682BK-E, 1682D-E, 1682G-E J32240

## 1682B



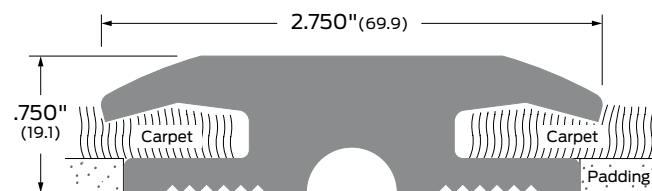
**Finishes:** B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3 (not available for B-ORB finish)  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1682B J12140  
1682B-E J12240

## 1684



**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, EV3, ELV3  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1684A, 1684BK, 1684D, 1684G J32140  
1684A-E, 1684BK-E, 1684D-E, 1684G-E J32240

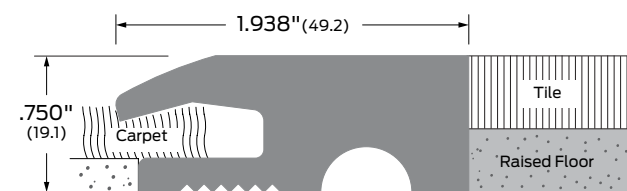
## 1685R



**Finishes:** Black only  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1685R J72340

Traction Tread™ rubber for non-rated door. Supplied without mounting holes.

## 1686R



**Finishes:** Black only  
**BHMA CERTIFIED**  
**ANSI/BHMA:** 1686R J73340

Traction Tread™ rubber for non-rated door. Supplied without mounting holes.

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

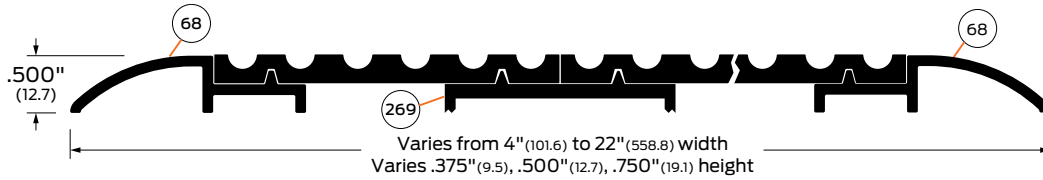
Special anchors available for mounting most thresholds on concrete surfaces.



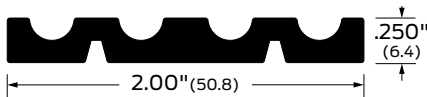
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Thresholds

# Adjustable thresholds



## 672



**Finishes:** A, BK, D, G  
**Options:** E, EL



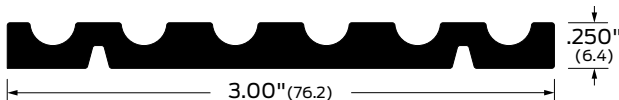
**ANSI/BHMA:**  
672A, 672D, 672G, 672BK  
672A-E, 672D-E, 672G-E, 672BK-E

J37100, J37136  
J37200, J37236

Supplied without mounting holes.



## 673



**Finishes:** A, BK, D, G  
B, B-ORB  
**Options:** E, EL,  
(not available  
for B-ORB finish)



**ANSI/BHMA:**  
673A, 673D, 673G, 673BK  
673A-E, 673D-E, 673G-E, 673BK-E  
673B  
673B-E

J37100, J37136  
J37200, J37236  
J17100, J17136  
J17200, J17236

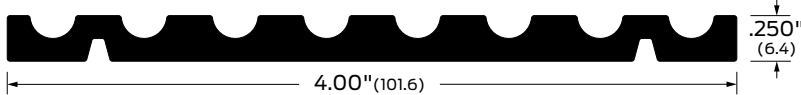
Supplied without mounting holes.

### Installation note:

ZERO adjustable thresholds systems can be installed easily and quickly without welding or screws on the base. Screws are required only to secure the top plate.

For thresholds with vertical wraparounds (# 105, #106, #107), screws are recommended in both directions for firm attachment at anchor points.

## 674



**Finishes:** A, BK, D, G  
B, B-ORB  
**Options:** E, EL,  
(not available  
for B-ORB finish)

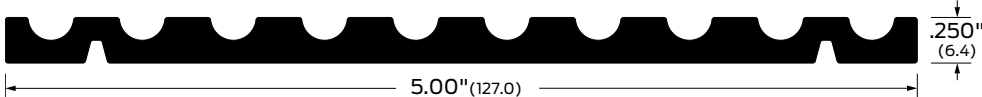


**ANSI/BHMA:**  
674A, 674D, 674G, 674BK  
674A-E, 674D-E, 674G-E, 674BK-E  
674B  
673B-E

J37100, J37136  
J37200, J37236  
J17100, J17136  
J17200, J17236

Supplied without mounting holes.

## 675



**Finishes:** A, BK, D, G  
**Options:** E, EL

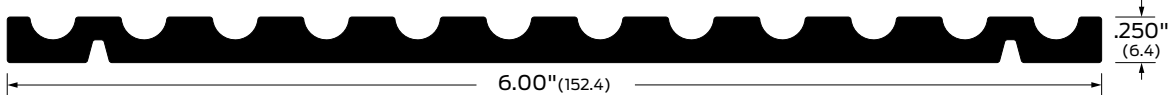


**ANSI/BHMA:**  
675A, 675D, 675G, 675BK  
675A-E, 675D-E, 675G-E, 675BK-E

J37100, J37136  
J37200, J37236

Supplied without mounting holes.

## 676



**Finishes:** A, BK, D, G  
B, B-ORB  
**Options:** E, EL,  
(not available  
for B-ORB finish)



**ANSI/BHMA:**  
676A, 676D, 676G, 676BK  
676A-E, 676D-E, 676G-E, 676BK-E  
676B  
676B-E

J37100, J37136  
J37200, J37236  
J17100, J17136  
J17200, J17236

Supplied without mounting holes.

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.  
Suitable for use as recessed expansion joint floor plate for ADA openings.

## Thresholds

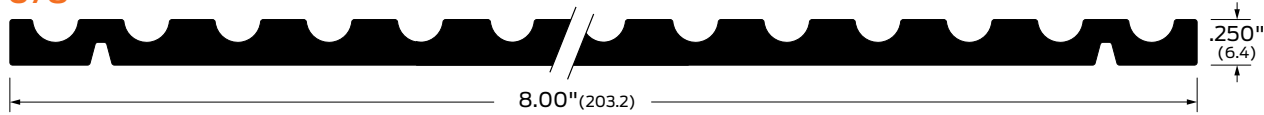
## Adjustable thresholds



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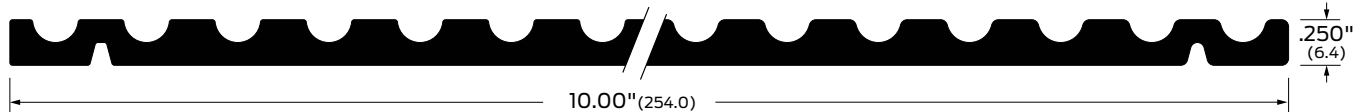
## 678



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA** **ANSI/BHMA:** 678A, 678D, 678G, 678BK J37100, J37136  
678A-E, 678D-E, 678G-E, 678BK-E J37200, J37236

Supplied without mounting holes.

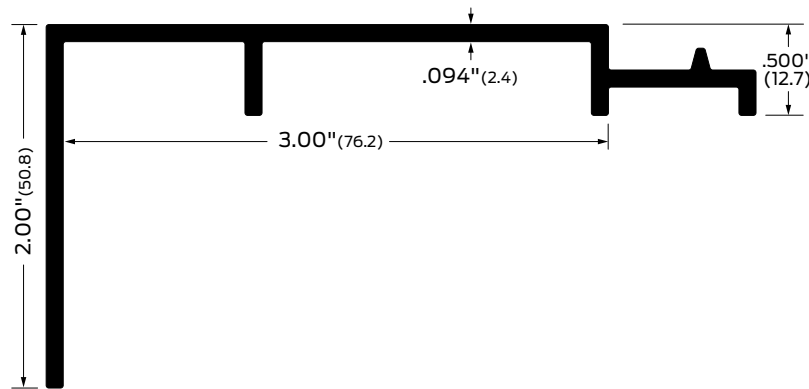
## 6710



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA** **ANSI/BHMA:** 6710A, 6710D, 6710G, 6710BK J37136  
6710A-E, 6710D-E, 6710G-E, 6710BK-E J37236

Supplied without mounting holes.

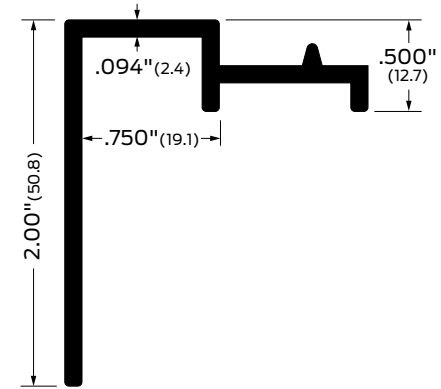
## 105



**Finishes:** A, BK, D, G **Options:** E, EL, V3 **BHMA** **ANSI/BHMA:** 105A, 105D, 105G, 105BK J37360

Supplied without mounting holes.

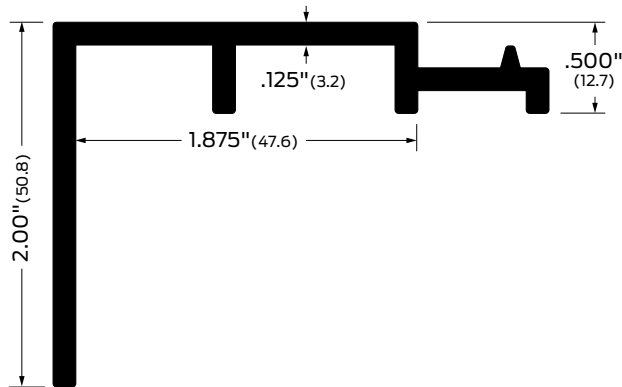
## 106



**Finishes:** A, BK, D, G **Options:** E, EL, V3 **BHMA** **ANSI/BHMA:** 106A, 106BK, 106D, 106G J37360

Supplied without mounting holes.

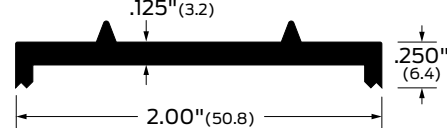
## 107



**Finishes:** B, B-ORB **Options:** E, EL, V3 **BHMA** **ANSI/BHMA:** 107B J17360

Supplied without mounting holes.

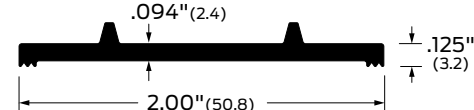
## 269



**Finishes:** A **BHMA** **ANSI/BHMA:** 269A J37360, J37336

Connection plate

## 469



**Finishes:** A **BHMA** **ANSI/BHMA:** 469A J37360, J37336

Connection plate

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.  
Suitable for use as recessed expansion joint floor plate for ADA openings.

# Adjustable thresholds

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

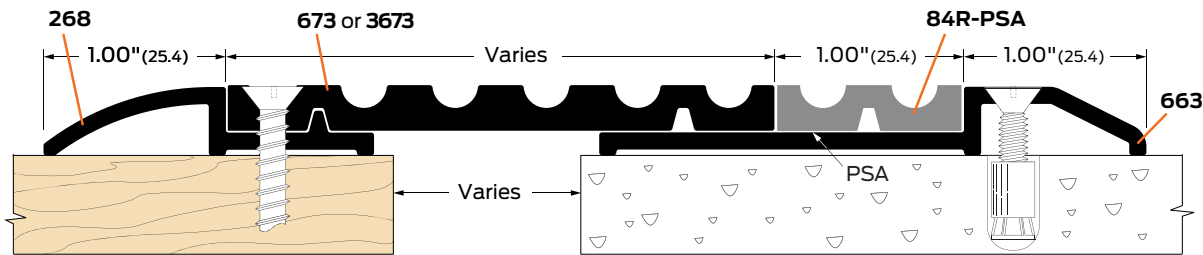
Intumescent

Sound control

Specialty  
applications

Appendix

## Series 671

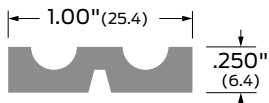


Order components separately.

Floor cover for 1" expansion joints, surface.

Ideal for use as transition threshold for free-floating wood gymnasium floors. Requires a 1/8" gap between metal and rubber components to prevent damage to rubber from expansion pressures.

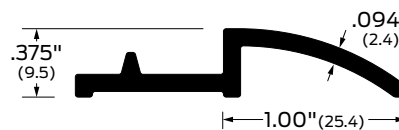
## 84R-PSA



Finishes:  
Gray

ANSI/BHMA:  
84R-PSA J72160

## 268



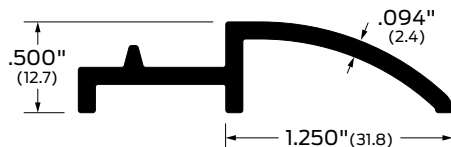
Finishes:  
A, BK, D, G  
B, B-ORB



ANSI/BHMA:  
268A, 268BK, 268D, 268G  
268B J73360, J73336  
J17360, J17336

Threshold rest. Supplied without mounting holes.

## 68



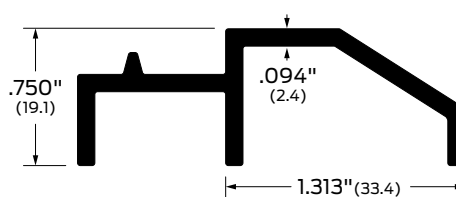
Finishes:  
A, BK, D, G  
B, B-ORB



ANSI/BHMA:  
68A, 68BK, 68D, 68G  
68B J73360, J73336  
J17360, J17336

Threshold rest. Supplied without mounting holes.

## 168



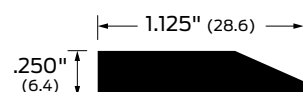
Finishes:  
A, BK, D, G  
B, B-ORB



ANSI/BHMA:  
168A, 168BK, 168D, 168G  
168B J73360  
J17360

Threshold rest. Supplied without mounting holes.

## 69



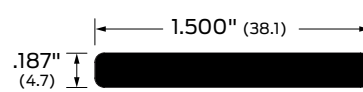
Finishes:  
A



ANSI/BHMA:  
69A J32110, J32123, J37300

Threshold prep/shim. Supplied without mounting holes.

## 48



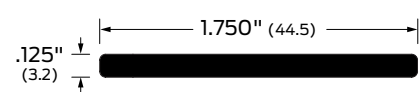
Finishes:  
A



ANSI/BHMA:  
48A J37300

Threshold prep/ shim. Supplied without mounting holes.

## 49



Finishes:  
A



ANSI/BHMA:  
49A J37300

Threshold prep/ shim. Supplied without mounting holes.

See Thresholds Accessories & options page for details.

### Finishes:

- A** Aluminum mill finish
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed bronze

### Options:

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

## Traction tread adjustable thresholds

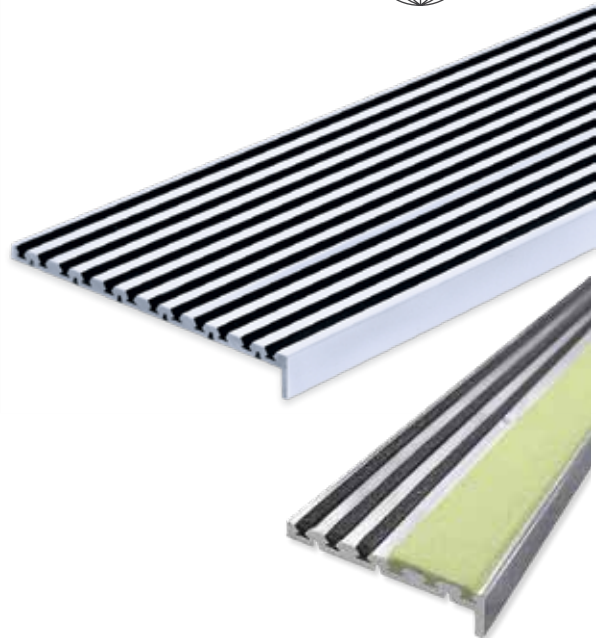


Traction Tread™ thresholds and nosings are available with an epoxy abrasive (non-slip particles) bonded into the grooves, or with formulated rubber inserts.

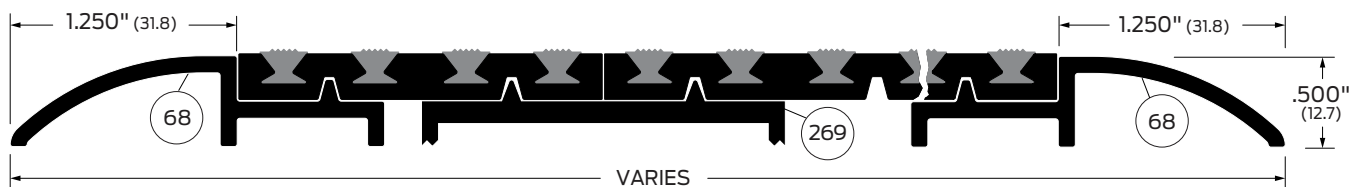
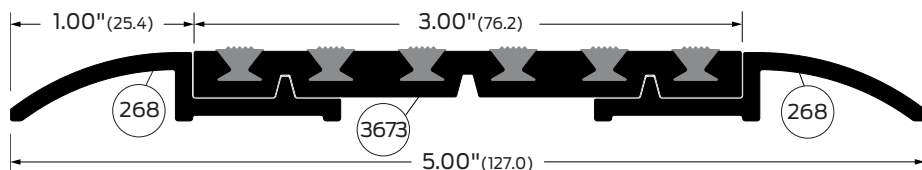
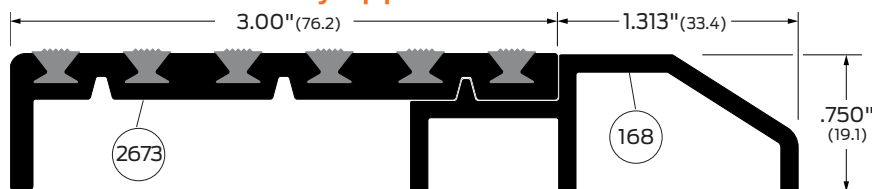
**Rubber traction tread:** Attractive, smooth, tough rubber inserts that are flush with the aluminum surface for indoor applications. The aluminum/rubber combination is easy to cut and drill at the jobsite. Superior non-slip traction with great longevity. Available in black color only. Rubber traction tread is standard, unless Abrasive (E) or Photoluminescent (EL) Traction tread is specified.

**Abrasive traction tread (E):** The ultimate safety surface. This extremely durable surface provides a high degree of safety for outdoor applications and is ideal for schools, hospitals, industrial buildings. The epoxy abrasive particle mix is bonded to the aluminum base. Available in black color only.

**Photoluminescent traction tread (EL):** Rubber or abrasive traction tread integrated with epoxy abrasive photoluminescent tread. For indoor exit path applications.

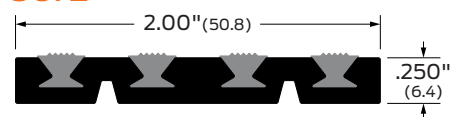


## Threshold assembly applications



Note: Order components separately.  
Suitable for slip-resistant applications.

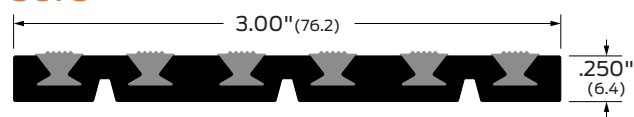
## 3672



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA CERTIFIED** **ANSI/BHMA:** 3672A, 3672D, 3672G, 3672BK 3672A-E, 3672D-E, 3672G-E, 3672BK-E **J37100 J37236**

Supplied without mounting holes.

## 3673



**Finishes:** A, BK, D, G **Options:** E, EL **BHMA CERTIFIED** **ANSI/BHMA:** 3673A, 3673D, 3673G, 3673BK 3673A-E, 3673D-E, 3673G-E, 3673BK-E **J37100 J37236**

Supplied without mounting holes.

See Thresholds Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

## Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

Special anchors available for mounting most thresholds on concrete surfaces.

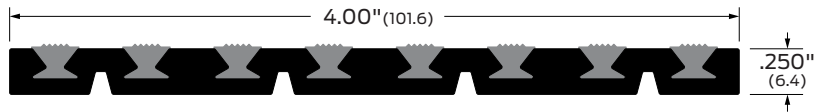


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# Traction tread adjustable thresholds

## 3674



Finishes: A, BK, D, G  
Options: E, EL

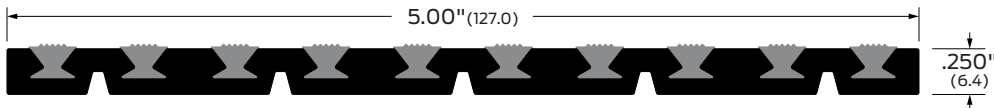


ANSI/BHMA:

3674A, 3674D, 3674G, 3674BK J37136  
3674A-E, 3674D-E, 3674G-E, 3674BK-E J37236

Supplied without mounting holes.

## 3675



Finishes: A, BK, D, G  
Options: E, EL

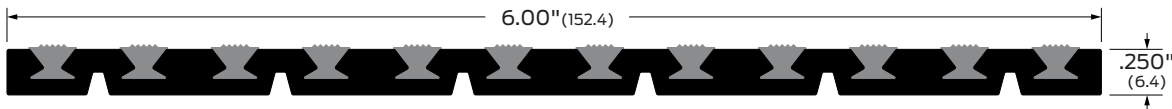


ANSI/BHMA:

3675A, 3675D, 3675G, 3675BK J37136  
3675A-E, 3675D-E, 3675G-E, 3675BK-E J37236

Supplied without mounting holes.

## 3676



Finishes: A, BK, D, G  
Options: E, EL

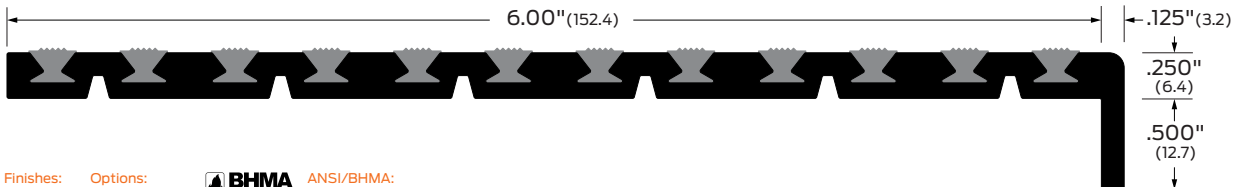


ANSI/BHMA:

3676A, 3676D, 3676G, 3676BK J37136  
3676A-E, 3676D-E, 3676G-E, 3676BK-E J37236

Supplied without mounting holes.

## 2676



Finishes: A, BK, D, G  
Options: E, EL

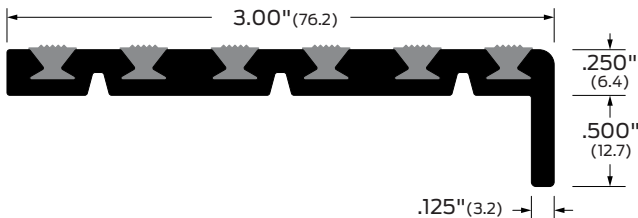


ANSI/BHMA:

2676A, 2676D, 2676G, 2676BK J37380, J37386  
2676A-E, 2676D-E, 2676G-E, 2676BK-E J37280, J37286

Supplied without mounting holes.

## 2673



Finishes: A, BK, D, G, B, B-ORB  
Options: E, EL  
(not available for ORB finish)



ANSI/BHMA:

2673A, 2673D, 2673G, 2673BK J37380, J37386  
2673A-E, 2673D-E, 2673G-E, 2673BK-E J37380, J37386  
2673B J37380, J37386  
2673B-E J37380, J37386

Supplied without mounting holes.

### Safety Stair Treads



See Thresholds Accessories & options page for details.

#### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

#### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

#### Note:

Special anchors available for mounting most thresholds on concrete surfaces.



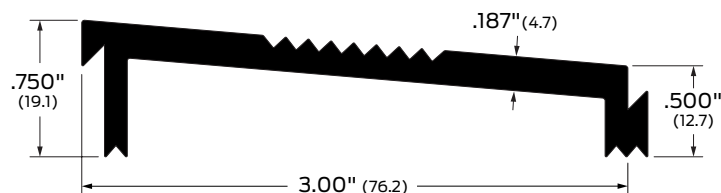
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## Thresholds

## Ramps



## 233



## Finishes:

A, BK, D, G

## Options:

E, EL, V3  
EV3, ELV3

## ANSI/BHMA:

233A, 233D, 233G, 233BK

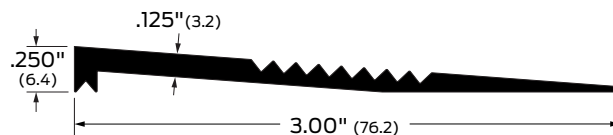
233A-E, 233D-E, 233G-E, 233BK-E

J38100, J38160

J38200, J38260

Supplied without mounting holes.

## 235



## Finishes:

A, BK, D, G

## Options:

E, EL



## ANSI/BHMA:

235A, 235D, 235G, 235BK

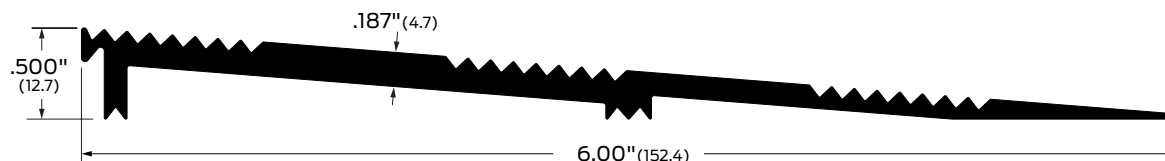
235A-E, 235D-E, 235G-E, 235BK-E

J38130

J38230

Supplied without mounting holes.

## 236



## Finishes:

A, BK, D, G

## Options:

E, EL



## ANSI/BHMA:

236A, 236D, 236G, 236BK

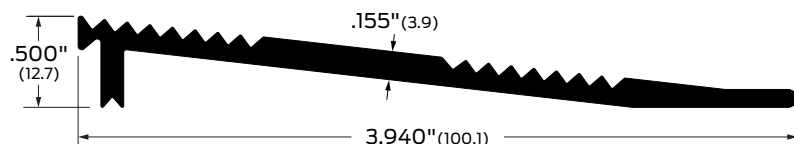
236A-E, 236D-E, 236G-E, 236BK-E

J38100, J38130

J38200, J38230

Supplied without mounting holes.

## 2361



## Finishes:

AA

## Options:

E, EL



## ANSI/BHMA:

2361AA, 2361D, 2361G, 2361BK

2361AA-E, 2361D-E, 2361G-E, 2361BK-E

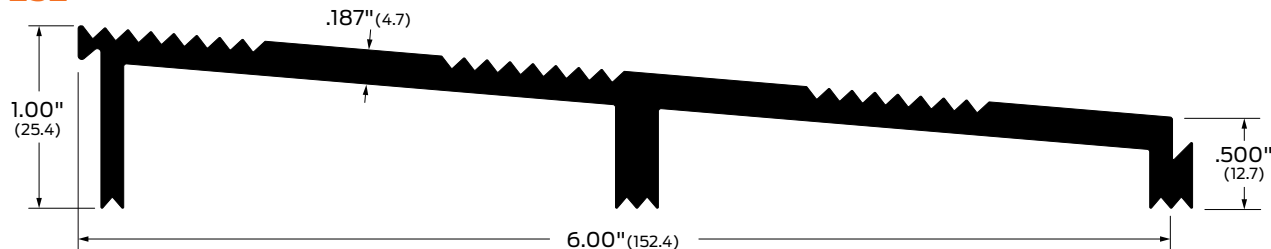
J38100, J38130

J38200, J38230

Supplied without mounting holes.

Available in anodized aluminum only (AA).

## 232



## Finishes:

A, BK, D, G

## Options:

E, EL, V3  
EV3, ELV3

## ANSI/BHMA:

232A, 232D, 232G, 232BK

232A-E, 232D-E, 232G-E, 232BK-E

J38100, J38160

J38200, J38260

Supplied without mounting holes.

See Thresholds Accessories &amp; options page for details.

## Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

## Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

Special anchors available for mounting most thresholds on concrete surfaces.



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Thresholds

# Ramps

Thresholds

Automatic door  
bottoms

Perimeter seals

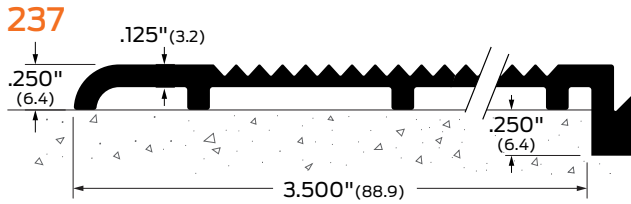
Weatherstripping

Intumescent

Sound control

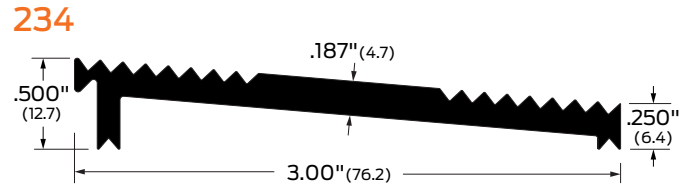
Specialty  
applications

Appendix



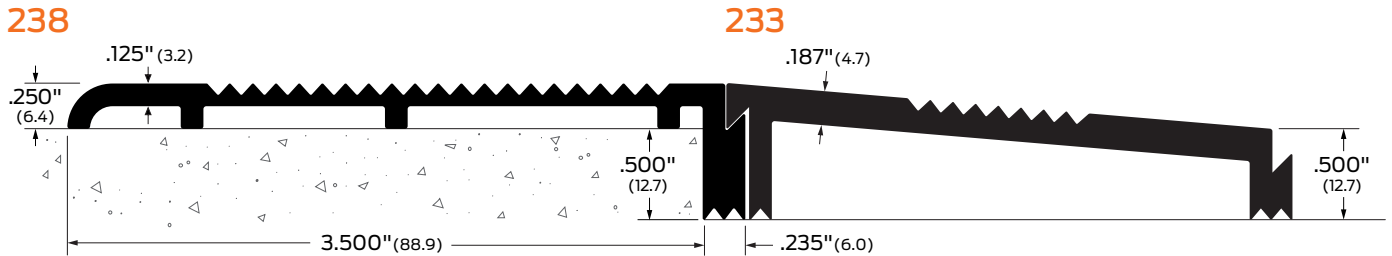
**237**  
Finishes: A, BK, D, G Options: E, EL **BHMA** **CERTIFIED** **ANSI/BHMA:** 237A, 237D, 237G, 237BK J38100, J38130  
237A-E, 237D-E, 237G-E, 237BK-E J38200, J38230

ADA compliant when installed flush with the flooring. Supplied without mounting holes.



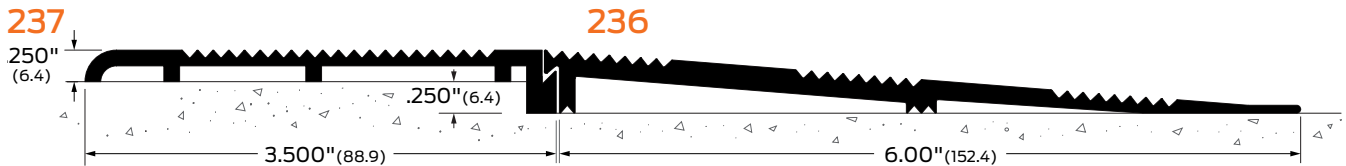
**234**  
Finishes: A, BK, D, G Options: E, EL **BHMA** **CERTIFIED** **ANSI/BHMA:** 234A, 234D, 234G, 234BK J38100, J38130  
234A-E, 234D-E, 234G-E, 234BK-E J38200, J38230

Supplied without mounting holes.

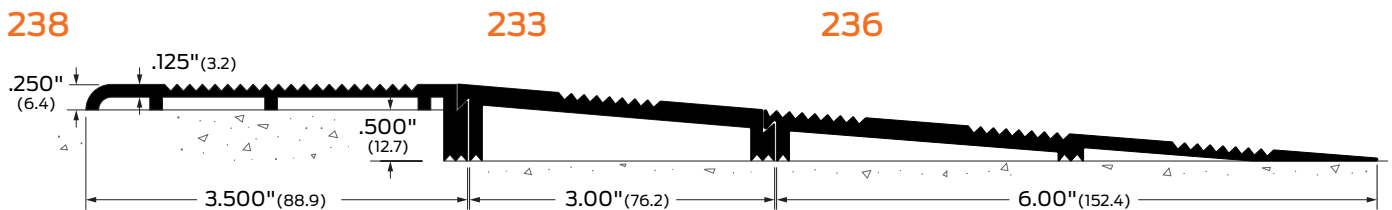


**238**  
Finishes: A, BK, D, G Options: E, EL **BHMA** **CERTIFIED** **ANSI/BHMA:** 238A, 238D, 238G, 238BK J38100, J38160  
238A-E, 238D-E, 238G-E, 238BK-E J38100, J38260

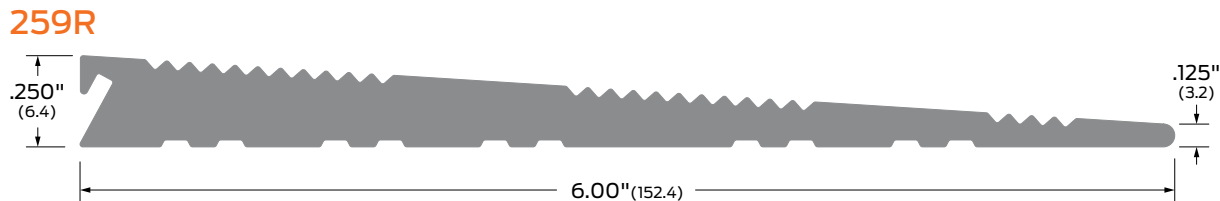
Order components separately. Supplied without mounting holes.



Order components separately. Full illustration not to scale



Order components separately. Full illustration not to scale



**259R**  
Finishes: Black only. **BHMA** **CERTIFIED** **ANSI/BHMA:** 259R J78130

No finish designation required

Supplied without mounting holes for custom drilling at installation. Can also be installed

See Thresholds Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

## Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

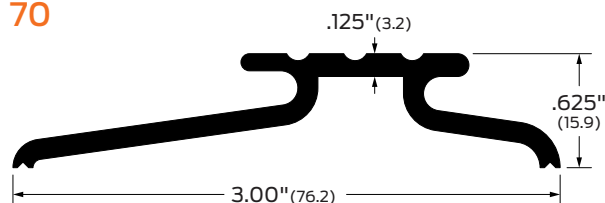
## Interlocking thresholds



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70



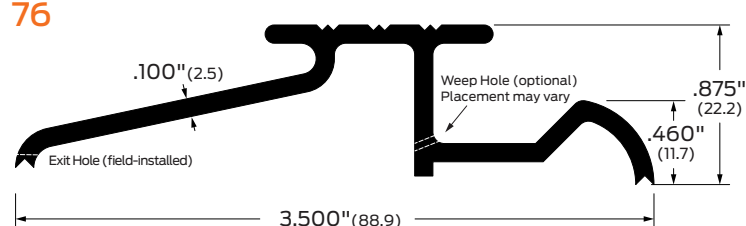
**Finishes:** B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3  
(not available for ORB finish)



**ANSI/BHMA:**  
70B J14170  
70B-E J14270

In-swing or out-swing

76



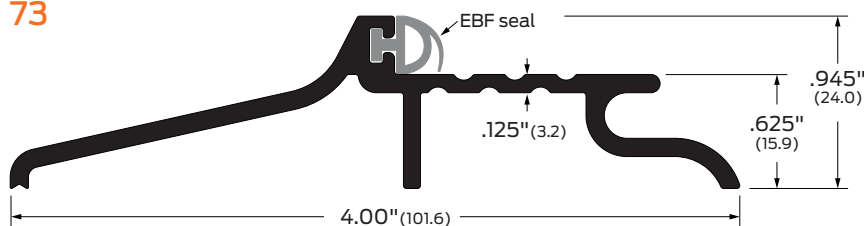
**Finishes:** B, B-ORB  
**Options:** E, EL, V3, EV3, ELV3  
(not available for ORB finish)



**ANSI/BHMA:**  
76B J14170  
76B-E J14270

In-swing. Drain pan required underneath when used with weep holes.

73



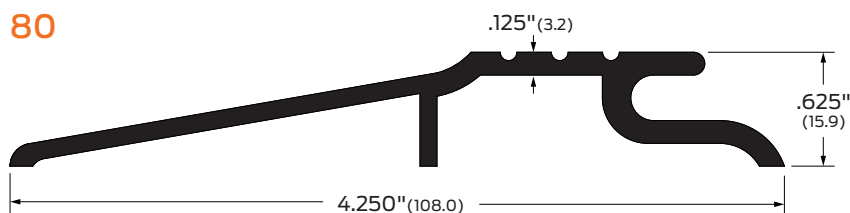
**Finishes:** A, BK, D, G  
**Options:** E, EL, V3, ELV3



**ANSI/BHMA:**  
73A, 73BK, 73D, 73G J34170  
73A-E, 73BK-E, 73D-E, 73G-E J34270

Out-swing

80



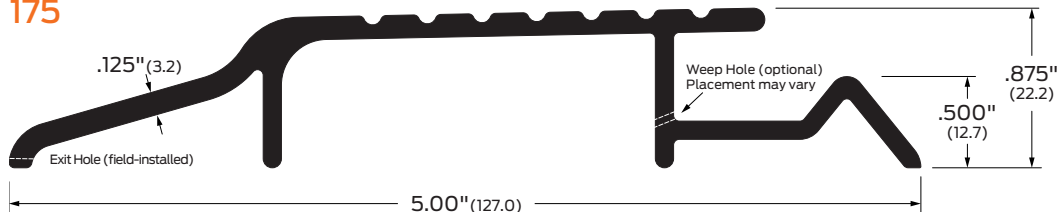
**Finishes:** B, B-ORB  
**Options:** E, EL, V3, ELV3  
(not available for ORB finish)



**ANSI/BHMA:**  
80B J14170  
80B-E J14270

In-swing

175



**Finishes:** A, BK, D, G, B, B-ORB  
**Options:** E, EL, V3, ELV3  
(not available for ORB finish)



**ANSI/BHMA:**  
175A, 175D, 175G, 175BK J34170  
175A-E, 175D-E, 175G-E, 175BK-E J34270  
175B J14170  
175B-E J14270

In-swing. Drain pan required underneath when used with weep holes.

See Thresholds Accessories &amp; options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

Interlocking Hooks and Angles page 6.

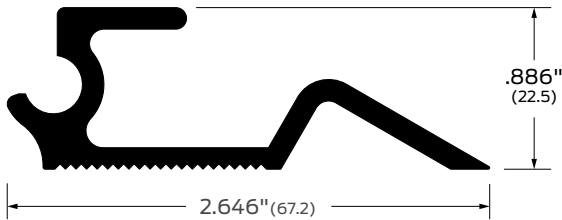


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Thresholds

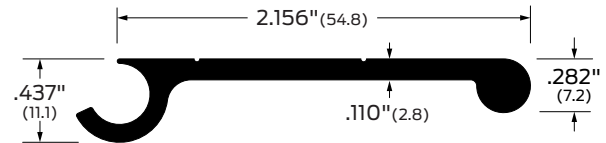
# Adjustable interlocking bronze threshold systems

**7000**



Finishes:  
B, B-ORB,  
B-SAT, B-POL

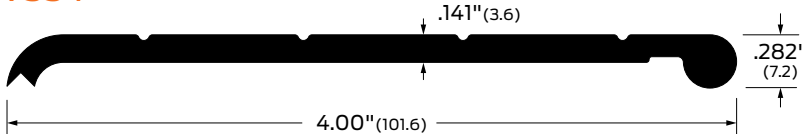
**7332**



Finishes:  
B, B-ORB,  
B-SAT, B-POL

Interlocking extension leg. Can be used once per assembly.

**7334**



Finishes:  
B, B-ORB,  
B-SAT, B-POL

## Specialty interlocking bronze threshold systems

Suitable combinations of threshold components are shown below.

|                                           | Interlocking Threshold Section |     |             |        |            | Main Threshold Plate |             |            | Extension Plate for use with 7334B and 7335B |             |            |
|-------------------------------------------|--------------------------------|-----|-------------|--------|------------|----------------------|-------------|------------|----------------------------------------------|-------------|------------|
|                                           | Width                          | Qty | Model #     | Height | Part Width | Qty.                 | Model #     | Part Width | Qty.                                         | Model #     | Part Width |
|                                           | Standard                       |     |             |        |            |                      |             |            |                                              |             |            |
| Decorative Bronze Interlocking Thresholds | 6.20"                          | 1   | <b>7000</b> | .886"  | 2.371"     | 1                    | <b>7334</b> | 3.829"     |                                              |             |            |
|                                           | 7.20"                          | 1   | <b>7000</b> | .886"  | 2.371"     | 1                    | <b>7335</b> | 4.829"     |                                              |             |            |
|                                           | 8.28                           | 1   | <b>7000</b> | .886"  | 2.371"     | 1                    | <b>7337</b> | 3.829"     | 1                                            | <b>7332</b> | 2.080"     |
|                                           | 9.28                           | 1   | <b>7000</b> | .886"  | 2.371"     | 1                    | <b>7335</b> | 4.829"     | 1                                            | <b>7332</b> | 2.080"     |
|                                           | Therma Seal                    |     |             |        |            |                      |             |            |                                              |             |            |
|                                           | 6.90"                          | 1   | <b>7338</b> | .890"  | 3.069"     | 1                    | <b>7334</b> | 3.829"     |                                              |             |            |
|                                           | 7.90"                          | 1   | <b>7338</b> | .890"  | 3.069"     | 1                    | <b>7335</b> | 4.829"     |                                              |             |            |
|                                           | 8.98"                          | 1   | <b>7338</b> | .890"  | 3.069"     | 1                    | <b>7334</b> | 3.829"     | 1                                            | <b>7332</b> | 2.080"     |
|                                           | 9.98"                          | 1   | <b>7338</b> | .890"  | 3.069"     | 1                    | <b>7335</b> | 4.829"     | 1                                            | <b>7332</b> | 2.080"     |

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze  
**B-SAT** Heavy satin bronze  
**B-POL** Bright buff polished bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.  
 SAT AND POL finishes are available for these systems for cost upgrade.  
 Interlocking Hooks and Angles page 6.

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty applications

Appendix

## Thresholds

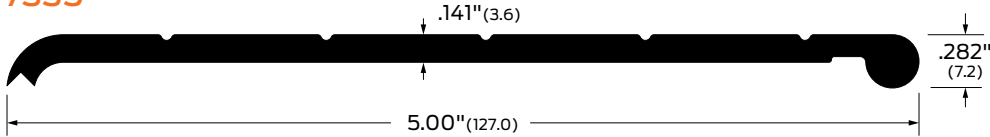
## Adjustable interlocking bronze threshold systems



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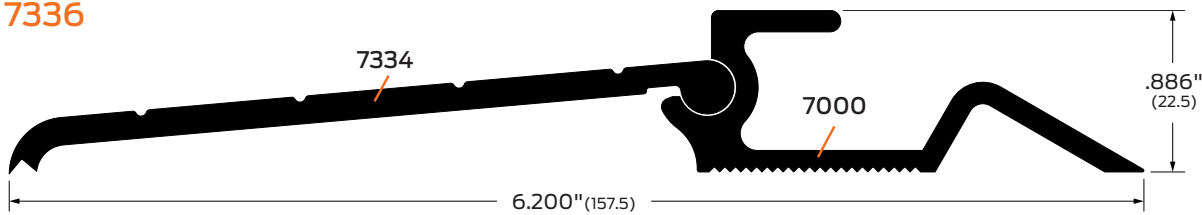
## 7335



**Finishes:**  
B, B-ORB,  
B-SAT, B-POL



## 7336

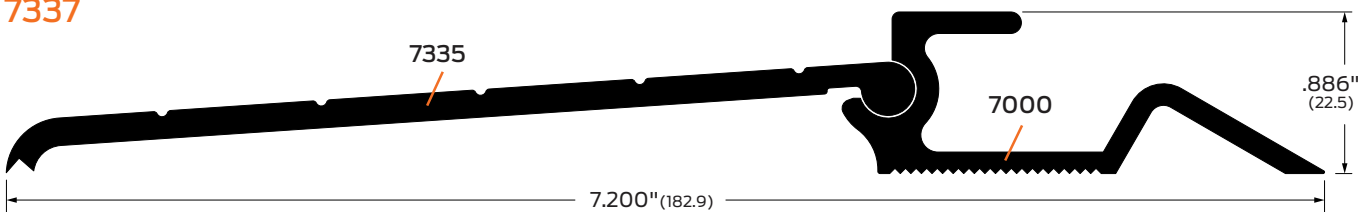


**Finishes:**  
B, B-ORB,  
B-SAT, B-POL



**ANSI/BHMA:**  
7336 J14170

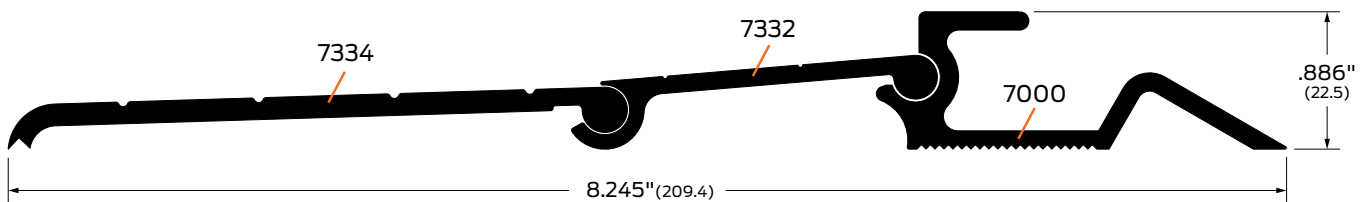
## 7337



**Finishes:**  
B, B-ORB,  
B-SAT, B-POL



**ANSI/BHMA:**  
7337 J14170



Full illustration not to scale

See Thresholds Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze  
**B-SAT** Heavy satin bronze  
**B-POL** Bright buff polished bronze

**Options:**

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

**Note:**

Special anchors available for mounting most thresholds on concrete surfaces.

SAT AND POL finishes are available for these systems for cost upgrade.



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Thresholds

# Adjustable interlocking bronze threshold systems

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

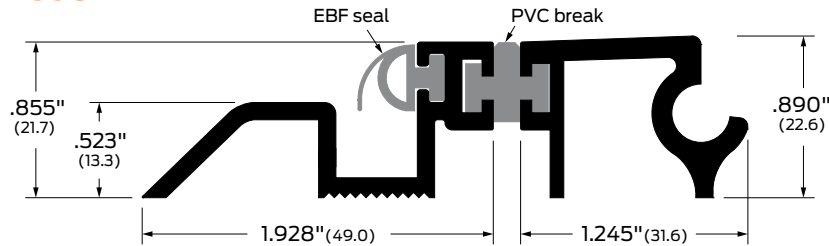
Intumescent

Sound control

Specialty applications

Appendix

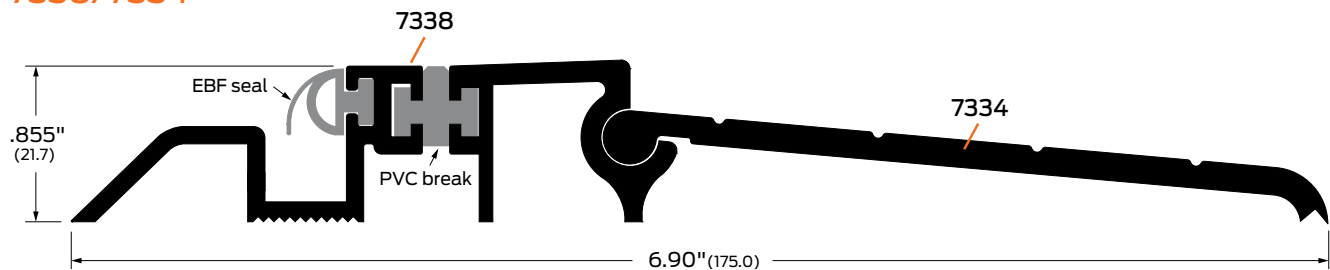
## 7338



**Finishes:**  
B, B-ORB,  
B-SAT, B-POL

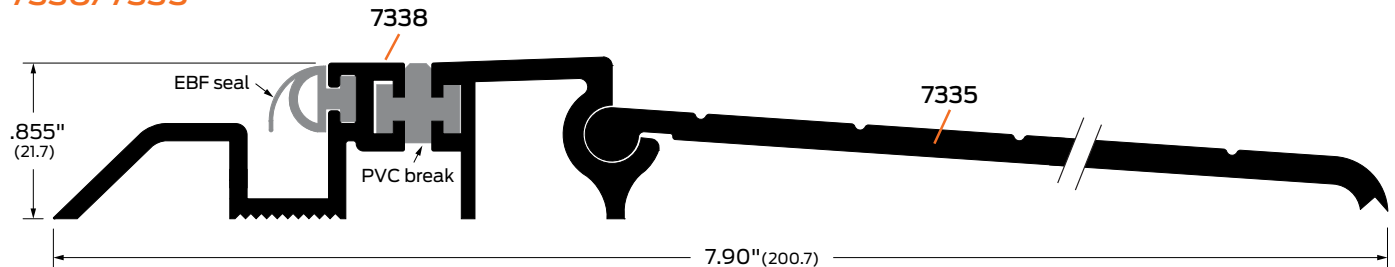
Thermal seal. Interlocking assembly for in-swinging door. Order as one unit.

## 7338/7334



In-swing. Interlocking assembly for in-swinging door. Order components separately.

## 7338/7335



In-swing. Interlocking assembly for in-swinging door. Order components separately.

See Thresholds Accessories & options page for details.

### Finishes:

- A** Aluminum mill finish
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed bronze
- B-SAT** Heavy satin bronze
- B-POL** Bright buff polished bronze

### Options:

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

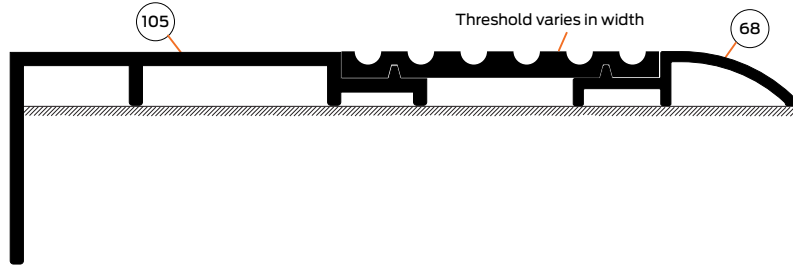
Special anchors available for mounting most thresholds on concrete surfaces.

## Thresholds

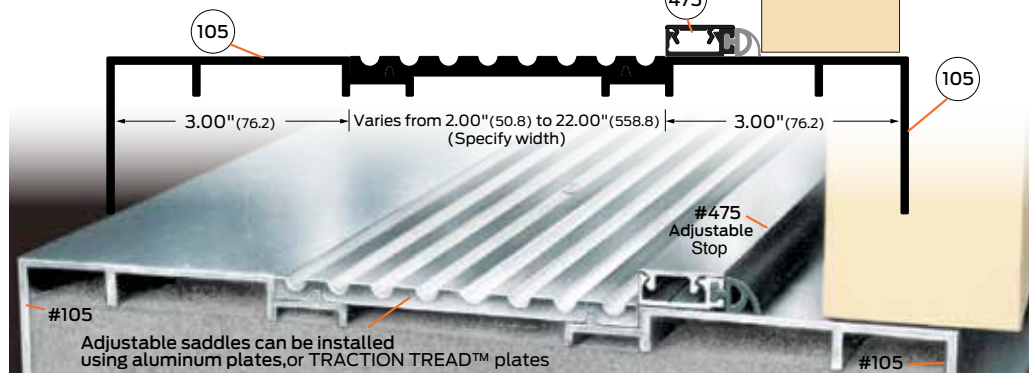
## Specialized threshold solutions



## Adjustable thresholds – bulkhead systems



## Roof curb thresholds



Suitable for rooftop entryways, flood abatement thresholds, and other raised-concrete applications.

Order components separately.

Configuration shown above provides a good low-profile solution. Consult with Technical Customer Care for other configurations and applications.

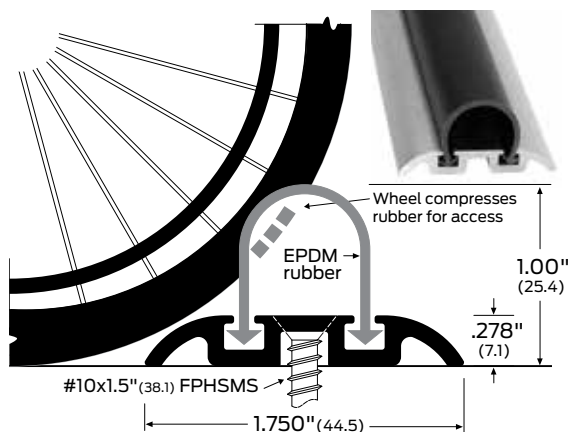
Note: When specifying this system for rooftop entryways, include at least an additional ¼" in length to accommodate rooftop flashing. Order the next whole inch size greater.

Reminder: When measuring sill cover pieces, include extensions to the outside of the frame that might be needed for a close fit without gaps.

## 8452 Wheelchair accessible shower threshold

Designed for use when a shower must be accessible to a wheelchair.

The rubber gasket keeps water in while allowing the wheel to pass over easily.



Finishes: A, BK, D, G ANSI/BHMA: 8452A, 8452BK, 8452D, 8452G J32330

See Thresholds Accessories & options page for details.

## Finishes:

- A** Aluminum mill finish
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed bronze

## Options:

- E** Epoxy abrasive tread
- EL** Photoluminescent and abrasive epoxy tread
- V3** Full body strength fill
- EV3** Epoxy and full body strength fill
- ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

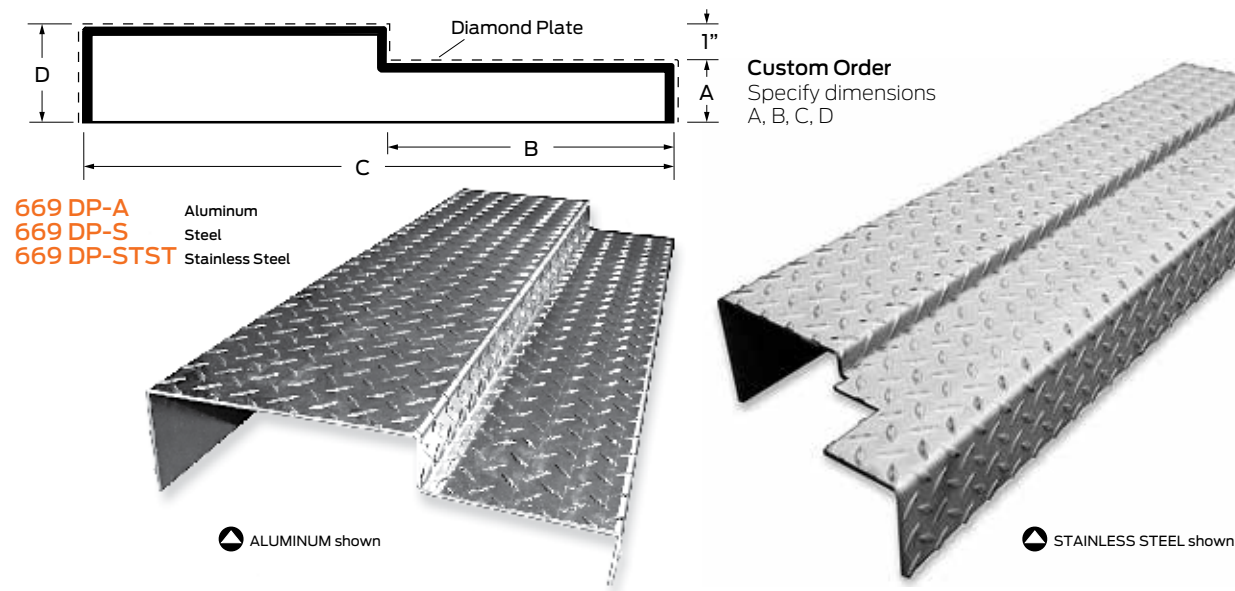
## Note:

Special anchors available for mounting most thresholds on concrete surfaces.



## Specialized threshold solutions

## Diamond-plate bulkhead thresholds



Available as Engineered Special. Order requires dimensions A, B, C, D.

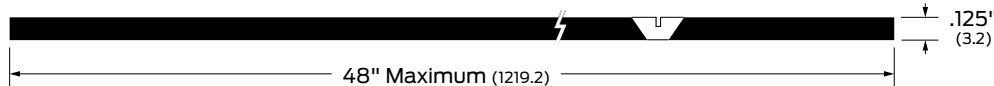
## Notes:

A dimension – minimum 1"

D dimension – must be at least 1" greater than A dimension

## Aluminum cover plates

## 600CP Standard



**Finishes:** A, BK, D, G  
**Options:** E, EL, BV (beveled edges)

**ANSI/BHMA:**  
600CP J37300  
600CPE J37400

## 601CP Standard



**Finishes:** A, BK, D, G  
**Options:** E, EL, BV (beveled edges)

**ANSI/BHMA:**  
601CP J37300  
601CPE J37400

## For expansion joint covers or wherever extra width and strength are needed.

Available in widths 6" to 48" and lengths 36" to 120".

Consult your structural engineer to determine maximum width and length appropriate for your specific application.

- Manufactured from AL 5052 rolled aluminum.
- Square edges are standard. Beveled edges (length only) available on request at additional cost – beveled edges are one-half the thickness of the part at a 45 degree angle.
- Plates are not drilled unless specified.
- Custom drilling available at additional cost.
- Made to order and non-returnable. Orders cannot be canceled after order confirmation and acknowledgement.



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See Thresholds Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

## Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

## Note:

Special anchors available for mounting most thresholds on concrete surfaces.



## Thresholds

# Specialized threshold solutions

## Cover plate assemblies for floor-mounted automatic door closers

### TYPE 1

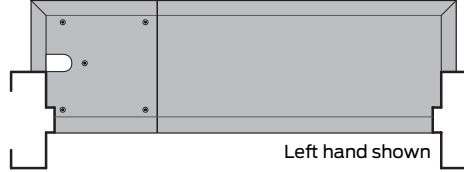
For doors hung in center of frame



Left hand shown

### TYPE 3

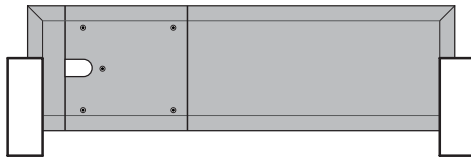
For use with all offset closers and pivot sets



Left hand shown

### TYPE 4

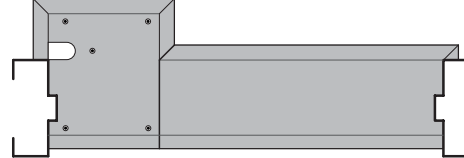
For doors hung flush with face of frame



Left hand shown

### TYPE 5

For use with offset closers and pivot sets



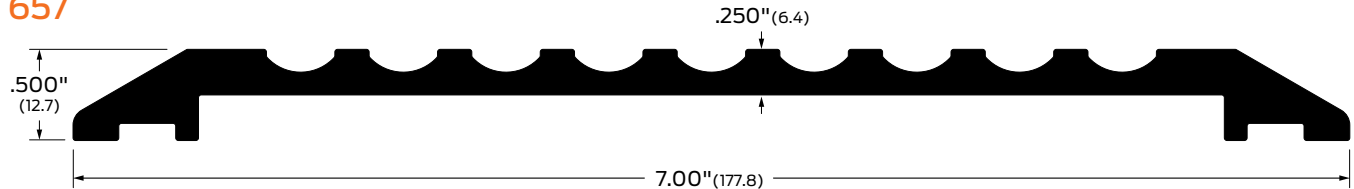
Left hand shown

TYPE 3 shown

Because specified dimensions may vary, cover plate assemblies for floor closer thresholds require submittal of a template for Engineered Specials processing. When ordering, please specify handing.

- Cover plates may be ordered for models 547 and 647. Because of the low, extended angle on the ramps on these ADA-compliant models, the control box of the cover plate assembly needs to be level with the floor to prevent interference with the support legs. Request milling the legs to provide sufficient clearance if needed.
- Additional models that can be used with cover plate assemblies are shown below.

## 657



**Finishes:**  
A, BK, D, G

**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**

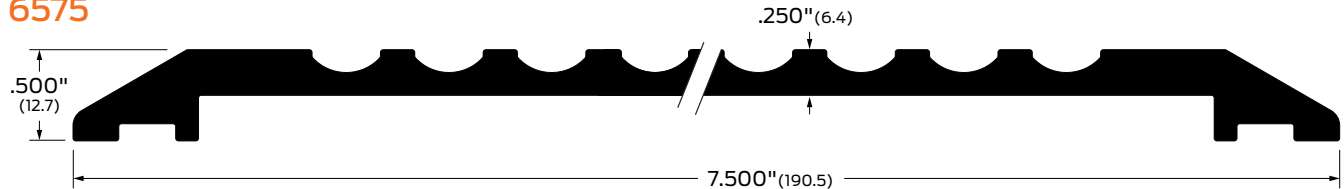
657A, 675BK, 657D, 657G

657A-E, 675BK-E, 657D-E, 657G-E

J32100

J32200

## 6575



**Finishes:**  
A, BK, D, G

**Options:**  
E, EL, V3,  
EV3, ELV3



**ANSI/BHMA:**

657A, 675BK, 657D, 657G

657A-E, 675BK-E, 657D-E, 657G-E

J32100

J32200

Note: Model 6570 (see Saddle Thresholds section) may also be suitable for this application (Type 1 only), depending on configuration with floor-mounted automatic door closers. Check that the bevel allows adequate clearance.

See Thresholds Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed bronze

### Options:

**E** Epoxy abrasive tread  
**EL** Photoluminescent and abrasive epoxy tread  
**V3** Full body strength fill  
**EV3** Epoxy and full body strength fill  
**ELV3** Photoluminescent and abrasive epoxy tread, full body strength fill

### Note:

Special anchors available for mounting most thresholds on concrete surfaces.



# Automatic door bottoms

Door sealing systems



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## Automatic door bottoms

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## Accessories &amp; options

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## Regular duty

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## Light duty

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## Special purpose

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## Automatic door bottoms Introduction

## The Zero quality advantage

Zero's patented automatic door bottom technology ensures an efficient seal against the floor or saddle.

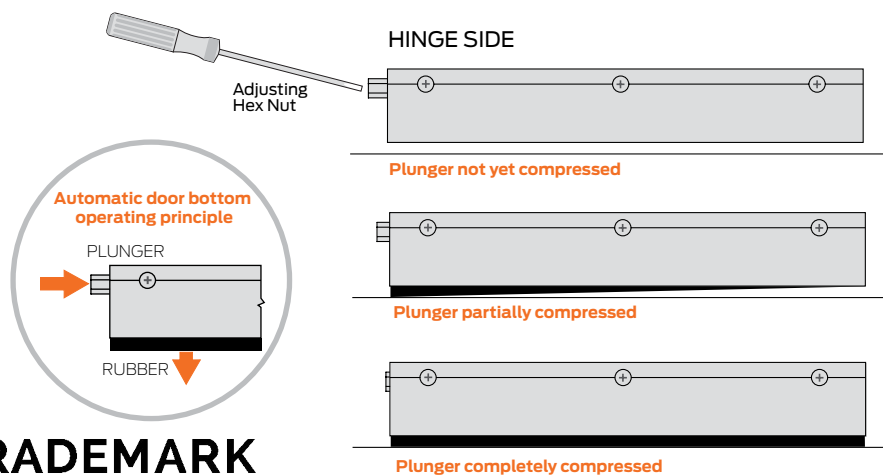
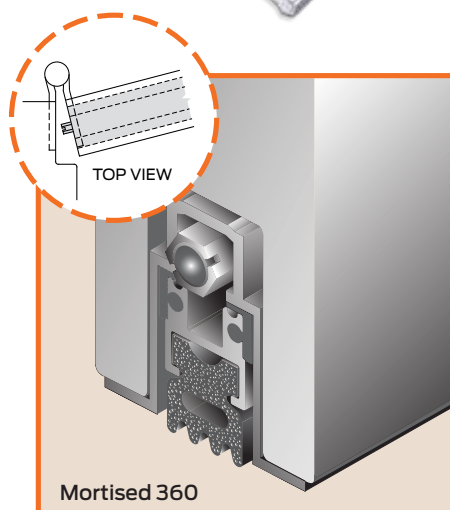
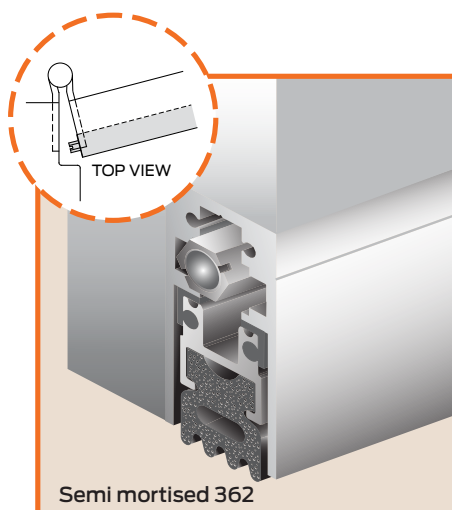
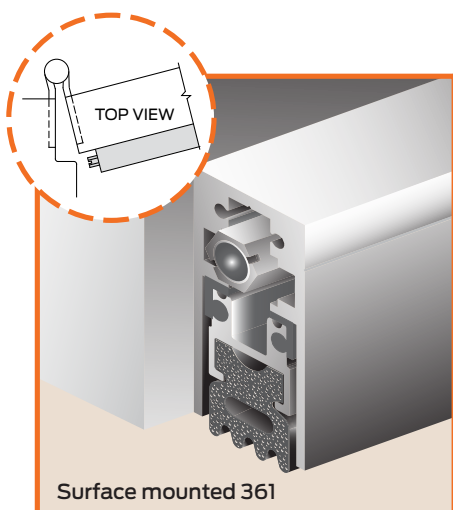
As the door is closed, the adjustable plunger is compressed against the door frame, activating a concealed flat spring mechanism. This mechanism drops the seal smoothly from the housing in a scissor-like motion as illustrated below. The door seal compresses on either even or uneven surfaces and retracts automatically when the door is opened.

Door bottoms are available in specialized versions for various applications, including: "light spring" (LS options). Zero door bottoms are designed to block penetration by air, sound, smoke and flames.

All Zero automatic door bottoms function the same way. The concealed spring mechanism causes the insert seal to activate on the hinge side first. It prevents the seal from dragging along the floor or threshold while the door is being closed to avoid door hang-up or closing delay.

Tested and validated for 5 million cycles

US Patent# 4947584



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## Automatic door bottoms

## Accessories &amp; options



## Finishes



**AA**  
Clear Anodized Aluminum  
(628, US28AN)



**BK**  
Black Anodized Aluminum  
(711, 315AN)



**D**  
Dark Bronze Anodized  
Aluminum (710, 313AN)



**G**  
Gold Anodized Aluminum  
(688, US10AN)

**Note:** See individual model for finish options.

## Options

- |                                                                                     |                            |
|-------------------------------------------------------------------------------------|----------------------------|
| <b>LS</b> Light spring                                                              | <b>SEC</b> Security screws |
| <b>FLO</b> Air flow/ sound block                                                    | <b>LK</b> Locking key 8361 |
| <b>Z49</b> Easy access plate                                                        | <b>NH</b> No holes         |
| <b>PL</b> Pull out (all Z49 come with pull out feature, unless otherwise specified) |                            |

## Light spring (LS)

When specified, the “light spring” replaces the standard heavy-duty spring mechanism that drops the seal from the door bottom housing. This feature can be useful for reducing opening and closing force for use with ADA-compatible doors.

Zero 365LS ADB was tested for opening force in conjunction with Zero 475 Head & Jamb Gasketing on an ADA compatible door, results are shown below.

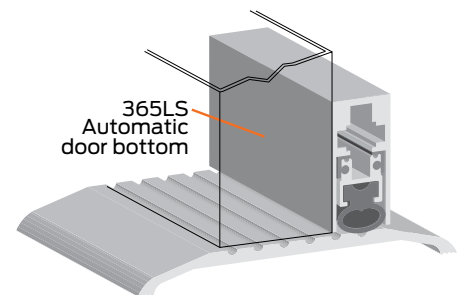
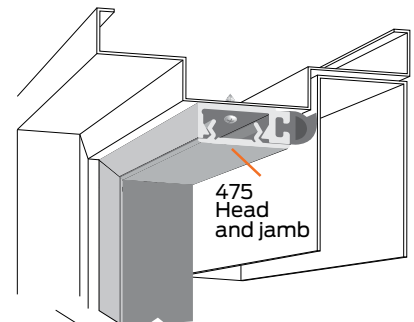
## Test door: 36" X 84" x 1-3/4"

| Test results: |                                                  | Opening force (lbs.) | Closing force (lbs.) |
|---------------|--------------------------------------------------|----------------------|----------------------|
| Test 1        | 475 Head and Jamb                                | 1.75                 | 7.90                 |
| Test 2        | 475 Head and Jamb<br>365LS Automatic Door Bottom | 1.90                 | 9.05                 |
| Test 3        | Closing force with no seals                      | -                    | 6.75                 |

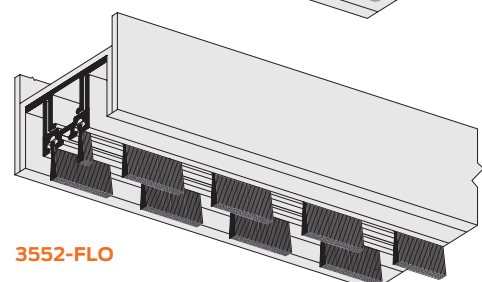
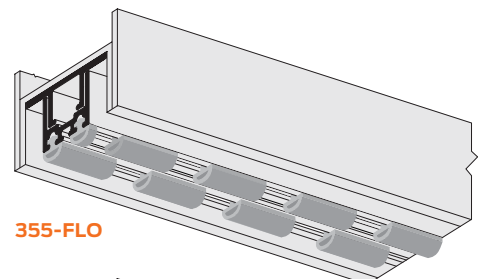
## Air flow/sound block (FLO)

Available as an option for mortised automatic door bottom models 355 and 3552.

The FLO configuration is a practical solution for applications requiring air flow while blocking light and sound as much as possible. The design uses sound-dampening silicone seals or nylon brush which are notched and overlapped in staggered rows. This feature is commonly used for hotel doorways designed to exchange or allow air circulation between guest rooms and hallways.



**475 and 365LS** - 1.9 lbs opening force



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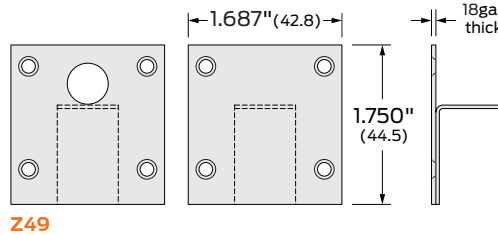


# Accessories & options

## Z49 End cap – Easy-access end caps for mortised door bottoms (Z49)

This option provides easy access end caps for cleaning the door bottom drop mechanism. It is well suited for applications in healthcare and other facilities subject to higher standards and routine inspections for cleanliness. Z49 comes standard with (PL) Pull Out feature unless otherwise specified.

Available finishes: Powder coat USP-600

**Z49****Concealed door bottom**

## Pull-out option (PL)

Allows for easy removal of the inner seal assembly without removing the entire ADB or the door. This option is recommended for applications where the seal may need replaced or cleaned frequently.

Note: Not available in lengths less than 26" for models 367, 368 and 369.  
All other models available in lengths 23" and up.

## Security screws (SEC)

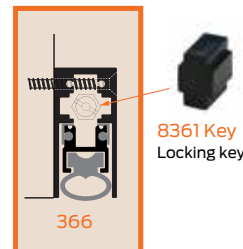
Tamper-resistant Torx security screws. Prevents unauthorized removal in hospitals, schools and public places.

## Locking key 8361 (LK)

Fits over adjusting nut. Not for use with an end cap. For models 351, 352, 361, 362, 365, 366, 367, 368.

## No holes (NH)

Door bottoms are supplied standard with mounting holes. To order without mounting holes drilled, specify NH.

**8361 Key**  
Locking key**366**

# Accessories & options



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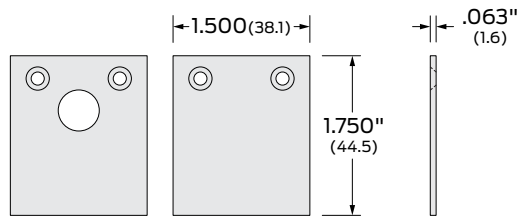
## End caps

Anodized aluminum plate .063" thick.

All available in AA, Clear Anodized Aluminum finish, some available in D-Dark Bronze powder coat finish.

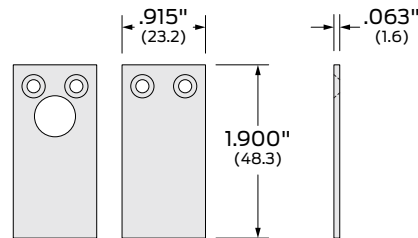
Supplied standard as noted for each endcap model.

### 320 End cap



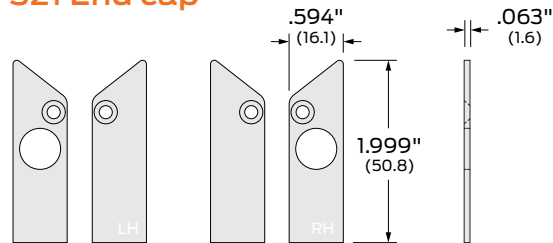
Endcap for 320 and 323 door bottoms

### 361 End cap



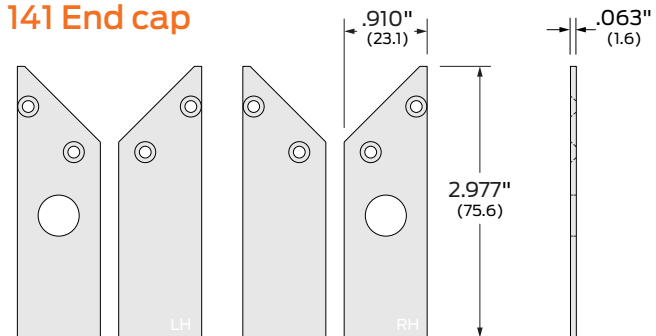
Endcap for 361, 362, 365, 366, 367, 368 door bottoms

### 321 End cap



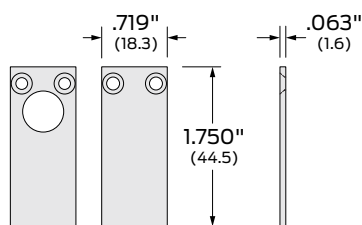
Endcap for 321 door bottoms

### 141 End cap



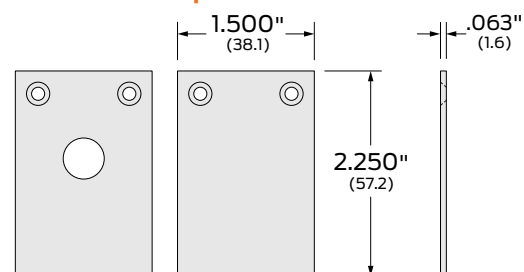
Endcap for 362, 366, 368 with 141 rain drip

### 351 End cap



Endcap for 351, 352 door bottoms

### 360 End cap



Endcap for 350, 360, 364, 369, 7350 door bottoms

### Endcap kits for automatic door bottoms (ADBs)

End caps and screws are provided in standard kits supplied with the ADB models noted below.

Use these part numbers for ordering additional or replacement kits.

| Models                                   | Part number  | ADB finish | Details                                  |
|------------------------------------------|--------------|------------|------------------------------------------|
| 360, 364, 369 with Z49 option            | 47252145     | AA         | 2 endcaps and 8 screws                   |
| 321                                      | 47253671     | AA         | 4 endcaps and 2 screws for both handings |
| 321                                      | 47253671-695 | BK, D, G   | 4 endcaps and 2 screws for both handings |
| 320, 323                                 | 47251270     | AA         | 2 endcaps and 4 screws                   |
| 350, 360, 364, 369, 7350                 | 47251371     | AA         | 2 endcaps and 4 screws                   |
| 351, 352                                 | 47251332     | AA         | 2 endcaps and 4 screws                   |
| 351, 352                                 | 47251332-695 | BK, D, G   | 2 endcaps and 4 screws                   |
| 361, 362, 365, 366, 367, 368             | 47251383     | AA         | 2 endcaps and 4 screws                   |
| 361, 362, 365, 366, 367, 368             | 47251383-695 | BK, D, G   | 2 endcaps and 4 screws                   |
| 362, 366, 368 with 141 rain drip end cap | 47253705     | AA         | 2 endcaps and 4 screws                   |



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Automatic door bottoms

## Accessories & options

Thresholds

Automatic door  
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Weatherstripping

Intumescent

Sound control

Specialty  
applications

Appendix

### Automatic door bottom (ADB) screw packs

Automatic door bottoms are supplied with the appropriate screws and quantities needed for installation based on order length. Use the part numbers below for ordering additional screws.

| Models                                                         | Category | Part number  | ADB Finish | Details                                                   |
|----------------------------------------------------------------|----------|--------------|------------|-----------------------------------------------------------|
| 320, 323, 350, 355, 360, 364, 369, 3551, 3552, 7350 Up to 108" | ADB      | 47253854     | AA         | 22 Screws #6 x 3/4" PPHSDS ZP                             |
| 321, 351, 361, 365, 367 up to 108"                             | ADB      | 47253868-00  | AA         | 11 Screws #8 X 1-1/2" Truss PHSMS ZP                      |
| 321, 351, 361, 365, 367 up to 108"                             | ADB      | 47253868-34  | G          | 11 Screws #8 X 1-1/2" Truss PHSMS Gold ZP                 |
| 321, 351, 361, 365, 367 up to 108"                             | ADB      | 47253868-695 | D, BK      | 11 Screws #8 X 1-1/2" Truss PHSMS Black ZP                |
| 352, 362, 366, 368, up to 108"                                 | ADB      | 47253866-00  | AA         | 11 Screws #8 X 1-1/2" FPHSMS ZP                           |
| 352, 362, 366, 368 up to 108"                                  | ADB      | 47253866-34  | G          | 11 Screws #8 X 1-1/2" FPHSMS - Gold ZP                    |
| 352, 362, 366, 368 up to 108"                                  | ADB      | 47253866-695 | D, BK      | 11 Screws #8 X 1-1/2" FPHSMS - Black ZP                   |
| 352, 362, 366, 368                                             | ADB      | 47259741     | AA         | 11 Screws #8 X 1-1/2" Flat security torx SMS              |
| 352, 362, 366, 368                                             | ADB      | 47259741-480 | D, BK      | 11 Screws #8 X 1-1/2" Flat security torx SMS, Black ZP    |
| 352, 362, 366, 368                                             | ADB      | 47259741-633 | G          | 11 Screws #8 X 1-1/2" Flat security torx SMS, BRS Plate   |
| 321, 351, 361, 365, 367                                        | ADB      | 47259744     | AA         | 11 Screws #8 X 1-1/2" Button security torx SMS, Clear ZP  |
| 321, 351, 361, 365, 367                                        | ADB      | 47259744-480 | D, BK      | 11 Screws #8 X 1-1/2" Button security torx SMS, Black ZP  |
| 321, 351, 361, 365, 367                                        | ADB      | 47259744-633 | G          | 11 Screws #8 X 1-1/2" Button security torx SMS, BRS plate |

### Replacement rubber seals

Replacement seals are available for ADB models containing rubber components.

Ordering information is provided in the appendix. If you are viewing an interim version of this catalog, please contact Customer Support for replacement rubber.

### Brass spring actuator nut

**50 mm 47255867**

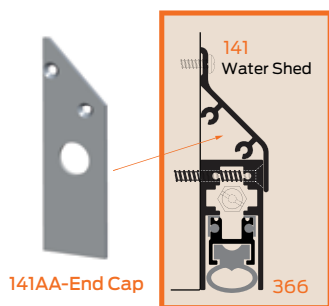
Extends the length of the door bottom actuator rod to compensate for variation in door gaps or other installed conditions.



### Specialty exterior protection

Perimeter water sheds can be useful for impeding water ingress at door bottoms. To order, please refer to How-to-Order instructions in the Perimeter Seals section. If you are using an interim Automatic Door Bottom catalog that does not include perimeter seals, please call Allegion Customer Care for ordering assistance at: 877-671-7011, option 2 for technical services.

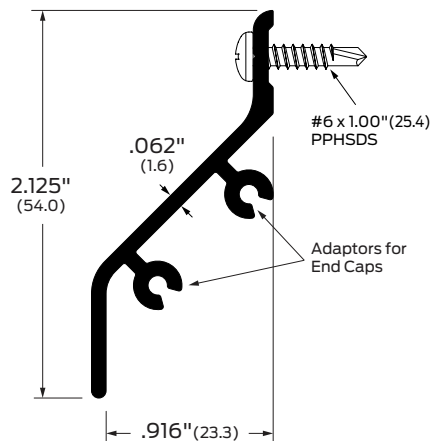
### Rain drip 141



Finishes:  
AA, BK, D, G

ANSI/BHMA:  
141AA, 141BK, 141D, 141G R3Y936

For 362, 366, 368 surface-mounted applications (with flat head screws).



# Automatic door bottoms order guide

## How to order

|                                                                                                                                                               | Model | Finish                                                                                                                                                                                                                                                                                                                                                                                 | Options | Length | Metric | End Cap |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------|---------|
|                                                                                                                                                               | 360   | AA                                                                                                                                                                                                                                                                                                                                                                                     | LS      | 36     |        | Z49     |
| <b>Models</b>                                                                                                                                                 |       | <div><p>Example</p><p>320*</p><p>321</p><p>323</p><p>350*</p><p>351</p><p>352</p><p>355*</p><p>360*</p><p>361</p><p>364*</p><p>364FS</p><p>365</p><p>365FS</p><p>367</p><p>368</p><p>369*</p><p>3551*</p><p>3552*</p><p>7350</p><p><small>*Models: 320, 350, 355, 360, 364 and 369, available in AA finish only.<br/>End caps not included with 355, 3551, and 3552.</small></p></div> |         |        |        |         |
|                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Finishes</b>                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>AA</b> - Aluminum Clear Anodized (US28)                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>BK</b> - Black Anodized (315AN)                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>D</b> - Aluminum Dark Bronze Anodized (313AN)                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>G</b> - Aluminum Gold Anodized                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Options</b>                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Blank</b> - no options                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>LS</b> - Light spring (not available on models: 355, 364FS, 365FS, 366FS, 367, 368, 369, 3551, 3552)                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>FLO</b> - Air Flow configuration (available on 355 and 3552 only)                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Z49</b> - Easy access plate                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>PL</b> - Pull out option                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>SEC</b> - #8 X 1-1/2" Flat security Torx SMS (available on 352, 362, 366, and 368), #8 x 1-1/2" Button SEC Torx SMS (available on 321, 351, 361, 365, 367) |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>LK</b> - Locking key 8361                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>NH</b> - No mounting holes                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Length</b>                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| Use decimal to nearest 1/8" increment. Sizes under 18" trimming may be limited.                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Metric</b>                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Blank</b> = US Standard                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>MM</b> = Metric in millimeters (rounded to the nearest 1/8")                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>End cap</b>                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Blank</b> = Std. End Caps Included                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |
| <b>Z49</b> = End cap for models only: (360, 364, 364FS, 369)                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                        |         |        |        |         |





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Automatic door bottoms

Heavy duty

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

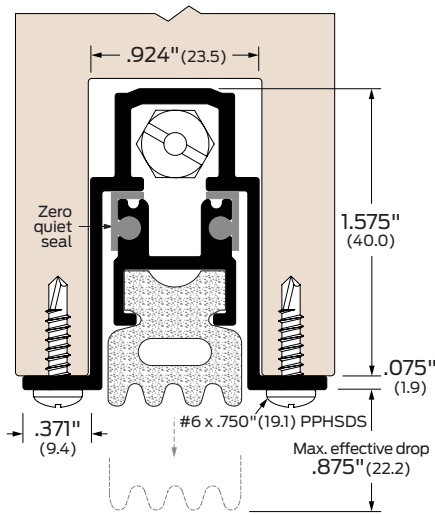
Intumescent

Sound control

Specialty  
applications

Appendix

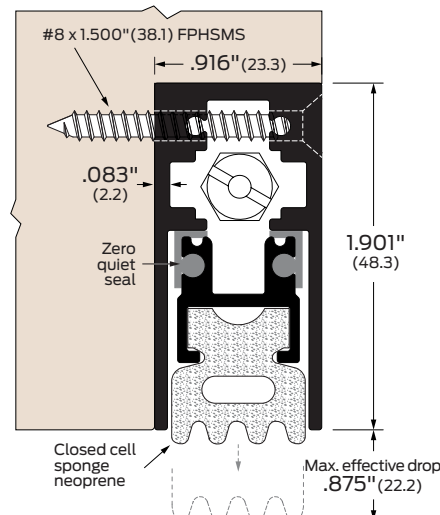
360



**Finishes:** AA  
**Options:** LS, Z49  
End Cap,  
PL, NH  
**ANSI/BHMA:**  
360AA R3C324  
**BHMA**  
CERTIFIED

Mortised. Supplied with closed cell sponge neoprene.  
Note: Consult your local AHJ for maximum allowable door undercut.

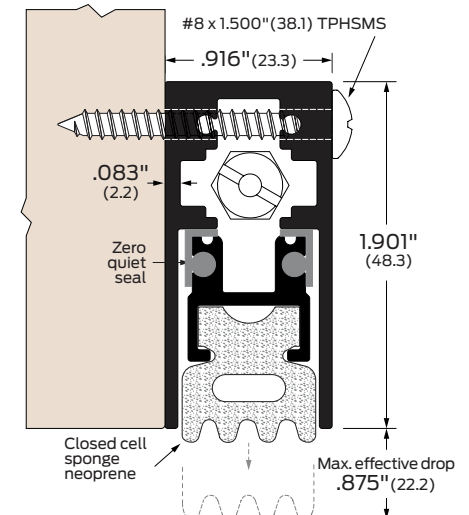
362



**Finishes:** AA, BK,  
D, G  
**Options:** LS, PL,  
SEC, LK, NH  
**ANSI/BHMA:**  
362AA, 362BK, 362D, 362G R3B344  
**BHMA**  
CERTIFIED

Semi-mortised applications. Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercut.

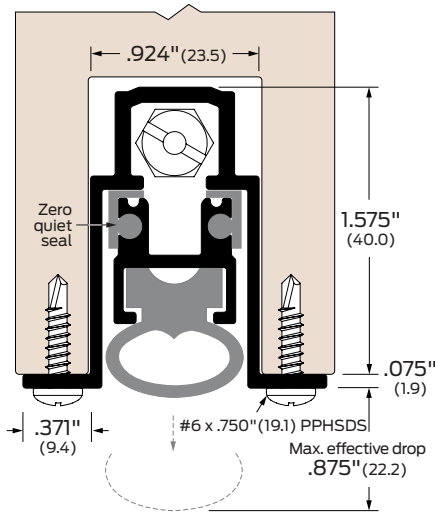
361



**Finishes:** AA, BK,  
D, G  
**Options:** LS, PL,  
NH, LK, SEC  
**ANSI/BHMA:**  
361AA, 361BK, 361D, 361G R3C334  
**BHMA**  
CERTIFIED

Surface-mounted applications. Supplied with closed cell sponge neoprene.

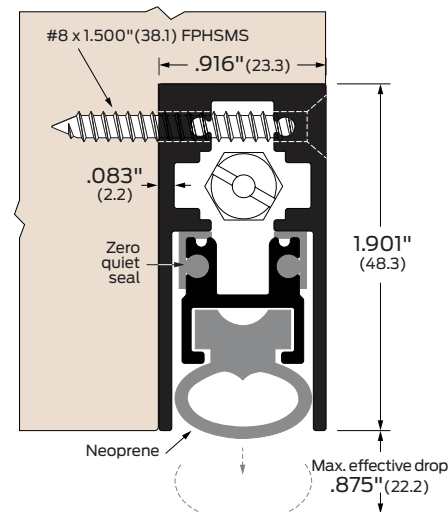
364



**Finishes:** AA  
**Options:** LS, Z49  
End Cap,  
PL, NH  
**ANSI/BHMA:**  
364AA R3B324  
**BHMA**  
CERTIFIED

Mortised. Supplied with solid neoprene extrusion.  
Note: consult your local AHJ for maximum allowable door undercut.

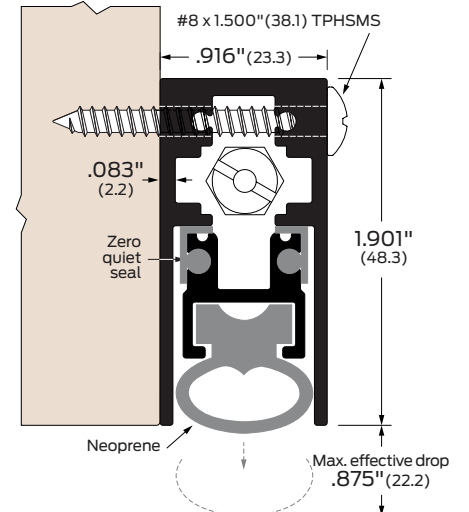
366



**Finishes:** AA, BK,  
D, G  
**Options:** LS, PL, SEC,  
LK, NH  
**ANSI/BHMA:**  
366AA, 366BK, 366D, 366G R3B344  
**BHMA**  
CERTIFIED

Semi-mortised applications. Supplied with solid neoprene extrusion. Note: Consult your local AHJ for maximum allowable door undercut.

365



**Finishes:** AA, BK,  
D, G  
**Options:** LS, PL, SEC,  
LK, NH  
**ANSI/BHMA:**  
365AA, 365BK, 365D, 365G R3B334  
**BHMA**  
CERTIFIED

Surface-mounted applications.  
Supplied with solid neoprene extrusion.

See ADB Accessories & options page for details.

**Finishes:**

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

**Options:**

**LS** Light spring  
**FLO** Air flow/ sound block  
**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key  
**NH** No holes

**Note:**

Maximum order length is 60" unless noted otherwise. Lengths up to 96" on some models available as engineering special order.  
Lengths 10" - 18" available only with light spring drop mechanism.  
Not recommended for maximum drop greater than .500".  
Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.

## Automatic door bottoms

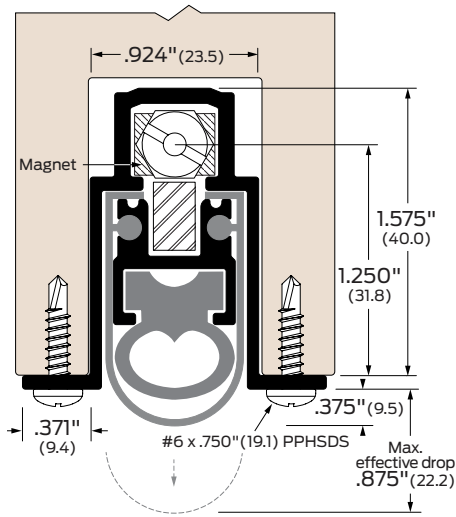
## Heavy duty



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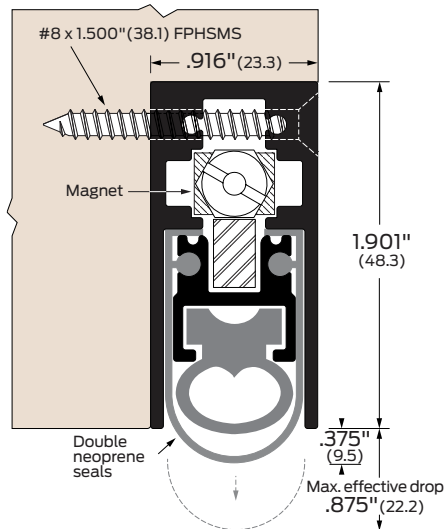
369



**Finishes:** AA  
**Options:** Z49 End Cap, PL, NH  
**ANSI/BHMA:** 369AA R3B324  
**BHMA CERTIFIED**

Mortised. Supplied with double solid neoprene seal. Magnet feature only on ADBs 24" and over. Note: Consult your local AHJ for maximum allowable door undercut.

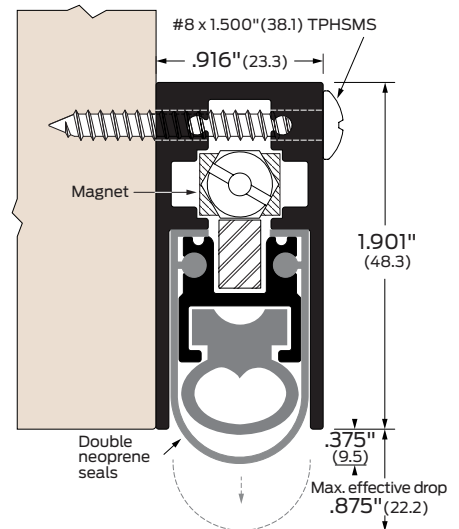
368



**Finishes:** AA, BK, D, G  
**Options:** PL, SEC, LK, NH  
**ANSI/BHMA:** 368AA, 368BK, 368D, 368G R3B344  
**BHMA CERTIFIED**

Semi-mortised applications. Supplied with solid neoprene extrusion. Magnet feature only on ADBs 24" and over. Note: Consult your local AHJ for maximum allowable door undercut.

367



**Finishes:** AA, BK, D, G  
**Options:** SEC, PL, LK, NH  
**ANSI/BHMA:** 367AA, 367BK, 367D, 367G R3B334  
**BHMA CERTIFIED**

Surface-mounted. Supplied with double solid neoprene seal. Magnet feature only on ADBs 24" and over.

See ADB Accessories & options page for details.

**Finishes:**

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

**Options:**

**LS** Light spring  
**FLO** Air flow/ sound block  
**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key  
**NH** No holes

**Note:**

Maximum order length is 60" unless noted otherwise. Lengths up to 96" on some models available as engineering special order.

Lengths 10" - 18" available only with light spring drop mechanism. Not recommended for maximum drop greater than .500".

Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.



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Automatic door bottoms

## Regular duty

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

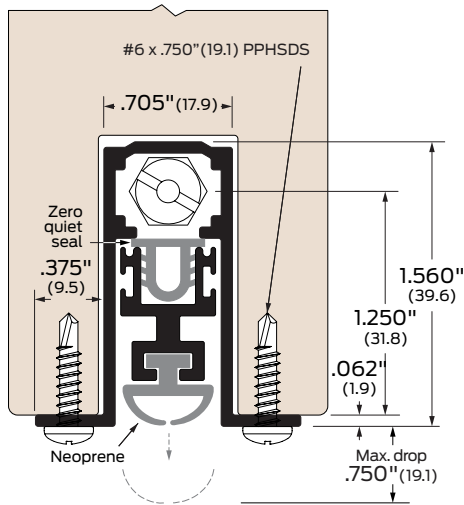
Intumescent

Sound control

Specialty  
applications

Appendix

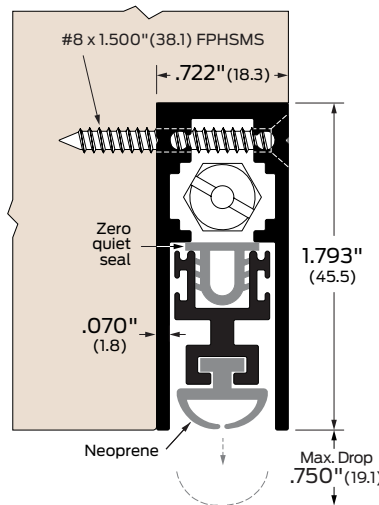
350



**Finishes:** AA  
**Options:** LS, PL, NH  
**ANSI/BHMA:** 350AA R3B324  
**BHMA CERTIFIED**

Mortised. Supplied with solid neoprene extrusion. Lengths 60-96" available as engineering specials.

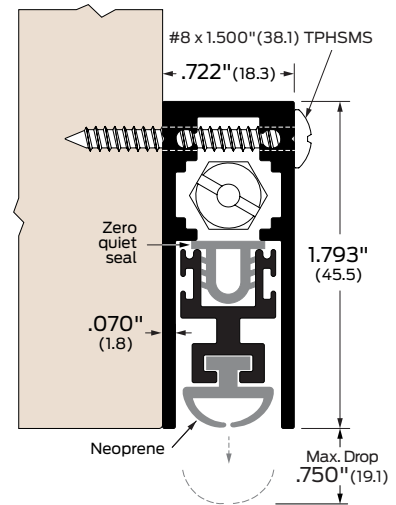
352



**Finishes:** AA, BK, D, G  
**Options:** LS, PL, SEC, LK, NH  
**ANSI/BHMA:** 352AA, 352BK, 352D, 352G R3B344  
**BHMA CERTIFIED**

Semi-mortised. Supplied with solid neoprene extrusion. Lengths 60-96" available as engineering specials.

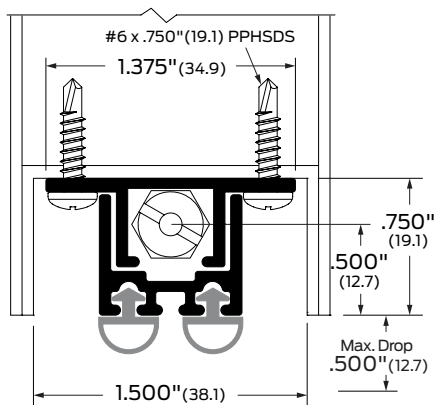
351



**Finishes:** AA, BK, D, G  
**Options:** LS, SEC, PL, LK, NH  
**ANSI/BHMA:** 351AA, 351BK, 351D, 351G R3B3334  
**BHMA CERTIFIED**

Surface-mounted. Supplied with solid neoprene extrusion. Lengths 60-96" available as engineering specials.

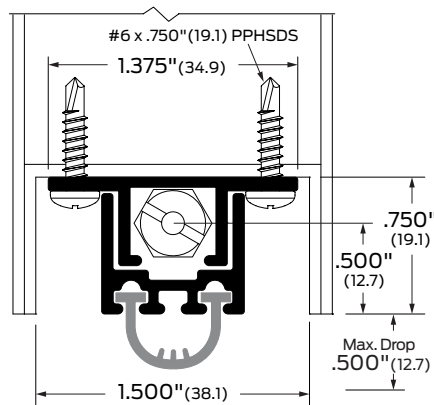
355



**Finishes:** AA  
**Options:** FLO, PL, NH  
**ANSI/BHMA:** 355A R3E324  
**BHMA CERTIFIED**

For use with hollow metal doors. Mortised. Supplied without end caps.

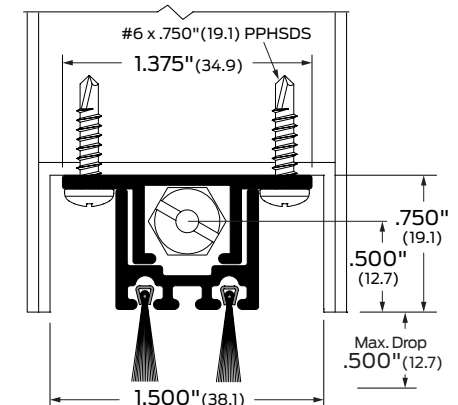
3551



**Finishes:** AA  
**Options:** PL, NH

For use with hollow metal doors. Mortised. Supplied without end caps.

3552



**Finishes:** AA  
**Options:** FLO, PL, NH

For use with hollow metal doors. Mortised. Supplied without end caps.

See ADB Accessories & options page for details.

### Finishes:

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

### Options:

**LS** Light spring  
**FLO** Air flow/ sound block  
**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key  
**NH** No holes

### Note:

Maximum order length is 60" unless noted otherwise. Lengths up to 96" on some models available as engineering special order.

Lengths 10" - 18" available only with light spring drop mechanism. Not recommended for maximum drop greater than .500".

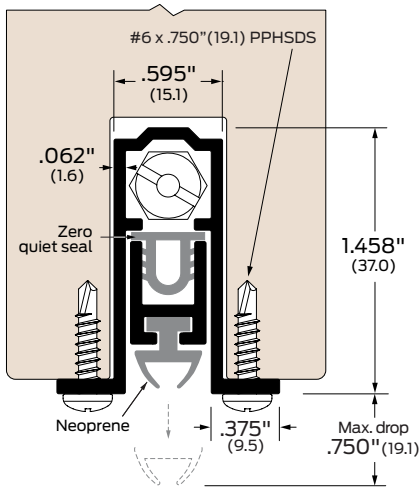
Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.

## Automatic door bottoms

## Light duty



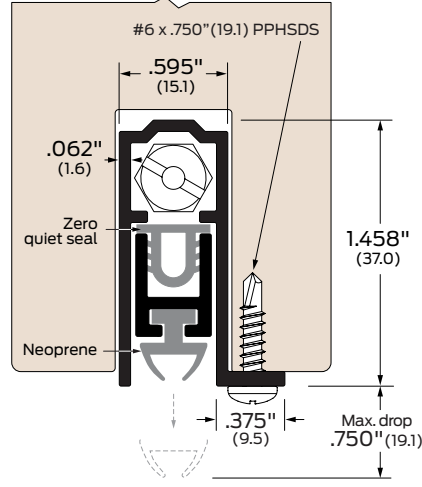
320



Finishes: AA Options: LS, PL, NH ANSI/BHMA: 320AA R3B324  
**BHMA**  
 CERTIFIED

Mortised. Lengths 60-96" available as engineering specials.

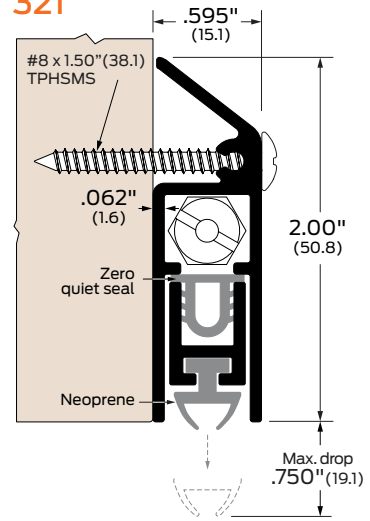
323



Finishes: AA Options: LS, PL, NH ANSI/BHMA: 323A R3B324  
**BHMA**  
 CERTIFIED

Mortised. Supplied with two handing holes that allow changing handing without changing mounting orientation. Lengths 60-96" available as engineering specials.

321



Finishes: AA, BK, D, G Options: LS, PL, SEC, NH ANSI/BHMA: 321AA, 321BK, 321D, 321G R3B334  
**BHMA**  
 CERTIFIED

Surface-mounted. Supplied with two handing holes that allow changing handing without changing mounting orientation. Lengths 60-96" available as engineering specials.



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See ADB Accessories & options page for details.

## Finishes:

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

## Options:

**LS** Light spring  
**FLO** Air flow/ sound block  
**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key  
**NH** No holes

## Note:

Maximum order length is 60" unless noted otherwise.

Lengths 10" - 18" available only with light spring drop mechanism. Not recommended for maximum drop greater than .500".

Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.



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Automatic door bottoms

Special purpose

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

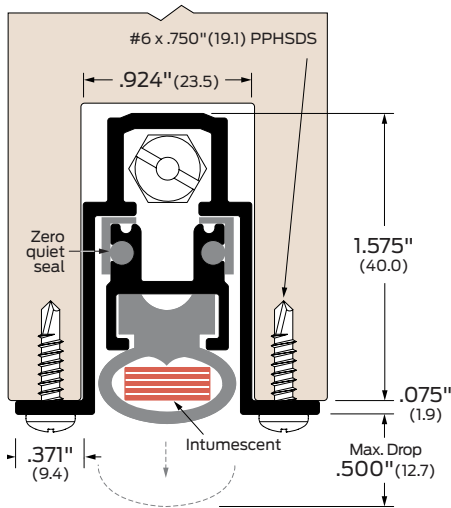
Intumescent

Sound control

Specialty  
applications

Appendix

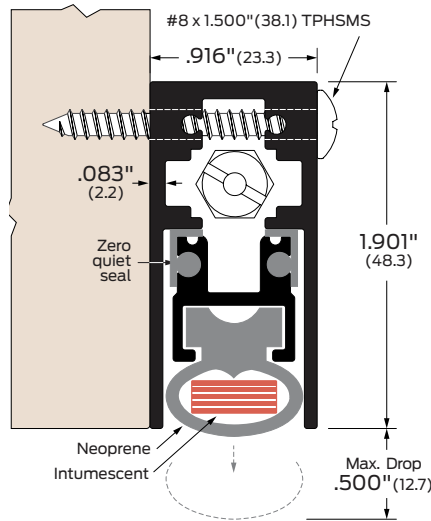
## Intumescent automatic door bottoms 364FS



**Finishes:** AA  
**Options:** Z49, PL, NH  
**ANSI/BHMA:** 364FSAA R3B324  
**BHMA** CERTIFIED

Mortised. Intumescent fire protection.

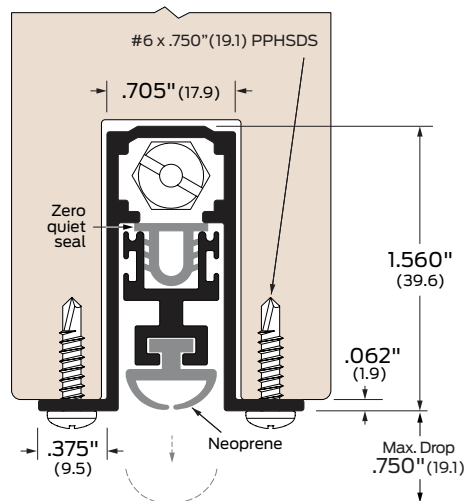
## 365FS



**Finishes:** AA, BK, D, G  
**Options:** LK, PL, SEC, NH  
**ANSI/BHMA:** 365FS-AA, 365FS-BK, 365FS-D, 355FSG R3B334  
**BHMA** CERTIFIED

Surface-mounted application. Intumescent fire protection.

## Sliding door automatic door bottom 7350



**Finishes:** AA  
**Options:** LS, PL, NH

Mortised, for latching pocket/sliding doors.  
Note: This automatic door bottom functions differently from other ZERO door bottoms. When the plunger is compressed, the mechanism causes the insert seal to activate and drop evenly along the door bottom. Maximum length of 48".

See ADB Accessories & options page for details.

### Finishes:

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

### Options:

**LS** Light spring  
**FLO** Air flow/ sound block  
**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key  
**NH** No holes

### Note:

Maximum order length is 60" unless noted otherwise. Lengths up to 96" on some models available as engineering special order.  
Lengths 10" - 18" available only with light spring drop mechanism. Not recommended for maximum drop greater than .500".  
Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible.



# Notes





# Perimeter seals

Door sealing systems



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## Perimeter seals

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## Perimeter seals Introduction

# Optimal choice and performance

Zero door gaskets for protecting head, jamb, sill, and meeting stiles are engineered for reliable performance in demanding environments. Constructed from top-quality materials, they are built to last. We offer an unequaled range of capabilities, features, aesthetic options and specialized solutions.

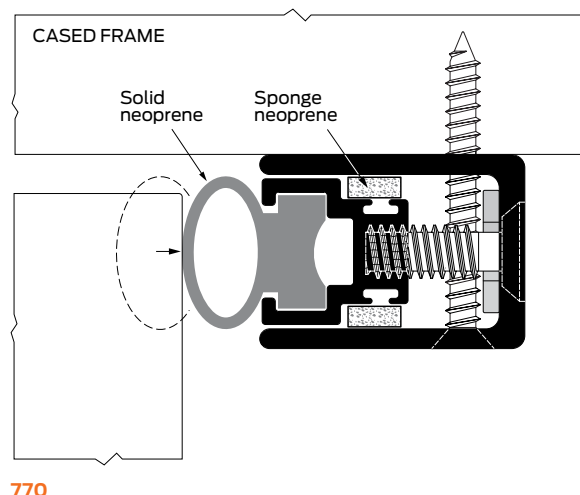
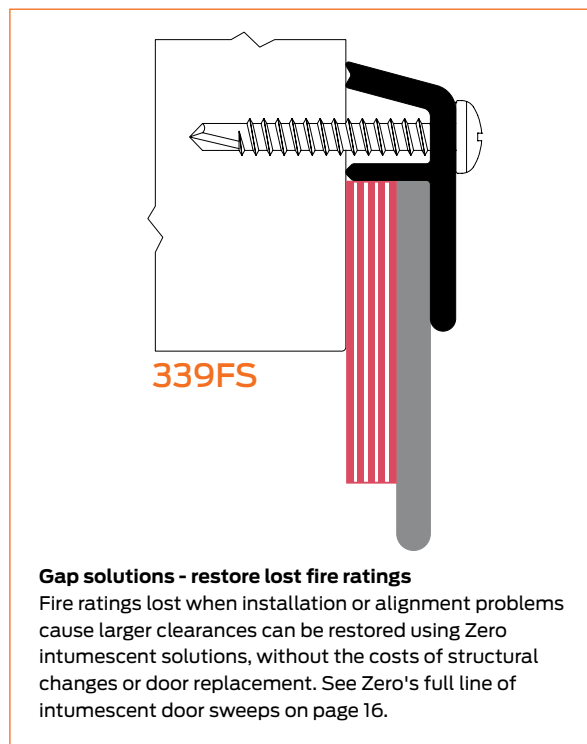
When you need the best seal to satisfy codes, or field conditions are less than perfect, our mechanically fastened gasketing provides many choices:

- Solid or closed cell sponge neoprene, silicone, EPDM rubber, nylon brush, and pile with fin seals.
- Sealing reinforcement using double seals, magnetic door seals, or spring-loaded mechanisms.
- Snap-on covers for aesthetics, as well as protecting mounting screws from abuse.
- ZAG ligature resistant option available on select head & jamb gaskets to prevent removal for self-harm or other inappropriate uses.
- EBF double sealing system available on selected gasketing (as well as thresholds), our extruded bulb/finger ensures an airtight seal even when doors are misaligned because of poor installation, or slightly warped.
- Adjustable features to compensate for door alignment problems at installation or in service.

### Adjustable sealing systems

Field conditions at installation are rarely perfect in the real world, alignment problems can cause gaps that diminish the performance of even the best-designed gasketing. Even with successful installations, similar problems can surface later on as doors cycle through changes in temperature and humidity.

Zero engineering provides field-proven solutions. Whenever gaps in door seals occur, it can be difficult to make needed adjustments using conventional gasketing. Zero's adjustable gasketing solves those problems with ease. Just a few turns of a screwdriver is all it takes to tighten adjusting screws along the length of the gasket and restore a tight seal.



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## Perimeter seals

## Accessories &amp; options



## Finishes



**A**  
Aluminum Mill Finish



**AA**  
Aluminum Clear Anodized  
(628, US28)



**BK\***  
Aluminum Black Anodized  
(711, 315AN)



**D\***  
Aluminum Dark Bronze  
Anodized (710, 313AN)



**G\***  
Aluminum Gold Anodized  
(688, 10AN)



**B**  
Bronze, Architectural  
Mill Finish



**B-ORB**  
Oil-Rubbed Bronze  
(US10B/613)

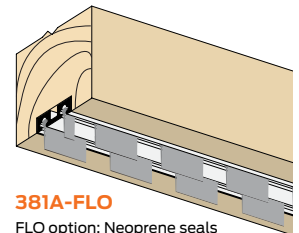
\*Black, Dark Bronze and Gold anodized aluminum finishes will show wear over time and are not included in the standard warranty. Black, Dark Bronze and Gold anodized aluminum finished products may require a longer lead time, please contact customer service for accurate lead times.

## Options

|            |                             |            |                              |            |                 |
|------------|-----------------------------|------------|------------------------------|------------|-----------------|
| <b>FLO</b> | Air flow/ sound block       | <b>ZAG</b> | Ligature resistant gasketing | <b>SEC</b> | Security screws |
| <b>PSA</b> | Pressure-sensitive adhesive | <b>S</b>   | Order as a set               |            |                 |

## Airflow/sound block (FLO)

Available as an option for mortised door shoe models #381 and #3546. The FLO configuration is a practical solution for applications requiring air flow while blocking light and sound as much as possible. The design uses sound-damping neoprene or EPDM seals which are notched and overlapped in staggered rows. This feature is commonly used for hotel doorways designed to exchange or amplify air conditioning between guest rooms and hallways.



**381A-FLO**  
FLO option: Neoprene seals are notched and overlapped to facilitate air flow.

## Pressure-sensitive adhesive (PSA)

PSA is available as an option for door sweep and meeting stile models, which are provided standard with screws: #8192, #8193, #8194 Perimeter seals that are supplied with PSA standard are designated by model numbers showing "-PSA."

## Ligature resistant gasketing (ZAG)

This patented ligature-resistant option prevents unintended usage of the gasketing, including harming oneself or others. When ZAG is specified, the rubber is scored before insertion into the aluminum extrusion. This allows for normal function for its specified purpose, but the seal will now break apart if removal is attempted or any weight is placed on the seal.

## Order as a set (S)

Head & jamb gasketing and adjustable sealing systems can be ordered either as "straight-stick" components (order by length) or as a set of three components – two side jambs and a head jamb (order by size of door opening = Width" x Height"). Other perimeter seals are ordered only as "straight-stick."

## Security screws (SEC)

Tamper-resistant Torx security screws. Prevents unauthorized removal in hospitals, schools and public places.



**328AA-ZAG**

**485N-ZAG**



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Perimeter seals

# Accessories & options

## Fasteners

Perimeter seals are supplied with the appropriate screws and quantities needed for installation based on order length. Use the part numbers below for ordering additional screws.

### Standard screw packs - head and jamb

| Applicable perimeter seal models                                                                                                                                                                                                                                                                                                                                                                                                                                                | Part #   | Description                | Finish       | Package contents                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------|
| 170, 770, 7770, 770SP, 770STST                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47254760 | Head & Jamb                | AA           | 19 Screws #8x1-1/2" FPHSMS, ZP                                                                           |
| 170D, 770D, 7770D                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 47254761 | Head & Jamb                | D, BK        | 19 Screws #8x1-1/2" FPHSMS, black ZP                                                                     |
| 170G, 770G, 7770G                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 47254762 | Head & Jamb                | G            | 19 Screws #8x1-1/2" FPHSMS, brass plate                                                                  |
| 11, 31, 32, 33, 39, 39W, 44STST, 47, 50, 50MA, 52, 53, 55, 55FS, 72, 95, 96, 98, 99, 100, 110, 111, 111FS, 139, 140, 141, 142, 153, 154, 155, 253, 253FS, 254, 255, 270, 272, 302FS, 312, 314, 318, 322, 326, 328, 328FS, 329, 339, 339W, 339FS, 376, 381, 452, 470, 472, 475, 477, 478, 485, 511, 539, 555, 555FS, 570, 639W, 712, 870, 871, 873, 905, 1370, 3544, 3546, 3709, 8049R, 8149, 8151, 8191, 8192, 8193, 8194, 8195, 8197, 8198, 8302, 8303, 8305, 8877, 8878, 8879 | 47254768 | Head & Jamb                | AA, A        | 6 Screws #6x1 PPHSDS                                                                                     |
| 11, 31, 32, 33, 39, 39W, 47, 50, 50MA, 51-90, 51-180, 55, 55FS, 95, 96, 98, 99, 100, 110, 111, 111FS, 139, 140, 141, 142, 153, 154, 155, 255, 270, 272, 302FS, 312, 314, 318, 322, 326, 328, 328FS, 329, 339, 339W, 339FS, 470, 472, 485, 511, 539, 555, 555FS, 570, 639W, 712, 870, 871, 873, 905, 951, 971-BIO, 972-BIO, 973-BIO, 974-BIO, 1370, 3709, 8191, 8192, 8193, 8194, 8195, 8197, 8198, 8302, 8303, 8305, 8877, 8878, 8879                                           | 47254769 | Head & Jamb, Finger Guards | D, BK        | 6 Screws #6x1 PPHSDS, black ZP                                                                           |
| 11, 31, 32, 33, 39, 39W, 47, 50, 50MA, 51-90, 51-180, 55, 55FS, 95, 96, 98, 99, 100, 110, 111, 111FS, 139, 140, 141, 142, 153, 154, 155, 255, 270, 272, 302FS, 312, 314, 318, 322, 326, 328, 328FS, 329, 339, 339W, 339FS, 470, 472, 485, 511, 539, 555, 555FS, 570, 639W, 712, 870, 871, 873, 905, 951, 971-BIO, 972-BIO, 973-BIO, 974-BIO, 1370, 3709, 8191, 8192, 8193, 8194, 8195, 8197, 8198, 8302, 8303, 8305, 8877, 8878, 8879                                           | 47254770 | Head & Jamb, Finger Guards | G, B         | 6 Screws #6x1 PPHSDS, brass plate                                                                        |
| 41, 1840                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47254801 | Head & Jamb                | AA, D, BK    | 10 Screws #6x3/4" FPHSMS, 10 screws #6x3/4" FPHSMS Dark Bronze finish, and 10 Screws #6x3/4" gold finish |
| 429                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 47254804 | Head & Jamb                | AA           | 10 Screws #10x3/4" PPHSDS                                                                                |
| 43SP, 43STST                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47254805 | Head & Jamb                | All finishes | 11 1/4-20X1 FPHMS, 11 1/4-20 sex bolts 1" long, and 4 #10 x 3/4" PPHSDS                                  |
| 521FS                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 47254806 | Head & Jamb                | All finishes | 6 - #10 x 1 1/2 FPHSMS CLR ZP Flanged, #10 C-sink washer                                                 |
| 383, 383FS                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 47254807 | Meeting Stile              | AA, D, BK    | 10 - #8 x 3/4" FPHSMS and 10 #8 x 3/4" FPHSMS black ZP                                                   |
| 383, 383FS                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 47261363 | Head & Jamb                | G            | 10 - #8 x 3/4" FPHSMS, brass plate                                                                       |
| 51-90, 51-120, 51-180, 951, 971-BIO, 972-BIO, 974-BIO, 973-BIO                                                                                                                                                                                                                                                                                                                                                                                                                  | 47254808 | Finger Guard               | A or AA      | 14 - #6x3/4" PPHSMS                                                                                      |
| 56, 156, 557                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47257629 | Head & Jamb                | All finishes | 20 - 8-32x5/8 OPHMS steel ZP adjustment screws                                                           |

### Security screws

Finish for D, BK and G Torx screws are available upon request.

| Applicable perimeter seal models                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Part Number | Description | Finish          | Package contents                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------|--------------------------------------------|
| 11, 31, 32, 33, 39, 44, 47, 50, 52, 53, 55, 72, 95, 96, 98, 99, 100, 110, 111, 139, 140, 141, 142, 153, 154, 155, 254, 255, 270, 272, 312, 314, 318, 322, 326, 328, 329, 339, 376, 381, 429, 452, 470, 472, 475, 477, 478, 485, 539, 555, 570, 712, 870, 871, 873, 905, 1370, 3709, 8049, 8149, 8151, 8191, 8192, 8193, 8194, 8195, 8197, 8198, 8302, 8303, 8305, 8306, 8877, 8878, 8879, 111FS, 302FS, 328FS, 339FS, 339W, 39W, 50M, 555FS, 55FS, 639W, 973BIO, 511, 51, 951, 971BIO, 972BIO, 974BIO | 47259852    | HNJ and FG  | A or AA         | 12 - #6X1 Button SEC TORX SMS, clear ZP    |
| 170, 770, 770FS, 7770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 47259939    | ADJ         | AA, SP, or STST | 19 - #8X1-1/2" Flat SEC TORX SMS, clear ZP |
| 383, 383FS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 47259975    | STILES      | AA              | 10 - #8X3/4" Flat SEC TORX SMS, clear ZP   |

See Perimeter seals Accessories & options page for details.

#### Finishes:

- A** Aluminum mill finish
- AA** Aluminum clear anodized
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed aged bronze

#### Options:

- FLO** Air flow/ sound block
- PSA** Pressure-sensitive adhesive
- ZAG** Ligature resistant gasketing
- S** Order as a set
- SEC** Security screws

#### Note:

## Perimeter seals

## Accessories &amp; options

**Security thru sex bolt**

Offered for models #43 SP and #43STST, this assembly consists of:

- 1/4-20 X .75" (25.4) FPHSMS
- 1/4-20 X 1.50" (25.4) sex bolt

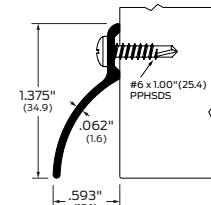
It may be used with doors up to 1 3/4" thick.

**Replacement rubber seals**

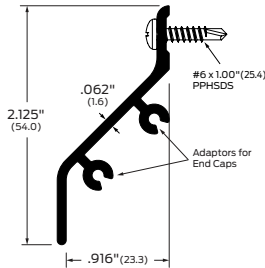
Replacement seals are available for perimeter seal models containing rubber components. See appendix for replacement rubber seals. If viewing an interim version of the catalog, please contact Tech Support for replacement rubber information.

**Specialized perimeter seal accessories**

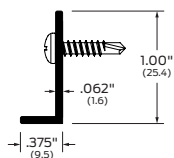
Specialty exterior protection – Rain drips water shed for outswing doors.

**11 Rain drip**

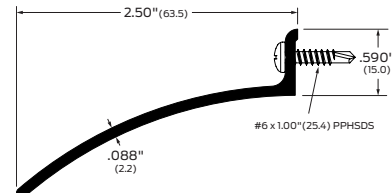
**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 11AA, 11BK, 11D, 11G R3Y936

**141 Rain drip**

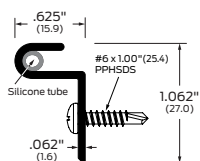
**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 141AA, 141BK, 141D, 141G R3Y936

**25 Interlocking angle**

**Finishes:** AA, BK, D, G  
**Options:** SEC  
This accessory can be used interlocking with rain seal model #144 to impede water ingress through perimeter seals on out-swinging doors.

**142 Rain drip**

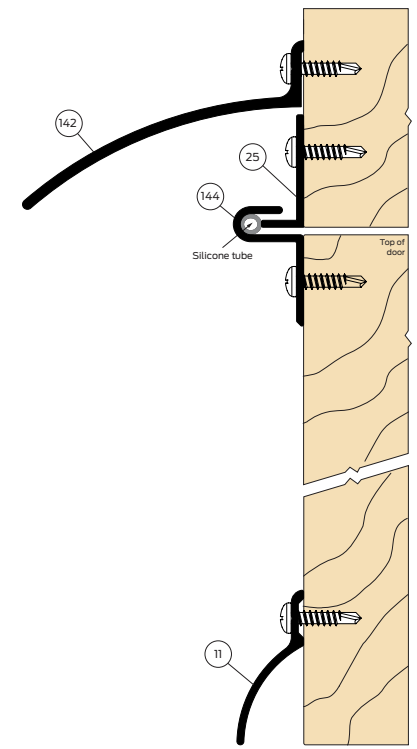
**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 142AA, 142BK, 142D, 142G R3Y976

**144**

**Finishes:** AA, BK, D, G  
**Options:** SEC

**Application**

Order components separately.



See Perimeter seals Accessories & options page for details.

**Finishes:**

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

**Options:**

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

**Note:**

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# Perimeter seals order guide

**Perimeter seals:** head and jamb, meeting stiles (astragals), sweeps, and finger guards

|                                                                                                               | Model | Finish | Set/<br>options | Length/<br>width | Height | Metric |
|---------------------------------------------------------------------------------------------------------------|-------|--------|-----------------|------------------|--------|--------|
|                                                                                                               | 870   | AA     | S               | 36               | 84     |        |
| <b>Models</b>                                                                                                 |       |        |                 |                  |        |        |
| Example                                                                                                       |       |        |                 |                  |        |        |
| 39 Sweep                                                                                                      |       |        |                 |                  |        |        |
| 140 Head & jamb, astragal-meeting stile                                                                       |       |        |                 |                  |        |        |
| 328* Head & jamb, astragal-meeting stile, sweep                                                               |       |        |                 |                  |        |        |
| 429 Head & jamb                                                                                               |       |        |                 |                  |        |        |
| 511 Door shoe                                                                                                 |       |        |                 |                  |        |        |
| 8198 Sweep                                                                                                    |       |        |                 |                  |        |        |
| <b>Finishes</b>                                                                                               |       |        |                 |                  |        |        |
| A - Aluminum mill finish                                                                                      |       |        |                 |                  |        |        |
| AA - Aluminum clear anodized                                                                                  |       |        |                 |                  |        |        |
| BK - Black anodized                                                                                           |       |        |                 |                  |        |        |
| D - Aluminum dark bronze anodized                                                                             |       |        |                 |                  |        |        |
| G - Aluminum gold anodized                                                                                    |       |        |                 |                  |        |        |
| B - Bronze mill finish                                                                                        |       |        |                 |                  |        |        |
| B-ORB - (US10B/613) Oil rubbed, aged bronze                                                                   |       |        |                 |                  |        |        |
| *See specific product page for available finishes                                                             |       |        |                 |                  |        |        |
| <b>Options</b>                                                                                                |       |        |                 |                  |        |        |
| Blank - Straight stick length only, sweeps and astragals always stick                                         |       |        |                 |                  |        |        |
| S - Door set, width always given first, only available for "Head & Jamb"                                      |       |        |                 |                  |        |        |
| FLO - High air flow configuration available on models: 381, 3546                                              |       |        |                 |                  |        |        |
| PSA - Pressure sensitive adhesive                                                                             |       |        |                 |                  |        |        |
| ZAG - Ligature resistant gasketing                                                                            |       |        |                 |                  |        |        |
| *See specific product page for available options                                                              |       |        |                 |                  |        |        |
| <b>Length/Width</b>                                                                                           |       |        |                 |                  |        |        |
| Length - for straight stick items use first measure only, use decimal to nearest 1/8"                         |       |        |                 |                  |        |        |
| Width - for use with Sets, "S", use decimal to nearest 1/8"                                                   |       |        |                 |                  |        |        |
| <b>Height</b>                                                                                                 |       |        |                 |                  |        |        |
| Height - for use with sets, use decimal to nearest 1/8" always measure following "x" when "S" set is denoted. |       |        |                 |                  |        |        |
| <b>Metric</b>                                                                                                 |       |        |                 |                  |        |        |
| Blank = US standard                                                                                           |       |        |                 |                  |        |        |
| MM = Metric in millimeters (rounded to the nearest 1/8")                                                      |       |        |                 |                  |        |        |

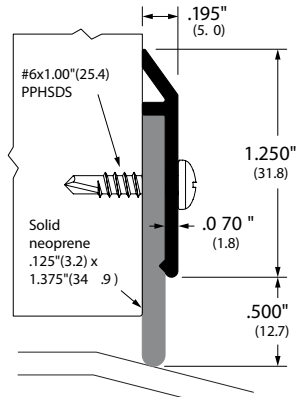


## Perimeter seals

## Door sweeps



39

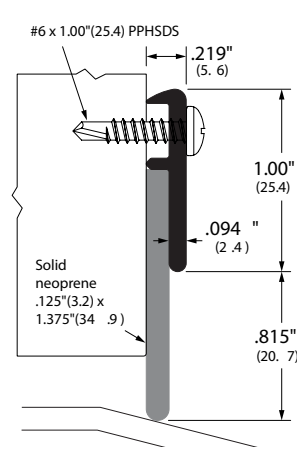


Finishes: A, BK, D, G  
Options: SEC  
ANSI/BHMA: 39A, 39BK, 39D, 39G



R3B434

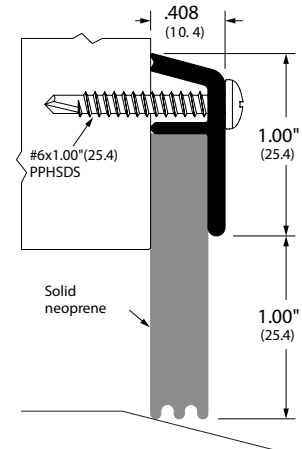
339



Finishes: AA, BK, D, G, B, B-ORB  
Options: SEC  
ANSI/BHMA: 339AA, 339BK, 339D, 339G, 339B

R3B434  
R1B434

539

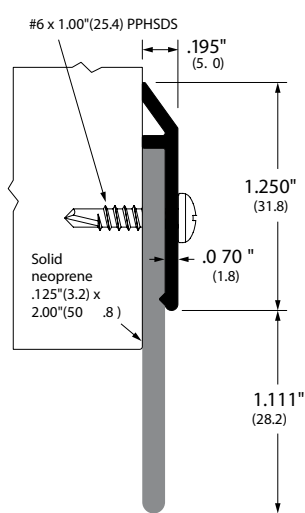


Finishes: AA, BK, D, G  
Options: SEC  
ANSI/BHMA: 539AA, 539BK, 539D, 539G



R3B434

39W

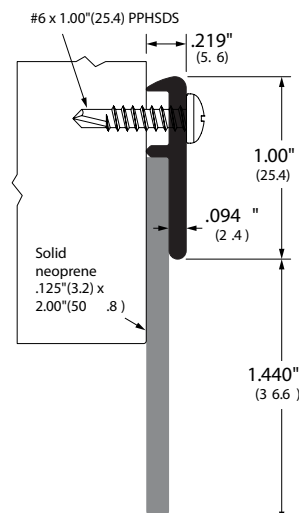


Finishes: A, BK, D, G  
Options: SEC  
ANSI/BHMA: 39WA, 39WBK, 39WD, 39WG



R3B434

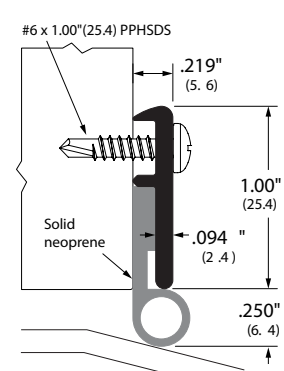
339W



Finishes: AA, BK, D, G, B, B-ORB  
Options: SEC  
ANSI/BHMA: 339WAA, 339WBK, 339WD, 339WG, 339WB

R3B434  
R1B434

328



Finishes: AA, BK, D, G, B, B-ORB  
Options: ZAG, S, SEC  
ANSI/BHMA: 328AA, 328BK, 328D, 328G, 328B

R3B434  
R1B434

See Perimeter seals Accessories &amp; options page for details.

## Finishes:

A Aluminum mill finish  
AA Aluminum clear anodized  
BK Aluminum black anodized  
D Aluminum dark bronze anodized  
G Aluminum gold anodized  
B Bronze, architectural mill finish  
B-ORB Oil-rubbed aged bronze

## Options:

FLO Air flow/ sound block  
PSA Pressure-sensitive adhesive  
ZAG Ligature resistant gasketing  
S Order as a set  
SEC Security screws

Note:



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# Door sweeps

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

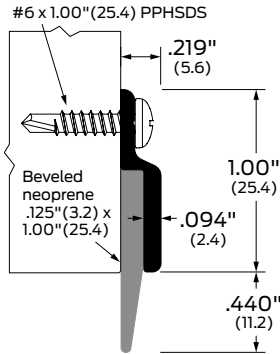
Intumescent

Sound control

Specialty  
applications

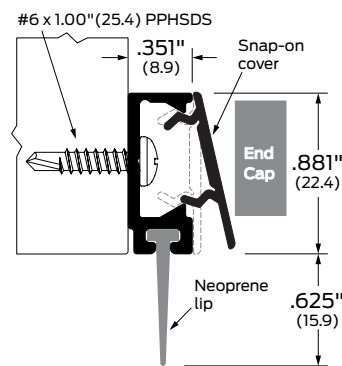
Appendix

## 50M



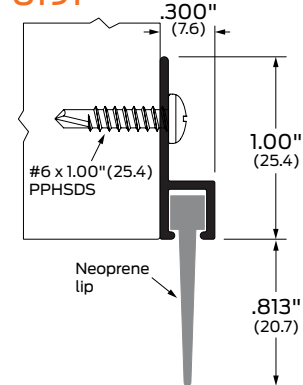
**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 50MA, 50MAA, 50MBK, 50MD, 50MG  
R3B434  
**BHMA** CERTIFIED

## 477



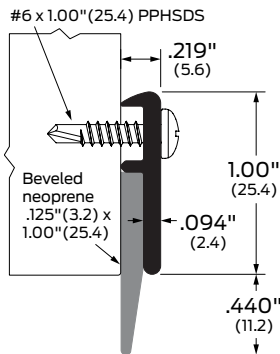
**Finishes:** AA, BK, D, G  
**Options:** SEC, End Cap  
**ANSI/BHMA:** 477AA, 477BK, 477D, 477G  
R3B434  
**BHMA** CERTIFIED  
Specify End Cap option for a clean look on edges.

## 8191



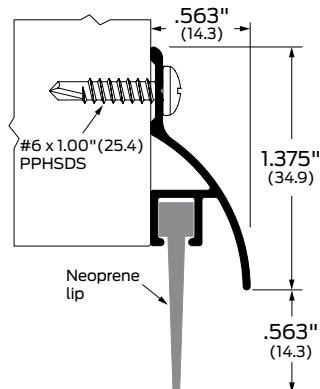
**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 8191AA, 8191BK, 8191D, 8191G  
R3B434  
**BHMA** CERTIFIED

## 329



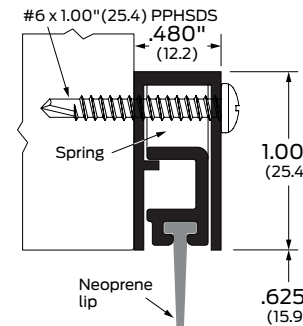
**Finishes:** AA, BK, D, G, B, B-ORB  
**Options:** SEC  
**ANSI/BHMA:** 329AA, 329BK, 329D, 329G, 329B  
R3B434  
**BHMA** CERTIFIED

## 8197



**Finishes:** AA, BK, D, G  
**Options:** SEC  
**ANSI/BHMA:** 8197AA, 8197BK, 8197D, 8197G  
R3B536  
**BHMA** CERTIFIED

## 571



**Finishes:** AA, BK, D, G  
**Options:** SEC  
**BHMA** CERTIFIED

See Perimeter seals Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

### Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

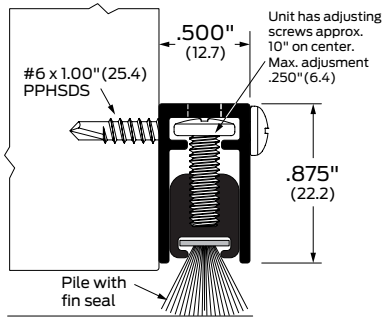
### Note:

## Perimeter seals

## Door sweeps

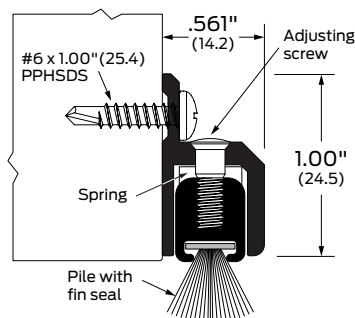


871



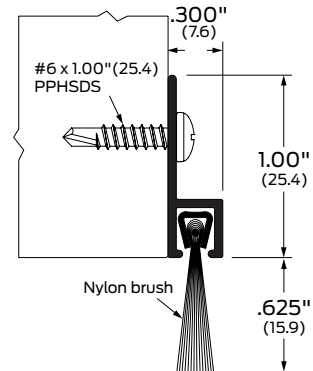
Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 871AA, 871BK, 871D, 871G R3F434  
**BHMA**  
 Adjustable

255



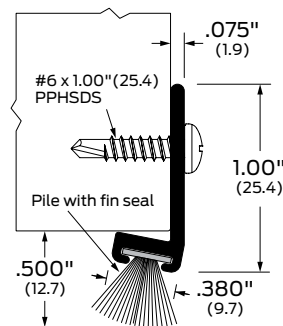
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 255AA, 255BK, 255D, 255G R3F434  
**BHMA**  
 Adjustable

8192



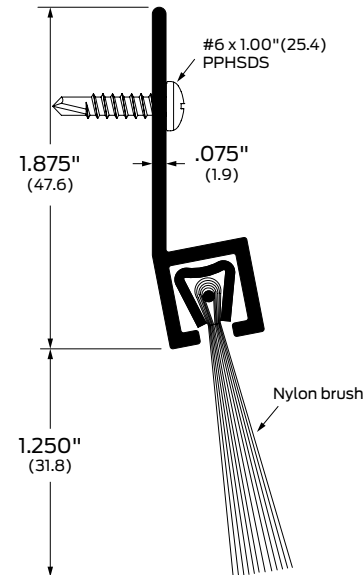
Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8192AA, 8192BK, 8192D, 8192G R3A436  
**BHMA**

98



Finishes: A, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 98A, 98BK, 98D, 98G R3F436  
**BHMA**

96



Finishes: A, BK, D, G Options: SEC ANSI/BHMA: 96A, 96BK, 96D, 96G R3A436  
**BHMA**

Suitable for mixed-use commercial, hospitality, multi-family, as well as sliding barn doors.

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:



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Perimeter seals

# Door sweeps

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

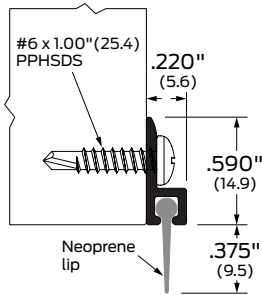
Intumescent

Sound control

Specialty  
applications

Appendix

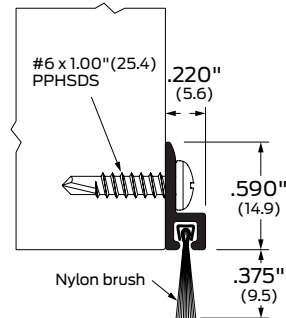
8194



Finishes: Options: ANSI/BHMA:  
AA, BK, PSA, 8194AA, 8194BK, 8194D, 8194G R3B434  
D, G SEC



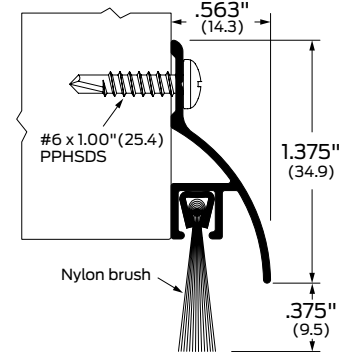
8193



Finishes: Options: ANSI/BHMA:  
AA, BK, PSA, S, 8193AA, 8193BK, 8193D, 8193G R3A436  
D, G SEC



8198

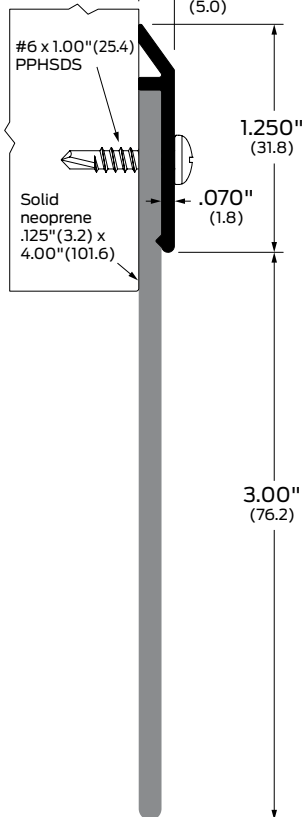


Finishes: Options: ANSI/BHMA:  
AA, BK, SEC 8198AA, 8198BK, 8198D, 8199G R3A536  
D, G



Surface-mounted with rain drip.

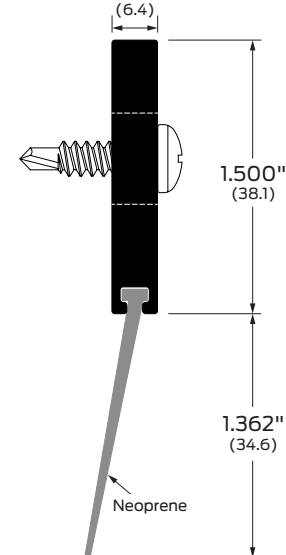
639W



Finishes: Options: ANSI/BHMA:  
A, BK, SEC 639WAA, 639WBK, 639WD, 639WG R3B434  
D, G

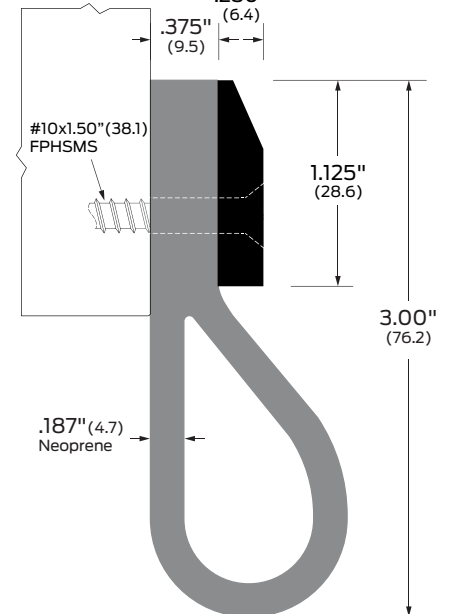


95



Finishes: Options:  
AA, BK, SEC  
D, G  
Suitable for heavy-duty overhead door

93



Finishes:  
A, BK,  
D, G  
Door sweep for industrial applications. 3/16" thick oil-resistant neoprene extrusion (Class II, Grade 60)

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

## Perimeter seals

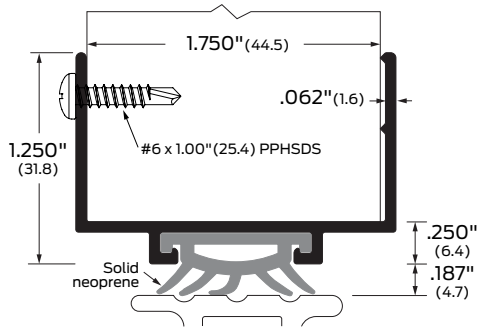
## Door shoes



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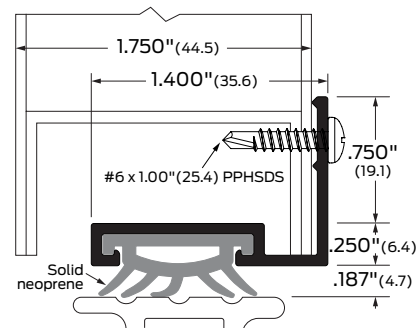


111



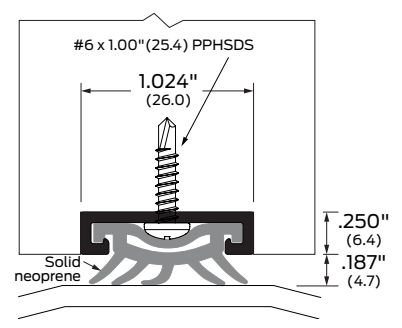
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 111AA, 111BK, 111D, 111G R3B414  
**BHMA**  
CERTIFIED

153



Finishes: A, BK, D, G Options: SEC ANSI/BHMA: 153A, 153BK, 153D, 153G R3B414  
**BHMA**  
CERTIFIED

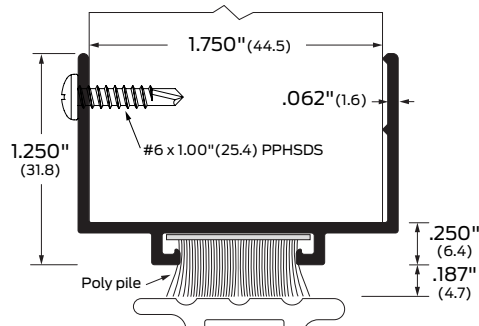
253



Finishes: A Options: SEC ANSI/BHMA: 253A R3B424  
**BHMA**  
CERTIFIED

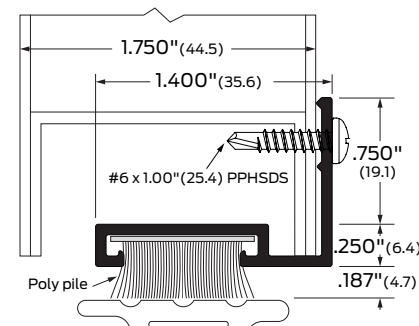
Supplied unassembled for ease of installation.

110



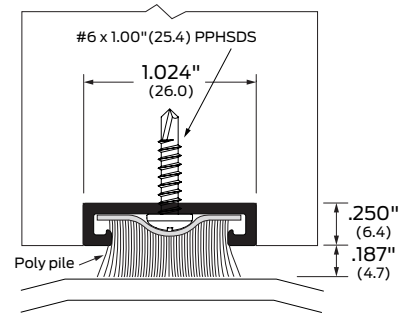
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 110AA, 110BK, 110D, 110G R3F416  
**BHMA**  
CERTIFIED

154



Finishes: A, BK, D, G Options: SEC ANSI/BHMA: 154A, 154BK, 154D, 154G R3F416  
**BHMA**  
CERTIFIED

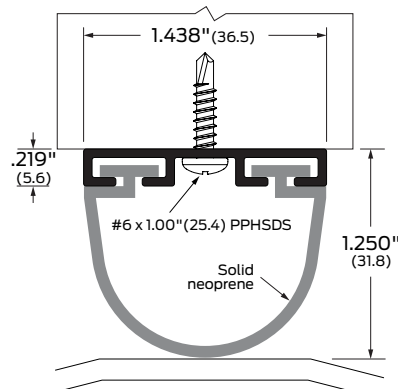
254



Finishes: A Options: SEC ANSI/BHMA: 254A R3F426  
**BHMA**  
CERTIFIED

Supplied unassembled for ease of installation.

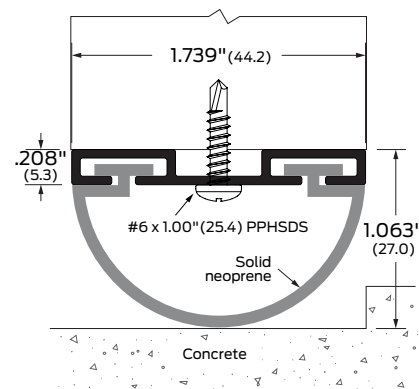
452



Finishes: A Options: SEC ANSI/BHMA: 452A R3B414  
**BHMA**  
CERTIFIED

For overhead doors. Supplied unassembled for ease of installation.

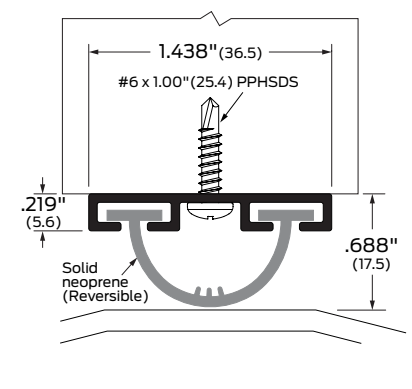
72



Finishes: A Options: SEC ANSI/BHMA: 72A R3B414  
**BHMA**  
CERTIFIED

For overhead doors. Supplied unassembled for ease of installation.

52



Finishes: A Options: SEC ANSI/BHMA: 52A R3B414  
**BHMA**  
CERTIFIED

Supplied unassembled for ease of installation.

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:



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Perimeter seals

# Door shoes

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

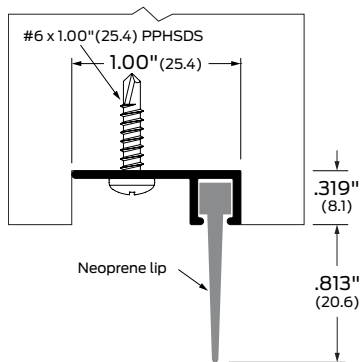
Intumescent

Sound control

Specialty  
applications

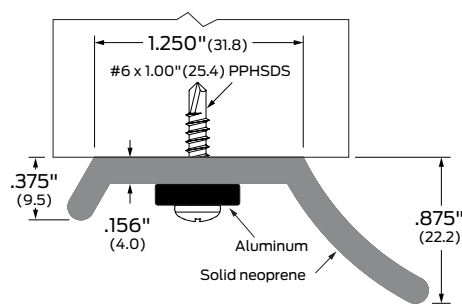
Appendix

8151



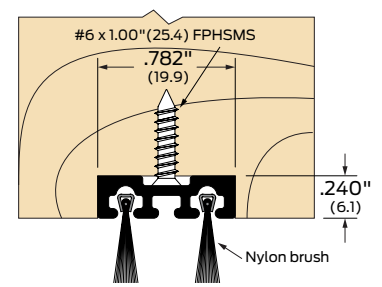
Finishes: AA Options: SEC

8049R



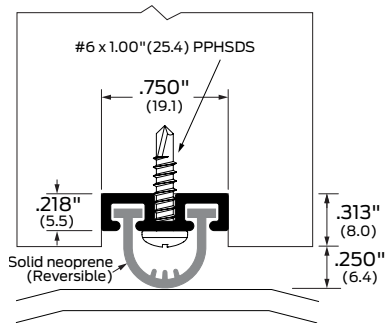
Finishes: A Options: SEC

3544



Finishes: A Options: SEC

53

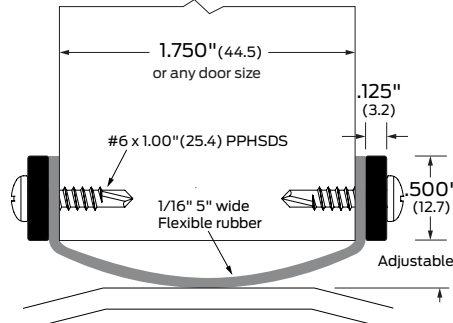


Finishes: A Options: SEC ANSI/BHMA: 53A, 53BK, 53D, 53G R3B424



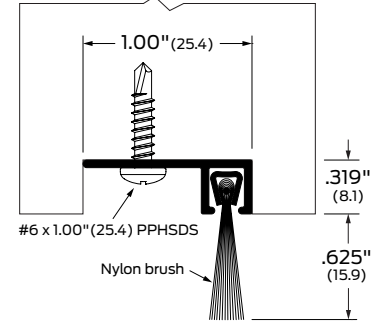
Supplied unassembled for ease of installation.

511



Finishes: A, BK, D, G Options: SEC

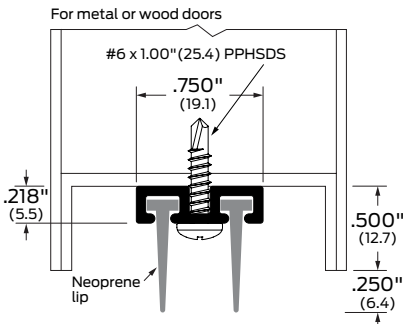
8149



Finishes: AA Options: SEC ANSI/BHMA: 8149AA R3A426



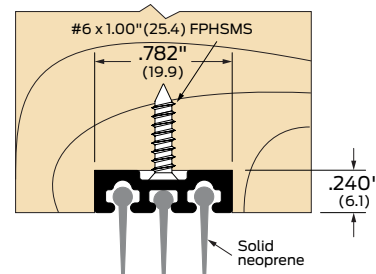
381



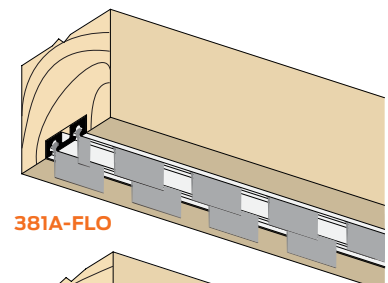
Finishes: A Options: FLO, SEC ANSI/BHMA: 381A R3B424



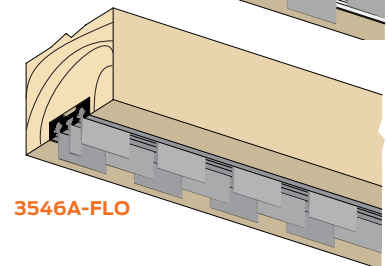
3546



Finishes: A Options: FLO, SEC Mortised. Supplied unassembled for ease of installation.



381A-FLO



3546A-FLO

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

## Perimeter seals

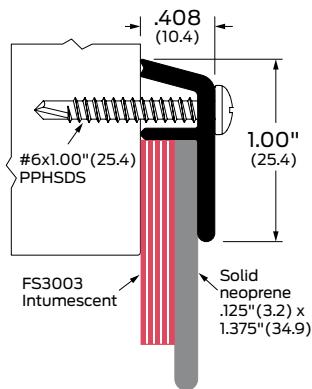
## Intumescent door sweeps &amp; shoes



## Gap solutions- restore lost fire rating

Maximum 0.75" (12.7mm) clearances allowed at the bottom of fire-rated doors do not leave much room for error. Fire ratings lost when installation or alignment problems cause larger clearances can be restored using these intumescent solutions, without the costs of structural changes or door replacement.

## 339FS



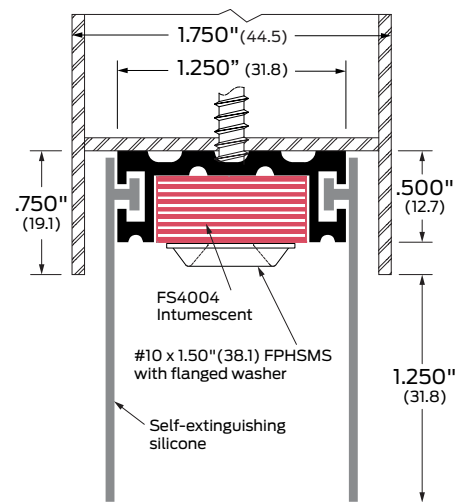
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 339FS-AA, 339FS-BK, 339FS-D, 339FS-G R3R434

Intumescent door sweep. Restore for fire rating on 20 minute fire-rated swinging flush wood door. For use on doors with maximum undercut of 1.250". ITS-listed to positive pressure UL10C.

## 39FSA



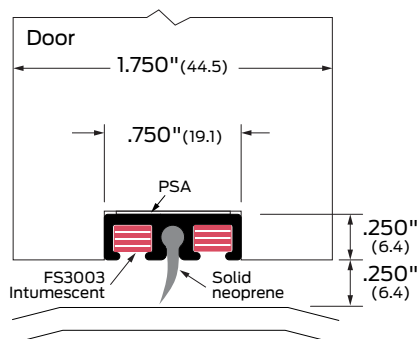
## 521FS



Finishes: AA Options: SEC

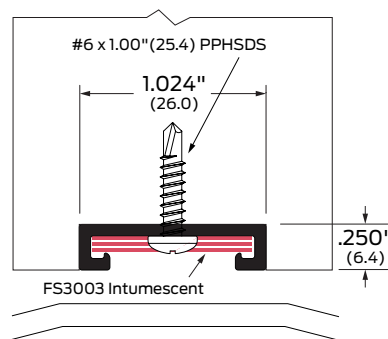
Intumescent door shoe, mortised. Supplied unassembled for ease of installation.

## 59FS



Finishes: A ANSI/BHMA: 59FS-A R3R424

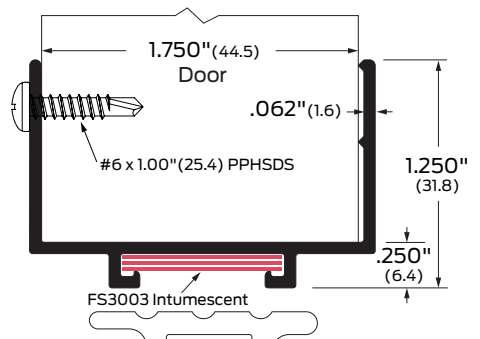
## 253FS



Finishes: A ANSI/BHMA: 253FS-A R3P424

Supplied unassembled for ease of installation.

## 111FS



Finishes: AA, BK, D, G Options: SEC

See Perimeter seals Accessories & options page for details.

## Finishes:

A Aluminum mill finish  
AA Aluminum clear anodized  
BK Aluminum black anodized  
D Aluminum dark bronze anodized  
G Aluminum gold anodized  
B Bronze, architectural mill finish  
B-ORB Oil-rubbed aged bronze

## Options:

FLO Air flow/ sound block  
PSA Pressure-sensitive adhesive  
ZAG Ligature resistant gasketing  
S Order as a set  
SEC Security screws

## Note:

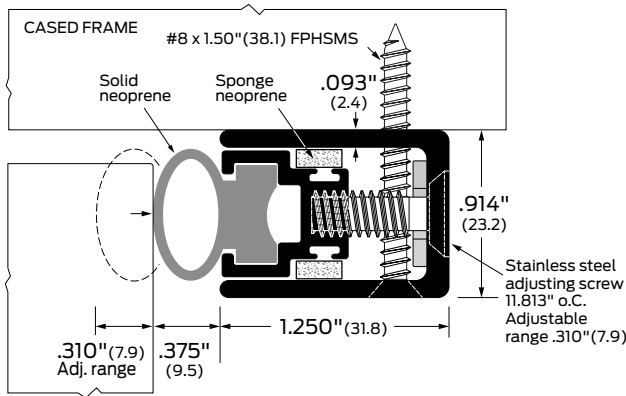


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## Adjustable sealing systems – jamb-applied

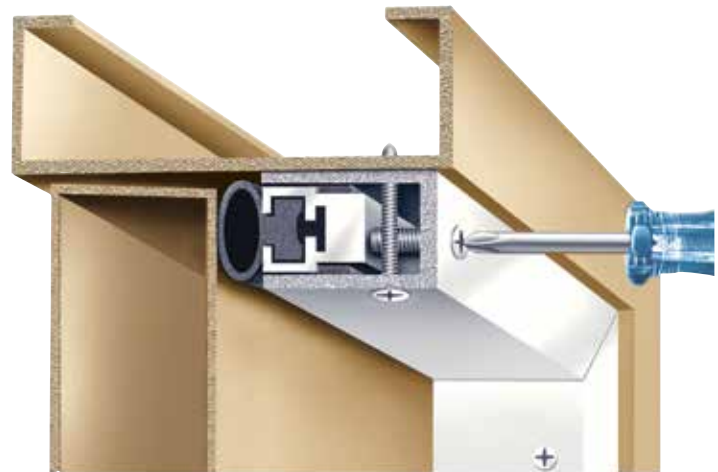
## 770



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 770AA, 770BK, 770D, 770G R3B254

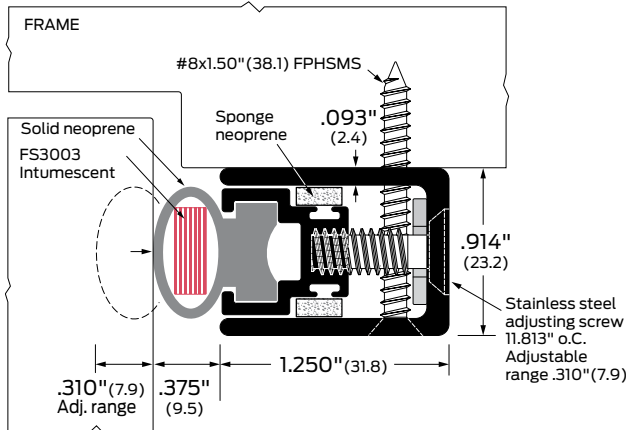


This model is supplied with mitered corners. 20 min as a stop. 180 min when applied to stop.



770 used on cased opening frame with mitered corners, used as a stop.

## 770FS

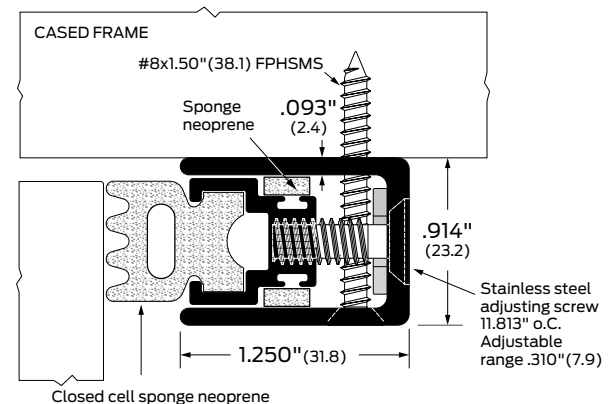


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 770FS-AA, 770FS-BK, 770FS-D, 770FS-G R3R264



This model is supplied with mitered corners. 180 min. fire rating for metal doors when applied on a certified steel frame with no cased opening.

## 170



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 170AA, 170BK, 170D, 170G R3C254



This model is supplied with mitered corners. 20 minutes as a stop. 180 min when applied to stop.



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See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

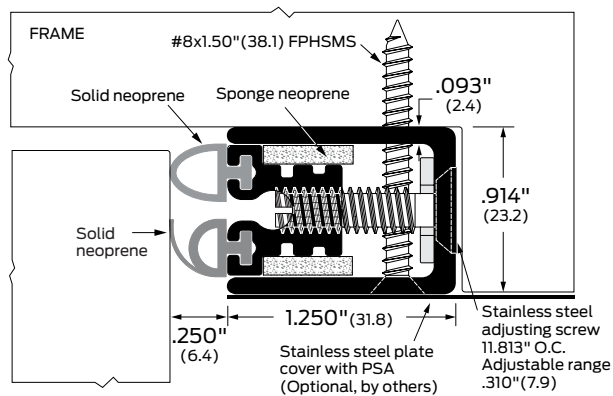
Verify frame manufacturer is approved to use applied stop.

## Perimeter seals

## Adjustable sealing systems – jamb-applied



## 7770

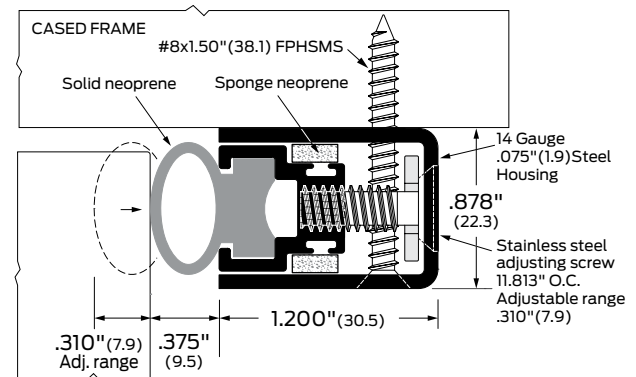


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 7770AA, 7770BK, 7770D, 7770G R3B264



This model is supplied with mitered corners. Extruded Bulb/Finger for double-sealing protection. 20 minute as a stop, 180 min when applied to a stop.

## 770SP / 770STST



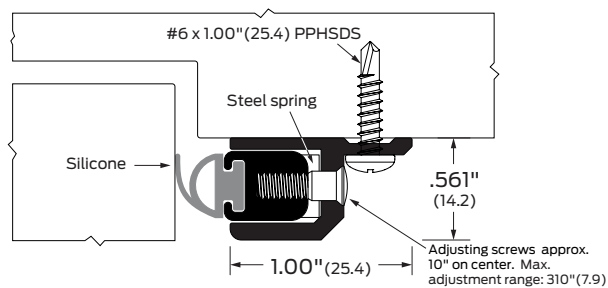
Options: S, SEC ANSI/BHMA: 770STST R0B264



This model is supplied with mitered corners. 90 min. fire rating for certified wood and metal doors and frames when applied as a stop.

Positive Pressure Listed as a stop for 16 gauge steel cased opening up to 90 minutes on single and pair doors. 180 minutes when applied to a stop.

## 712

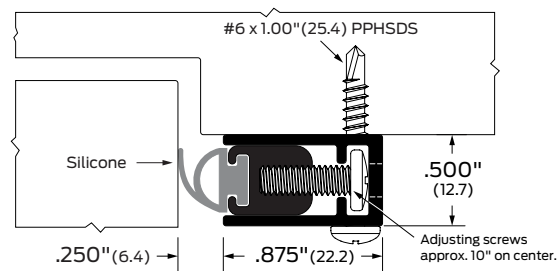


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 712AA, 712BK, 712D, 712G R3E264



Adjustable and spring loaded. Extruded Bulb/Finger for double-sealing protection.

## 870

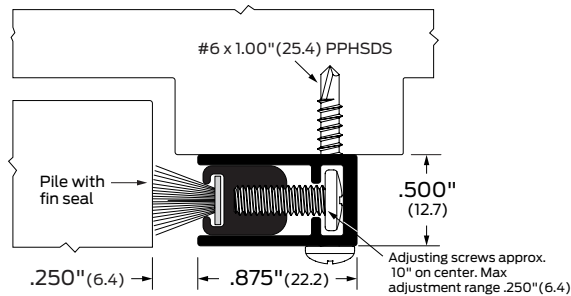


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 870AA, 870BK, 870D, 870G R3E254



Extruded Bulb/Finger for double-sealing protection.

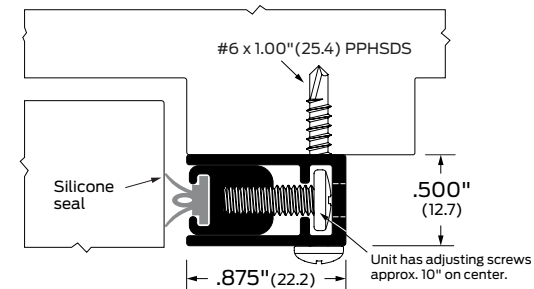
## 871



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 871AA, 871BK, 871D, 871G R3F265



## 873



Finishes: AA, BK, D, G Options: SEC



See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

Finishes: SP = Steel Primed, STST=Stainless Steel.

Verify frame manufacturer is approved to use applied stop.

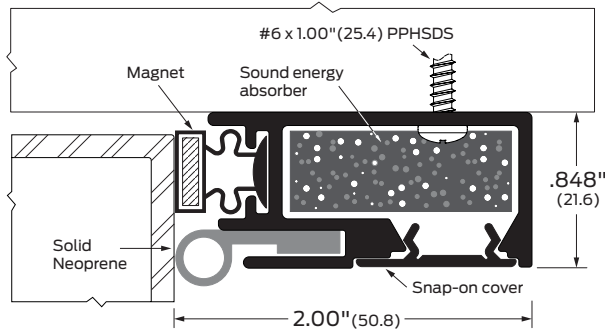


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## Head and jamb gasketing

## 3708

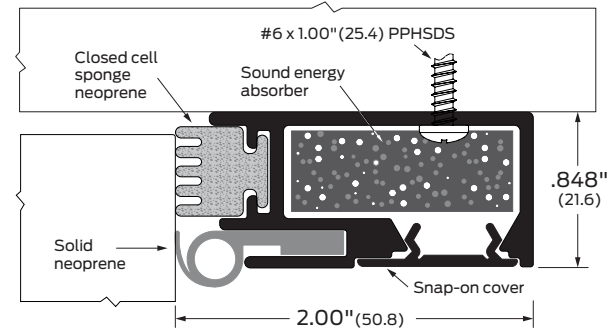


Finishes: ANSI/BHMA:  
AA, BK, 3708AA R3L154  
D, G



Magnetic head & jamb gasketing. For use with metal interior doors only. Available to order as engineering special.

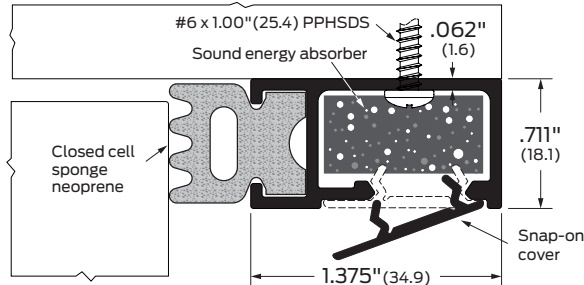
## 3709



Finishes: Options:  
AA, BK, S, SEC  
D, G

Extruded Bulb/Finger for double-sealing protection.

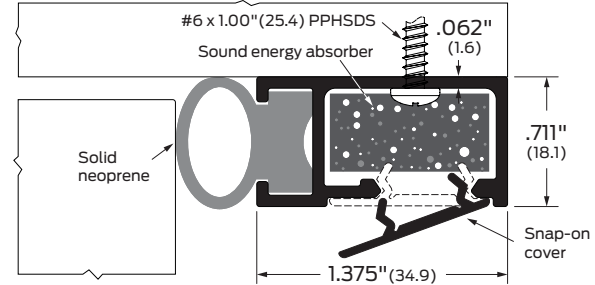
## 470



Finishes: Options: ANSI/BHMA:  
AA, BK, 470AA, 470BK, 470D, 470G R3C154  
D, G



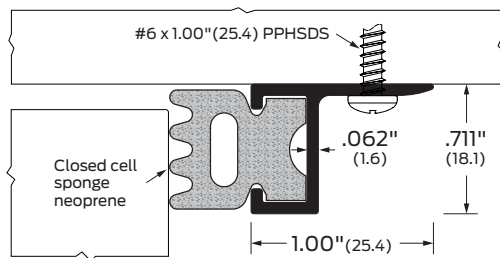
## 472



Finishes: Options: ANSI/BHMA:  
AA, BK, 472AA, 472BK, 472D, 472G R3B154  
D, G



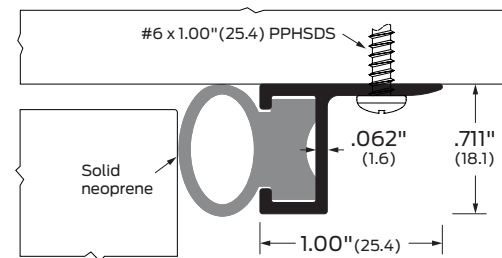
## 270



Finishes: Options: ANSI/BHMA:  
A, BK, 270A, 270BK, 270D, 270G R3C154  
D, G



## 272



Finishes: Options: ANSI/BHMA:  
A, BK, 272A, 272BK, 272D, 272G R3B154  
D, G



See Perimeter seals Accessories & options page for details.

## Finishes:

- A Aluminum mill finish
- AA Aluminum clear anodized
- BK Aluminum black anodized
- D Aluminum dark bronze anodized
- G Aluminum gold anodized
- B Bronze, architectural mill finish
- B-ORB Oil-rubbed aged bronze

## Options:

- FLO Air flow/ sound block
- PSA Pressure-sensitive adhesive
- ZAG Ligature resistant gasketing
- S Order as a set
- SEC Security screws

## Note:



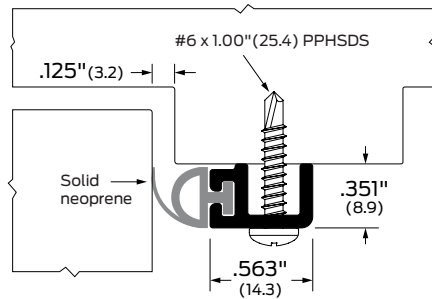
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## Perimeter seals

## Head and jamb gasketing



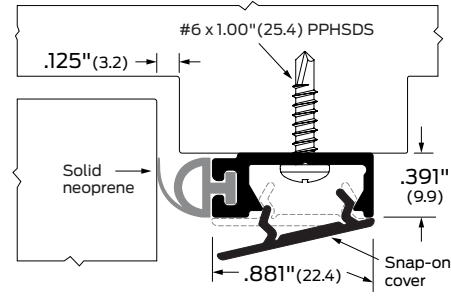
## 485



Finishes: AA, BK, D, G Options: ZAG, S, SEC ANSI/BHMA: 485AA, 485BK, 485D, 485G R3B164

ZAG option for mental health applications includes security screws. Extruded Bulb/Finger for double-sealing protection.

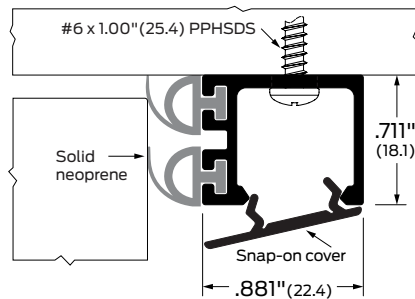
## 475



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 475AA, 475BK, 475D, 475G R3B164

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

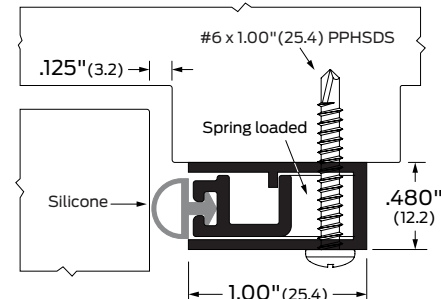
## 478



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 478AA, 478BK, 478D, 478G R3B154

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

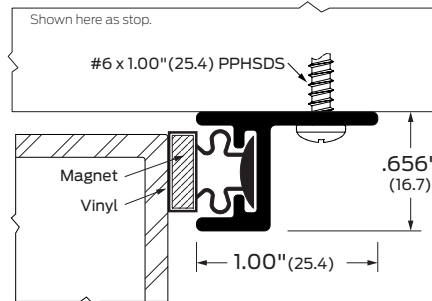
## 570



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 570AA, 570BK, 570D, 570G R3E264

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

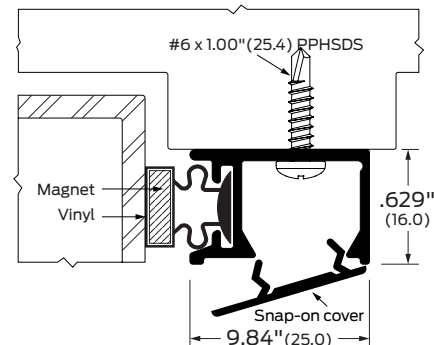
## 370



Finishes: A, BK, D, G ANSI/BHMA: 370A, 370BK, 370D, 370G R3L155

Magnetic head & jamb gasketing. For use with interior metal doors only. Available to order as engineering special.

## 375



Finishes: A, BK, D, G ANSI/BHMA: 375A, 375BK, 375D, 375G R3L155

Magnetic Head & Jamb Gasketing. For use with interior metal doors only. Available to order as engineering special.

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:



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Perimeter seals

# Head and jamb gasketing

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

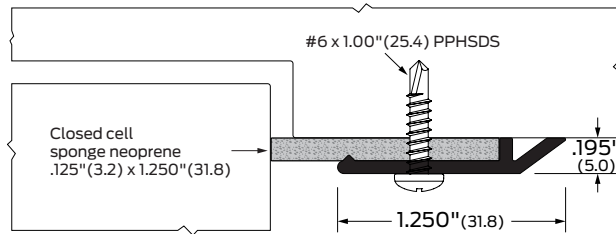
Intumescent

Sound control

Specialty  
applications

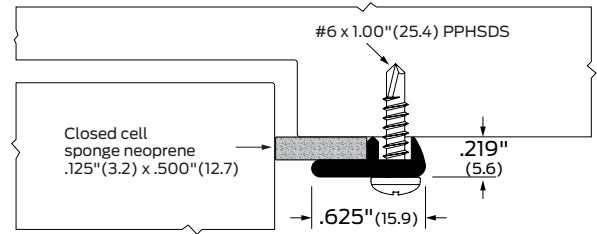
Appendix

139



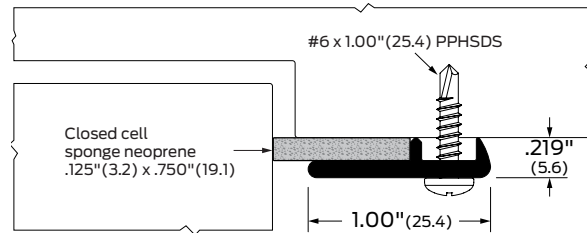
**Finishes:** A, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 139A, 139BK, 139D, 139G  
R3C164  
**BHMA**  
CERTIFIED

312



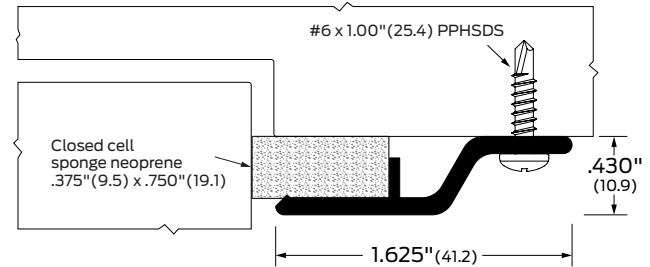
**Finishes:** A, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 312A, 312BK, 312D, 312G  
R3C164  
**BHMA**  
CERTIFIED

314



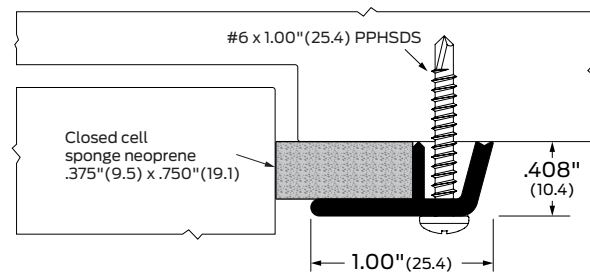
**Finishes:** AA, BK, D, G, B, B-ORB  
**Options:** S, SEC  
**ANSI/BHMA:** 314AA, 314BK, 314D, 314G  
314B  
R3C164  
R1C164  
**BHMA**  
CERTIFIED

140



**Finishes:** A, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 140A, 140BK, 140D, 140G  
R3C164  
**BHMA**  
CERTIFIED

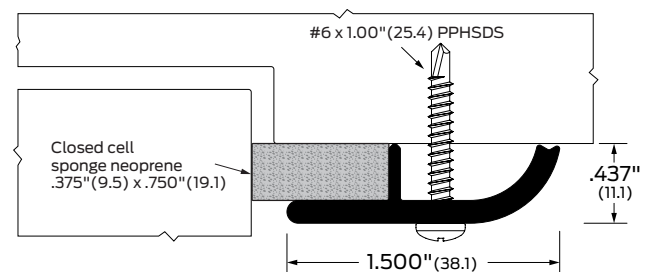
318



**Finishes:** AA, BK, D, G  
**Options:** ZAG, S, SEC  
**ANSI/BHMA:** 318AA, 318BK, 318D, 318G  
R3C164  
**BHMA**  
CERTIFIED

ZAG option for mental health applications includes security screws.

322



**Finishes:** A, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 322A, 322BK, 322D, 322G  
R3C164  
**BHMA**  
CERTIFIED

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

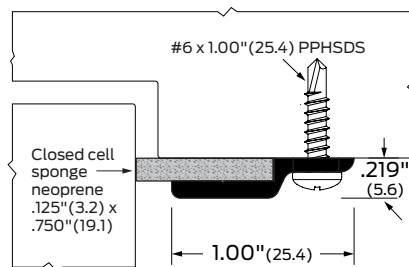
## Note:

## Perimeter seals

## Head and jamb gasketing

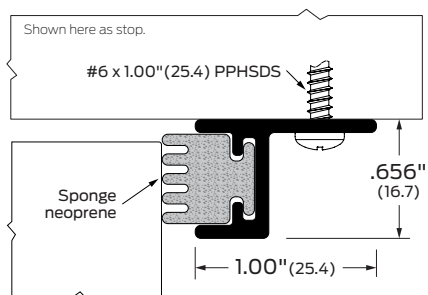


50



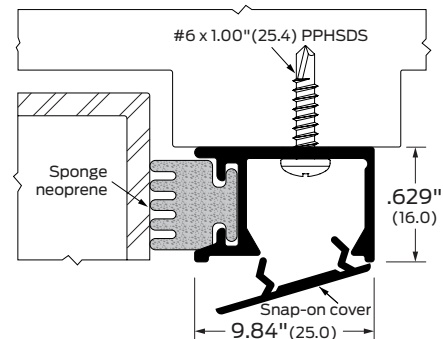
Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 50AA, 50BK, 50D, 50G R3C164  
**BHMA**  
 CERTIFIED

1370



Finishes: A, BK, D, G Options: S, SEC ANSI/BHMA: 1370A, 1370BK, 1370D, 1370G R3C154  
**BHMA**  
 CERTIFIED

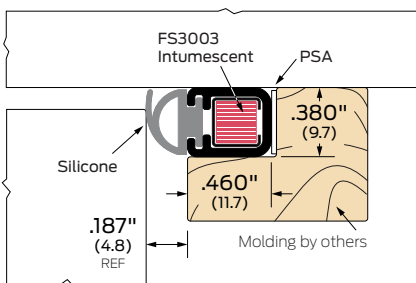
376



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 376AA, 376BK, 376D, 376G R3C164  
**BHMA**  
 CERTIFIED

Channel may be used for low-voltage wiring, subject to local building codes.

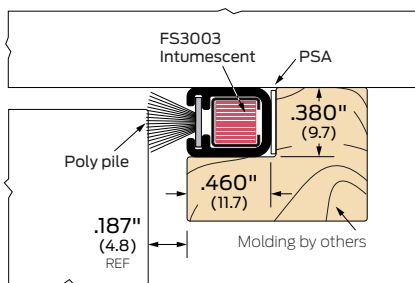
5831FS



Finishes: AA, BK, D, G Options: S ANSI/BHMA: 5831FS-AA, 5831FS-BK, 5831FS-D, 5831FS-G R3U164  
**BHMA**  
 CERTIFIED

Supplied standard with PSA.

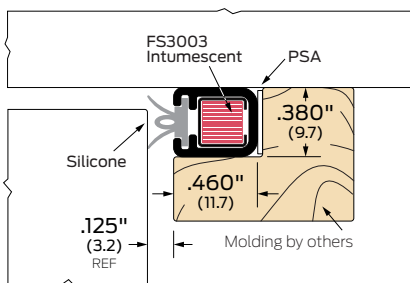
5832FS



Finishes: AA, BK, D, G Options: S ANSI/BHMA: 5832FS-AA, 5832FS-BK, 5832FS-D, 5832FS-G R3V164  
**BHMA**  
 CERTIFIED

Supplied standard with PSA.

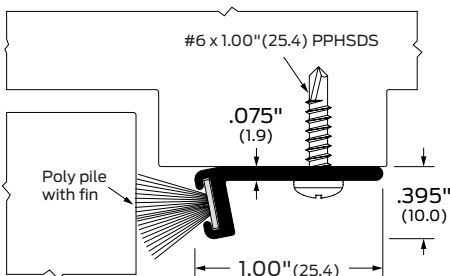
58FS



Finishes: AA, BK, D, G Options: S ANSI/BHMA: 58FS-AA, 58FS-BK, 58FS-D, 58FS-G R3V164  
**BHMA**  
 CERTIFIED

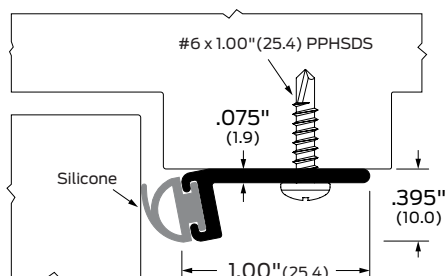
For applications with very small clearances between door and frame. Supplied standard with PSA.

98



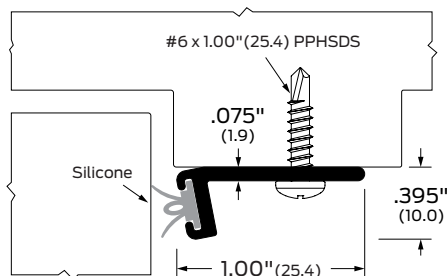
Finishes: A, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 98A, 98BK, 98D, 98G R3F166  
**BHMA**  
 CERTIFIED

99



Finishes: A, BK, D, G Options: ZAG, S, SEC ANSI/BHMA: 99A, 99BK, 99D, 99G R3E164  
**BHMA**  
 CERTIFIED

100



Finishes: A, BK, D, G Options: S, SEC ANSI/BHMA: 100A, 100BK, 100D, 100G R3E164  
**BHMA**  
 CERTIFIED

For applications with very small clearances between door and frame.

See Perimeter seals Accessories & options page for details.

## Finishes:

A Aluminum mill finish  
 AA Aluminum clear anodized  
 BK Aluminum black anodized  
 D Aluminum dark bronze anodized  
 G Aluminum gold anodized  
 B Bronze, architectural mill finish  
 B-ORB Oil-rubbed aged bronze

## Options:

FLO Air flow/ sound block  
 PSA Pressure-sensitive adhesive  
 ZAG Ligature resistant gasketing  
 S Order as a set  
 SEC Security screws

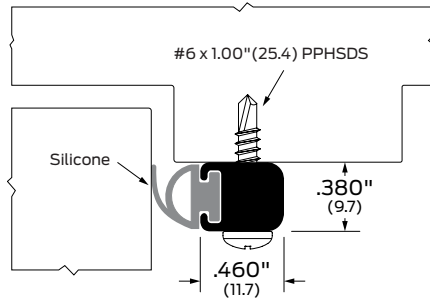
## Note:



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# Head and jamb gasketing

31

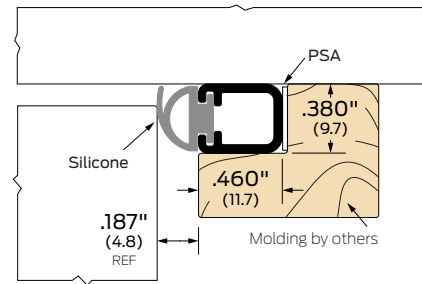


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 31AA, 31BK, 31D, 31G R3E164



Extruded Bulb/Finger for double-sealing protection.

5831

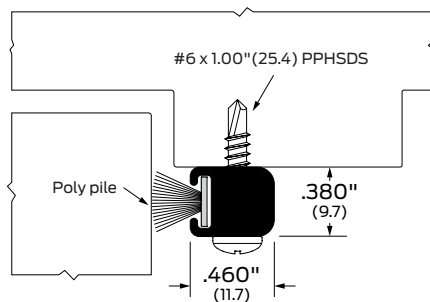


Finishes: AA, BK, D, G Options: S ANSI/BHMA: 5831AA, 5831BK, 5831D, 5831G R3E164



Extruded Bulb/Finger for double-sealing protection. Supplied standard with PSA.

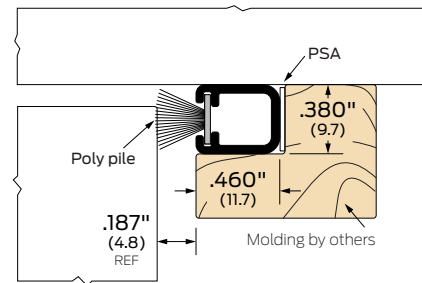
32



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 32AA, 32BK, 32D, 32G R3F166



5832

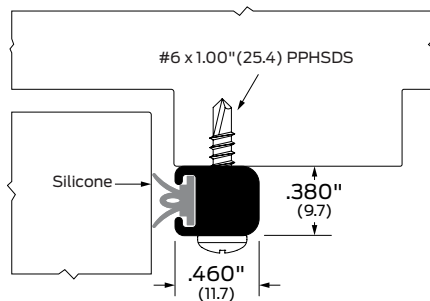


Finishes: AA, BK, D, G Options: S ANSI/BHMA: 5832AA, 5832BK, 5832D, 5832G R3F166



Supplied standard with PSA.

33

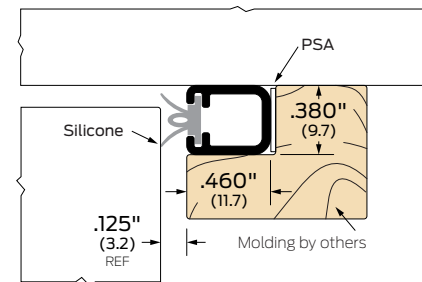


Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 33AA, 33BK, 33D, 33G R3E164



For applications with very small clearances between door and frame.

5833



Finishes: AA, BK, D, G Options: S ANSI/BHMA: 5833AA, 5833BK, 5833D, 5833G R3E1644



For applications with very small clearances between door and frame. Supplied standard with PSA.

See Perimeter seals Accessories & options page for details.

## Finishes:

- A Aluminum mill finish
- AA Aluminum clear anodized
- BK Aluminum black anodized
- D Aluminum dark bronze anodized
- G Aluminum gold anodized
- B Bronze, architectural mill finish
- B-ORB Oil-rubbed aged bronze

## Options:

- FLO Air flow/ sound block
- PSA Pressure-sensitive adhesive
- ZAG Ligature resistant gasketing
- S Order as a set
- SEC Security screws

## Note:



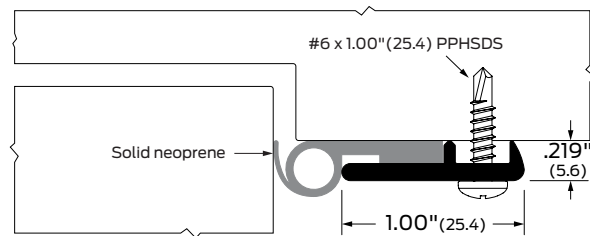
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## Perimeter seals

## Head and jamb gasketing



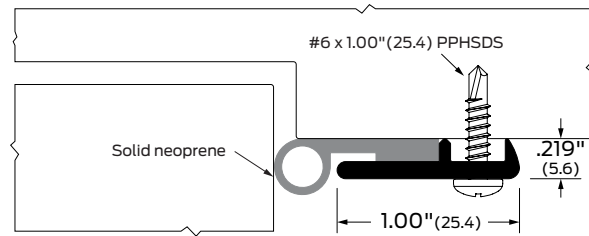
326



**Finishes:** AA, BK, D, G, B, B-ORB  
**Options:** ZAG, S, SEC  
**ANSI/BHMA:** 326AA, 326BK, 326D, 326G R3B164 R1B164  
**BHMA CERTIFIED**

Extruded Bulb/Finger for double-sealing protection.

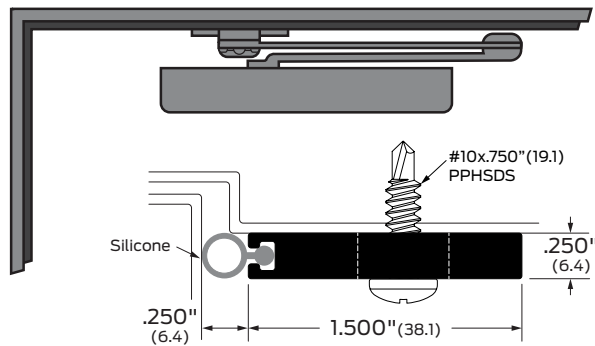
328



**Finishes:** AA, BK, D, G, B, B-ORB  
**Options:** ZAG, S, SEC  
**ANSI/BHMA:** 328AA, 328BK, 328D, 328G R3B164 R1B164  
**BHMA CERTIFIED**

ZAG option for mental health applications includes security screws

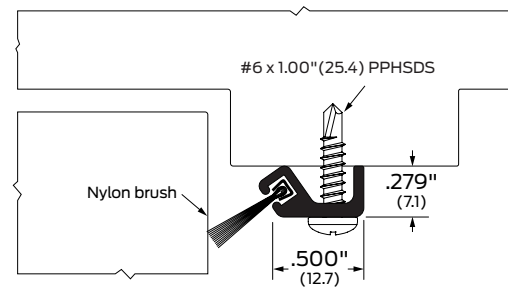
429



**Finishes:** AA, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 429AA, 429BK, 429D, 429G R3E164  
**BHMA CERTIFIED**

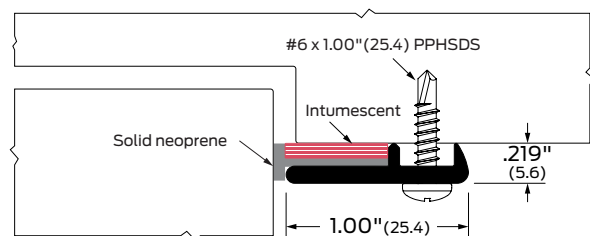
Gasketing protection for closer bracket or door coordinator.

8305



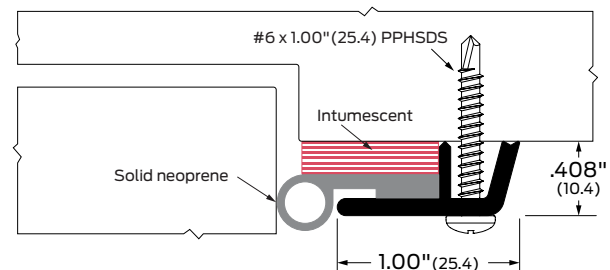
**Finishes:** AA, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 8305AA, 8305BK, 8305D, 8306G R3A166  
**BHMA CERTIFIED**

302FS



**Finishes:** AA, BK, D, G, B, B-ORB  
**Options:** S, SEC  
**ANSI/BHMA:** 302FS-AA, 302FS-BK, 302FS-D, 302FS-G R3R164 R1R164  
**BHMA CERTIFIED**

328FS



**Finishes:** AA, BK, D, G  
**Options:** S, SEC  
**ANSI/BHMA:** 328FS-AA, 328FS-BK, 328FS-D, 328FS-G R3R164  
**BHMA CERTIFIED**

See Perimeter seals Accessories & options page for details.

| Finishes:                                  | Options:                                |
|--------------------------------------------|-----------------------------------------|
| <b>A</b> Aluminum mill finish              | <b>FLO</b> Air flow/ sound block        |
| <b>AA</b> Aluminum clear anodized          | <b>PSA</b> Pressure-sensitive adhesive  |
| <b>BK</b> Aluminum black anodized          | <b>ZAG</b> Ligature resistant gasketing |
| <b>D</b> Aluminum dark bronze anodized     | <b>S</b> Order as a set                 |
| <b>G</b> Aluminum gold anodized            | <b>SEC</b> Security screws              |
| <b>B</b> Bronze, architectural mill finish |                                         |
| <b>B-ORB</b> Oil-rubbed aged bronze        |                                         |

Note:



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# Head and jamb gasketing

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

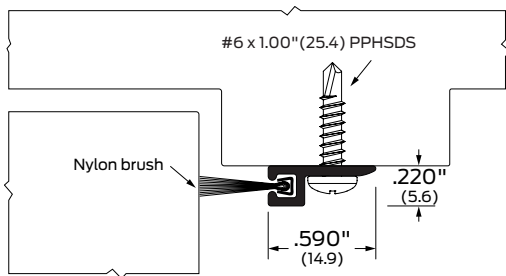
Intumescent

Sound control

Specialty applications

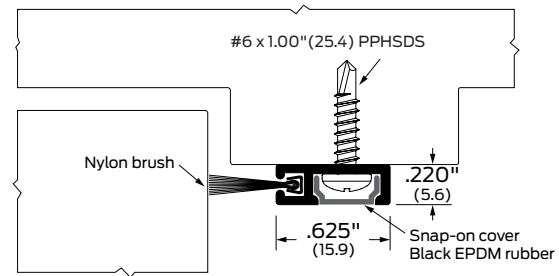
Appendix

## 8193



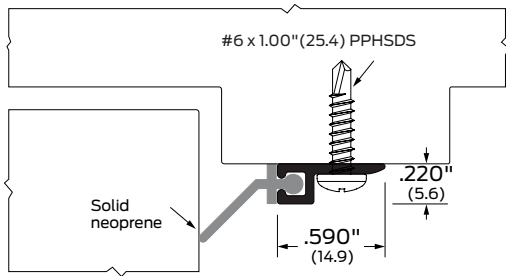
Finishes: AA, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 8193AA, 8193BK, 8193D, 8193G R3A166

## 8879



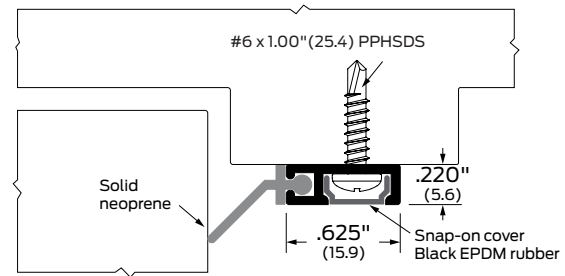
Finishes: AA, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 8879AA, 8879BK, 8879D, 8879G R3A166

## 8302



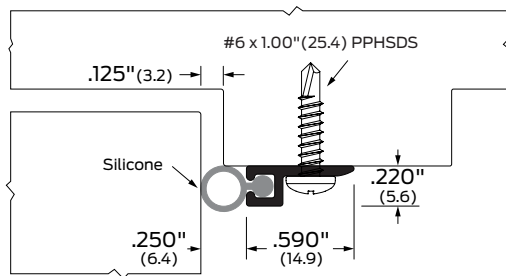
Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 8302AA, 8302BK, 8302D, 8302G R3B164

## 8877



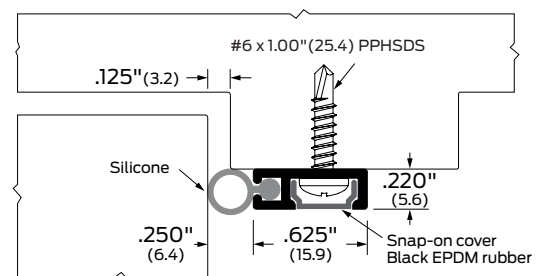
Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 8877AA, 8877BK, 8877D, 8877G R3B164

## 8303



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 8303AA, 8303BK, 8303D, 8303G R3E164

## 8878



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 8878AA, 8878BK, 8878D, 8878G R3E164

See Perimeter seals Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

### Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

### Note:

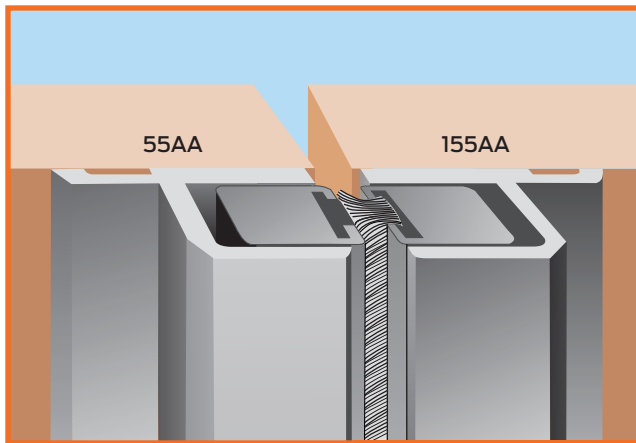


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## Perimeter seals

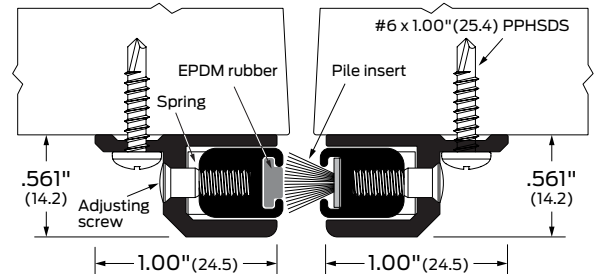
## Meeting stiles

## Adjustable surface-mounted meeting stiles for beveled doors



55

155



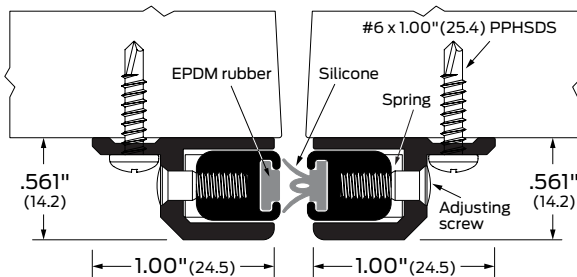
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 55AA/155AA, 55BK/155BK, 55D/155D, 55G/155G R3F836



Fire-rated as a set--both components required. Order components separately.

55

555



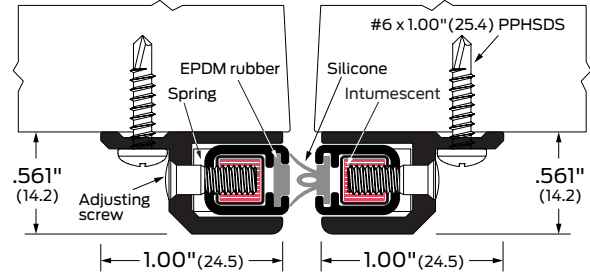
Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 55AA/555AA, 55BK/555BK, 55D/555D, 55G/555G R3E834



Fire-rated as a set--both components required. Order components separately.

55FS

555FS

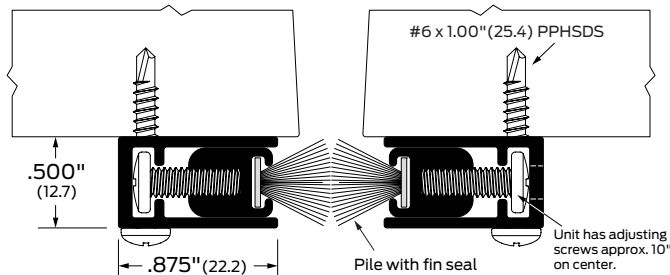


Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 55FS-AA/555FS-AA, 55FS-BK/555FS-BK, 55FS-D/555FS-D, 55FS-G/555FS-G R3U834



Fire-rated as a set--both components required. Order components separately.

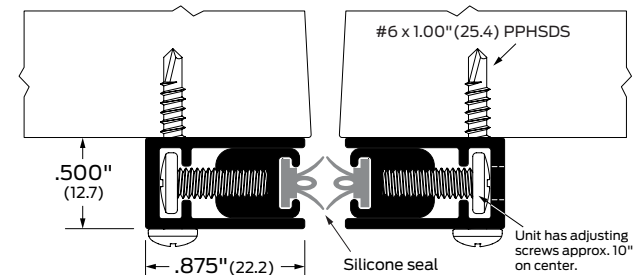
871



Finishes: AA, BK, D, G Options: S, SEC ANSI/BHMA: 871AA, 871BK, 871D, 871G R3F735



873



Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 873AA, 873BK, 873D, 873G R3E734



See Perimeter seals Accessories & options page for details.

## Finishes:

A Aluminum mill finish  
AA Aluminum clear anodized  
BK Aluminum black anodized  
D Aluminum dark bronze anodized  
G Aluminum gold anodized  
B Bronze, architectural mill finish  
B-ORB Oil-rubbed aged bronze

## Options:

FLO Air flow/ sound block  
PSA Pressure-sensitive adhesive  
ZAG Ligature resistant gasketing  
S Order as a set  
SEC Security screws

## Note:

Follow NPFA 80 requirements for fire door clearances.



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Perimeter seals

# Meeting stiles

Adjustable mortised meeting stiles for bull-nosed doors

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

Intumescent

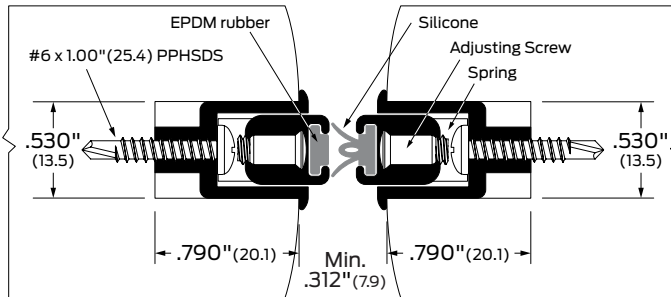
Sound control

Specialty  
applications

Appendix

56

557

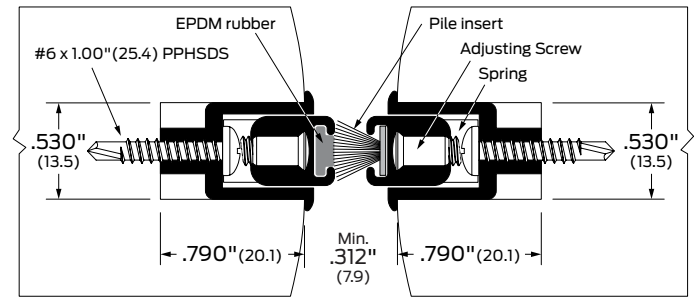


Finishes: ANSI/BHMA:  
AA, BK, 56AA/557AA, 56BK/557BK, 56D/557D, 56G/557G R3E824  
D, G **BHMA**  
CERTIFIED

Order components separately.

56

156

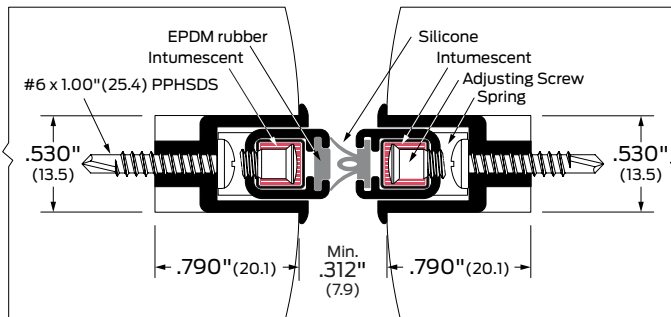


Finishes: ANSI/BHMA:  
AA, BK, 56AA/156AA, 56BK/156BK, 56D/156D, 56G/156G R3F825  
D, G **BHMA**  
CERTIFIED

Order components separately.

56FS

557FS

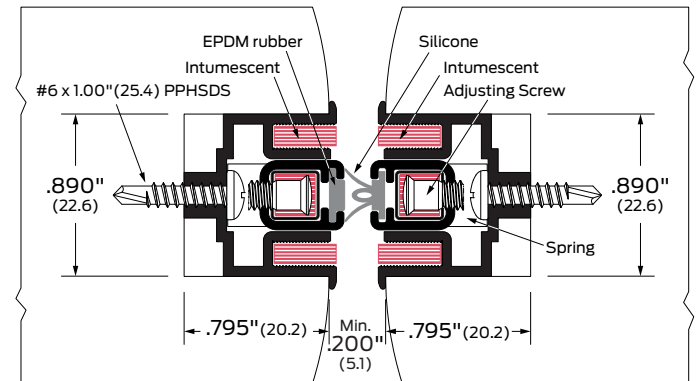


Finishes: ANSI/BHMA:  
AA, BK, 56FS-AA/ 557FS-AA, 56FS-BK/ 557FS-BK,  
D, G 56FS-D/ 557FS-D, 56FS-G/ 557FS-G R3U824  
**BHMA**  
CERTIFIED

Order components separately.

3056FS

3557FS



Finishes: ANSI/BHMA:  
AA, BK, 3056FS-AA/ 3557FS-AA, 3056FS-BK/ 3557FS-BK,  
D, G 3056FS-D/ 3557FS-D, 3056FS-G/ 3557FS-G R3U824  
**BHMA**  
CERTIFIED

Fire-rated as a set--both components required. Order components separately.

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

Follow NPFA 80 requirements for fire door clearances.

## Perimeter seals

## Meeting stiles

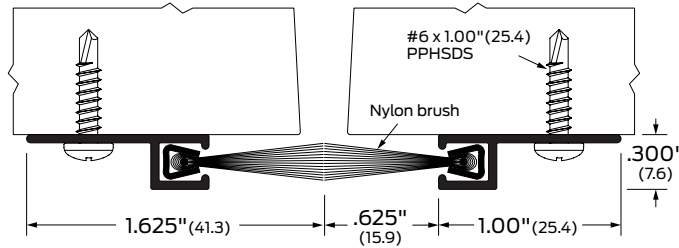
## Surface-mounted meeting stiles for beveled doors, both doors active



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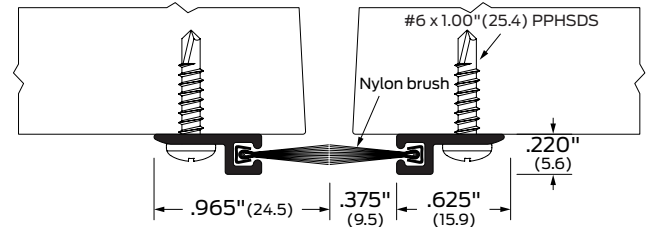


## 8192



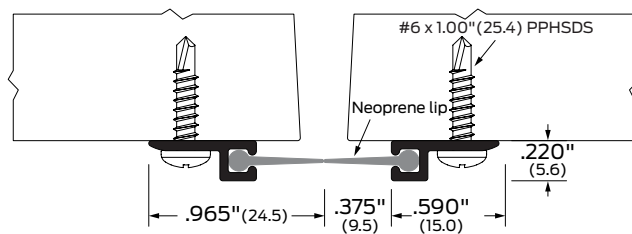
Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8192AA, 8192BK, 8192D, 8192G R3A735  
**BHMA**  
CERTIFIED

## 8193



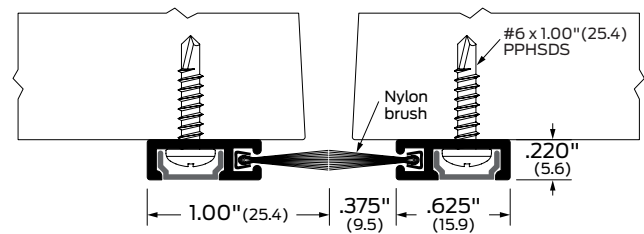
Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8193AA, 8193BK, 8193D, 8193G R3A735  
**BHMA**  
CERTIFIED

## 8194



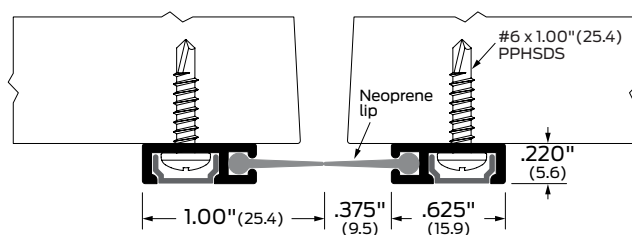
Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8194AA, 8194BK, 8194D, 8194G R3A735  
**BHMA**  
CERTIFIED

## 8879



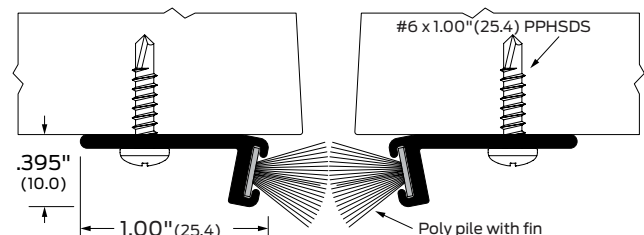
Finishes: AA, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 8879AA, 8879BK, 8879D, 8879G R3A735  
**BHMA**  
CERTIFIED

## 8195



Finishes: AA, BK, D, G Options: PSA, SEC ANSI/BHMA: 8195AA, 8195BK, 8195D, 8195G R3B734  
**BHMA**  
CERTIFIED

## 98



Finishes: A, BK, D, G Options: PSA, S, SEC ANSI/BHMA: 98A, 98BK, 98D, 98G R3F735  
**BHMA**  
CERTIFIED

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

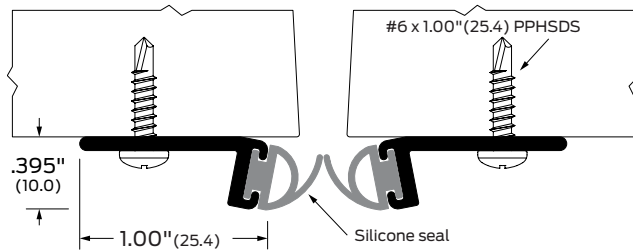
For stile applications order two of each model, or mix and match models if desired.

Follow NFPA-80 requirements for fire door clearances.

# Meeting stiles

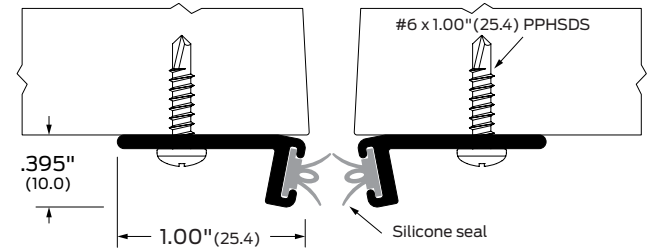
Surface-mounted meeting stiles for beveled doors, both doors active (cont.)

99



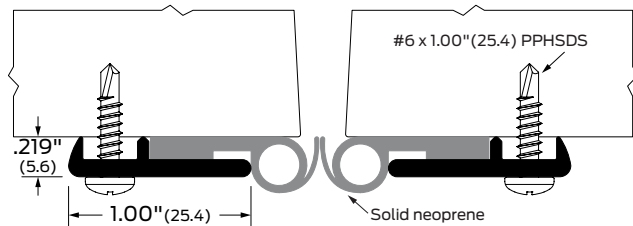
Finishes: A, BK, D, G  
Options: ZAG, S, SEC  
ANSI/BHMA: 99A, 99BK, 99D, 99G  
R3E735  
**BHMA**  
CERTIFIED

100



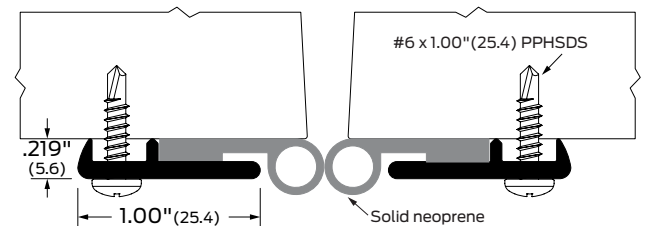
Finishes: A, BK, D, G  
Options: S, SEC  
ANSI/BHMA: 100A, 100BK, 100D, 100G  
R3E734  
**BHMA**  
CERTIFIED

326



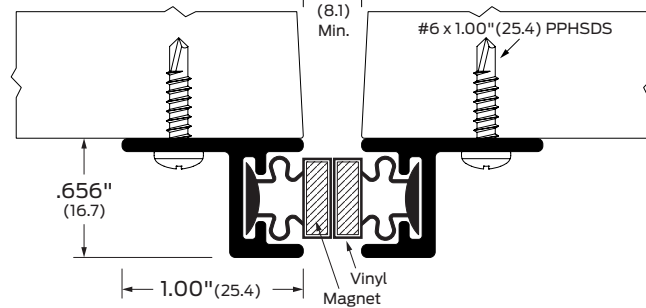
Finishes: AA, BK, D, G, B, B-ORB  
Options: ZAG, S, SEC  
ANSI/BHMA: 326AA, 326BK, 326D, 326G  
R3B735  
**BHMA**  
CERTIFIED

328



Finishes: AA, BK, D, G, B, B-ORB  
Options: ZAG, S, SEC  
ANSI/BHMA: 328AA, 328BK, 328D, 328G  
R3B735  
**BHMA**  
CERTIFIED

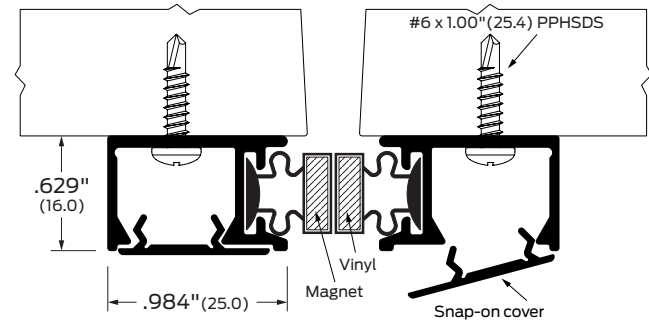
370



Finishes: AA, BK, D, G  
ANSI/BHMA: 370AA, 370BK, 370D, 370G  
R3L734  
**BHMA**  
CERTIFIED

Magnetic meeting stiles for use with metal interior doors only.  
Available to order as engineering special.

375



Finishes: AA, BK, D, G  
ANSI/BHMA: 375AA, 375BK, 375D, 375G  
R3L734  
**BHMA**  
CERTIFIED

Magnetic meeting stiles for use with metal interior doors only.  
Available to order as engineering special.

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

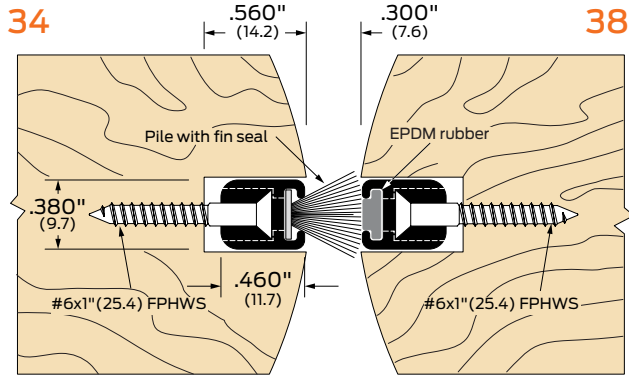
For stile applications order two of each model, or mix and match models if desired.

Follow NFPA-80 requirements for fire door clearances.

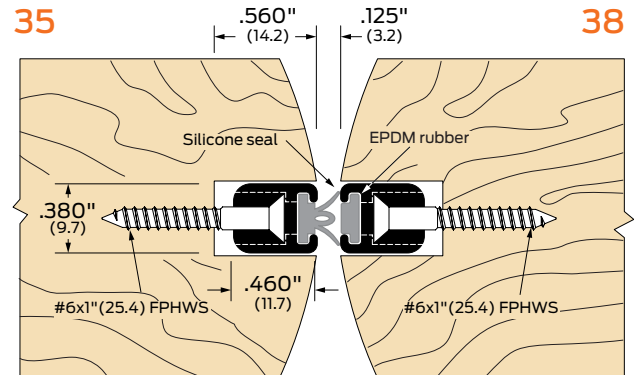
## Perimeter seals

## Meeting stiles

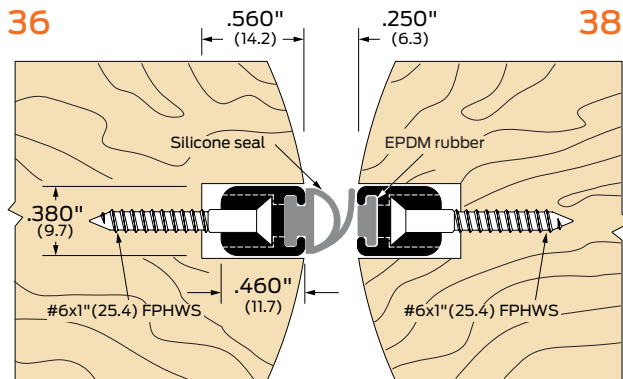
## Mortised meeting stiles for bull-nosed doors, both doors active



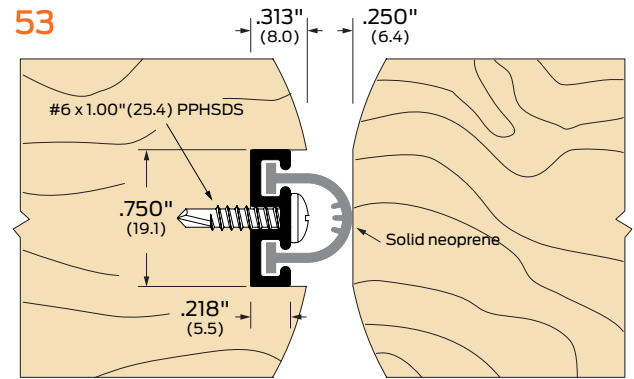
Finishes: ANSI/BHMA:  
AA, BK, 34AA, 34BK, 34D, 34G R3F825  
D, G  
**BHMA**  
CERTIFIED  
Order components separately.



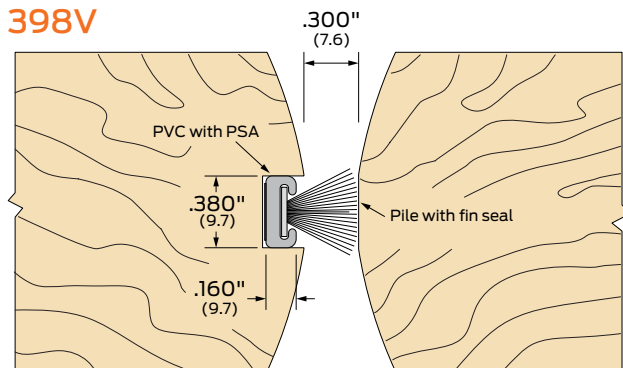
Finishes: ANSI/BHMA:  
AA, BK, 35AA, 35BK, 35D, 35G R3E824  
D, G  
**BHMA**  
CERTIFIED  
Order components separately.



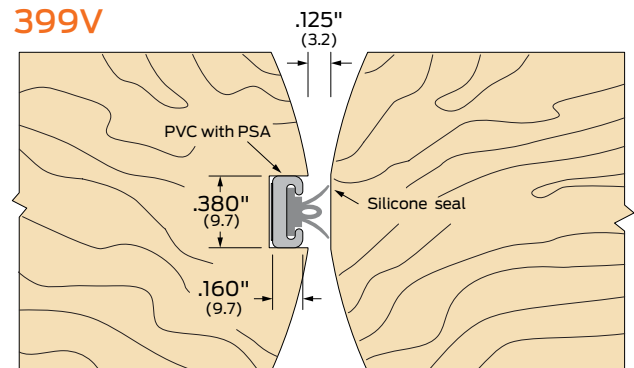
Finishes: ANSI/BHMA:  
AA, BK, 36AA, 36BK, 36D, 36G R3E824  
D, G  
**BHMA**  
CERTIFIED  
Order components separately.



Finishes: Options: ANSI/BHMA:  
A SEC 53A R3B724  
**BHMA**  
CERTIFIED



Finishes:  
Solid PVC-brown. Supplied standard with PSA



Finishes:  
Solid PVC-brown. Supplied standard with PSA

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

Follow NFPA-80 requirements for fire door clearances.



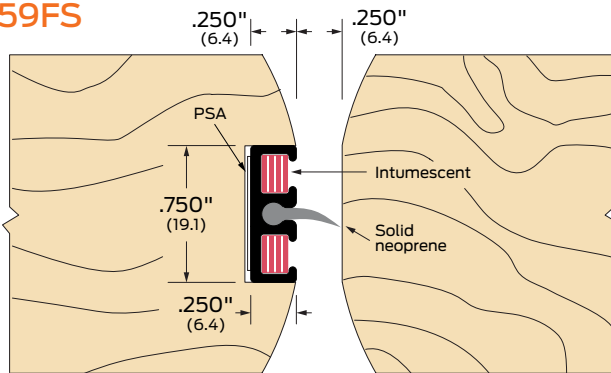
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# Meeting stiles

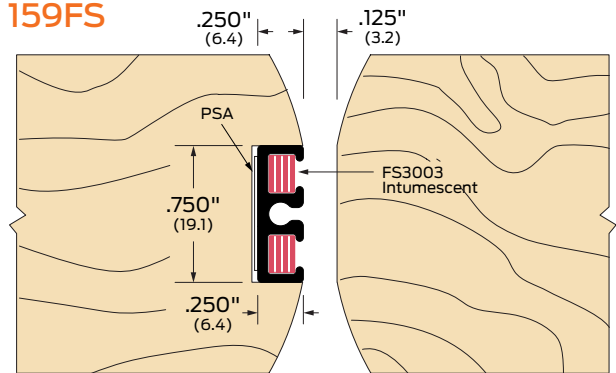
Mortised meeting stiles for bull-nosed doors, both doors active. (cont.)

## 59FS



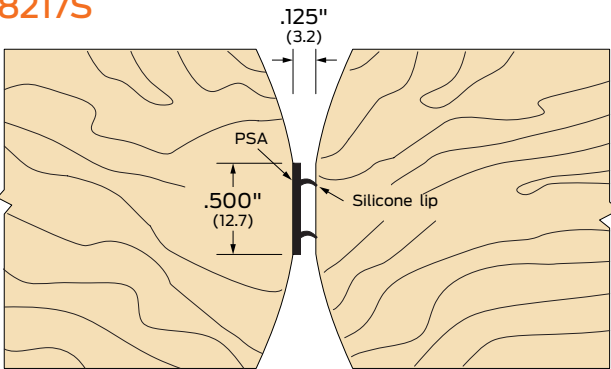
Finishes: ANSI/BHMA:  
A 59FS-A R3R724  
 **BHMA**  
CERTIFIED  
Supplied standard with PSA.

## 159FS



Finishes: ANSI/BHMA:  
A 159FS-A R3P7246  
 **BHMA**  
CERTIFIED  
Supplied standard with PSA.

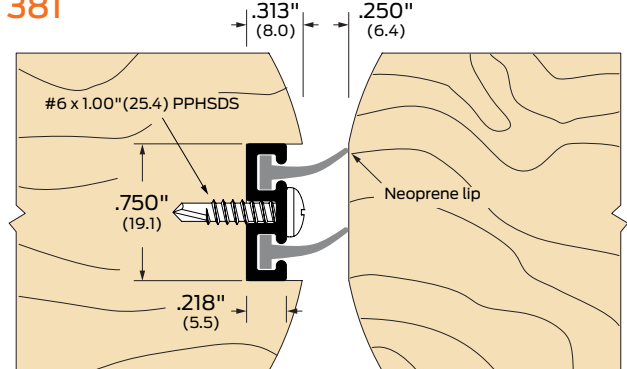
## 8217S



Finishes:  
S-BK  
Black silicone

Very low profile, for door pairs with very small clearance. Also suitable for glass doors.  
Supplied standard with PSA.

## 381



Finishes: Options: ANSI/BHMA:  
A FLO, SEC 381A R3B724  
 **BHMA**  
CERTIFIED



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See Perimeter seals Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

### Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

### Note:

See Ives catalog for door coordinators.  
Follow NFPA-80 requirements for fire door clearances.

## Perimeter seals

## Meeting stiles

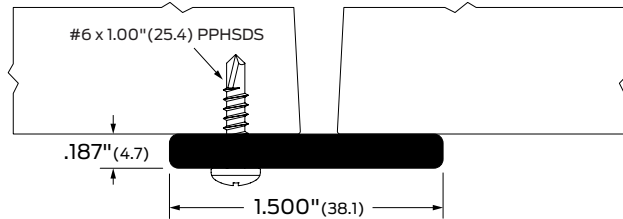
## Astragals — One door active or coordinating doors



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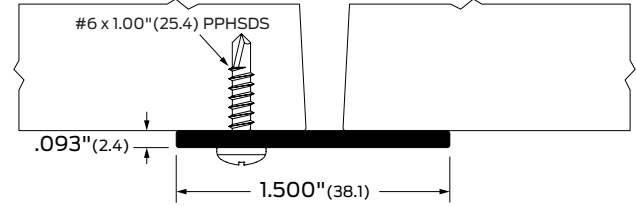


## 905



Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 905AA, 905BK, 905D, 905G R3Y636  
**BHMA**  
CERTIFIED

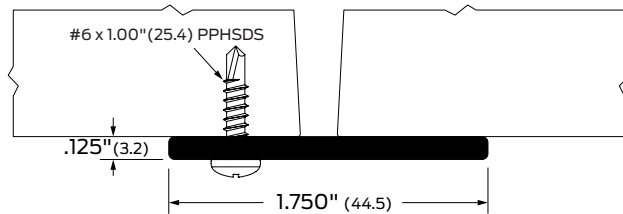
## 44



Finishes: STST Options: SEC ANSI/BHMA: 44STST R5Y636  
**BHMA**  
CERTIFIED

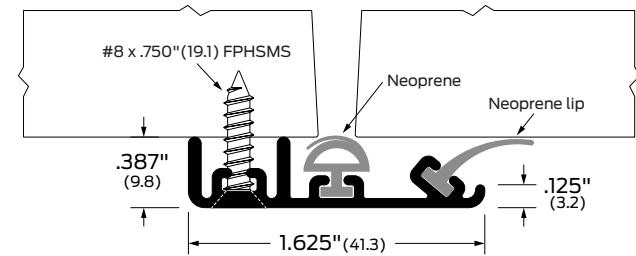
Stainless steel finish only.

## 47



Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 47AA, 47BK, 47D, 47G R3Y636  
**BHMA**  
CERTIFIED

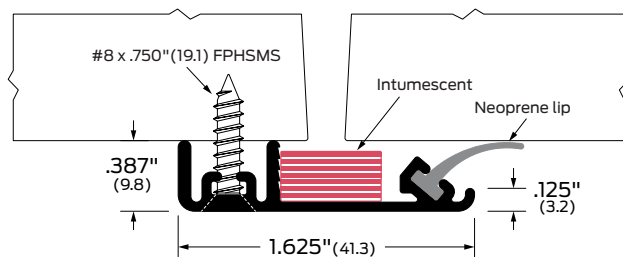
## 383



Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 383AA, 383BK, 383D, 383G R3B634  
**BHMA**  
CERTIFIED

90 minute max fire rating

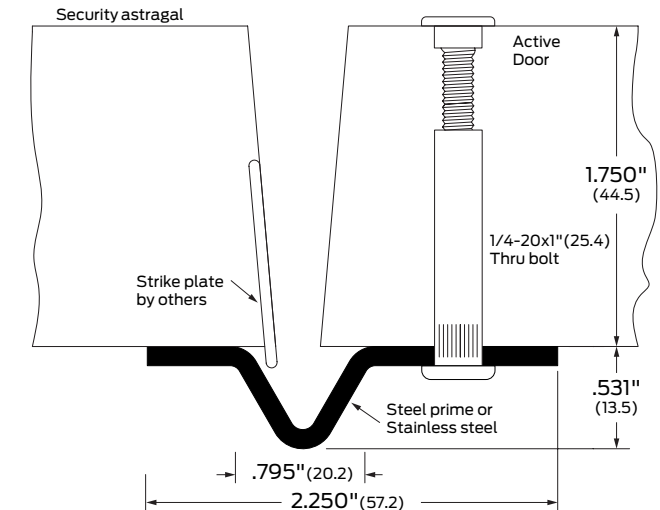
## 383FS



Finishes: AA, BK, D, G Options: SEC ANSI/BHMA: 383FS-AA, 383FS-BK, 383FS-D, 383FS-G R3B634  
**BHMA**  
CERTIFIED

90 minute max fire rating

## 43



Finishes: SP, STST

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Anti-ligature gasketing  
**S** Order as a set  
**NH** No holes  
**NRGC** Rubber not assembled, no glue or no crimp on seal  
**SEC** Security screws

## Note:

See Ives catalog for door coordinators.

Finishes: SP = Steel Primed, STST=Stainless Steel.

Follow NFPA 80 requirements for fire door clearances.



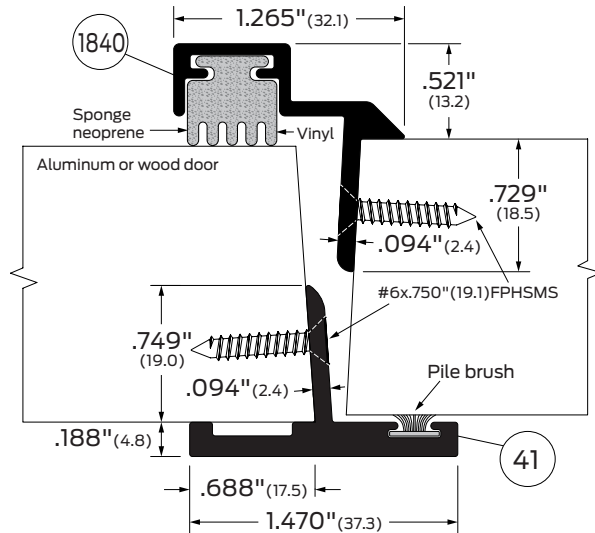
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HARDWARE**  
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Perimeter seals

# Meeting stiles

Astragals — One door active or coordinating doors (cont.)

## 1840/41



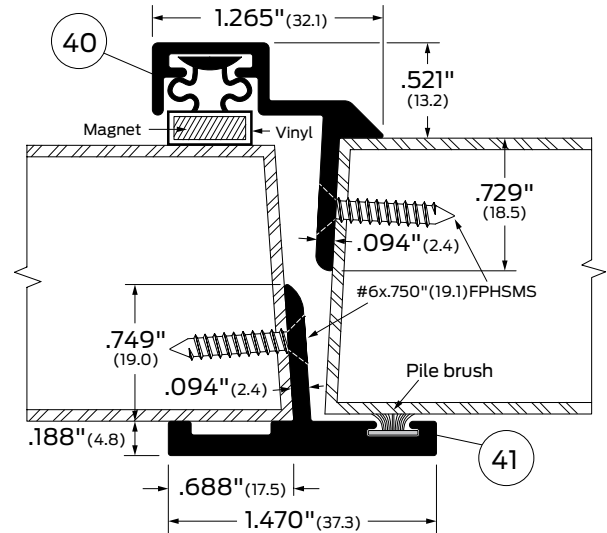
## 1840

Finishes: ANSI/BHMA:  
AA, BK, 1840AA, 1840BK, 1840D, 1840G R3C635  
D, G  
Astragal, inswing.

## 41

Finishes: ANSI/BHMA:  
AA, BK, 41AA, 41BK, 41D, 41G R3F636  
D, G  
**BHMA**  
CERTIFIED

## 40/41



## 40

Finishes: ANSI/BHMA:  
AA, BK, 40AA, 40BK, 40D, 40G R3L635  
D, G

Magnetic astragal, inswing. For use on interior metal doors only. Available to order as engineering special.

See Perimeter seals Accessories & options page for details.

### Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

### Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

### Note:

See Ives catalog for door coordinators.

## Perimeter seals

## Meeting stiles

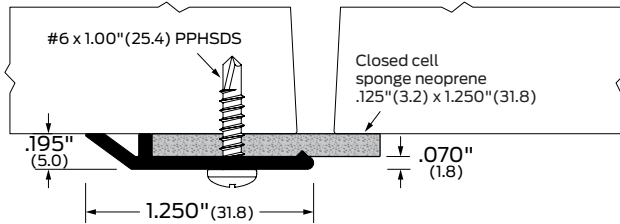
## Astragals — One door active or coordinating doors (cont.)



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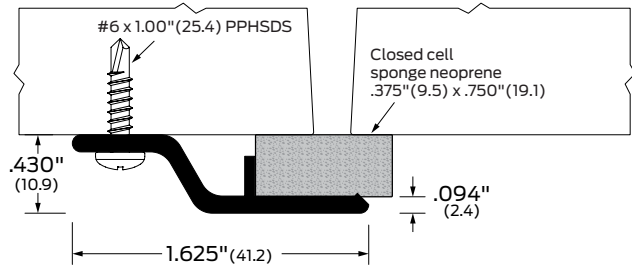


139



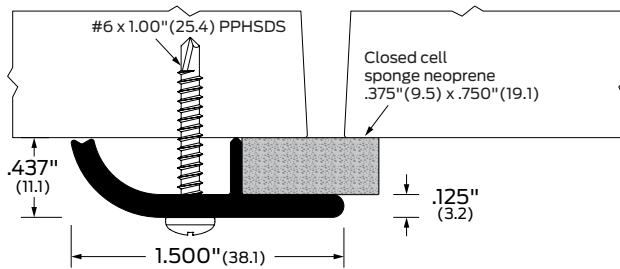
Finishes: A, BK, D, G Options: S, SEC ANSI/BHMA: 139A, 139BK, 139D, 139G R3C634  
BHMA CERTIFIED

140



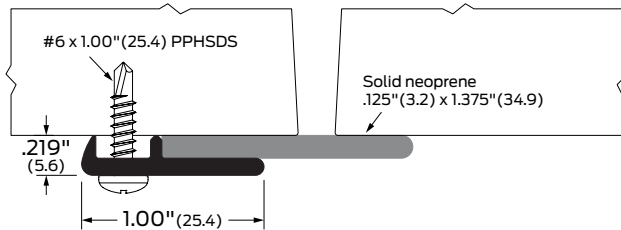
Finishes: A, BK, D, G Options: S, SEC ANSI/BHMA: 140A, 140BK, 140D, 140G R3C634  
BHMA CERTIFIED

322



Finishes: A, BK, D, G Options: S, SEC ANSI/BHMA: 322A, 322BK, 322D, 322G R3C164 R3C634  
BHMA CERTIFIED

339



Finishes: AA, BK, D, G, B, B-ORB Options: SEC ANSI/BHMA: 339AA, 339BK, 339D, 339G R3B634 R1B634  
BHMA CERTIFIED

See Perimeter seals Accessories & options page for details.

## Finishes:

**A** Aluminum mill finish  
**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized  
**B** Bronze, architectural mill finish  
**B-ORB** Oil-rubbed aged bronze

## Options:

**FLO** Air flow/ sound block  
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature resistant gasketing  
**S** Order as a set  
**SEC** Security screws

## Note:

See Ives catalog for door coordinators.



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Perimeter seals

# Specialized solutions

Thresholds

Automatic door  
bottoms

Perimeter seals

Weatherstripping

Intumescent

Sound control

Specialty  
applications

Appendix

## Door closer mounting brackets

These mounting brackets can be used to protect gasketing when installed with an LCN® door closer or with products supplied by other manufacturers. See the table below to determine which bracket model to use with a chosen gasketing model.



**328SPB**

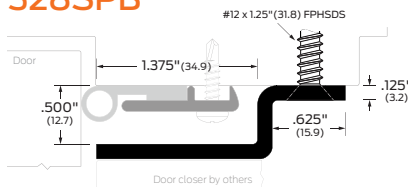


**870SPB**



**770SPB**

### 328SPB



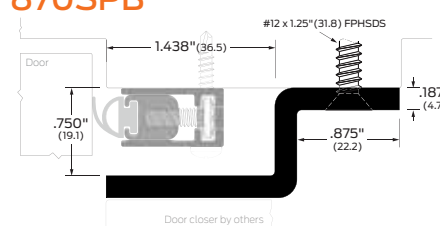
**Finishes:**

Steel-prime painted



Door closer mounting bracket 6" (152.4) long

### 870SPB



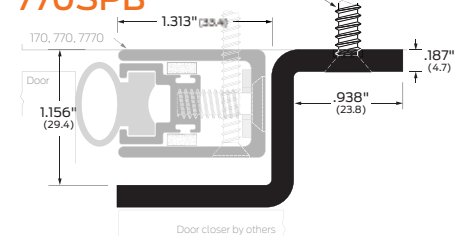
**Finishes:**

Steel-prime painted



Door closer mounting bracket 6" (152.4) long

### 770SPB



**Finishes:**

Steel-prime painted



Door closer mounting bracket 6" (152.4) long

## Compatible gasketing for door closer brackets

| 328SPB                                                                                                                                                 |        | 870SPB                                                                     |        | 770SPB                                            |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|--------|---------------------------------------------------|--------|
| Height                                                                                                                                                 | Width  | Height                                                                     | Width  | Height                                            | Width  |
| .500"                                                                                                                                                  | 1.375" | .750"                                                                      | 1.438" | 1.156"                                            | 1.313" |
| 31, 32, 33, 50, 58FS, 98, 99, 100, 139, 312, 314, 326, 328, 475, 485, 5831, 5831FS, 5832, 5832FS, 5833, 8193, 8302, 8303, 8305, 8306, 8877, 8878, 8879 |        | 270, 272, 318, 322, 370, 375, 376, 470, 472, 478, 712, 870, 871, 873, 1370 |        | 170, 770, 3708, 3709, 770FS, 770SP, 770STST, 7770 |        |

See Perimeter seals Accessories & options page for details.

**Finishes:**

- A** Aluminum mill finish
- AA** Aluminum clear anodized
- BK** Aluminum black anodized
- D** Aluminum dark bronze anodized
- G** Aluminum gold anodized
- B** Bronze, architectural mill finish
- B-ORB** Oil-rubbed aged bronze

**Options:**

- FLO** Air flow/ sound block
- PSA** Pressure-sensitive adhesive
- ZAG** Ligature resistant gasketing
- S** Order as a set
- SEC** Security screws

**Note:**





# Weatherstripping

## Door sealing systems



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## Weatherstripping

## Index

## Accessories &amp; options

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|------------------------|----|
| Finishes/Options ..... | 92 |
|------------------------|----|

## Kerf frame weatherstripping

|             |    |
|-------------|----|
| 8810S ..... | 94 |
| 8800S ..... | 94 |
| 8052N ..... | 94 |
| 8812S ..... | 94 |
| 8841R ..... | 94 |
| 8004N ..... | 94 |
| 8043N ..... | 95 |
| 8048S ..... | 95 |
| 8054S ..... | 95 |
| 8055S ..... | 95 |
| 8056S ..... | 95 |
| 8053Q ..... | 95 |

## Self-adhesive weatherstripping

## Solid neoprene and silicone seals

|                         |    |
|-------------------------|----|
| 188S/188FS/188BIO ..... | 96 |
| 8144S/8144FS .....      | 96 |
| 8042S .....             | 96 |
| 488S/488FS/488BIO ..... | 96 |
| 8145S .....             | 96 |
| 824N .....              | 96 |
| 8216S .....             | 97 |
| 117S .....              | 97 |
| 8150S .....             | 97 |

## Closed cell sponge neoprene seals

|             |    |
|-------------|----|
| 8172N ..... | 97 |
| 8770N ..... | 97 |
| 312N .....  | 97 |
| 8780N ..... | 97 |
| 139N .....  | 97 |
| 826N .....  | 97 |
| 926N .....  | 97 |
| 318N .....  | 97 |
| 3708N ..... | 97 |
| 2070N ..... | 98 |
| 810N .....  | 98 |
| 811N .....  | 98 |
| 812N .....  | 98 |
| 813N .....  | 98 |

## Pile brush seals

|             |    |
|-------------|----|
| 137P .....  | 98 |
| 8136P ..... | 98 |
| 34P .....   | 98 |

## Weatherstripping for doors and windows

## Cushion-spring seals for wood doors and frames

|            |    |
|------------|----|
| 18 .....   | 99 |
| 19 .....   | 99 |
| 19W .....  | 99 |
| 118 .....  | 99 |
| 119 .....  | 99 |
| 119W ..... | 99 |

## Jamb seals for double-hung wood windows

|            |    |
|------------|----|
| 4 .....    | 99 |
| 5 .....    | 99 |
| 400 .....  | 99 |
| 500 .....  | 99 |
| 4000 ..... | 99 |
| 5000 ..... | 99 |

## PSA Weatherstripping for glass doors

## PVC glass edge protection for swinging and sliding doors

|           |     |
|-----------|-----|
| 135 ..... | 100 |
| 136 ..... | 100 |

## Poly pile seals with PVC and polycarbonate housings – for swinging and sliding doors

|            |     |
|------------|-----|
| 137 .....  | 100 |
| 138 .....  | 100 |
| 8136 ..... | 100 |
| 8137 ..... | 100 |
| 8138 ..... | 100 |

## Edge protection for glass sliding doors

|               |     |
|---------------|-----|
| 135/137 ..... | 101 |
| 136/138 ..... | 101 |
| 137P .....    | 101 |
| 9137 .....    | 101 |
| 9131 .....    | 101 |

## Astragals for swinging doors

|           |     |
|-----------|-----|
| 133 ..... | 101 |
| 134 ..... | 101 |

## Glass door meeting stiles—surface mounted self-adhesive, both doors active

|            |     |
|------------|-----|
| 8192 ..... | 102 |
| 8193 ..... | 102 |
| 98 .....   | 102 |
| 8194 ..... | 102 |



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## Weatherstripping Introduction

# Designed for durability and optimal performance

Zero offers a comprehensive selection of kerf seals and pressure-sensitive adhesive (PSA) rubber seals in a variety of materials.

With a broad portfolio, Zero offers solutions for a variety of challenging applications. Zero's unique profiles and versatile shapes deliver the best performance for common sealing challenges.

- Metal weatherstripping enables specifiers to optimize sealing solutions for a wide range of door and double-hung window applications.
- Glass door weatherstripping includes solutions for sliding and swinging glass doors.

Special features, such as state of the art adhesive, set Zero apart. Our PSA products are constructed using the highest-quality self-adhesives for superior adhesion even when the surface is contaminated with oil. Making them perfect for applications where budget or installation factors favor the use of PSA gasketing. Thoughtful engineering and design details include a subtle indentation in the extruded profile of Zero tear drop seals that enhances the wrap of the rubber for a tighter seal.

A variety of material options are available to customize a solution for the specific needs of your application.

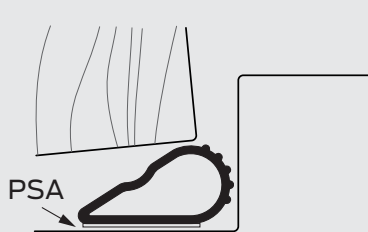
- Silicone rubber can handle many applications including those with temperature extremes (S)
- Neoprene rubber a versatile material for heavy duty applications (N)
- Intumescent for fire and smoke protection (FS)
- BioWall rubber with anti-microbial inhibitor for infection control (BIO)
- EPDM rubber excellent for outdoor use (R)
- Vinyl Covered Foam (Q)

### High quality self adhesive

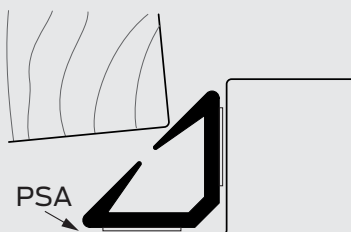
- Strong initial adhesion
- Long term holding power
- Holds well even on contaminated surfaces

Most Zero weatherstripping products use best-in-class 3M 9495LE adhesive tape.

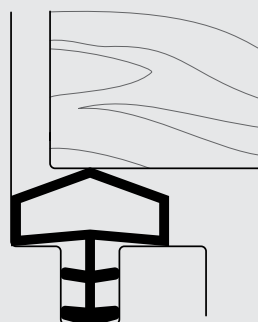
188



8144



8810



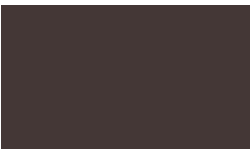
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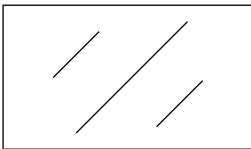
Finishes



BK  
Black



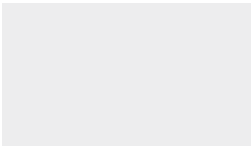
BR  
Brown



CL  
Clear



GY  
Gray



WH  
White



B  
Bronze, Architectural  
Mill Finish



Z  
Zinc Mill Finish

Options

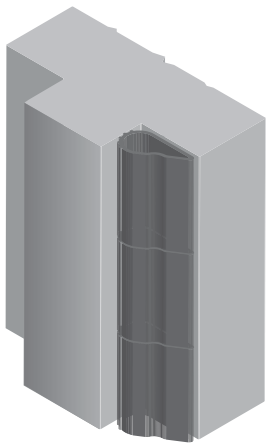
- PSA Pressure-sensitive adhesive  
ZAG Ligature-resistant gasketing

Pressure-sensitive adhesive (PSA)

Many weatherstripping products are supplied standard with a high quality 3M adhesive. PSA is also available as an option on other models. See profile for information on standard or optional PSA.

Ligature-resistant gasketing (ZAG)

This patented ligature-resistant option prevents unintended usage of the gasketing, including harming oneself or others. When ZAG is specified, the rubber is scored before insertion into the aluminum extrusion. This allows the seal to function as intended, but it will now break apart if removal is attempted or any weight is placed on the seal.



188-ZAG



318N-ZAG

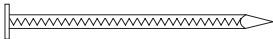
Fasteners

Weatherstripping is supplied with the appropriate fasteners and quantities needed for installation based on order length. Use the part numbers below for ordering additional screws.

| Models                                      | Category               | Part number | Finish | Details                                                      |
|---------------------------------------------|------------------------|-------------|--------|--------------------------------------------------------------|
| 4, 5, 18, 19, 19W, 23, 400, 500, 4000, 5000 | Metal weatherstripping | 47253928    | B, Z   | 10 Nails #16 x 7/8" and 10 Waferhead drive screws #4 x 5/16" |



For hollow metal doors  
#4 x 5/16" wafer-head drive screws  
used for installation on metal doors



For wood doors  
#16 x 7/8" weatherstrip nails used  
for installation on wood doors

See Weatherstripping Accessories & options page for details.

Finishes:

- BK Black  
BR Brown  
CL Clear  
GY Gray  
WH White  
B Architectural mill finish bronze  
Z Mill finish Zinc

Options:

- PSA Pressure-sensitive adhesive  
ZAG Ligature-resistant gasketing



# Weatherstripping order guide

## How to order

|                                                            | Model | Finish | Length | Options |
|------------------------------------------------------------|-------|--------|--------|---------|
|                                                            | 188S  | BK     | 17     |         |
| <b>Models</b>                                              |       |        |        |         |
| Example                                                    |       |        |        |         |
| 5                                                          |       |        |        |         |
| 19W                                                        |       |        |        |         |
| 188S                                                       |       |        |        |         |
| 318N                                                       |       |        |        |         |
| 4000                                                       |       |        |        |         |
| 824N                                                       |       |        |        |         |
| <b>Finishes*</b>                                           |       |        |        |         |
| B - Architectural mill finish Bronze                       |       |        |        |         |
| BK - Black                                                 |       |        |        |         |
| BR - Brown                                                 |       |        |        |         |
| CL - Clear                                                 |       |        |        |         |
| GY - Gray                                                  |       |        |        |         |
| WH - White                                                 |       |        |        |         |
| Z - Mill finish Zinc                                       |       |        |        |         |
| *See profile for finish options.                           |       |        |        |         |
| <b>Length</b>                                              |       |        |        |         |
| For all lengths, specify feet desired US std. measure.     |       |        |        |         |
| Example common Weatherstripping rolls:                     |       |        |        |         |
| 17 - 17' roll for std. 3070 door                           |       |        |        |         |
| 18 - 18' roll                                              |       |        |        |         |
| 19 - 19' roll                                              |       |        |        |         |
| 20 - 20' roll for std. double door                         |       |        |        |         |
| 25 - for double doors to 8' wide x 8' high                 |       |        |        |         |
| <b>Options</b>                                             |       |        |        |         |
| PSA - Pressure sensitive adhesive, standard on some models |       |        |        |         |
| ZAG - Ligature-resistant                                   |       |        |        |         |



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See Weatherstripping Accessories & options page for details.

### Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

### Options:

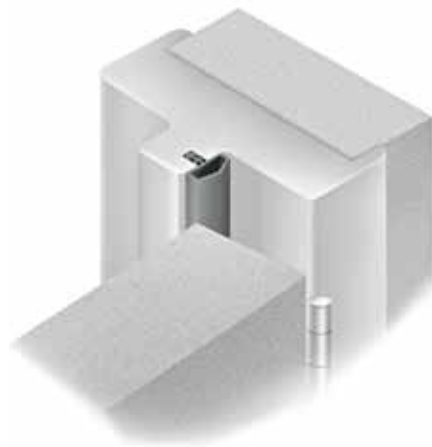
**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing

## Weatherstripping

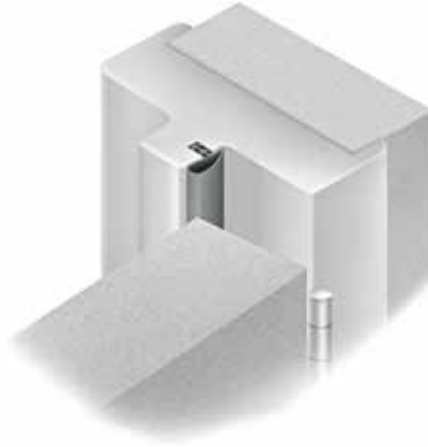
## Kerf frame weatherstripping



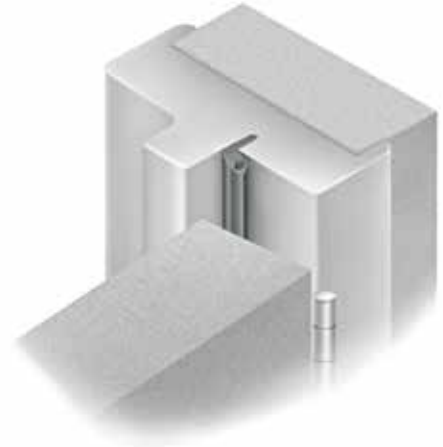
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8810

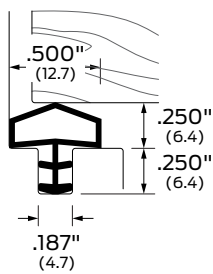


8880



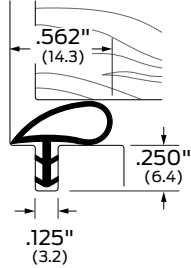
8052

## 8810S



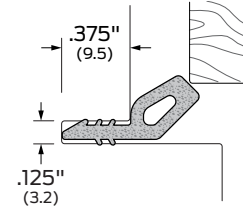
Finishes: BK, WH  
ANSI/BHMA: 8810S ROE186  
**BHMA**  
CERTIFIED

## 8800S



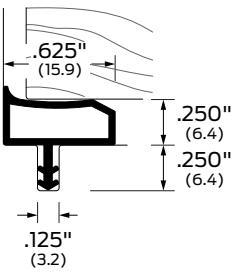
Finishes: BK, WH  
ANSI/BHMA: 8800S ROE186  
**BHMA**  
CERTIFIED

## 8052N



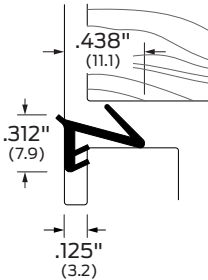
Finishes: BK  
ANSI/BHMA: 8052N ROC186  
**BHMA**  
CERTIFIED  
Closed cell sponge neoprene rubber.

## 8812S



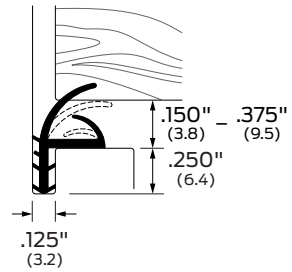
Finishes: BK, WH

## 8841R



Finishes: BK  
ANSI/BHMA: 8841R ROJ186  
**BHMA**  
CERTIFIED  
EPDM rubber.

## 8004N



Finishes: BK  
ANSI/BHMA: 8004N ROB186  
**BHMA**  
CERTIFIED

See Weatherstripping Accessories & options page for details.

## Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

## Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing

## Note:

See door manufacturer specifications for minimum required clearance between door and frame. Most models shown are available in neoprene (N) or silicone (S). Both materials are self-extinguishing and non-staining.

# Kerf frame weatherstripping

Thresholds

Automatic door bottoms

Perimeter seals

Weatherstripping

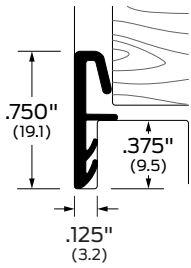
Intumescent

Sound control

Specialty applications

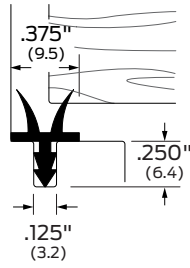
Appendix

## 8043N



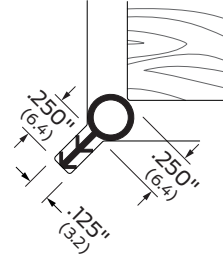
Finishes: BK  
ANSI/BHMA: 8043N ROE186  
**BHMA** CERTIFIED

## 8048S



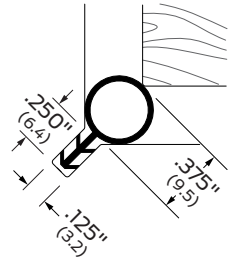
Finishes: BK  
ANSI/BHMA: 8048S ROE186  
**BHMA** CERTIFIED

## 8054S



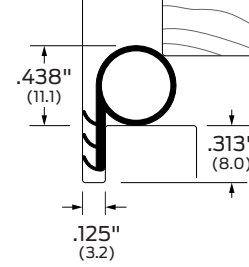
Finishes: BK, WH  
ANSI/BHMA: 8054S ROE186  
**BHMA** CERTIFIED

## 8055S



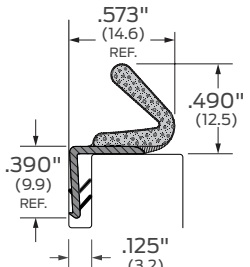
Finishes: BK, WH  
ANSI/BHMA: 8055S ROE186  
**BHMA** CERTIFIED

## 8056S



Finishes: WH  
ANSI/BHMA: 8056S ROE186  
**BHMA** CERTIFIED

## 8053Q



Finishes: BR, WH  
ANSI/BHMA: 8053Q ROY186  
**BHMA** CERTIFIED  
Vinyl-covered foam.



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See Weatherstripping Accessories & options page for details.

### Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

### Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Anti-ligature gasketing

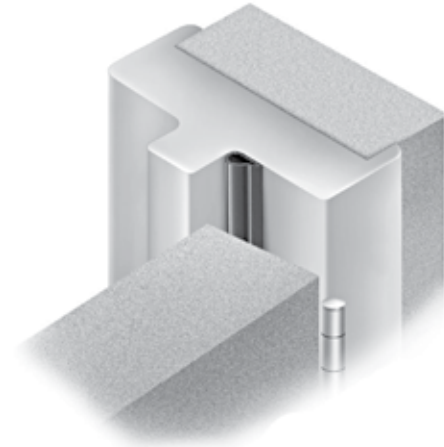
### Note:

See door manufacturer specifications for minimum required clearance between door and frame. Most models shown are available in neoprene (N) or silicone (S). Both materials are self-extinguishing and non-staining.

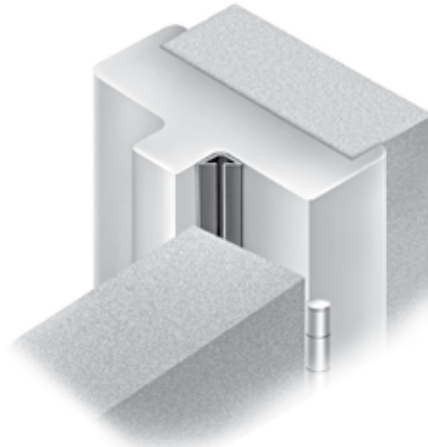
## Weatherstripping

## Self-adhesive weatherstripping

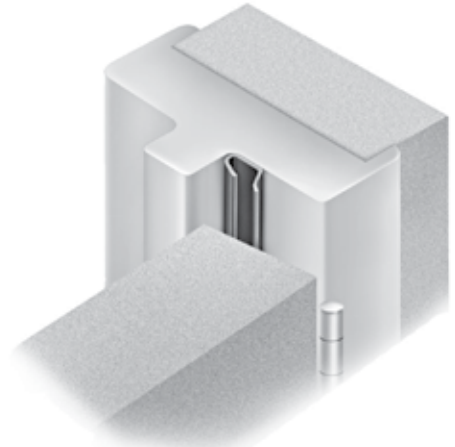
## Solid neoprene and silicone seals



188 /488

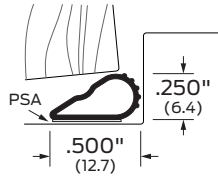


8144



8042

## 188S/188FS/188BIO

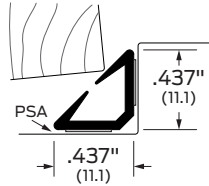


| Material/ Finishes:   | Options: | ANSI/BHMA:   |
|-----------------------|----------|--------------|
| S: BK, BR, CL, GY, WH | ZAG      | 188S R0E151  |
| FS: BK                | ZAG      | 188FS R0U154 |
| BIO: BR               | ZAG      | -            |



S: PSA standard. 20-minute fire rating.  
 FS: Intumescent rubber for fire and smoke protection. PSA standard. 45-minute fire rating.  
 BIO: BioWall antimicrobial rubber. PSA standard.

## 8144S/8144FS

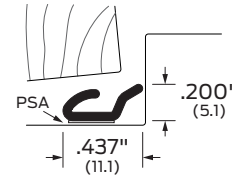


| Finishes: | Options: | ANSI/BHMA:    |
|-----------|----------|---------------|
| S: BK, WH | ZAG      | 8144S R0E154  |
| FS: BK    | ZAG      | 8144FS R0U154 |



S: PSA standard.  
 FS: Intumescent rubber for fire and smoke protection. PSA standard.

## 8042S

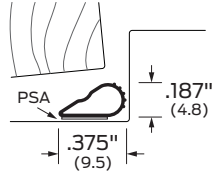


| Finishes: | Options: | ANSI/BHMA:   |
|-----------|----------|--------------|
| BK        | ZAG      | 8042S R0E154 |



PSA standard.

## 488S/488FS/488BIO

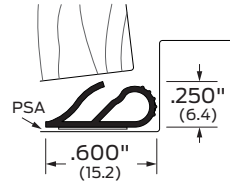


| Material/ Finishes:   | Options: | ANSI/BHMA:   |
|-----------------------|----------|--------------|
| S: BK, BR, CL, GY, WH | ZAG      | 488S R0E154  |
| FS: BK                | ZAG      | 488FS R0U154 |
| BIO: BR               | ZAG      | -            |



S: PSA standard.  
 FS: Intumescent rubber for fire and smoke protection. PSA standard.  
 BIO: BioWall antimicrobial rubber. PSA standard.

## 8145S

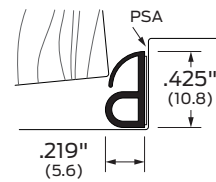


| Finishes: | Options: |
|-----------|----------|
| BK        | ZAG      |



PSA standard.

## 824N



| Finishes: | Options: | ANSI/BHMA:  |
|-----------|----------|-------------|
| BK        | ZAG      | 824N R0B154 |



PSA standard.

See Weatherstripping Accessories & options page for details.

## Finishes:

|           |                                  |
|-----------|----------------------------------|
| <b>BK</b> | Black                            |
| <b>BR</b> | Brown                            |
| <b>CL</b> | Clear                            |
| <b>GY</b> | Gray                             |
| <b>WH</b> | White                            |
| <b>B</b>  | Architectural mill finish bronze |
| <b>Z</b>  | Mill finish Zinc                 |

## Options:

|            |                              |
|------------|------------------------------|
| <b>PSA</b> | Pressure-sensitive adhesive  |
| <b>ZAG</b> | Ligature-resistant gasketing |



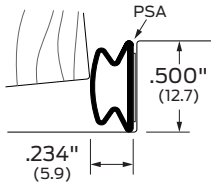
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# Self-adhesive weatherstripping

## Solid neoprene and silicone seals (cont.)

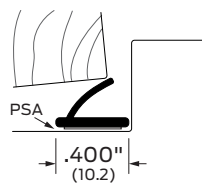
### 8216S



Finishes: BK  
Options: ZAG

PSA standard.

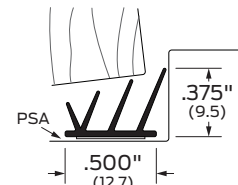
### 117S



Finishes: BK  
Options: ZAG  
ANSI/BHMA: 117S R0E154

PSA standard.

### 8150S

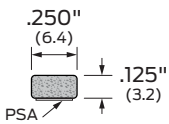


Finishes: BK  
Options: ZAG

PSA standard.

## Closed cell sponge neoprene seals

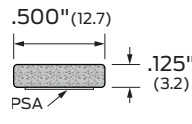
### 8172N



Finishes: BK  
Options: ZAG  
ANSI/BHMA: 8172N R0C155

PSA standard.

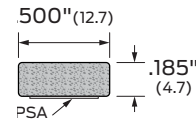
### 8770N



Finishes: BK  
Options: ZAG  
ANSI/BHMA: 8770N R0C155

PSA standard.

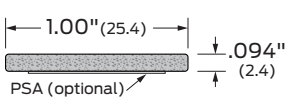
### 312N



Finishes: BK  
Options: ZAG  
ANSI/BHMA: 312N R0C155

PSA standard.

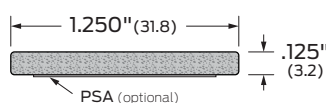
### 8780N



Finishes: BK  
Options: PSA, ZAG  
ANSI/BHMA: 8780N R0C155

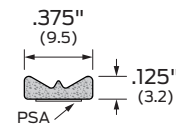
Mullion seal

### 139N



Finishes: BK  
Options: PSA, ZAG

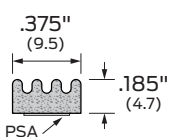
### 826N



Finishes: BK  
Options: ZAG  
ANSI/BHMA: 826N R0C155

PSA standard.

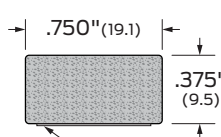
### 926N



Finishes: BK  
Options: PSA, ZAG  
ANSI/BHMA: 926N R0C155

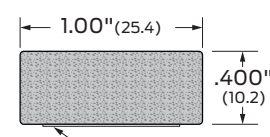
PSA standard.

### 318N



Finishes: BK  
Options: PSA, ZAG

### 3708N



Finishes: BK  
Options: PSA, ZAG

See Weatherstripping Accessories & options page for details.

#### Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

#### Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing



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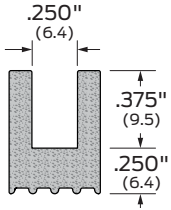
## Weatherstripping

## Self-adhesive weatherstripping

## Closed cell sponge neoprene seals (cont.)

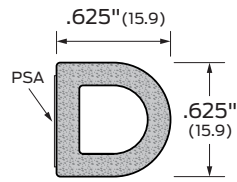


## 2070N



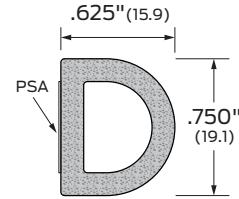
Finishes:  
BK

## 810N



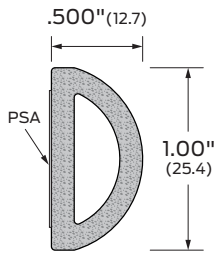
Finishes: Options:  
BK ZAG  
PSA standard.

## 811N



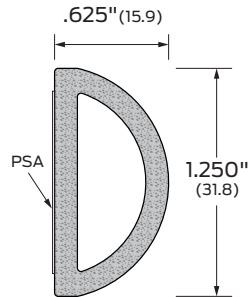
Finishes: Options:  
BK ZAG  
PSA standard.

## 812N



Finishes: Options:  
BK ZAG  
PSA standard.

## 813N

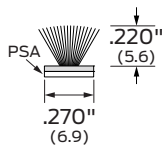


Finishes: Options:  
BK ZAG  
PSA standard.



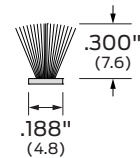
## Pile brush seals

## 137P



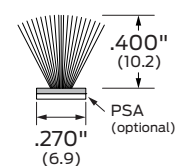
Finishes:  
BK, GY  
Also suitable for glass door application -- see Specialized Solutions. PSA standard.

## 8136P



Finishes:  
GY

## 34P



Finishes: Options:  
BK, GY PSA

See Weatherstripping Accessories & options page for details.

## Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

## Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing



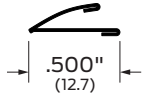
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# Weatherstripping for doors and windows

## Cushion-spring seals for wood doors and frames

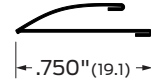
18



Finishes: ANSI/BHMA:  
B 18B R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring.

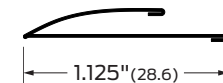
19



Finishes: ANSI/BHMA:  
B 19B R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring.

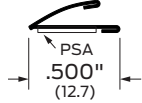
19W



Finishes: ANSI/BHMA:  
B 19WB R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring.

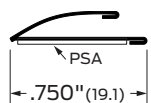
118



Finishes: ANSI/BHMA:  
B 118B R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring. PSA Standard.

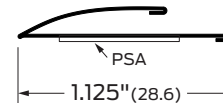
119



Finishes: ANSI/BHMA:  
B 119B R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring. PSA Standard.

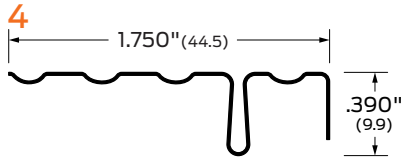
119W



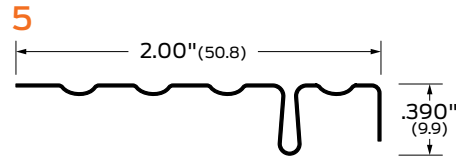
Finishes: ANSI/BHMA:  
B 119WB R1K155  
**BHMA**  
CERTIFIED

34 gauge bronze spring. PSA Standard.

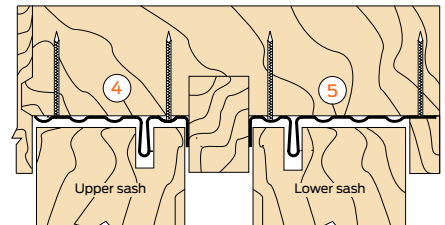
## Jamb seals for double-hung wood windows



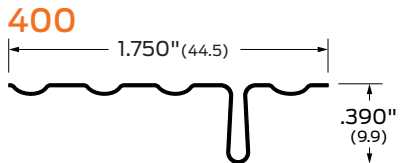
Finishes:  
B, Z



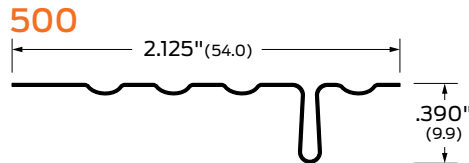
Finishes:  
B, Z



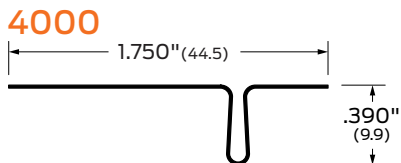
JAMB SECTION



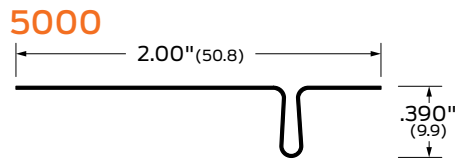
Finishes:  
B, Z



Finishes:  
B, Z



Finishes:  
B, Z



Finishes:  
B, Z



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See Weatherstripping Accessories &amp; options page for details.

## Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

## Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing

## Note:

PSA models use highest-quality foam-based, double-sided tape.

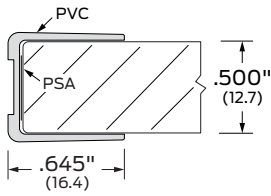
## Weatherstripping

## PSA Weatherstripping for glass doors

## PVC glass edge protection for swinging and sliding doors

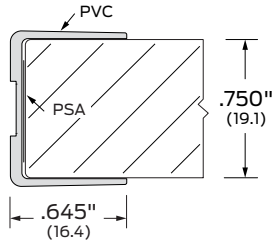


135



Finishes: ANSI/BHMA: **BHMA**  
CL 135 R0Y716  
For .450" to .500" (12.4mm) doors. PSA standard.

136



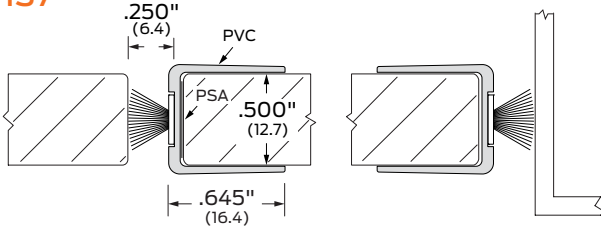
Finishes: ANSI/BHMA: **BHMA**  
CL 136 R0Y716  
For .665" to .750" (19.1mm) doors. PSA standard.



For long door pulls see IVES catalog

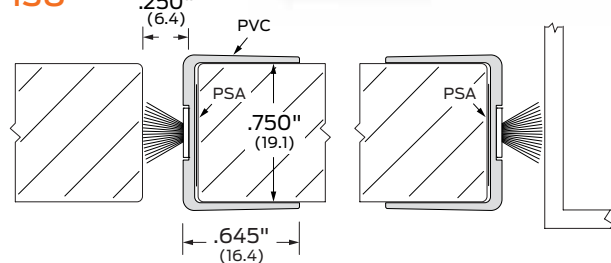
## Poly pile seals with PVC and polycarbonate housings – for swinging and sliding doors

137



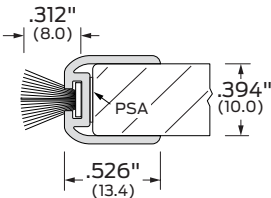
Finishes: ANSI/BHMA: **BHMA**  
CL 135 R0F716  
For .450" to .500" (12.4mm) doors. Clear housing with gray pile brush. PSA standard.

138



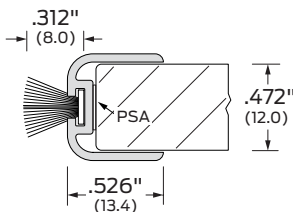
Finishes: ANSI/BHMA: **BHMA**  
CL 138 R0F716  
For .655" to .750" (19.1mm) doors. Clear housing with gray pile brush. PSA standard.

8136



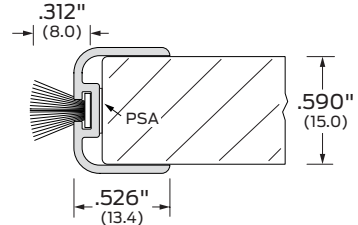
Finishes: ANSI/BHMA: **BHMA**  
CL 8136 R0F716  
For .325" to .394" (10mm) thick doors. Clear housing with gray pile brush. PSA standard.

8137



Finishes: ANSI/BHMA: **BHMA**  
CL 8137 R0F716  
For .425" to .472" (12mm) thick doors. Clear housing with gray pile brush. PSA standard.

8138



Finishes: ANSI/BHMA: **BHMA**  
CL 8138 R0F716  
For .535" to .590" (15mm) thick doors. Clear housing with gray pile brush. PSA standard.

See Weatherstripping Accessories &amp; options page for details.

## Finishes:

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

## Options:

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing



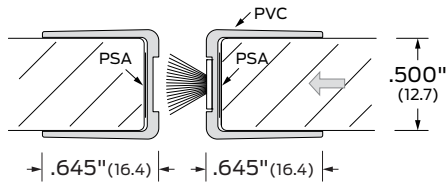
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# PSA Weatherstripping for glass doors

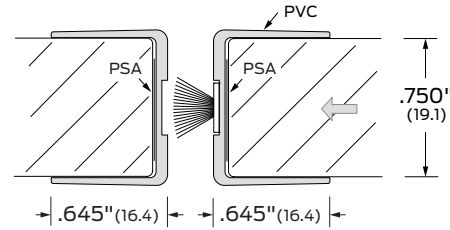
## Edge protection for glass sliding doors

### 135/137



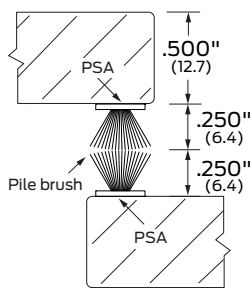
PVC housing and poly pile brush seal for .500" (12.4mm) doors. PSA standard.

### 136/138



PVC housing with neoprene seal. PSA standard. Min door gap .250", max door gap .340"

### 137P

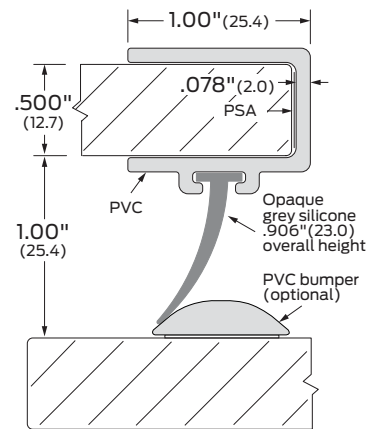


**Finishes:**

BK, GY

Poly pile brush seal for .500" (12.4mm) doors. PSA standard.

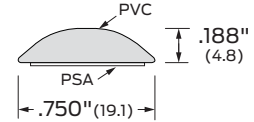
### 9137



**Finishes:** ANSI/BHMA: 9137 ROE716 BHMA CL

For .500" (12.4mm) doors. Application with #9131 PVC bumper. PSA standard. Min door gap .500", max door gap 1" when used without bumper or 1.2" when used with 9131 bumper.

### 9131



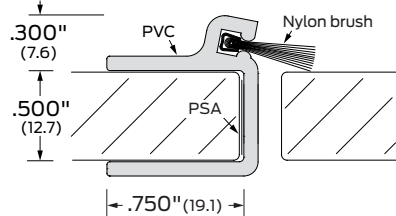
**Finishes:**

CL

PVC bumper, PSA standard.

## Astragals for swinging doors

### 133

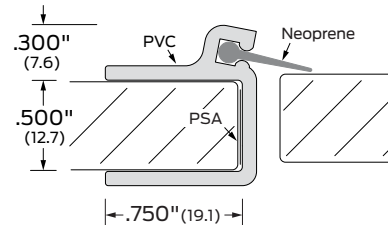


**Finishes:**

CL

PVC housing with black nylon brush. PSA standard. Min door gap .125", max door gap .250"

### 134



**Finishes:** ANSI/BHMA: 134 ROB716 CL

PVC housing with neoprene seal. PSA standard. Min door gap .125", max door gap .250"

See Weatherstripping Accessories & options page for details.

**Finishes:**

**BK** Black  
**BR** Brown  
**CL** Clear  
**GY** Gray  
**WH** White  
**B** Architectural mill finish bronze  
**Z** Mill finish Zinc

**Options:**

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing



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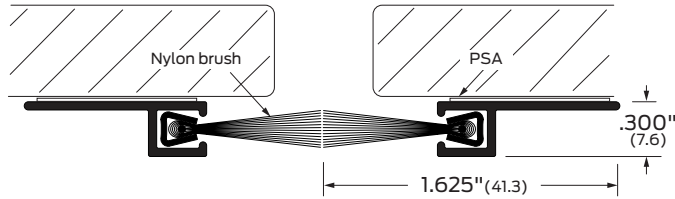
## Weatherstripping

## PSA Weatherstripping for glass doors

Glass door meeting stiles—surface mounted self-adhesive, both doors active



## 8192

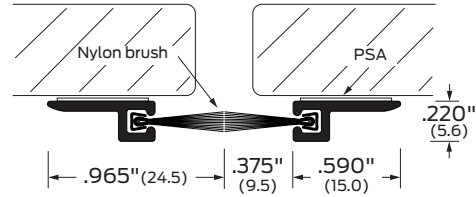


**Finishes:** AA, BK, D, G    **Options:** PSA    **ANSI/BHMA:** 8192AA-PSA, 8192BK-PSA, 8192D-PSA, 8192G-PSA    R3A735



Min door gap .375", max door gap 1"

## 8193

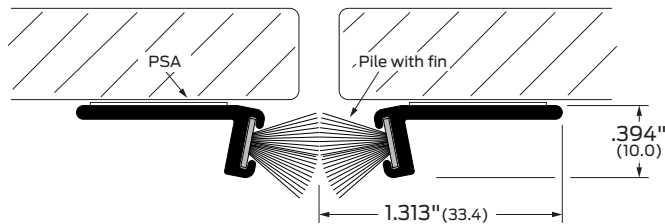


**Finishes:** AA, BK, D, G    **Options:** PSA    **ANSI/BHMA:** 8193AA-PSA, 8193BK-PSA, 8193D-PSA, 8193G-PSA    R3A735



Min door gap .250", max door gap .700"

## 98

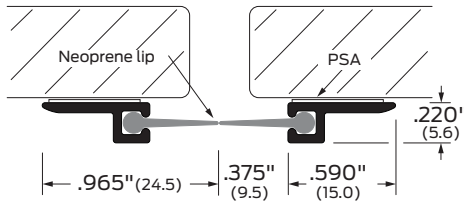


**Finishes:** A, BK, D, G    **Options:** PSA    **ANSI/BHMA:** 98AA-PSA, 98BK-PSA, 98D-PSA, 98G-PSA    R3F735



Min door gap .250", max door gap .625"

## 8194



**Finishes:** AA, BK, D, G    **Options:** PSA    **ANSI/BHMA:** 8194AA-PSA, 8194BK-PSA, 8194D-PSA, 8194G-PSA    R3B735



Min door gap .250", max door gap .700"



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See Weatherstripping Accessories &amp; options page for details.

**Finishes:**

**AA** Aluminum clear anodized  
**BK** Aluminum black anodized  
**D** Aluminum dark bronze anodized  
**G** Aluminum gold anodized

**Options:**

**PSA** Pressure-sensitive adhesive  
**ZAG** Ligature-resistant gasketing

**Note:**

PSA models use highest-quality foam-based, double-sided tape.



# Solutions and specialty products

Door sealing systems



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## Solutions and specialty products

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# Zero solutions

When presented with a challenging application, turn to Zero for solutions designed to perform together for optimal results.

Piecing a solution together across multiple product and manufacturers adds time, complexity and risk. Instead, Zero offers proven solutions for a variety of applications, including: sound control, fire and smoke seals, flood barriers to ADA access systems and more.

- **Fire and smoke seal:** When a positive pressure rating is needed, turn to Zero intumescent seals that are self-extinguishing and flame retardant
- **Sound control:** For single and pairs of doors, Zero offers STC rated sound traps to improve the acoustical performance of your facility
- **ADA access:** For accessible openings Zero offers ADA access systems that minimize opening and closing force and meet ADA threshold height requirements
- **Flood barrier:** Zero's solution for flood prone areas protects from water ingress with a shield that blocks incoming flood waters

For your piece of mind, look to Zero for time proven specialty solutions designed to work together. Zero's commitment to quality and reliability ensure, that at critical moments, the systems you depend on to protect your building and its occupants will perform as intended.



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## Solutions and specialty products

## Intumescent solutions



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## Positive pressure fire solutions for doors

ZERO's many years of leadership and innovations in developing fire and smoke seals for international and U.S. positive pressure code requirements have produced top-quality components and engineered gasketing systems that meet the highest standards of design and life safely. Our expertise in intumescent technology provides special value for the entire building team spanning a wide range of fire protection applications.

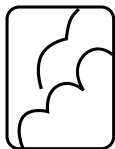
Zero's positive pressure seals are tested and listed according to U.S. listing agencies' classifications for Category G edge sealing systems and Category H smoke and draft control systems. (See listing at right for category definitions.) Category G edge seals are required for use on Category B wood core doors. Category H smoke seals are required for all positive-pressure doors carrying "S" labels.

Our intumescent material is used in OEM Category A doors to eliminate the need for add-on seals to achieve positive-pressure ratings. Smoke seals may still be required.

Products tested for fire and smoke are identified in our catalog by these symbols:



Fire-rated



Smoke-rated

## U.S. Positive pressure testing definition of listing categories

## ■ CATEGORY A

**Doors - No additional edge-sealing system required**

This category includes doors that do not require the use of any intumescent in either the frame or the door. It also includes doors evaluated with intumescent incorporated into the edge of the door by the manufacturer. Category A doors are eligible to bear the "S" label for Smoke & Draft Control assemblies if a listed Category H "Smoke & Draft Control Gasket" has been applied to the assembly.

## ■ CATEGORY B

**Doors - Additional edge-sealing system required**

This category includes doors that require add-on intumescent sealing systems either surface-applied or built into the frame in order to meet positive-pressure fire test requirements. Category B doors are eligible to bear the "S" label for Smoke & Draft Control assemblies if a listed Category H "Smoke & Draft Gasket" has been applied to the assembly.

## ■ CATEGORY G

**Edge-sealing systems**

This category includes systems that are surface-applied (such as kerf applied, adhesive backed or mechanically attached) to frames or doors. It includes meeting edge seals for use in pair and double-egress assemblies.

## ■ CATEGORY H

**Smoke and draft control gasketing**

This category includes gasket systems that are surface-applied (such as kerf applied, adhesive backed or mechanically attached) to frames or doors. It includes gasketing for the meeting edge for use in pair and double-egress assemblies.

NOTE: This category covers gasket systems that have been evaluated for use in positive-pressure-rated assemblies but do not "provide" an edge-sealing system to the opening (see Category G).

## Testing and compliance

| U.S.            |                                                                                  | International                                                         |                                                                                               |
|-----------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>UL 10B</b>   | Standard for fire tests of door assemblies                                       | <b>CAN/ULC-S104-10</b>                                                | Canadian standard method for fire tests of door assemblies.                                   |
| <b>UL 10C</b>   | Standard for positive pressure fire tests of door assemblies                     | <b>International Standards Organization ISO 3008 2007</b>             | Fire-resistance tests - door and shutter assemblies                                           |
| <b>UL 1784</b>  | Standard for air leakage tests of door assemblies and other opening protectives. | <b>British standard institute BS 476-PART 22 1987</b>                 | Methods for determination of the fire resistance of non-load bearing elements of construction |
| <b>IBC 2018</b> | International building code                                                      | <b>British standard institute BS 476-PART 31 1983</b>                 | Methods for measuring smoke penetration through doorsets and shutter assemblies               |
| <b>NFPA 105</b> | Standard for the installation of smoke door assemblies                           | <b>BS EN 1634</b>                                                     | Fire-resistance tests for door and shutter assemblies                                         |
| <b>NFPA 252</b> | Standard methods of fire tests of door assemblies                                | <b>Building and regulatory test Australia / New Zealand AS 1530.4</b> | Fire resistance test                                                                          |



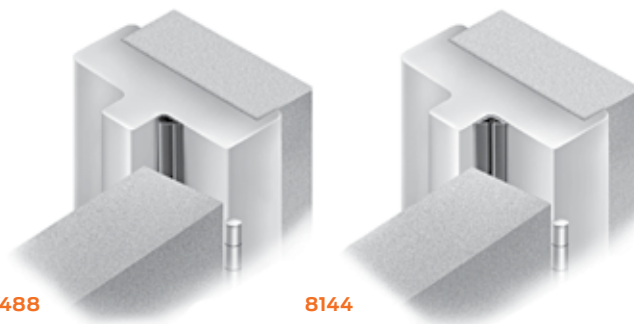
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Solutions and specialty products

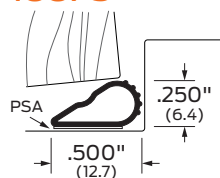
# Intumescent solutions

## Category G and Category H seals

Our extruded, surface-applied fire and smoke seals are engineered for improved performance and shelf life. These self-extinguishing, flame-retardant seals are formulated with a proprietary chemistry using silicone and intumescent.



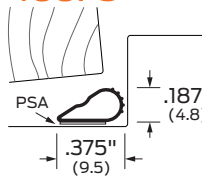
### 188FS



Finishes: BK Options: ZAG ANSI/BHMA: 188FS-PSA-BK ROU154

Intumescent rubber for fire and smoke protection. PSA standard. 45-minute fire rating.

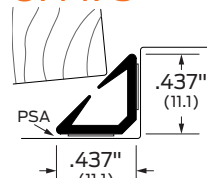
### 488FS



Finishes: BK Options: ZAG ANSI/BHMA: 488FS-PSA-BK ROU154

Intumescent rubber for fire and smoke protection. PSA standard.

### 8144FS



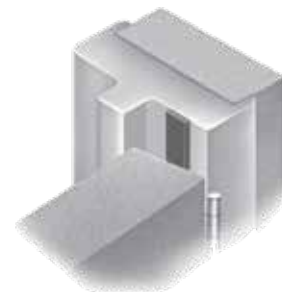
Finishes: BK Options: ZAG ANSI/BHMA: 8144FS-BK ROU154

Intumescent rubber for fire and smoke protection. PSA standard.

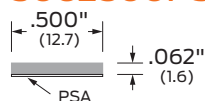
## Head & jamb FS3003 intumescent seals

Intumescent fire seals for use where smoke and draft control is not required. Can be mortised into wood doors or frames, or into edge strips. Wide range of choices tested to positive pressure standards, including UL 10C and BS 476-Part 22 1987.

Available in black color. Supplied in 8 feet (2.4m) coil.

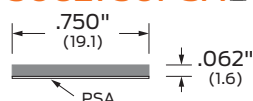


### 3062500PSA



Provides 30 minutes fire resistance. Two parallel seals can provide 60 minutes fire resistance in hardwood constructions.

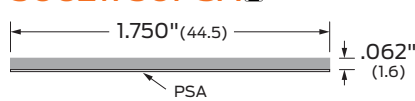
### 3062750PSA



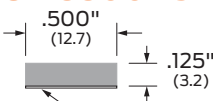
### 30621000PSA



### 30621750PSA

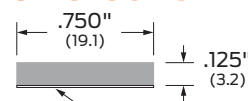


### 3125500PSA



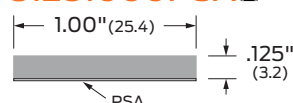
Suitable for softwood constructions or where the gap between the door and the frame is greater than usual.

### 3125750PSA



Provides 60 minutes fire resistance. Can be notched to fit around hinges.

### 31251000PSA



Larger seal helps control door distortion. May also be used between the door frame and masonry.

### 3250750PSA



### 32501000PSA



## Solutions and specialty products

# Intumescent technology & firestopping solutions



## Intumescent material definitions and physical properties

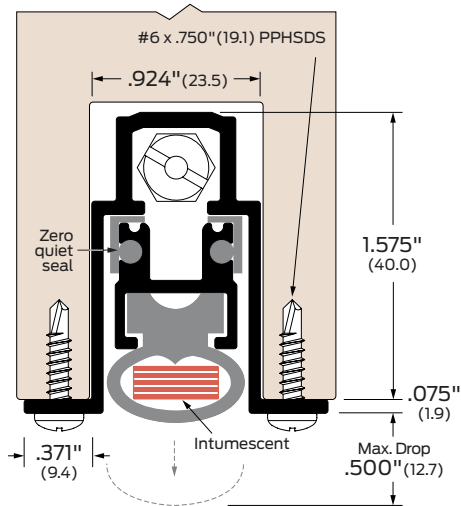
|                                 | FS3003               | FS4004              |
|---------------------------------|----------------------|---------------------|
| Activation Temperature          | 350°F (176°C)        | 550°F (288°C)       |
| Expansion volume                | 16-18 X              | 80 X                |
| Expansion pressure              | 27 PSI (.0187 N/mm ) | 131 PSI (.09 N/mm ) |
| Multi or controlled directional | ✓                    | ✓                   |
| Stability after expansion       | Very good            | Poor                |
| Char                            | Soft & fluffy        | Fluffy              |
| Flame-resistant                 | ✓                    | ✓                   |
| Moisture-resistant              | ✓                    | ✓                   |
| Chemically inert /paintable     | ✓                    | ✓                   |
| Non-carcinogenic                | ✓                    | ✓                   |
| Long-life (no deterioration)    | ✓                    | ✓                   |
| Odor-free                       | ✓                    | ✓                   |
| Color – standard                | Black                | Red                 |

## Specifications:

**Stock Sizes:** Thickness .062"(1.6), .125"(3.2), .250"(6.4)  
Width .375"(9.5), .500"(12.7), .750"(19.1), 1.00"(25.4), 1.75"(44.5), 2.00"(50.8)

## Intumescent automatic door bottoms

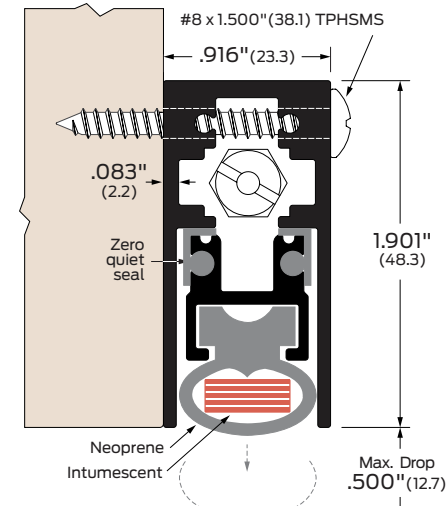
## 364FS



**Finishes:** AA  
**Options:** Z49, PL  
**ANSI/BHMA:** 364FS-AA R3B324  
**BHMA CERTIFIED**

Mortised. Intumescent fire protection.

## 365FS



**Finishes:** AA, BK, D, G  
**Options:** LK, PL, SEC  
**ANSI/BHMA:** 365FS-AA, 365FS-BK, 365FS-D, 365FS-G R3B334  
**BHMA CERTIFIED**

Surface-mounted application. Intumescent fire protection.

## Finishes:

**AA** Clear Anodized Aluminum  
**BK** Black Anodized Aluminum  
**D** Dark Bronze Anodized Aluminum  
**G** Gold Anodized Aluminum

## Options:

**Z49** Removable end cap  
**PL** Pull out  
**SEC** Torx security screws  
**LK** Locking key



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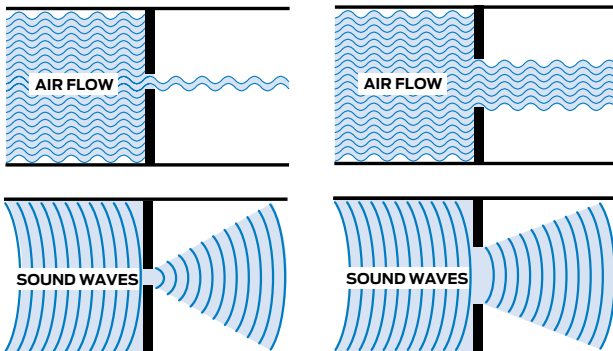
# Sound control solutions

ZERO's SOUND TRAP sound control systems are solving sound problems in all types of facilities—including performing arts centers, recording studios, commercial offices, hospitals, schools, churches, hotels and apartment buildings, as well as industrial plants, embassies and government buildings.

## Adjustable gasketing: key to our success

Nobody does sound control better than ZERO. Our sound seals and systems are built to withstand the stress of the installation process and perform reliably. We use advanced technology to master two critical challenges: creating an effective sound barrier at the perimeter of the door AND preventing gaps in that barrier for the life of the assembly.

Gaps in sound barriers are a major problem because sound travels through any opening with very little loss. While the amount of air flowing through a gap increases in proportion with the size of the gap, the size of the gap in a sound barrier does not matter. A small hole transmits almost as much sound as a much larger gap.



Because of this phenomenon, any unsealed gaps effectively cancel out the noise reduction benefits of even the highest-rated sound doors. To be effective, acoustical door assemblies require gasketing that provides a **complete, uninterrupted and air-tight** seal around head, jamb and sill. If all sides of the door are not sealed, the gasketing used will provide little or no sound-control value.

Imperfect alignment is a common cause of gaps even in newly installed gasketing. Problems can also surface later on as buildings shift and settle and doors cycle through changes in temperature and humidity. ZERO solves the problem efficiently with adjustable gasketing.

Models such as the **770 adjustable jamb-applied gasket** are designed to perform consistently over time. When clearances increase, a few turns of a screwdriver is all it takes to restore a sound-tight seal.

## Proven solutions for sealing the gaps

Our featured SOUND TRAP gasketing systems can satisfy a wide range of commercial and industrial sound-control applications for single swinging doors – as well as provide privacy behind double doors for typical office applications.

## Sound transmission class (STC) table

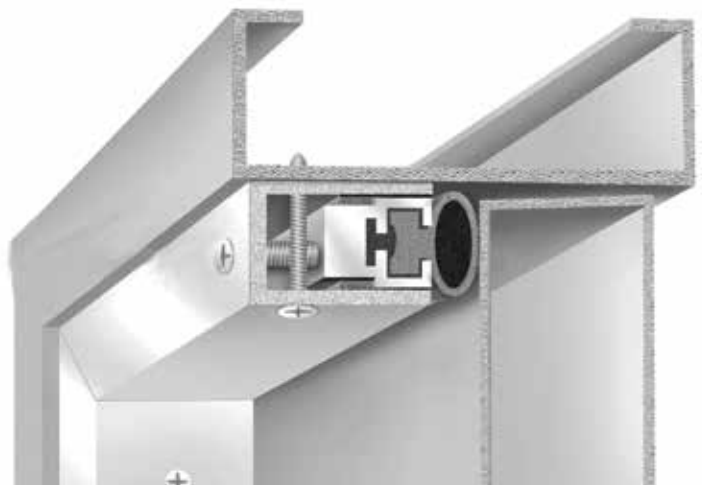
| STC     | Performance | Description                                     |
|---------|-------------|-------------------------------------------------|
| 50 - 60 | Excellent   | Loud sounds heard faintly or not at all.        |
| 40 - 50 | Very Good   | Loud speech heard faintly but not understood.   |
| 35 - 40 | Good        | Loud speech heard but hardly intelligible.      |
| 30 - 35 | Fair        | Loud speech understood fairly well.             |
| 25 - 30 | Poor        | Normal speech understood easily and distinctly. |
| 20 - 25 | Very Poor   | Low speech audible.                             |

Sound Transmission Class (STC) ratings indicate the ability to prevent the transfer of sound from one area to another. For example, 12 inches of reinforced concrete would be rated at 56 STC, while 1/4" plate glass is 26 STC.

## Zero sound trap systems high level rating

| Gasketing system | Head & jamb  | Threshold | Door bottom | STC Rating |
|------------------|--------------|-----------|-------------|------------|
| STC 1            | 3708 & 119WB | 564B      | 367         | 53 STC     |
| STC 2            | 770 & 119WB  | 564B      | 367         | 52 STC     |
| STC 3            | 770 & 119WB  | 656B      | 367         | 51 STC     |
| STC 4            | 170 & 119WB  | 564B      | 367         | 51 STC     |
| STC 5            | 485 & 119WB  | 565B      | 361         | 49 STC     |
| STC 6            | 870 & 119WB  | 564B      | 365         | 49 STC     |

All systems tested with STC 55 Doors (rated as panels).



The integrity of the system, properly installed, is essential to its sound rating. ZERO guarantees the performance of SOUND TRAP systems in rated assemblies provided that other manufacturers' gasketing products are not combined with ZERO components.

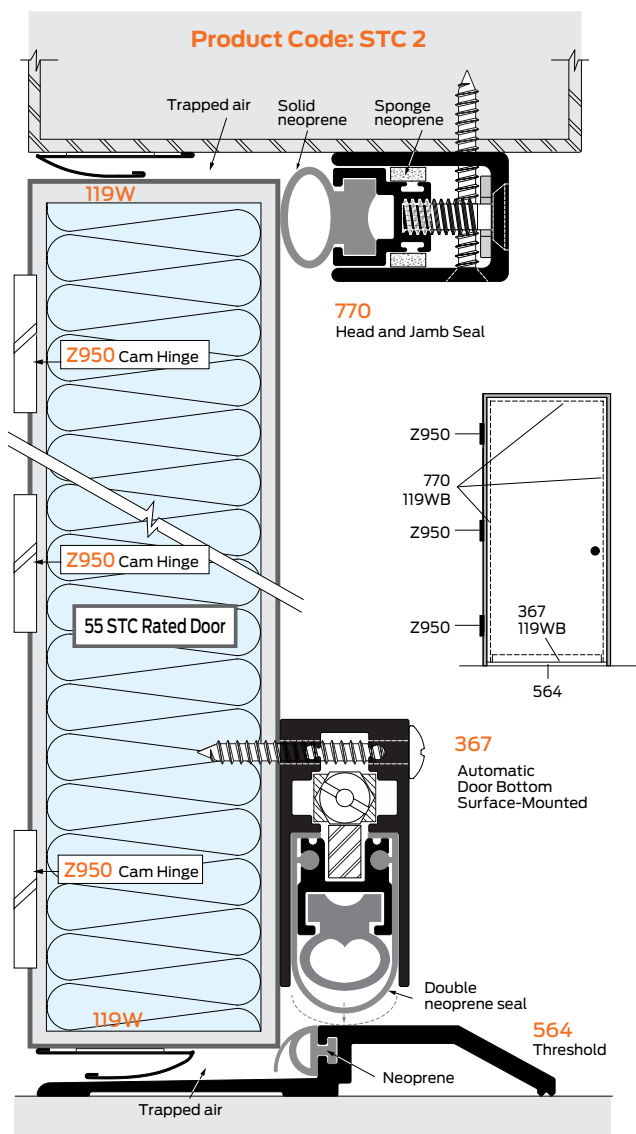
## Solutions and specialty products

## Sound control solutions – single door



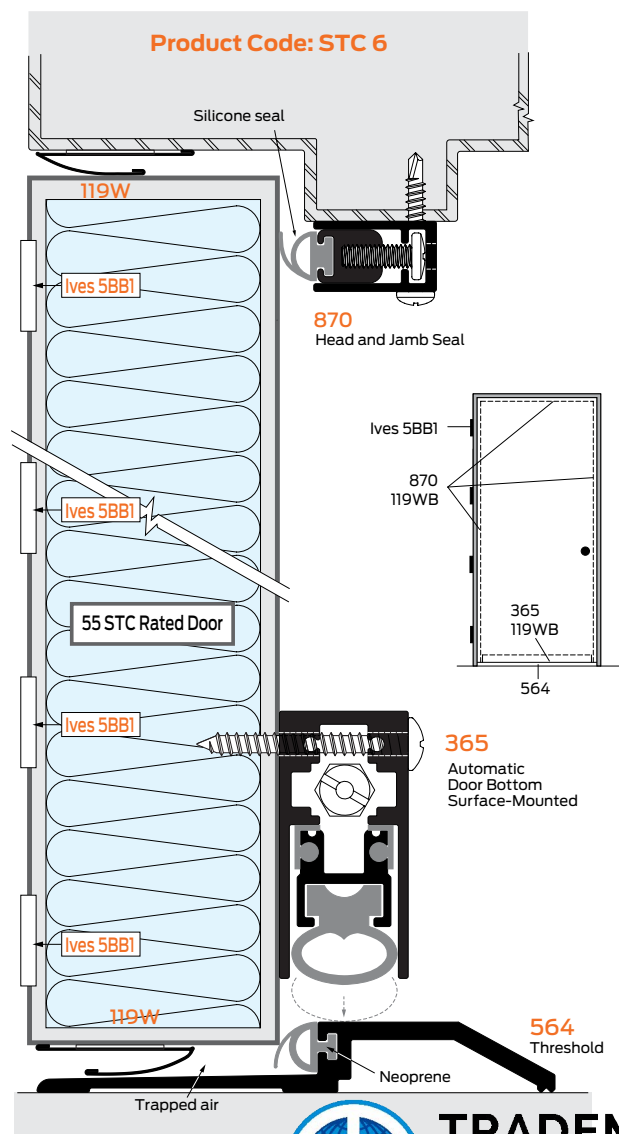
## Sound trap 52 STC sealing system

Our SOUND TRAP 52 STC rated systems are designed for use with sound-rated single metal doors with a cased-opening frame. They provide an STC 52 rating when properly fitted with STC 55 or higher acoustical doors. That level of sound control means loud sounds will be heard only faintly, or not at all, on the opposite side of the door, which satisfies the typical needs of recording studios and performance halls. It is also suitable for office buildings and other commercial facilities that need to mute very loud noise originating from outside, such as the sound of aircraft overhead or heavy traffic nearby, as well as interior equipment noise. A metal frame **without a stop** is recommended in order to use the Model #770 adjustable head and jamb seal, which is an important component in this system.



## Sound trap 49 STC sealing system

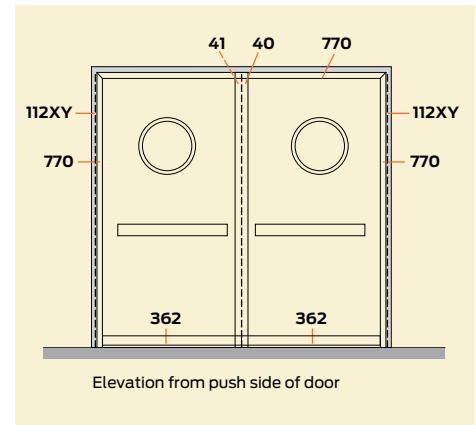
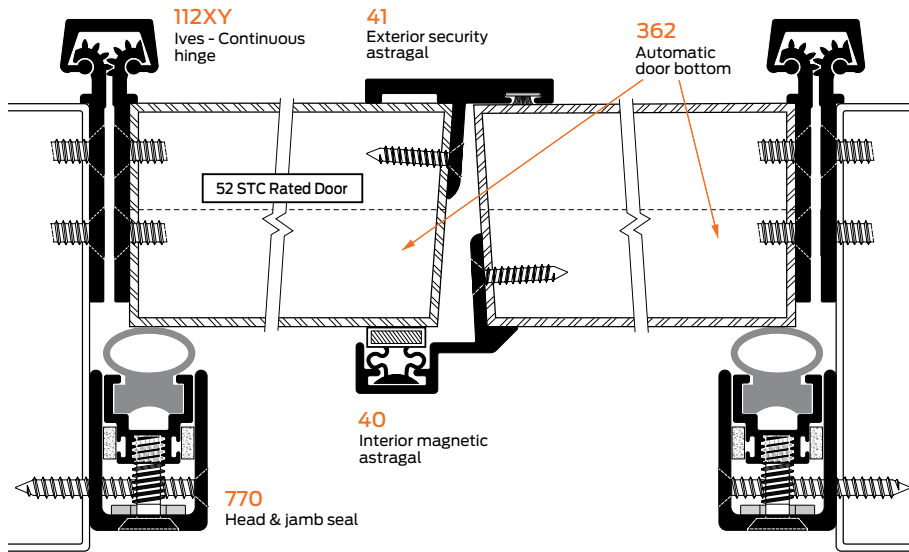
SOUND TRAP 49 STC rated systems for single doors feature several alternative head and jamb seals designed for use with frame stops. The 49 STC value they provide means that loud speech will be heard only faintly and cannot be understood on the opposite side of the door. That level of acoustic performance provides very good sound control suitable for a variety of applications ranging from busy schools to multi-family residential buildings and any settings requiring private conversations, such as doctors' offices, counseling centers and churches. A metal frame **with a stop** is recommended.



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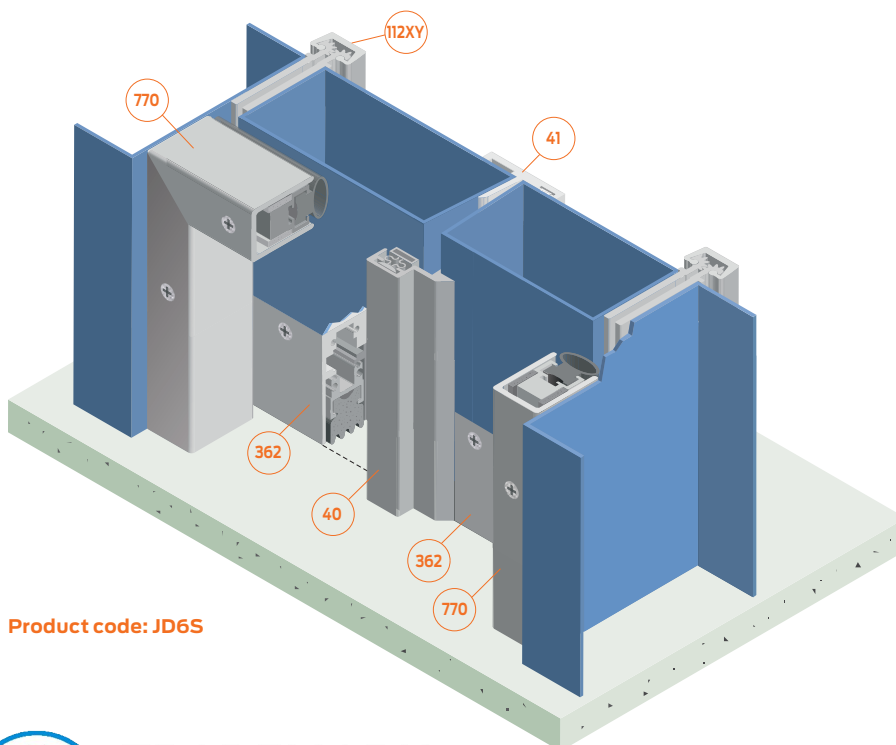


# Sound control solutions – pairs systems

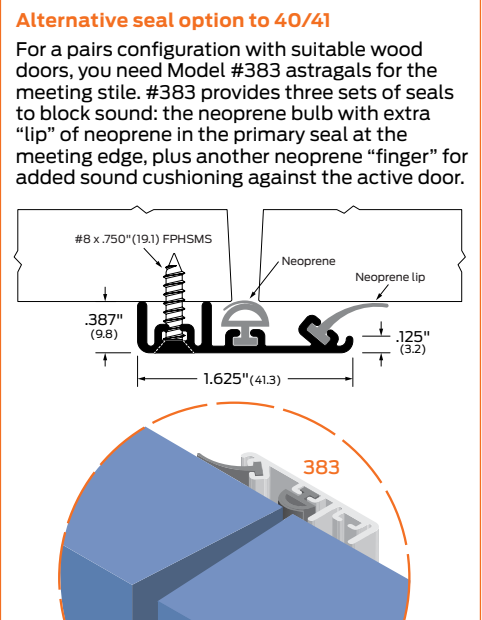


## Sound trap system JD6S

Pairs of doors pose additional challenges for sound control because there are more openings to seal. The need for a meeting stile means there will always be relatively more sound leakage through pair assemblies than with single doors. Properly fitted with STC 52 or higher acoustical doors, ZERO's **SOUND TRAP-PAIRS** system for metal doors achieves an office-friendly estimated STC rating of 41 with an optimal configuration that balances those limitations with appropriate, cost-effective technology.



Product code: JD6S

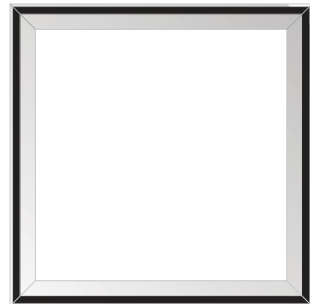


## Solutions and specialty products

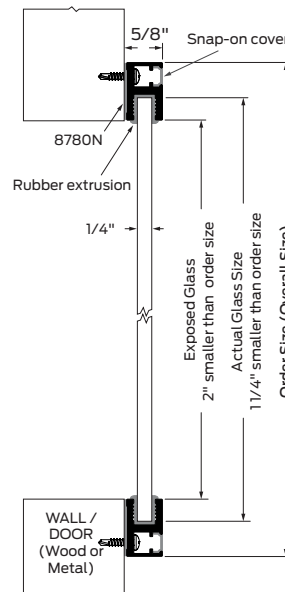
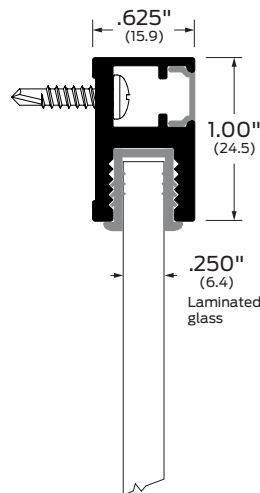
## Sound control solutions

**8880 - Vision Lite for doors, walls and acoustical windows**

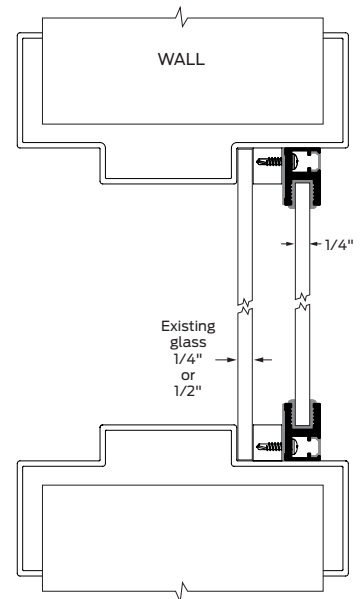
To increase sound rating for doors, walls and acoustical windows of any thickness. Used with 1/4" thick glass. (Glass sold separately.) Aluminum extrusion frame with concealed screws. Supplied with factory mitered corners.

**8880**

Finishes:  
AA, BK, D, G



- **APPLICATION ON DOOR**  
Surface mounted.



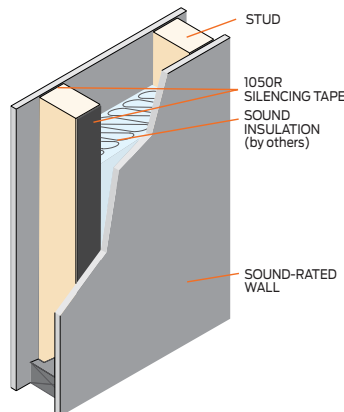
- **APPLICATION ON WINDOW**  
Surface mounted on any edge of window frames.

**Structural acoustics - floors and walls**

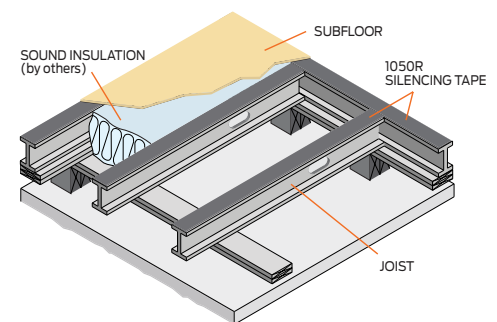
Sound-damping materials and products used to isolate or insulate structural elements in floors and walls perform a vital role in reducing vibrations to minimize sound transmission.

**Structural silencing tape 1050R**

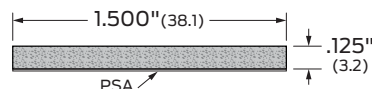
- Extruded low-density, high-elasticity neoprene rubber, self-adhesive one side.
- Absorbs and dampens vibrations.
- Designed for application to floor joists and wall studs and install as usual.
- Supplied in 75-foot coils.



- **APPLICATION ON WALL STUDS**



- **APPLICATION ON FLOOR JOISTS**

**1050R**

Finishes:  
Grey

## Finishes:

- AA** Clear Anodized Aluminum
- BK** Black Anodized Aluminum
- D** Dark Bronze Anodized Aluminum
- G** Gold Anodized Aluminum



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# Sound control systems

ZERO has designed and tested its systems against air, light, smoke, fire and sound to demonstrate the effectiveness of these products and materials. By specifying a complete "Control System," you are assured that the components installed for head, jamb and sill will perform properly together. All tests were performed in accordance with nationally accepted standards by independent laboratories.

## Sound - single doors

| System no. | Door rating | Type of door | Head & jamb  | Door bottom | Threshold | STC |
|------------|-------------|--------------|--------------|-------------|-----------|-----|
| STC1       | 55          | Metal        | 3708 + 119WB | 367         | 564B      | 53  |
| STC2       | 55          | Metal        | 770 + 119WB  | 367         | 564B      | 52  |
| STC3       | 55          | Metal        | 770 + 119WB  | 367         | 656B      | 51  |
| STC4       | 55          | Metal        | 170 + 119WB  | 367         | 564B      | 51  |
| STC5       | 55          | Metal        | 485 + 119WB  | 361         | 565B      | 49  |
| 1T         | 52          | Metal        | 770          | 367         | 564A      | 47  |
| 2T         | 52          | Metal        | 870          | 361         | 565       | 44  |
| 2U         | 52          | Metal        | 485          | 361         | 565       | 44  |
| 1R         | 51          | Metal        | 770          | 361         | 565       | 44  |
| 4R         | 51          | Metal        | 370          | 361         | 565       | 43  |
| 5S         | 52          | Metal        | 328          | 361         | 565       | 42  |
| 5T         | 52          | Metal        | 312          | 351         | 564       | 42  |
| SU299      | 38          | Wood         | 188S         | None        | 564A      | 37  |
| TR298      | 35          | Wood         | 8144FS       | 253         | 1685R     | 35  |
| LG302      | 36          | Wood         | 188S         | 369         | None      | 35  |

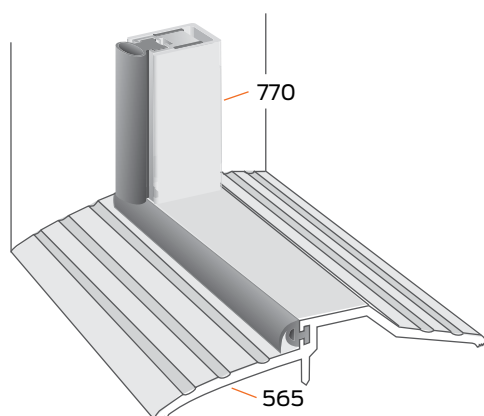
## Sound - double doors

| System no. | Door rating | Type of door | Head & jamb | Door bottom | Meeting stiles | STC |
|------------|-------------|--------------|-------------|-------------|----------------|-----|
| RM1        | 48          | Metal        | 770         | 367         | 383/139/118B   | 47  |
| JD6S       |             | Metal        | 770         | 362         | 40             | 41  |
| JD8S       |             | Metal        | 475         | 362         | 156/56         | 36  |
| AT4        | 37          | Metal        | 188/119WB   | 564         | 383            | 36  |
| AT5        | 37          | Metal        | 485/119WB   | 564         | 383            | 35  |
| AT7        | 37          | Metal        | 485/119WB   | 839/544     | 383            | 35  |

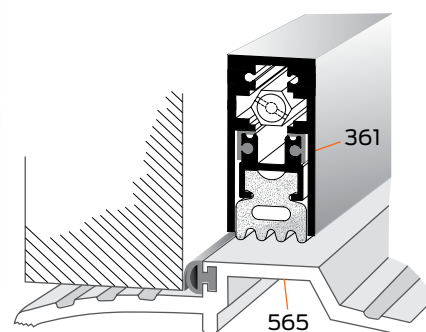
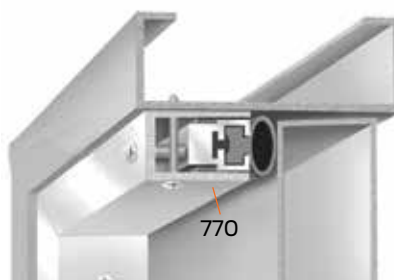
## Applications

All types of openings with a sound-reduction requirement, including:

- High-performance sound blocking, such as recording and broadcast studios, theaters and concert halls, commercial industrial factories.
- Privacy and security needs, such as doctors' offices, corporate offices, school counseling offices, embassies and military.



System 1R



## Solutions and specialty products

# Specialty head and jamb protection

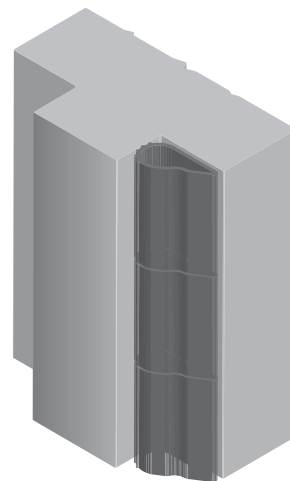
## Ligature-resistant gasketing (ZAG option)



Zero offers a ligature-resistant option to prevent gasketing from being used for unintended purposes, including harming self or others. The rubber in our patented ligature-resistant gasketing is scored before insertion into aluminum extrusions. This allows the seal to still function normally for its specified purpose, but it will now break apart if removed from the housing or if any weight is placed on the seal.

Applications for ligature-resistant gasketing include correctional facilities and mental health facilities.

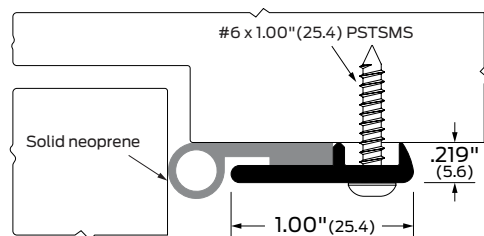
Gasketing ordered with this patented feature is installed as usual, with no special handling required. In addition to the applications shown below, the ligature-resistant option can be supplied on request with most other Zero gasketing. To order, add ZAG to the part number. All products with the ZAG option are supplied standard with Torx security screws for added security.



### Applications

Correctional facilities, hospitals, psychiatric and mental health facilities.

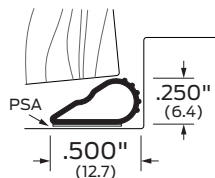
### 328 ZAG



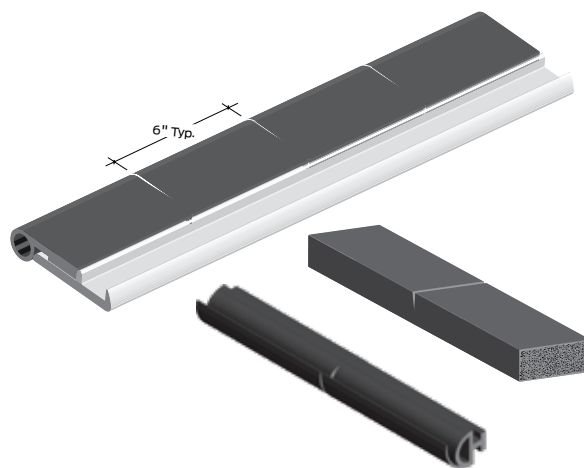
Finishes:  
AA, B, BK,  
D, G



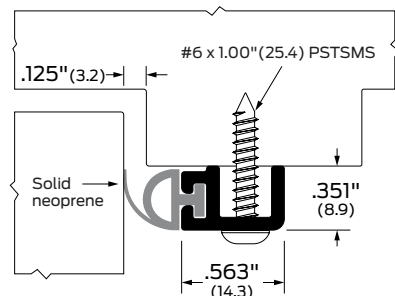
### 188 ZAG



Finishes:  
BK, BR, CL, GY,  
WH, FS, BIO



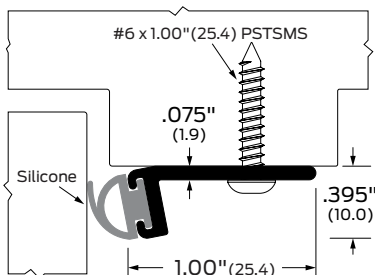
### 485 ZAG



Finishes:  
A, BK, D, G



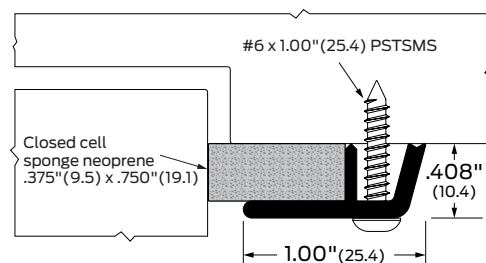
### 99 ZAG



Finishes:  
A, BK, D, G



### 318 ZAG



Finishes:  
AA, BK, D, G



#### Finishes:

**BIO** Antibacterial rubber white color  
**A** Aluminum Mill Finish  
**AA** Clear Anodized Aluminum  
**B** Bronze  
**BK** Black Anodized Aluminum  
**D** Dark Bronze Anodized Aluminum

**G** Gold Anodized  
**S-BK** Silicone, Black  
**S-BR** Silicone, Brown  
**S-CL** Silicone, Clear  
**S-GY** Silicone, Gray  
**S-WH** Silicone, White

#### Options:

**ZAG** Ligature-Resistant



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# Cam lift full mortise hinges

## Cam lift full mortise hinges

Mortise-type cam hinges for use with sound-insulating doors utilizing acoustical seals. The cam action greatly improves the sealing characteristics along the door perimeter, lifting and lowering the door with the swing.

Available for right or left-hand swinging doors. Cam lift hinges will not bind door closures when doors are hung within accepted industry standards. (Tested with LCN 4041 Series original).

**Finish:** STST630 (US32D).

| Part #       | Door rating<br>(1 1/2 pairs) | Screw size (metal doors) | Lift (180° opening) |
|--------------|------------------------------|--------------------------|---------------------|
| <b>Z955</b>  | Up to 200 lbs.               | 12-24 x 3/4" UC          | 3/16"               |
| <b>Z953</b>  | Up to 300 lbs.               | 12-24 x 3/4"             | 1/4"                |
| <b>Z950</b>  | Up to 500 lbs.               | 12-24 x 3/4"             | 5/16"               |
| <b>Z9500</b> | Up to 900 lbs.               | 5/16-18 x 3/4"           | 5/16"               |



**Z950ST**  
12-24 x 3/4"



**Z955ST**  
12-24 x 3/4" UC



**Z952ST**  
5/16-18 x 3/4"

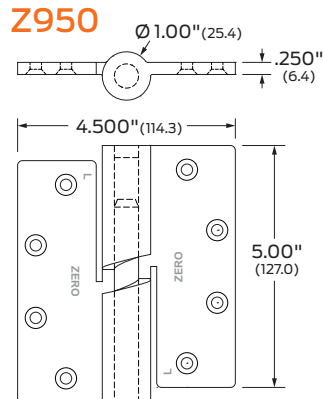


**Z951ST**  
12 x 1 1/4" SMS

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| <b>Hinge:</b>     | Stainless Steel US304                                                                         |
| <b>Pin:</b>       | Stainless Steel 420 J2                                                                        |
| <b>Type:</b>      | Mortise/ Handed - specify right or left hand                                                  |
| <b>Clearance:</b> | Minimum clearance at head of frame is 3/16". For doors greater than 1-3/4" clearance is 1/4"  |
| <b>Finish:</b>    | 630 (US32D)                                                                                   |
| <b>Note:</b>      | For Z950 and Z9500 screws must be engaged no less than .350" in ASTM A-36 steel reinforcement |



**Z950 L**

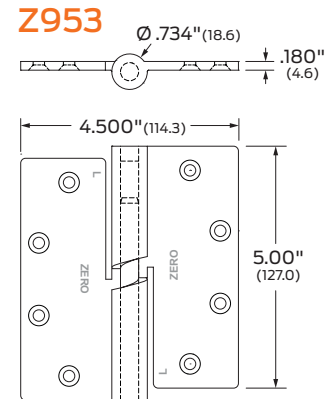


**Finishes:**  
STST

**Options:**  
L- Left Hand  
R- Right Hand



**Z953 L**

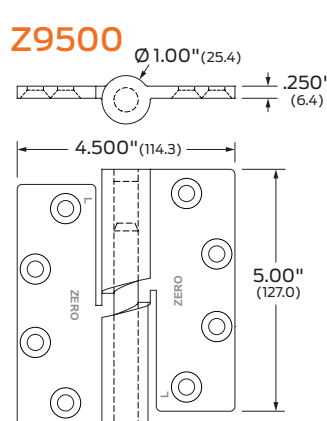


**Finishes:**  
STST

**Options:**  
L- Left Hand  
R- Right Hand



**Z9500 L**

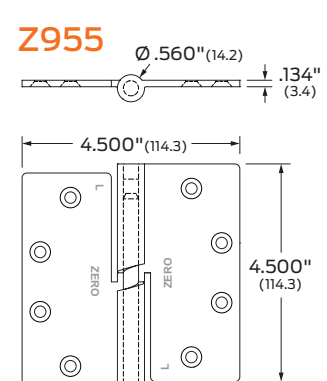


**Finishes:**  
STST

**Options:**  
L- Left Hand  
R- Right Hand



**Z955 L**



**Finishes:**  
STST

**Options:**  
L- Left Hand  
R- Right Hand



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## Solutions and specialty products

## Finger guards



## Finger guards

Hand and finger protection for heavy-duty industrial applications, child care, school safety, hospitals, and workplaces.

A commercial-quality, maintenance-free product. Aluminum and flexible rubber available in grey color.

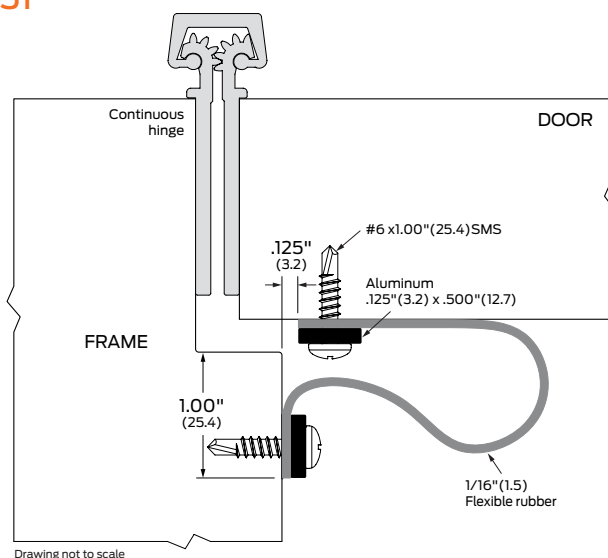
**51A-90 (6.5" wide)** For door opening up to 90°

**51A-180 (8.5" wide)** For door opening up to 180°

**951** Cover for mortise type hinges



51

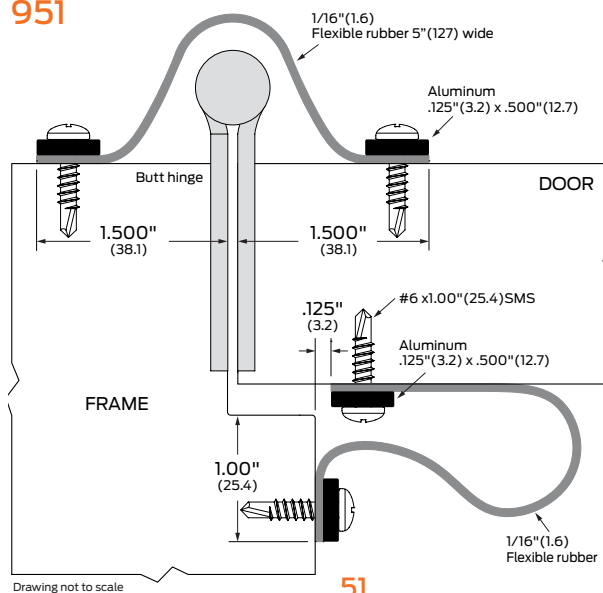


Finishes:  
A, BK, D, G

Options:  
SEC

Opening degree:  
90, 180

951

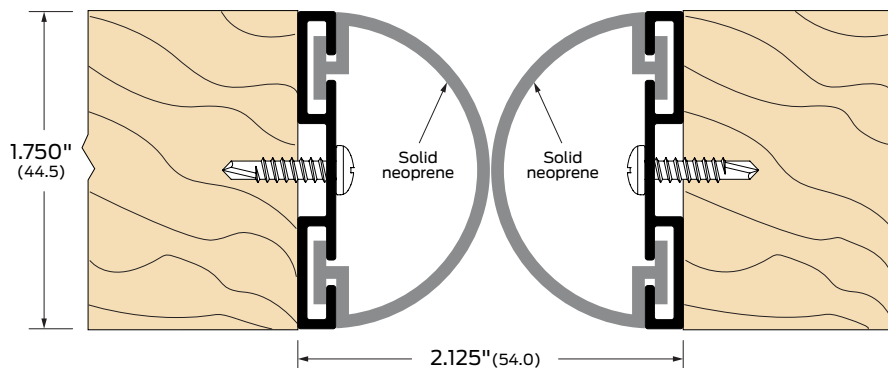


Finishes:  
A, BK, D, G

Options:  
SEC

51

72



Finishes:  
A

Options:  
SEC



## Finishes:

**A** Aluminum Mill Finish  
**BK** Black Anodized Aluminum  
**D** Dark Bronze Anodized Aluminum  
**G** Gold Anodized Aluminum

## Options:

**SEC** Torx security screws



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## BioWall™ antibacterial gasketing

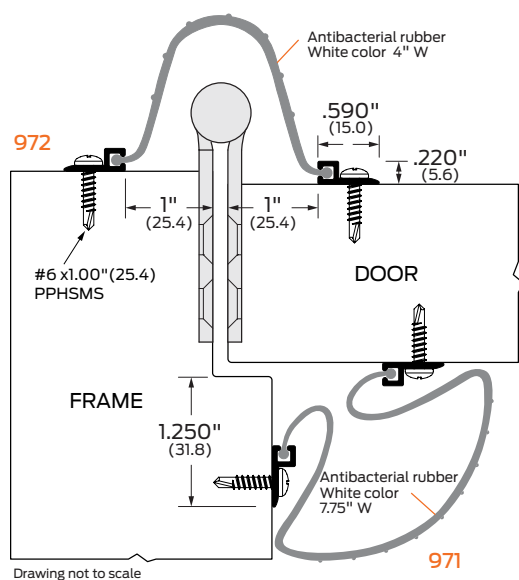
Zero developed **BioWall™ antibacterial** rubber in response to rising hygienic standards and increasing demand for practical, antimicrobial applications in many facilities. Applications range from hospitals, nursing homes and doctors' offices, to veterinary facilities, to schools. Wherever minimizing microbial exposures is crucial to occupant and visitor well-being, **BioWall** can help maintain a sanitary work environment.

**Breakthrough technology.** This non-toxic rubber inhibits and suppresses microbial growth and reproduction. It was formulated using revolutionary, non-toxic infusion technology, combined with proprietary extrusion technology, natural antimicrobial ingredients, and breakthrough synthetics. It provides long-lasting defense against bacteria, fungi, molds and other microorganisms.

**Durable.** Our technology provides natural resistance to abrasion, washing, and exposure to UV radiation and various chemicals. Zero BioWall antibacterial gasketing is designed to withstand surface wear and tear to maintain long-lasting antimicrobial protection.



### 971 / 972 Bio

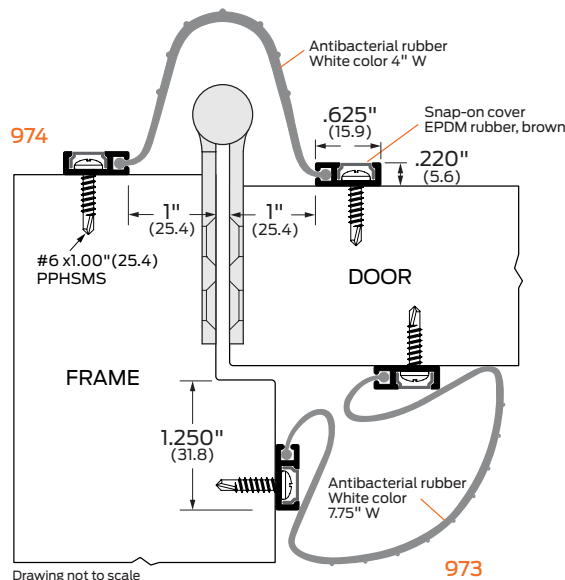


**Finishes:**  
A, BK, D, G

**Options:**  
SEC

**Opening Degree:**  
90, 180

### 973 / 974 Bio



**Finishes:**  
A, BK, D, G

**Options:**  
SEC

**Opening Degree:**  
90, 180

## BioWall finger protection

- Antibacterial hand and finger protection for child care facilities, hospitals and nursing homes, doctors' offices, and other locations requiring highest standards of hygiene.
- Available in two versions. Mountings in models #973 and #974 are concealed with additional BioWall rubber for aesthetics and enhanced antibacterial protection.

**Finishes:**  
**A** Aluminum Mill Finish  
**BK** Black Anodized Aluminum  
**D** Dark Bronze Anodized Aluminum  
**G** Gold Anodized Aluminum

**Options:**  
**SEC** Torx security screws



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## Solutions and specialty products

## ADA Access systems – safety products



ZERO's ADA Access Systems help solve the challenge of meeting the American Disability Act Requirements for access into public buildings. The components work together to minimize required door-opening and closing force and to meet threshold height requirements, and fully satisfy the ANSI, ADA standards.

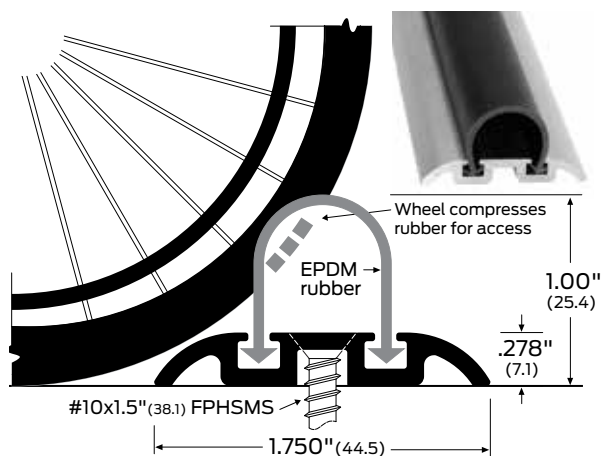
**American National Standard Institute (ANSI),  
American With Disabilities Act (ADA),  
ICC/ANSI A117.1-217**

Requirements are as follows:

- 1) Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.  
Other doors:
  - (a) Interior hinged doors : 5 lbf (22.2N)
  - (b) Sliding or folding doors : 5 lbf (22.2N)
 These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.
- 2) Thresholds at doorways shall be 1/2" (13 mm) high maximum for other types of doors. Changes in level of 1/4" (6mm) high maximum shall be permitted to be vertical. Changes in level between 1/4" (6mm) high minimum and 1/2" (13mm) high maximum shall be beveled with a slope not steeper than 1:2.

### 8452 Wheelchair accessible shower threshold

Designed for use when a shower must be accessible to a wheelchair. The rubber gasket keeps water in while allowing the wheel to pass over easily.



Finishes:  
A, BK, D, G

**Finishes:**

|           |                               |
|-----------|-------------------------------|
| <b>A</b>  | Aluminum Mill Finish          |
| <b>AA</b> | Clear Anodized                |
| <b>BK</b> | Black Anodized Aluminum       |
| <b>D</b>  | Dark Bronze Anodized Aluminum |
| <b>G</b>  | Gold Anodized Aluminum        |

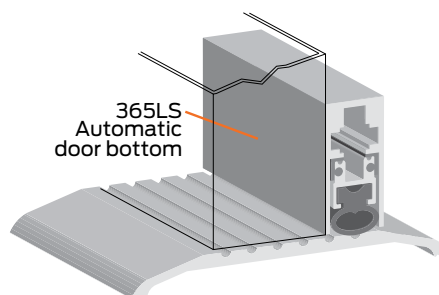
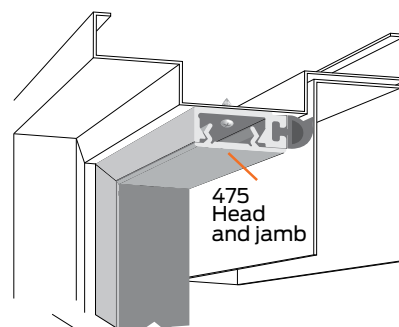
### “Light spring” “LS” automatic door bottoms for ADA approved doors

350LS, 351LS, 364LS, 365LS, 366LS “LS” models require lower operating force. “LS” models are suitable for both sliding doors and swinging doors. Outside dimensions are unchanged from standard products.

**Test door: 36" X 84" x 1-3/4"**

| Test results: |                                                  | Opening force (lbs.) | Closing force (lbs.) |
|---------------|--------------------------------------------------|----------------------|----------------------|
| Test 1        | 475 Head and Jamb                                | 1.75                 | 7.90                 |
| Test 2        | 475 Head and Jamb<br>365LS Automatic Door Bottom | 1.90                 | 9.05                 |
| Test 3        | Closing force with no seals                      | -                    | 6.75                 |

### System ADA 1000



**475 and 365LS - 1.9 lbs opening force**



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Solutions and specialty products

# Flood barrier shield

## Flood barrier shield for doors helps safeguard building contents

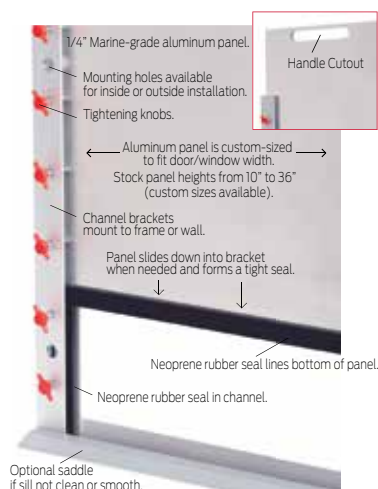
This removable barrier answers pleas from builders for help in protecting doors and building contents from water ingress in flood-prone areas. When water from heavy rain accumulates, the **Flood barrier shield** effectively blocks up to a foot or more of flood waters from permeating door or window openings.

Available in 10, 12, 20, 24, 30 and 36 inch high barriers (other sizes available upon request), the lightweight aluminum shield requires no tools for insertion into premounted vertical channels attached to either the door frame or adjacent walls. Widths up to 36" standard. Widths greater than 36" available as an engineering special.

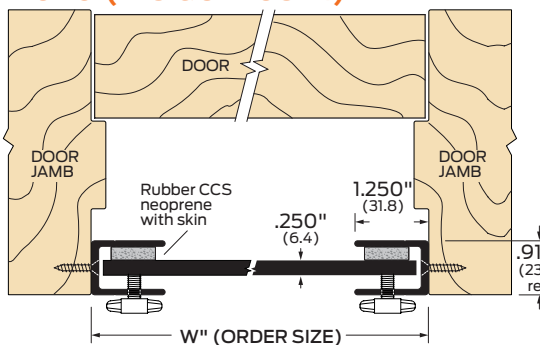
**The unit complies with guidelines of the Federal Emergency Management Agency (FEMA) and Federal Insurance Administration (FIA) for use on doors in flood-prone areas.**

The key to the shield's impermeability is the use of closed cell sponge (CCS) neoprene rubber engineered by Zero to ensure a water-tight seal. The rubber lines the aluminum channel brackets and the bottom of the shield. The neoprene also compensates for gaps at the threshold.

**Note:** Aluminum panel insert is supplied 7/16" shorter than order width



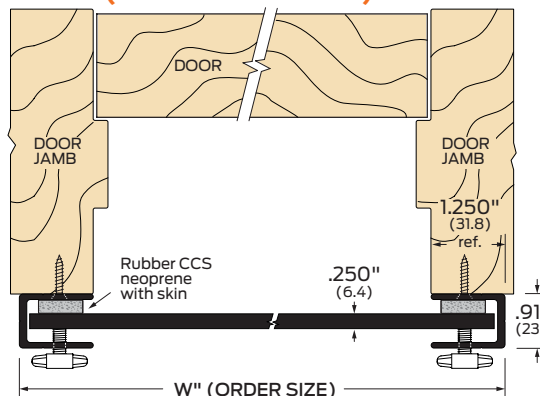
### 2070 (Inside mount)



SECTION A-A

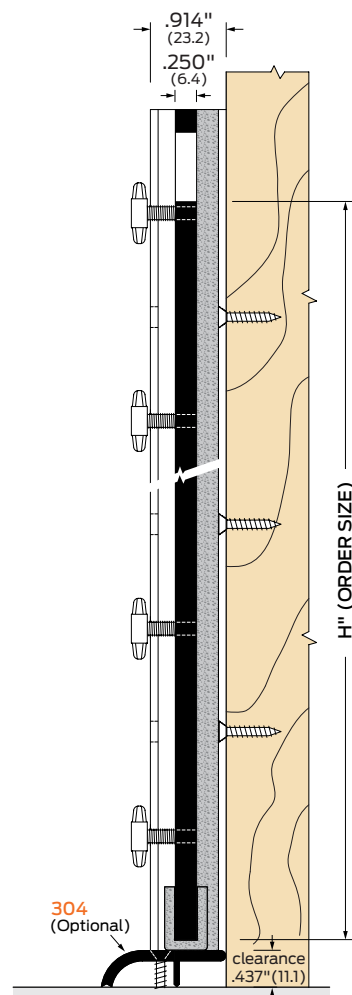
Installation option - inside mount

### 2070 (Outside mount)



SECTION A-A

Installation option - outside mount



SECTION B-B

Installation option - outside mount

## Flood barrier shield for doors

**2070A - 10** 10" High

**2070A - 20** 20" High

**2070A - 24** 24" High

**2070A - 30** 30" High

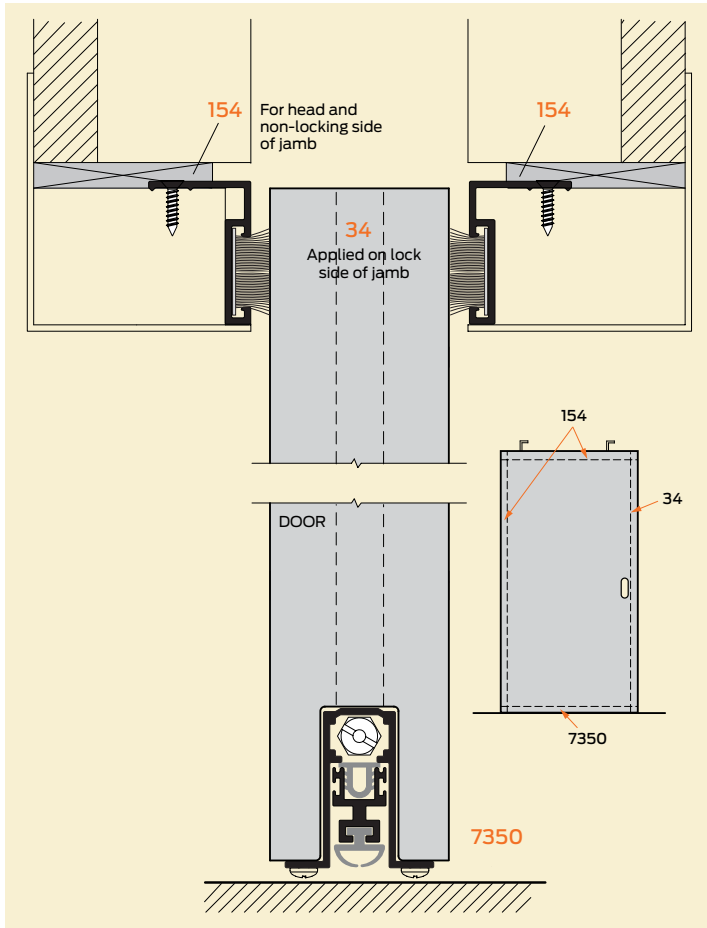
**2070A - 36** 36" High

Each flood barrier shield is custom fabricated.  
Specify exact width needed and installation option required.

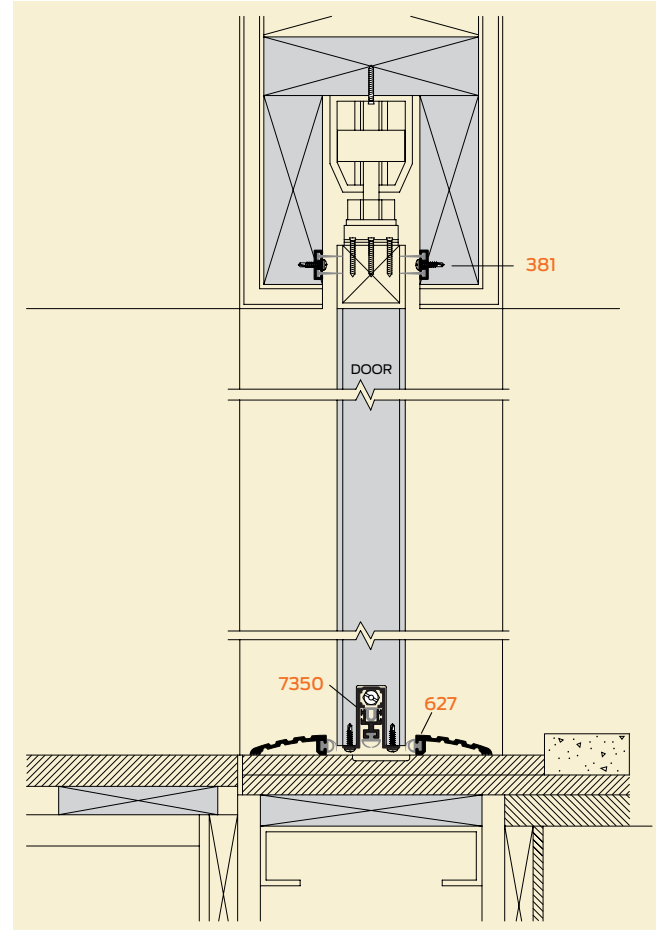
# Sliding and pocket doors



## Gasketing for sliding and pocket doors



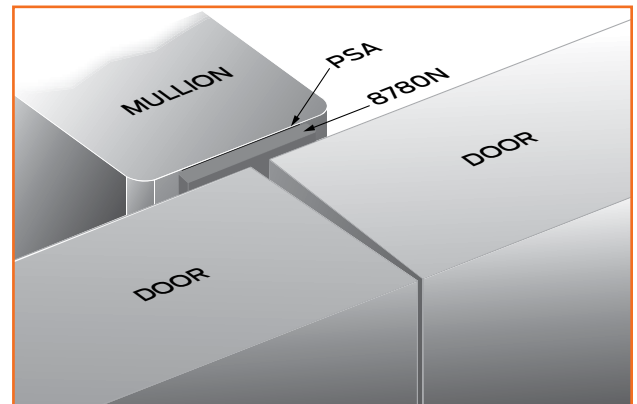
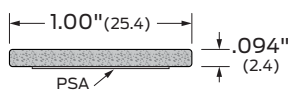
## Gasketing for latching pocket doors



## Seal for mullion application

The new 8780 is a closed cell sponge neoprene strip 1" (25.4) wide x 3/32" (2.4) thick with self-adhesive tape for mounting directly to the face of the mullion at point of contact with closed doors.

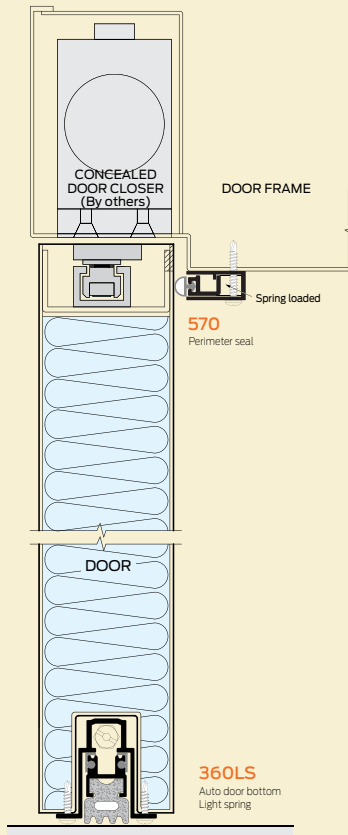
### 8780N



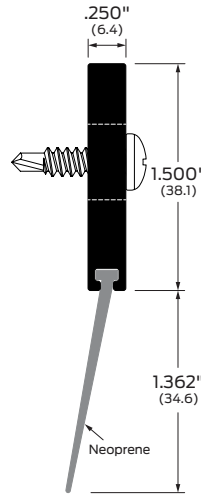
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# Heavy-duty overhead doors

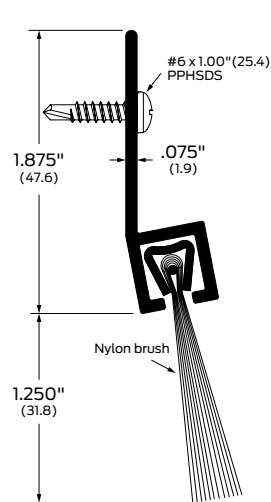
## Non-latching door Gasketing for non-latching doors



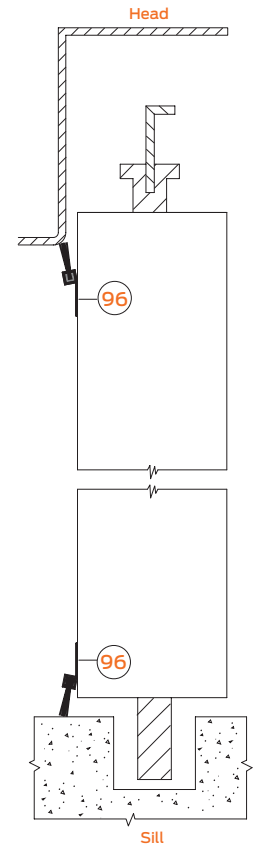
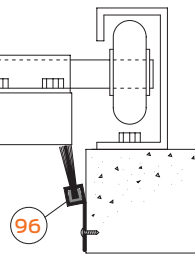
95



96

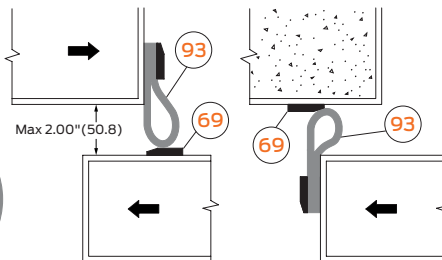
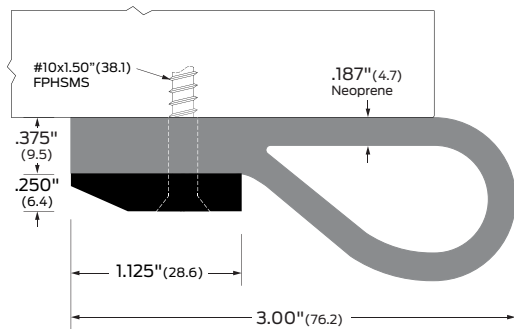


Jamb Section



93

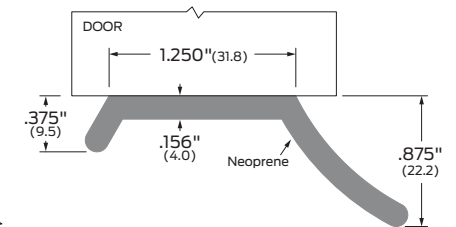
3/16" thick extreme temperature neoprene looped as shown (Government specification R-6855, Class II, Grade 40.)



Intermediate stiles

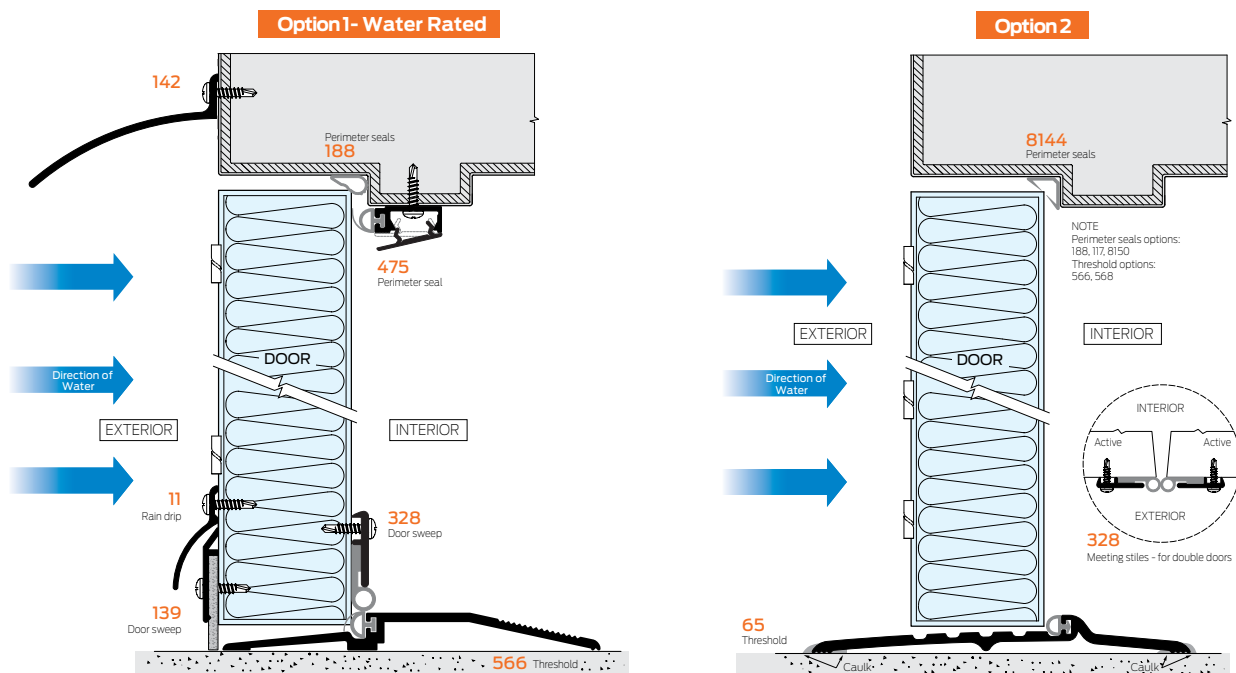
8047R

For overhead doors

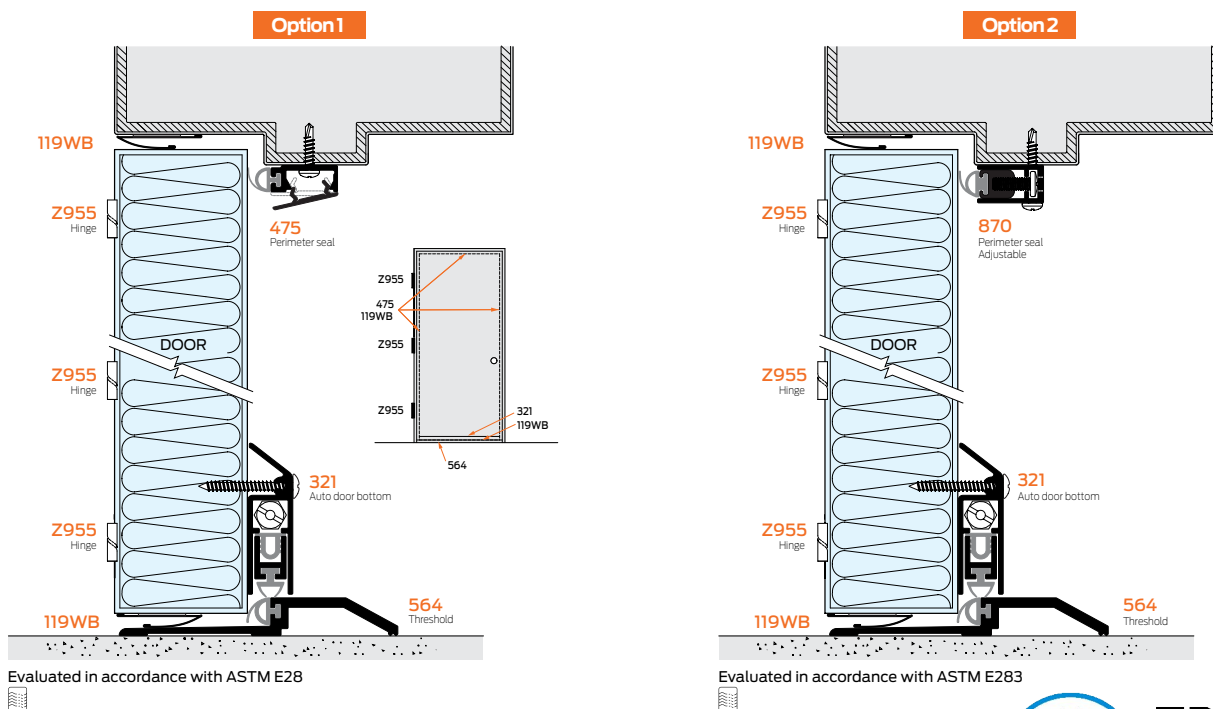


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# Hurricane protection wind-driven water infiltration (Dade County Florida)



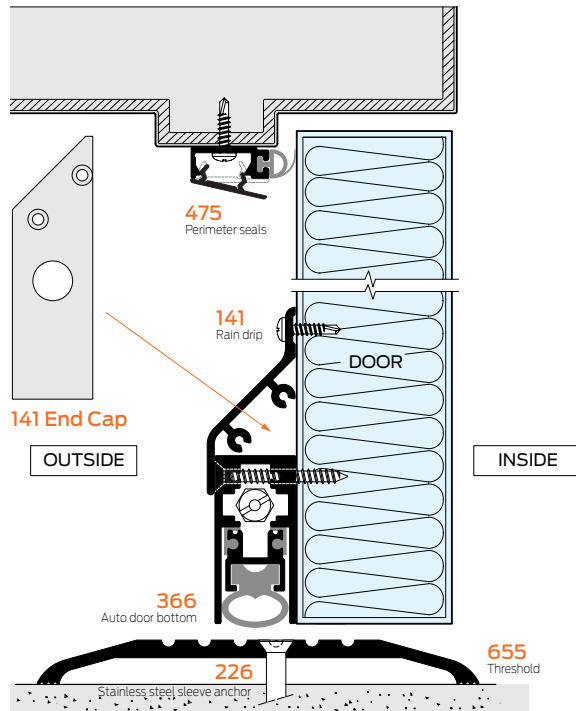
## “Safe haven” room gasketing and areas of rescue assistance Air infiltration - 110 MPH (165KM/H) Wind velocity - air leakage 0.56 CFM (2.8CMH)



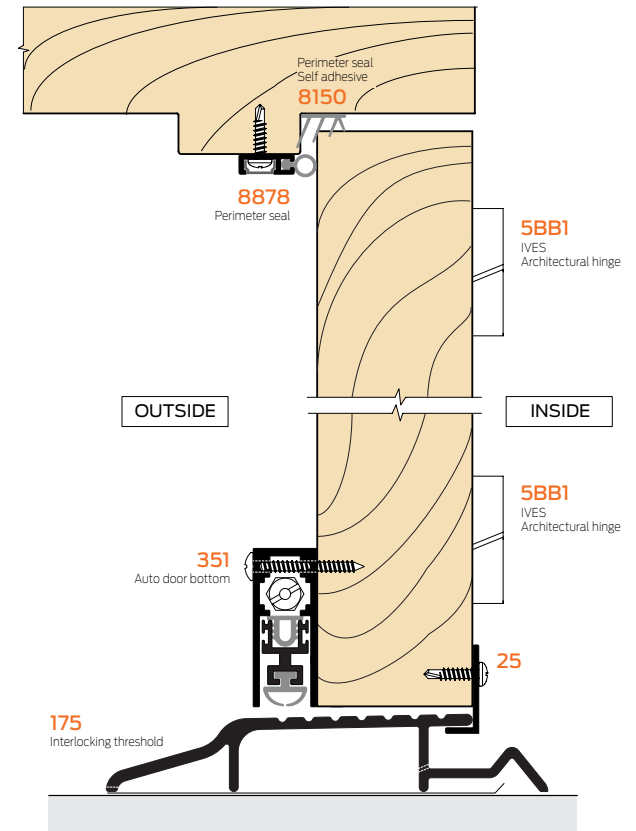
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# Typical gasketing applications

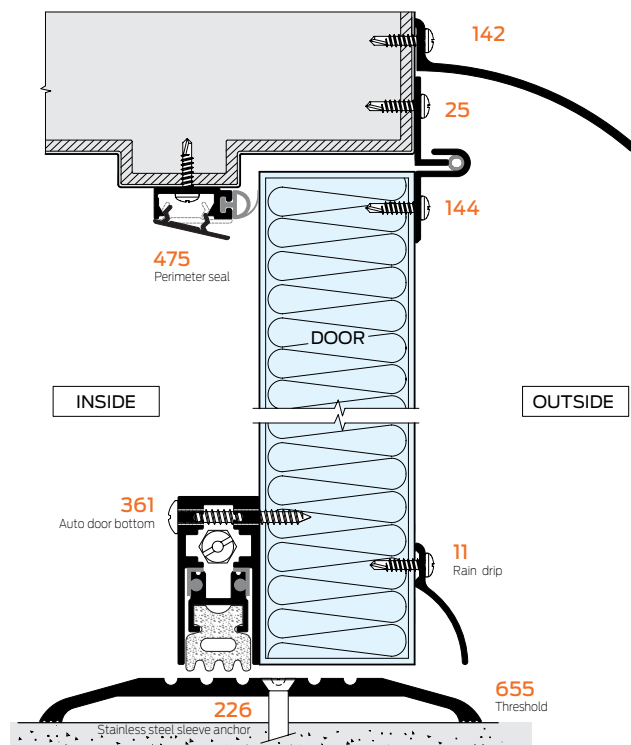
Typical gasketing for exterior inswing door



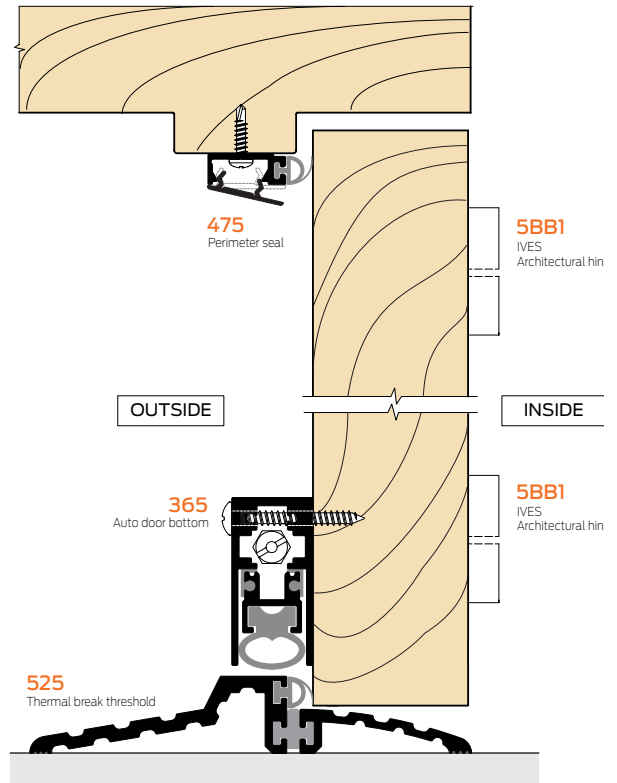
Typical gasketing for residential



Typical gasketing for exterior outswing door



Cold weather solution

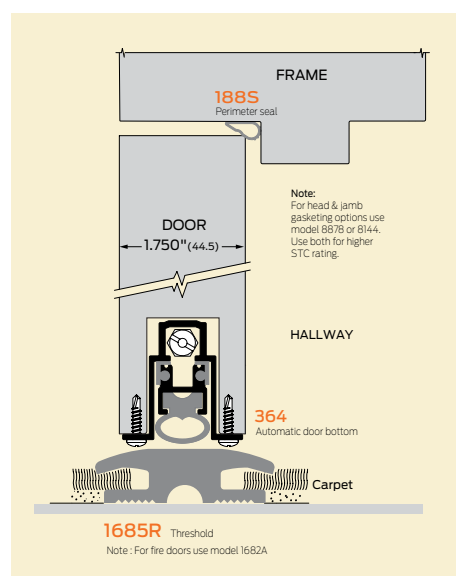


## Solutions and specialty products

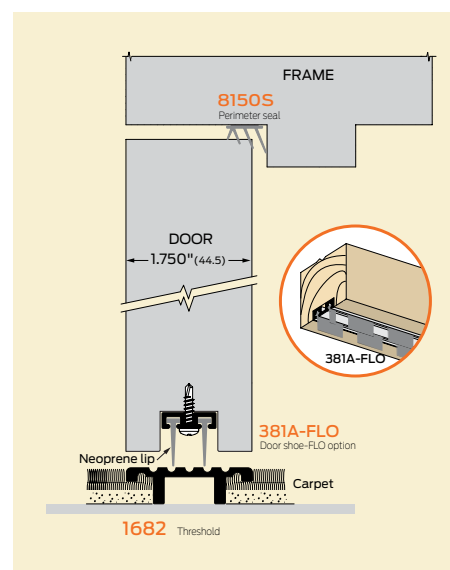
## Hotel gasketing solutions



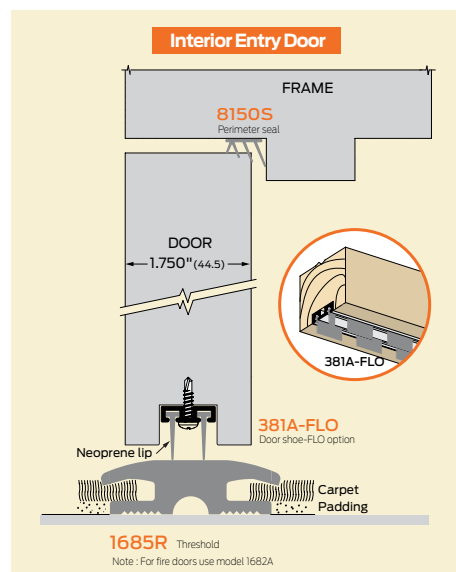
## Interior entry doors - option 1



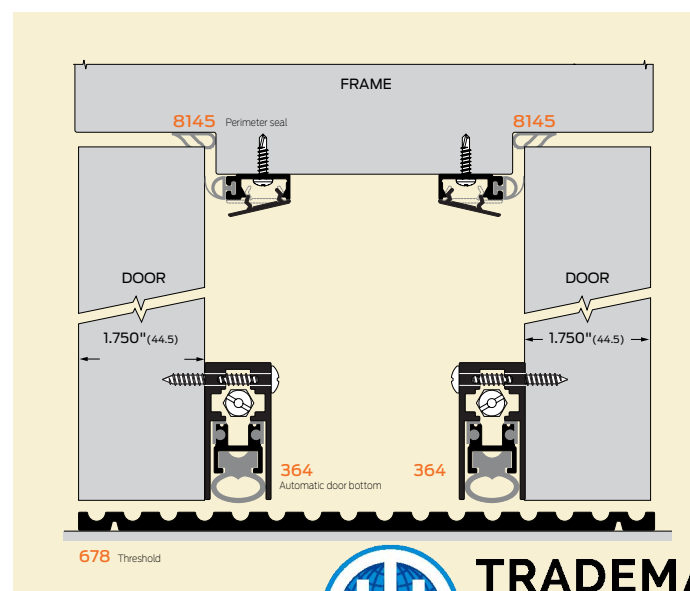
## Communicating doors - new construction



## Interior entry doors - option 2



## Communicating doors- aftermarket



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# Air control systems

**Air infiltration for smoke doors, outside doors, air lock doors, air tight doors.**

**Air flow pressure applied to a door as listed per testing standards:**

|                      |         |              |
|----------------------|---------|--------------|
| .10 inches of water  | 24.90Pa | 15 Miles/Hr  |
| .30 inches of water  | 76.00Pa | 25 Miles/Hr  |
| .60 inches of water  | 150Pa   | 35 Miles/Hr  |
| 1.23 inches of water | 306Pa   | 50 Miles/Hr  |
| 2.76 inches of water | 688Pa   | 75 Miles/Hr  |
| 4.92 inches of water | 1223Pa  | 100 Miles/Hr |

| Pressure Rate       | Standard                             | Leakage Rate           |
|---------------------|--------------------------------------|------------------------|
| .10 inches of water | NFPA 105, UL 1784, IBC 715.4.3.1 STD | 3.0 CFM = 16.95 CMH/LM |

| Standard             |         |                  |                          |
|----------------------|---------|------------------|--------------------------|
| Pressure Rate        | System# | Part#            | Leakage Rate             |
| .30 inches of water  | K       | No gasketing     | 11.36 CFM = 64.18 CMH/LM |
| .30 inches of water  | Z-1     | 475+565+365      | .02 CFM = .11 CMH/LM     |
| .30 inches of water  | D*      | 328/326 +164+154 | .07 CFM = .39 CMH/LM     |
| .30 inches of water  | A*      | 328/326 +565+361 | .03 CFM = .17 CMH/LM     |
| .30 inches of water  | B       | 770+565+361      | .04 CFM = .22 CMH/LM     |
| .30 inches of water  | Z-2     | 370+565+365      | .07 CFM = .39 CMH/LM     |
| .30 inches of water  | E       | 328+164+361      | .17 CFM = .96 CMH/LM     |
| .30 inches of water  | F       | 318+564+351      | .25 CFM = 1.41 CMH/LM    |
| .30 inches of water  | SM-11   | 8144+8770+355    | .27 CFM = 1.52 CMH/LM    |
| .30 inches of water  | G       | 312+565+351      | .35 CFM = 1.97 CMH/LM    |
| .60 inches of water  | SM-12   | 475+565+365      | .04 CFM = .22 CMH/LM     |
| .60 inches of water  | SM-14   | 328+565+361      | .06 CFM = .33 CMH/LM     |
| .60 inches of water  | SM-16   | 770+565+361      | .07 CFM = .39 CMH/LM     |
| .60 inches of water  | SM-17   | 370+565+365      | .08 CFM = .45 CMH/LM     |
| .60 inches of water  | SM-18*  | 328/326+164+361  | .25 CFM = 1.41 CMH/LM    |
| 1.2 inches of water  | SM-19*  | 328/326+565+361  | .09 CFM = .51 CMH/LM     |
| 1.23 inches of water | SM-20   | 770+565+361      | .11 CFM = .62 CMH/LM     |
| 1.23 inches of water | Z-3     | 370+565+365      | .16 CFM = .90 CMH/LM     |
| 1.23 inches of water | SM-21*  | 328/326 +164+361 | .38 CFM = 2.15 CMH/LM    |
| 1.23 inches of water | SM-22   | 8144+8770+355    | .64 CFM = 3.62 CMH/LM    |
| 2.76 inches of water | SM-23   | 8144+8770+355    | 1.39 CFM = 7.85 CMH/LM   |
| 4.92 inches of water | SM-24   | 475+564+119WB    | .56 CFM = 2.82 CMH/LM    |

CMH / LMC = Cubic meter per hour / Linear meter of crack.

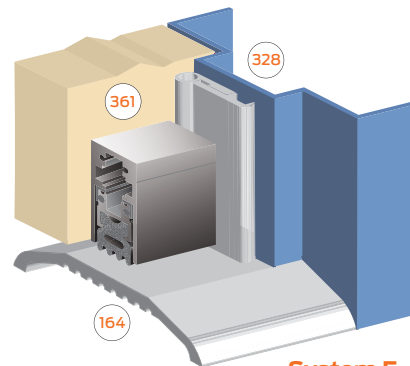
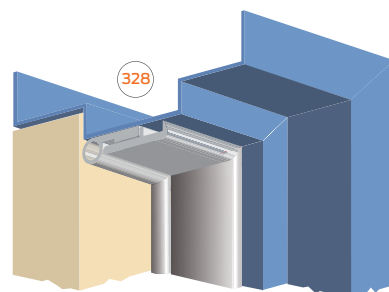
\*328 used for hinge side, 326 for head and lock side.

## Smoke and draft control

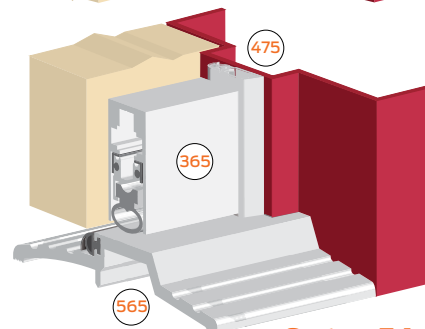
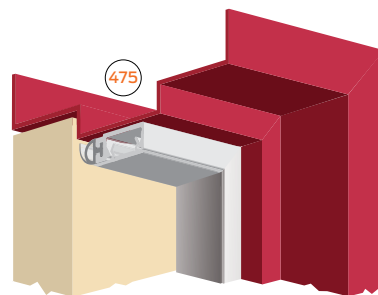
Fire door assemblies shall also meet the NFPA 105 requirements for a smoke and draft control door assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot [0.01524 m<sup>3</sup>/(sq m<sup>2</sup>)] of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Installation of smoke doors shall be in accordance with NFPA 105.

## Conclusions and observations

- 1) To comply with NFPA 105 and/or any of the standards that refer to air/smoke infiltration rates, door seals must be specified and installed. In general a door will not pass the smoke test without gasketing.
- 2) The higher the air pressure differential, the better the quality of the gasketing is needed.
- 3) Adjustable gasketing facilitates installation and allows adjustment when needed for consistent performance over time.
- 4) Hospitals are designed with the idea of keeping patients in their rooms in case of fire. In a room that measures 10 x 10 x 9 feet with a 3 x 7 foot door, the room will be 100% filled with smoke from smoke-filled corridors in 15 minutes if the door only complies with the UL 1784/ NFPA 105 maximum leakage standard 3.0 CFM. If the leakage rate is reduced to .02 CFM using smoke control systems, it will take 37 hours for smoke to fill that same room.
- 5) Although fast, efficient evacuation is the goal in school fires, prudent design should provide adequate smoke protection exceeding 15 minutes for students who might remain trapped in fully engaged fire zones.



**System E**



**System Z-1**

# Replacement rubber reference chart



| Rubber part number | Compatible models                                                 |
|--------------------|-------------------------------------------------------------------|
| 1370N              | 376, 1840, 1370, 3709                                             |
| 139N               | 139                                                               |
| 153N               | 111, 153, 253                                                     |
| 312N               | 312                                                               |
| 314N               | 50, 314                                                           |
| 3150N              | 55, 55FS, 56, 56FS, 3056FS, 38                                    |
| 318N               | 140, 318, 322                                                     |
| 320N               | 320, 321, 323                                                     |
| 326N               | 326, 3709                                                         |
| 328N               | 328, 3708                                                         |
| 3365N              | 365, 365, 366, 367, 368, 369                                      |
| 363N               | 170, 270, 360, 361, 362, 470                                      |
| 365N               | 272, 472, 770                                                     |
| 3676N              | 2673, 2676, 3672, 3673, 3674, 3675, 3676                          |
| 367N               | 367, 368, 369                                                     |
| 383N               | 381, 383, 477                                                     |
| 486N               | 73, 383, 475, 478, 485, 560, 563, 564, 566, 568, 3831, 7338, 7770 |
| 521S-BK            | 521FS                                                             |
| 52N                | 52                                                                |
| 539N               | 539                                                               |
| 53N                | 53, 853, 3551                                                     |
| 570S-BK            | 65, 355, 570                                                      |
| 572N               | 265, 267, 524, 525, 526, 565, 561, 627, 628, 8729                 |
| 5813S-BK           | 99, 5831                                                          |
| 59N                | 59FS                                                              |
| 72N                | 72, 452                                                           |
| 7770N              | 7770                                                              |
| 8194N              | 134, 3546, 8194, 8195                                             |
| 8197N              | 8151, 8191, 8197                                                  |
| 8303S-BK           | 429, 8303, 8878                                                   |
| 8353N              | 350, 351, 352, 7350                                               |
| 8452N              | 8452                                                              |
| 8557S-B            | 33, 35, 100, 58FS, 399, 555, 557, 873, 3557, 5833                 |
| 870S-BK            | 31, 36, 712, 870, 5831FS                                          |
| 9137S-CL           | 9137                                                              |





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Door sealing systems

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| 31.....75              | 144.....60               | 399V.....82              | 813N.....98           | 8056S.....95             |
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| 33.....75              | 154.....66               | 429.....76               | 826N.....97           | 8136P.....98             |
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| 34P.....98             | 156.....79               | 469.....28               | 870SPB.....87         | 8138.....100             |
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