Door sealing systems
Door sealing systems

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Door sealing systems  Introduction

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.
Door sealing systems

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 after 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 (pile)
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.

Appendix

Specialty applications

Sound control

Intumescent

Weatherstripping

Perimeter seals

Automatic door bottoms

Thresholds

Door sealing systems
# Door sealing systems

## Product symbols and classification standards

### FIRE RATED-UL10C
UL Classified to ANSI/UL 10C, 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 10B, 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-S104 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 10C and ANSI/UL 1784 as Category H Smoke and 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

### INTERTEK TESTING - WARNOCK HERSEY MARK

### UL - UNDERWRITERS LABORATORIES MARK
## Door sealing systems

### Notes

- **Specialty applications**
  - Sound control
  - Intumescent
  - Weatherstripping
  - Perimeter seals
  - Automatic door bottoms
  - Thresholds

---

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Thresholds
Door sealing systems
## Thresholds

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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.

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 airflow.

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 backed by the Zero brand you can trust.
Thresholds

Accessories and options

Finishes

- **A**: Aluminum Mill Finish
- **BK**: Black Anodized (711, US315AN)
- **D**: Aluminum Dark Bronze Anodized (710, US313AN)
- **G**: Aluminum Gold Anodized (688, US10AN)
- **B**: Bronze, Architectural Mill Finish
- **B-ORB**: Oil-Rubbed Bronze (613/US10B)
- **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. Black, dark bronze and gold anodized aluminum finished products may require a longer lead time, please contact customer service for accurate lead times.

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. This option is not fire rated.

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.

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<th>Finishes</th>
<th>Options</th>
<th>Note</th>
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<td>Epoxy abrasive tread</td>
<td>Special anchors available for mounting most thresholds on concrete surfaces.</td>
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<tr>
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<td>Epoxy and full body strength fill</td>
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<tr>
<td>Aluminum gold anodized</td>
<td>Photoluminescent and abrasive epoxy tread, full body strength fill</td>
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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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Applicable threshold models</th>
<th>Package contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>47254099</td>
<td>Threshold screw pack — Clear Anodized</td>
<td>All “A” finish thresholds</td>
<td>4 screws #10 X 1-1/2&quot; FPHSMS</td>
</tr>
<tr>
<td>47254100</td>
<td>Threshold screw pack — Dark Bronze</td>
<td>All “D” finish thresholds</td>
<td>4 screws #10 X 1-1/2&quot; FPHSMS Black ZP</td>
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<tr>
<td>47254101</td>
<td>Threshold screw pack — Bronze</td>
<td>All “B” and “G” finish thresholds</td>
<td>4 screws #10 X 1-3/4&quot; FPHWS Brass</td>
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<tr>
<td>47254102</td>
<td>Threshold screw pack — Stainless Steel</td>
<td>All “STST” finish thresholds</td>
<td>4 screws #10 X 1-1/4&quot; FPHSMS S.S.</td>
</tr>
<tr>
<td>47254101-10B</td>
<td>Threshold screw pack — Oil Rubbed Bronze</td>
<td>All ORB finish thresholds</td>
<td>4 screws #10 X 1-3/4&quot; FPHWS Brass, Oil Rubbed</td>
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</table>

Anchors for concrete installations

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description/Model number</th>
<th>Applicable threshold models</th>
<th>Package contents</th>
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<td>47257389</td>
<td>221-Plastic shield screw pack — Silver metallic finish</td>
<td>Screw pack for 221</td>
<td>4 plastic shields and 4 #10 1-1/4&quot; FPHSMS</td>
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<td>47257390</td>
<td>222-Lead shield screw pack — Silver metallic finish</td>
<td>Screw pack for 222</td>
<td>4 lead shields and 4 #10 1-1/4&quot; FPHSMS</td>
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<td>47257391</td>
<td>223-10-24 Concrete anchor screw pack — Silver metallic finish</td>
<td>Screw pack for 223</td>
<td>4 10-24 anchors with 4 #10-24 1-1/2&quot; FPHMS</td>
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<tr>
<td>47257392</td>
<td>224-1/4-20 Concrete anchor screw pack — Silver metallic finish</td>
<td>Screw pack for 224</td>
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<tr>
<td>47257393</td>
<td>226-S.S. Sleeve anchor — Silver metallic finish</td>
<td>Screw pack for 226</td>
<td>4 sleeve anchors</td>
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</table>

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.
Accessories and 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
## Thresholds order guide

### How to order:

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### Finish

- **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, EL, ELV3 if ORB is requested.*

### Options

- **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)

### Fasteners

- **Blank** - standard screws
- **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”

### Length

Use decimal to nearest 1/8” increment
### Saddle thresholds

**63**
- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** 63A, 63BK, 63D, 63G
- **J32100, J32130, J32200, J32230**

**544**
- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** 544A, 544BK, 544D, 544G
- **J32100, J32130, J32200, J32230**

**545**
- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** 545A, 545BK, 545D, 545G
- **J32100, J32130, J32200, J32230**

**545B**
- **Finish:** B, B-ORB
- **Options:** E, EL, V3, EV3, ELV3 (not available for B-ORB finish)
- **ANSI/BHMA:** 545B
- **J12100, J12130, J12200, J12230**

**546**
- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** 546A, 546BK, 546D, 546G
- **J32100, J32130, J32200, J32230**

**64**
- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** 64A, 64BK, 64D, 64G
- **J32100, J32130, J32200, J32230**

---

**Note:** Special anchors available for mounting most thresholds on concrete surfaces.

See Thresholds Accessories & options page for details.

<table>
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<tr>
<th>Finishes</th>
<th>Options</th>
<th>Note</th>
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</tr>
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<tr>
<td>EL</td>
<td>Photoluminescent and abrasive epoxy tread</td>
<td></td>
</tr>
<tr>
<td>V3</td>
<td>Epoxy and full body strength fill</td>
<td></td>
</tr>
<tr>
<td>EV3</td>
<td>Photoluminescent and abrasive epoxy tread, full body strength fill</td>
<td></td>
</tr>
</tbody>
</table>
Saddle thresholds

547

250" (6.4)

.188" (4.8)  2.00" (50.8)  7.00" (177.8)

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


32100, 32130, 32200, 32230

Supplied without mounting holes.

548

250" (6.4)

.125" (3.2)  2.75" (69.8)  8.00" (203.2)

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


Supplied without mounting holes.

653

500" (12.7)

.187" (4.7)  3.00" (76.2)

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


32100, 32130, 32200, 32230

654

500" (12.7)

.187" (4.7)  4.00" (101.6)

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

(Not available for B-ORB finish)

32100, 32130, 32200, 32230

664

500" (12.7)

.160" (4.1)  4.00" (101.6)

Finishes: Stainless steel only
Options: E, EL, V3, EV3, ELV3

ANSI/BHMA: 664STST, 664STST-E

JS2300, JS2400

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

164

+0.187" (4.7)
+0.500" (12.7)
+4.00" (101.6)

Finishes:
A, BK, D, G

Options:
E, EL, V3, ELV3
(available for B-ORB finish)

ANSI/BHMA:
164A, 164BK, 164D, 164G
164A-E, 164BK-E, 164D-E, 164G-E
J32300, J32330
J32400, J32430

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

164B

+0.187" (4.7)
+0.500" (12.7)
+4.00" (101.6)

Finishes:
B, B-ORB

Options:
E, EL, V3, ELV3
(available for B-ORB finish)

ANSI/BHMA:
164B
J2100, J2130
164B-E J2200, J2230

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

655

+0.200" (5.1)
+0.500" (12.7)
+5.00" (127.0)

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
655A-E, 655BK-E, 655D-E, 655G-E
655B, 655B-E
J2100, J2130
J2200, J2230
J22400, J22430
J22500, J22530

655A-V3 (Full body strength)

8655

+0.115" (2.9)
+0.500" (12.7)
+1.60" (40.6)
+5.00" (127.0)

Finishes:
A, BK, D, G

Options:
E, EL, V3, EV3, ELV3

ANSI/BHMA:
8655A, 8655BK, 8655D, 8655G
8655A-E, 8655BK-E, 8655D-E, 8655G-E
8655B, 8655B-E
J2100, J2130
J22200, J22230
J22500, J22530

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

656

+0.200" (5.1)
+0.500" (12.7)
+6.00" (152.4)

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

Options:
E, EL, V3, ELV3
(available for B-ORB finish)

ANSI/BHMA:
656A, 656BK, 656D, 656G
656A-E, 656BK-E, 656D-E, 656G-E
656B, 656B-E
J2100, J2130
J22200, J22230
J22500, J22530

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

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

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)

ANSI/BHMA:
647B J2100, J2130
647B-E J2200, J32230

Supplied without mounting holes.

657

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

ANSI/BHMA:
657A, 657BK, 657D, 657G
657A-E, 657BK-E, 657D-E, 657G-E
J32100, J32130
J32200, J32230

6575

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

ANSI/BHMA:
657A, 657BK, 657D, 657G
657A-E, 657BK-E, 657D-E, 657G-E
J32100, J32130
J32200, J32230

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.

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<td>Special anchors available for mounting most thresholds on concrete surfaces.</td>
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</tr>
<tr>
<td>B-ORB</td>
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## Thresholds

### Half-saddle thresholds

**1545**

- **Finishes:** A, BK, D, G, EV3, ELV3
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** J33100, J33130, J33180

- **Dimensions:**
  - Notch: 1.25” (3.2) x 2.500” (6.4) x 0.125” (3.2)
  - Claw-grip edge: 0.250” (6.4)

**1545B**

- **Finishes:** B, B-ORB (not available for ORB finish)
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** J33100, J33130, J33180

- **Dimensions:**
  - Notch: 1.25” (3.2) x 2.500” (6.4) x 0.125” (3.2)
  - Claw-grip edge: 0.250” (6.4)

**1673**

- **Finishes:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** J33100, J33130, J33180

- **Dimensions:**
  - Notch: 1.25” (3.2) x 2.500” (6.4) x 0.125” (3.2)
  - Claw-grip edge: 0.250” (6.4)

**1674**

- **Finishes:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** J33100, J33130, J33180

- **Dimensions:**
  - Notch: 1.25” (3.2) x 2.500” (6.4) x 0.125” (3.2)
  - Claw-grip edge: 0.250” (6.4)

**1675**

- **Finishes:** A, BK, D, G
- **Options:** E, EL, V3, EV3, ELV3
- **ANSI/BHMA:** J33100, J33130, J33180

- **Dimensions:**
  - Notch: 1.25” (3.2) x 2.500” (6.4) x 0.125” (3.2)
  - Claw-grip edge: 0.250” (6.4)

**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** Epoxy abrasive tread and abrasive epoxy tread
- **V3** 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, EV3E, ELV3 |

- Neoprene extruded bulb/finger for double-sealing protection.

628

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

- Neoprene extruded bulb/finger for double-sealing protection.

523

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

524

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

- Neoprene extruded bulb/finger for double-sealing protection.

622

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

- 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 |

- 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: Oiled-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.
Offset thresholds

102

Finishes:
- A: Aluminum mill finish
- BK: Aluminum black anodized
- D: Aluminum dark bronze anodized
- G: Aluminum gold anodized

Options:
- E: Epoxy abrasive tread
- EL: Photoluminescent and abrasive epoxy tread

ANSI/BHMA:
- 102A, 102D, 102G, 102BK
- 102A-E, 102D-E, 102G-E, 102BK-E

Handicap offset. Supplied without mounting holes.

103

Finishes:
- A, BK, D, G

Options:
- E, EL

ANSI/BHMA:
- 103A, 103D, 103G, 103BK
- 103A-E, 103D-E, 103G-E, 103BK-E

Handicap offset. Supplied without mounting holes.

104

Finishes:
- A, BK, D, G

Options:
- E, EL

ANSI/BHMA:
- 104A, 104D, 104G, 104BK
- 104A-E, 104D-E, 104G-E, 104BK-E

Supplied without mounting holes.

See Thresholds Accessories & options page for details.
### Thresholds

#### Rabbeted thresholds

**564**

![Diagram of 564 threshold](image1)

- **Finishes:** A, BK, D, G, B, B-ORB
- **Options:** E, E-L, V3, EV3, EV3-E, EV3-B, EV3-ORB
- **ANSI/BHMA:** 564A, 564B, 564C, 564D, 564E, 564F, 564G, 564H
- **Note:** Suitable for sound control applications and OEM use. Neoprene extruded bulb/finger for double-sealing protection.

**566**

![Diagram of 566 threshold](image2)

- **Finishes:** A, BK, D, G
- **Options:** E, E-L, V3
- **ANSI/BHMA:** 566A, 566B, 566C, 566D, 566E, 566F, 566G, 566H
- **Note:** Neoprene extruded bulb/finger for double-sealing protection.

**567**

![Diagram of 567 threshold](image3)

- **Finishes:** B, B-ORB
- **Options:** E, E-L, V3, EV3
- **Note:** Extruded bulb/finger for double-sealing protection.

**568**

![Diagram of 568 threshold](image4)

- **Finishes:** A, BK, D, G
- **Options:** E, E-L, V3
- **Note:** Neoprene extruded bulb/finger for double-sealing protection.

---

See Thresholds Accessories & options page for details.

**Options:**
- 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
- 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—standard

267

- 1.750" (44.5)
- .625" (15.9)
- .250" (6.4)
- 2.155" (54.7)
- EBF seal
- Claw-grip edge

Finishes:
A, BK, D, G

Options:
E, EL

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

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

663

- .125" (3.2)
- 2.00" (50.8)
- 3.00" (76.2)

Finishes:
A, BK, D, G

Options:
E, EL, V3, EV3

ANSI/BHMA:
663A, 663D, 663G, 663BK
Rabbeted, butt and transition.
Supplied without mounting holes.

265

- 1.750" (44.5)
- .625" (15.9)
- .250" (6.4)
- 5.00" (127.0)
- EBF seal
- Claw-grip edge

Finishes:
A, BK, D, G

Options:
E, EL, V3, EV3, ELV3

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

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

65

- 3.125" (79.4)
- .125" (3.2)
- 5.00" (127.0)
- Silicone
- Claw-grip edge

Finishes:
A, BK, D, G

Options:
E, EL, V3, EV3, ELV3

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

For latch track hardware.

560

- 3.063" (77.8)
- .135" (3.4)
- 5.00" (127.0)
- EBF seal
- Claw-grip edge

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

For latch track hardware.
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  Epoxy abrasive 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

**561**

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

Neoprene extruded bulb/ fingertip for double-sealing protection.

**563**

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

Neoprene extruded bulb/ fingertip for double-sealing protection.

**565**

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

Neoprene extruded bulb/ fingertip 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.
Thermal break thresholds

624

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, EL, V3, EV3, EL V3

625

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

8724

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

8726

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

See Thresholds Accessories & options page for details.

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.

Full illustration not to scale
**Thermal break thresholds**

### 525

- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EHV3
- **ANSI/BHMA:** 525A, 525BK, 525D, 525G
- **Thickness:** .875" (22.2 mm)
- **Width:** .500" (12.7 mm)
- **Length:** 5.00" (127.0 mm)

Neoprene extruded bulb/finger for double-sealing protection.

### 526

- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EHV3
- **ANSI/BHMA:** 526A, 526BK, 526D, 526G
- **Thickness:** .875" (22.2 mm)
- **Width:** .500" (12.7 mm)
- **Length:** 6.00" (152.4 mm)

Neoprene extruded bulb/finger for double-sealing protection.

### 8729

- **Finish:** A, BK, D, G
- **Options:** E, EL, V3, EHV3
- **ANSI/BHMA:** 8729A, 8729BK, 8729D, 8729G
- **Thickness:** .875" (22.2 mm)
- **Width:** .500" (12.7 mm)
- **Length:** 6.625" (168.3 mm)

Neoprene extruded bulb/finger for double-sealing protection.

---

See Thresholds Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Options</th>
<th>ANSI/BHMA</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, BK, D, G</td>
<td>E, EL, V3, EHV3</td>
<td>525A, 525BK, 525D, 525G</td>
<td>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.</td>
</tr>
</tbody>
</table>

[www.zerointernational.com](http://www.zerointernational.com) • Door sealing systems • Zero • 25
Thresholds

Carpet divider thresholds

522

- Finish options: A, BK, D, G
- Options: E, EL, V3, EV3, ELV3

643

- Finish options: A, BK, D, G
- Options: E, EL, V3, EV3, ELV3

1682

- Finish options: A, BK, D, G
- Options: E, EL, V3, EV3, ELV3

1682B

- Finish options: B, B-ORB
- Options: E, EL, V3, EV3

1684

- Finish options: A, BK, D, G
- Options: E, EL, V3, EV3, ELV3

1685R

- Finish options: A, BK, D, G
- Options: E, EL, V3, EV3, ELV3

1686R

- Finish options: Black only

See Thresholds Accessories & options page for details.

**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.
Adjustable thresholds

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.

See Thresholds Accessories & options page for details.

Options:
- Epoxy abrasive tread
- Photoluminescent and abrasive epoxy tread
- Full body strength fill
- 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

#### 678
- **Finish Options:** A, BK, D, G
- **ANSI/BHMA:** 678A, 678D, 678G, 678BK
- **Supplied without mounting holes.**

#### 6710
- **Finish Options:** A, BK, D, G
- **ANSI/BHMA:** 6710A, 6710D, 6710G, 6710BK
- **Supplied without mounting holes.**

#### 105
- **Finish Options:** A, BK, D, G
- **ANSI/BHMA:** 105A, 105D, 105G, 105BK
- **Supplied without mounting holes.**

#### 106
- **Finish Options:** A, BK, D, G
- **ANSI/BHMA:** 106A, 106D, 106G
- **Supplied without mounting holes.**

#### 107
- **Finish Options:** B, B-ORB
- **ANSI/BHMA:** 107B
- **Supplied without mounting holes.**

#### 269
- **Finish Options:** A
- **ANSI/BHMA:** 269A
- **Connection plate**

#### 469
- **Finish Options:** A
- **ANSI/BHMA:** 469A
- **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
- 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

### Series 671

![Diagram of Series 671 adjustable threshold]

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

![Diagram of 84R-PSA adjustable threshold]

**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.

### 68

![Diagram of 68 adjustable threshold]

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

**Options:**
- PSA

### 168

![Diagram of 168 adjustable threshold]

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

### 69

![Diagram of 69 adjustable threshold]

**Finishes:**
- A

**Options:**
- PSA

### 48

![Diagram of 48 adjustable threshold]

**Finishes:**
- A

**Options:**
- PSA

### 49

![Diagram of 49 adjustable threshold]

**Finishes:**
- A

**Options:**
- PSA

See Thresholds Accessories & options page for details.
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: 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: Epoxy 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

ANSI/BHMA:
- 3672A, 3672D, 3672G, 3672BK
- 3672E, 3672D-E, 3672G-E, 3672BK-E

Supplied without mounting holes.

3673

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: Epoxy 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

ANSI/BHMA:
- 3673A, 3673D, 3673G, 3673BK
- 3673E, 3673D-E, 3673G-E, 3673BK-E

Supplied without mounting holes.

See Thresholds Accessories & options page for details.

Note: Special anchors available for mounting most thresholds on concrete surfaces.
Traction tread adjustable thresholds

3674

4.00" (101.6)

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

Options:

ANSI/BHMA:
3674A, 3674D, 3674G, 3674BK
3674A-E, 3674D-E, 3674G-E, 3674BK-E

Supplied without mounting holes.

3675

5.00" (127.0)

Finishes:
A, BK, D, G

Options:
E, EL

ANSI/BHMA:
3675A, 3675D, 3675G, 3675BK
3675A-E, 3675D-E, 3675G-E, 3675BK-E

Supplied without mounting holes.

3676

6.00" (152.4)

Finishes:
A, BK, D, G

Options:
E, EL

ANSI/BHMA:
3676A, 3676D, 3676G, 3676BK
3676A-E, 3676D-E, 3676G-E, 3676BK-E

Supplied without mounting holes.

2676

6.00" (152.4)

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

Options:
E, EL

ANSI/BHMA:
2676A, 2676D, 2676G, 2676BK
2676A-E, 2676D-E, 2676G-E, 2676BK-E

Supplied without mounting holes.

2673

3.00" (76.2)

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

Options:
E, EL (not available for ORB finish)

ANSI/BHMA:
2673A, 2673D, 2673G, 2673BK
2673A-E, 2673D-E, 2673G-E, 2673BK-E

Supplied without mounting holes.

See Thresholds Accessories & options page for details.

Options:
- Epoxy abrasive tread
- Photoluminescent and abrasive epoxy tread
- Full body strength fill
- Photoluminescent and abrasive epoxy tread, full body strength fill

Note:
Special anchors available for mounting most thresholds on concrete surfaces.

Safety Stair Treads
Thresholds

Ramps

233

Finishes:
A, BK, D, G

Options:
E, EL, V3

ANSI/BHMA:
233A, 233D, 233G, 233BK
233A-E, 233D-E, 233G-E, 233BK-E

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

Supplied without mounting holes.

2361

Finishes:
AA

Options:
E, EL

ANSI/BHMA:
2361AA, 2361D, 2361G, 2361BK
2361AA-E, 2361D-E, 2361G-E, 2361BK-E

Supplied without mounting holes.

Available in anodized aluminum only (AA).

232

Finishes:
A, BK, D, G

Options:
E, EL, V3

ANSI/BHMA:

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.

Appendix

Specialty applications

Sound control

Weatherstripping

Intumescent

Perimeter seals

Automatic door bottoms

Thresholds

Thresholds

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.

Appendix

Specialty applications

Sound control

Weatherstripping

Intumescent

Perimeter seals

Automatic door bottoms

Thresholds

Thresholds

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.

See Thresholds Accessories & options page for details.
Interlocking thresholds

**70**

- **Finish:** B, B-ORB
- **Options:** E, EL, V3, ELV3 (not available for ORB finish)
- **ANSI/BHMA:** 70B J4170, 70B-E J4270

```
In-swing or out-swing
```

**73**

- **Finish:** A, B, D, G
- **Options:** E, EL, V3, ELV3
- **ANSI/BHMA:** 73A, 73B, 73D, 73G J34170, 73A-E, 73B-E, 73D-E, 73G-E J34270

```
Out-swing
```

**76**

- **Finish:** B, B-ORB
- **Options:** E, EL, V3, ELV3 (not available for ORB finish)
- **ANSI/BHMA:** 76B 76B-E J4170, 76B-E J4270

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

**80**

- **Finish:** B, B-ORB
- **Options:** E, EL, V3, ELV3 (not available for ORB finish)
- **ANSI/BHMA:** 80B 80B-E J4170, 80B-E J4270

```
In-swing.
```

**175**

- **Finish:** A, B, D, G
- **Options:** E, EL, V3, ELV3 (not available for ORB finish)
- **ANSI/BHMA:** 175A, 175D, 175G 175B, 175D-E, 175G-E, 175B-E 175B-E J34170, 175B-E J4170, 175B-E J4270

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

See Thresholds Accessories & options page for details.

<table>
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<tr>
<th>Finishes</th>
<th>Options</th>
<th>Note</th>
</tr>
</thead>
<tbody>
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<td>A</td>
<td>Aluminum mill finish</td>
<td>Special anchors available for mounting most thresholds on concrete surfaces.</td>
</tr>
<tr>
<td>BK</td>
<td>Aluminum black anodized</td>
<td>Interlocking Hooks and Angles page 12.</td>
</tr>
<tr>
<td>D</td>
<td>Aluminum dark bronze anodized</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Aluminum gold anodized</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Bronze, architectural mill finish</td>
<td></td>
</tr>
<tr>
<td>B-ORB</td>
<td>Oil-rubbed bronze</td>
<td></td>
</tr>
</tbody>
</table>
Adjustable interlocking bronze threshold systems

Specialty interlocking bronze threshold systems
Suitable combinations of threshold components are shown below.

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<th>Main Threshold Plate</th>
<th>Extension Plate for use with 7334B and 7335B</th>
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<tr>
<td>Width</td>
<td>Qty</td>
<td>Model #</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>Standard</td>
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<td>7000</td>
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<td>6.90&quot;</td>
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<td>7.90&quot;</td>
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<td>8.98&quot;</td>
<td>1</td>
<td>7338</td>
</tr>
<tr>
<td>9.98&quot;</td>
<td>1</td>
<td>7338</td>
</tr>
</tbody>
</table>

See Thresholds Accessories and 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

Adjustable interlocking bronze threshold systems

7335

![Adjustable interlocking bronze threshold systems 7335](image)

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.

Full illustration not to scale

7336

![Adjustable interlocking bronze threshold systems 7336](image)

7337

![Adjustable interlocking bronze threshold systems 7337](image)
Adjustable interlocking bronze threshold systems

7338

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.

Finish:
- 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.
Specialized threshold solutions

Adjustable thresholds – bulkhead systems

Threshold varies in width

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

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**

669 DP-A
669 DP-S
669 DP-STST

**Options:**
- Epoxy abrasive tread
- Photoluminescent and abrasive epoxy tread
- Full body strength fill
- Epoxy and full body strength fill
- Photoluminescent and abrasive epoxy tread, full body strength fill

**Notes:**
- A dimension – minimum 1”
- D dimension – must be at least 1” greater than A dimension

**Aluminum cover plates**

600CP Standard

**Options:**
- Epoxy abrasive tread
- Photoluminescent and abrasive epoxy tread
- Full body strength fill
- Epoxy and full body strength fill
- Photoluminescent and abrasive epoxy tread, full body strength fill

**Notes:**
- Manufactured from AL 5052 rolled aluminum.
- Square edges are standard. Beveled edges (length only) available 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.

**601CP Standard**

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

- Manufactured from AL 5052 rolled aluminum.
- Square edges are standard. Beveled edges (length only) available 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.

**See Thresholds Accessories & options page for details.**

**Options:**
- Epoxy abrasive tread
- Photoluminescent and abrasive epoxy tread
- Full body strength fill
- Epoxy and full body strength fill
- 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

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**

- .500” (12.7)
- 7.00” (177.8)

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

**ANSI/BHMA:**
- 657A, 675BK, 6570, 657G
- 657A-E, 675BK-E, 6570-E, 657G-E

**6575**

- .500” (12.7)
- 7.500” (190.5)

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

**ANSI/BHMA:**
- 657A, 675BK, 6570, 657G
- 657A-E, 675BK-E, 6570-E, 657G-E

**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
Automatic door bottoms

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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
Automatic door bottoms

Accessories and options

Finishes

<table>
<thead>
<tr>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>Clear Anodized Aluminum (628, US28AN)</td>
</tr>
<tr>
<td>BK</td>
<td>Black Anodized Aluminum (711, US315AN)</td>
</tr>
<tr>
<td>D</td>
<td>Dark Bronze Anodized Aluminum (710, US313AN)</td>
</tr>
<tr>
<td>G</td>
<td>Gold Anodized Aluminum (688, US10AN)</td>
</tr>
</tbody>
</table>

Note: See individual model for finish options. Black, dark bronze and gold anodized aluminum finished products may require a longer lead time, please contact customer service for accurate lead times.

Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS</td>
<td>Light spring</td>
</tr>
<tr>
<td>FLO</td>
<td>Air flow/sound block</td>
</tr>
<tr>
<td>Z49</td>
<td>Easy access plate</td>
</tr>
<tr>
<td>PL</td>
<td>Pull out (all Z49 come with pull out feature, unless otherwise specified)</td>
</tr>
<tr>
<td>SEC</td>
<td>Security screws</td>
</tr>
<tr>
<td>LK</td>
<td>Locking key 8361</td>
</tr>
<tr>
<td>NH</td>
<td>No holes</td>
</tr>
</tbody>
</table>

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 and Jamb Gasketing on an ADA compatible door, results are shown below.

Test door: 36” X 84” x 1-3/4”

<table>
<thead>
<tr>
<th>Test</th>
<th>Opening force (lbs.)</th>
<th>Closing force (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>475 Head and Jamb</td>
<td>1.75</td>
</tr>
<tr>
<td></td>
<td>365LS Automatic Door Bottom</td>
<td>1.90</td>
</tr>
<tr>
<td>Test 2</td>
<td>475 Head and Jamb</td>
<td>1.90</td>
</tr>
<tr>
<td></td>
<td>365LS Automatic Door Bottom</td>
<td>9.05</td>
</tr>
<tr>
<td>Test 3</td>
<td>Closing force with no seals</td>
<td>6.75</td>
</tr>
</tbody>
</table>

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.
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

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.
## Automatic door bottoms

### Accessories and options

## 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

### 321 End cap

Endcap for 321 door bottoms

### 351 End cap

Endcap for 351, 352 door bottoms

### 360 End cap

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

### 361 End cap

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

### 141 End cap

Endcap for 362, 366, 368 with 141 rain drip

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

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.

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

<table>
<thead>
<tr>
<th>Models</th>
<th>Category</th>
<th>Part number</th>
<th>ADB Finish</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>320, 323, 350, 355, 360, 364, 369, 3551, 3552, 3750, up to 108&quot;</td>
<td>ADB</td>
<td>47253854</td>
<td>AA</td>
<td>22 Screws #6 x 3/4&quot; PPHSDS ZP</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367 up to 108&quot;</td>
<td>ADB</td>
<td>47253868-00</td>
<td>AA</td>
<td>11 Screws #8 X 1-1/2&quot; Truss PHSMS ZP</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367 up to 108&quot;</td>
<td>ADB</td>
<td>47253868-34</td>
<td>G</td>
<td>11 Screws #8 X 1-1/2&quot; Truss PHSMS Gold ZP</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367 up to 108&quot;</td>
<td>ADB</td>
<td>47253868-695</td>
<td>D, BK</td>
<td>11 Screws #8 X 1-1/2&quot; Truss PHSMS Black ZP</td>
</tr>
<tr>
<td>352, 362, 366, 368, up to 108&quot;</td>
<td>ADB</td>
<td>47253866-00</td>
<td>AA</td>
<td>11 Screws #8 X 1-1/2&quot; FPHSMS ZP</td>
</tr>
<tr>
<td>352, 362, 366, 368, up to 108&quot;</td>
<td>ADB</td>
<td>47253866-34</td>
<td>G</td>
<td>11 Screws #8 X 1-1/2&quot; FPHSMS - Gold ZP</td>
</tr>
<tr>
<td>352, 362, 366, 368, up to 108&quot;</td>
<td>ADB</td>
<td>47253866-695</td>
<td>D, BK</td>
<td>11 Screws #8 X 1-1/2&quot; FPHSMS - Black ZP</td>
</tr>
<tr>
<td>352, 362, 366, 368</td>
<td>ADB</td>
<td>47259741</td>
<td>AA</td>
<td>11 Screws #8 X 1-1/2&quot; Flat security torx SMS</td>
</tr>
<tr>
<td>352, 362, 366, 368</td>
<td>ADB</td>
<td>47259741-480</td>
<td>D, BK</td>
<td>11 Screws #8 X 1-1/2&quot; Flat security torx SMS, Black ZP</td>
</tr>
<tr>
<td>352, 362, 366, 368</td>
<td>ADB</td>
<td>47259741-633</td>
<td>G</td>
<td>11 Screws #8 X 1-1/2&quot; Flat security torx SMS, BRs Plate</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367</td>
<td>ADB</td>
<td>47259744</td>
<td>AA</td>
<td>11 Screws #8 X 1-1/2&quot; Button security torx SMS, Clear ZP</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367</td>
<td>ADB</td>
<td>47259744-480</td>
<td>D, BK</td>
<td>11 Screws #8 X 1-1/2&quot; Button security torx SMS, Black ZP</td>
</tr>
<tr>
<td>321, 351, 361, 365, 367</td>
<td>ADB</td>
<td>47259744-480</td>
<td>D, BK</td>
<td>11 Screws #8 X 1-1/2&quot; Button security torx SMS, BRs Plate</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Finish</th>
<th>Options</th>
<th>Length</th>
<th>Metric</th>
<th>End Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>AA</td>
<td>LS</td>
<td>36</td>
<td></td>
<td>Z49</td>
</tr>
</tbody>
</table>

**Models**
- Example
  - 320*
  - 321
  - 323
  - 350*
  - 351
  - 352
  - 355*
  - 360*
  - 361
  - 364*
  - 364FS
  - 365
  - 365FS
  - 367
  - 368
  - 369*
  - 3551*
  - 3552*
  - 7350


**Finishes**
- AA - Aluminum Clear Anodized (US28)
- BK - Black Anodized (315AN)
- D - Aluminum Dark Bronze Anodized (313AN)
- G - Aluminum Gold Anodized

**Options**
- Blank - no options
- LS - Light spring (not available on models: 355, 364FS, 365FS, 366FS, 367, 368, 369, 3551, 3552)
- FLO - Air Flow configuration (available on 355 and 3552 only)
- Z49 - Easy access plate
- PL - Pull out option
- SEC - #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)
- LK - Locking key 8361
- NH - No mounting holes

**Length**
Use decimal to nearest 1/8" increment. Sizes under 18" trimming may be limited.

**Metric**
- Blank = US Standard
- MM = Metric in millimeters (rounded to the nearest 1/8")

**End cap**
- Blank = Std. End Caps Included
- Z49 = End cap for models only: (360, 364, 364FS, 369)
Automatic door bottoms

Heavy duty

360

Finishes: AA
Options: LS, Z49, End Cap, PL, NH
Mortised. Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercut.

ANSI/BHMA: 360AA, R3C3241

362

Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK, NH
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
Surface-mounted applications. Supplied with closed cell sponge neoprene.

ANSI/BHMA: 361AA, 361BK, 361D, 361G, R3C3341

364

Finishes: AA
Options: LS, Z49, End Cap, PL, NH
Mortised. Supplied with solid neoprene extrusion. Note: Consult your local AHJ for maximum allowable door undercut.

ANSI/BHMA: 364AA, R3B3241

366

Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK, NH
Surface-mounted applications. Supplied with solid neoprene extrusion.


365

Finishes: AA, BK, D, G
Options: LS, PL, SEC, LK, NH
Surface-mounted applications. Supplied with solid neoprene extrusion.


See ADB Accessories & options page for details.

Finishes:

<table>
<thead>
<tr>
<th>AA</th>
<th>BK</th>
<th>D</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum clear anodized</td>
<td>Aluminum black anodized</td>
<td>Aluminum dark bronze anodized</td>
<td>Aluminum gold anodized</td>
</tr>
</tbody>
</table>

Options:

<table>
<thead>
<tr>
<th>LS</th>
<th>Z49</th>
<th>PL</th>
<th>SEC</th>
<th>LK</th>
<th>NH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light spring</td>
<td>Air flow/ sound block</td>
<td>Removable end cap</td>
<td>Pull out</td>
<td>Torx security screws</td>
<td>Locking key</td>
</tr>
</tbody>
</table>

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**

**369**

<table>
<thead>
<tr>
<th>Finishes:</th>
<th>Options:</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>249 End</td>
<td>369AA</td>
</tr>
<tr>
<td></td>
<td>Cap, PL,</td>
<td>R3B3441</td>
</tr>
<tr>
<td></td>
<td>NH</td>
<td></td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Finishes:</th>
<th>Options:</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA, BK,</td>
<td>PL, SEC,</td>
<td>368AA, 368BK, 368D, 368G</td>
</tr>
<tr>
<td>D, G</td>
<td>LK, NH</td>
<td>R3B3441</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Finishes:</th>
<th>Options:</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA, BK,</td>
<td>SEC, PL,</td>
<td>367AA, 367BK, 367D, 367G</td>
</tr>
<tr>
<td>D, G</td>
<td>LK, NH</td>
<td>R3B3341</td>
</tr>
</tbody>
</table>

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.
Regular duty

350

- Finishes: AA
- Options: LS, PL, NH
- ANSI/BHMA: 350AA, R3B3241
- 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
- Semi-mortised. Supplied with solid neoprene extrusion. Lengths 60-96" available as engineering specials.

351

- Finishes: AA
- Options: LS, PL, NH
- ANSI/BHMA: 351AA, R3B3241
- Surface-mounted. Supplied with solid neoprene extrusion. Lengths 60-96" available as engineering specials.

355

- Finishes: AA
- Options: FLO, PL, NH
- ANSI/BHMA: 355AA, R3B3241
- For use with hollow metal doors. Mortised. Supplied without end caps.

3551

- Finishes: AA
- Options: PL, NH
- ANSI/BHMA: 3551AA, R3B3241
- For use with hollow metal doors. Mortised. Supplied without end caps.

3552

- Finishes: AA
- Options: FLO, PL, NH
- ANSI/BHMA: 3552AA, R3B3261
- For use with hollow metal doors. Mortised. Supplied without end caps.

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, R383241
- Mortised. Lengths 60-96" available as engineering specials.

323

- Finishes: AA
- Options: LS, PL, NH
- ANSI/BHMA: 323A, R383241
- 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
- Surface-mounted. Supplied with two handing holes that allow changing handing without changing mounting orientation. Lengths 60-96" available as engineering specials.

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.
Intumescent automatic door bottoms

364FS

- Finishes: AA
- Options: Z49, PL, NH
- ANSI/BHMA: 364FSAA R383241
- Mortised. Intumescent fire protection.

365FS

- Finishes: AA, BK, D, G
- Options: LK, PL, SEC, NH
- 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.

Options:

- LS: Light spring
- PL: Air flow/sound block
- Z49: Removable end cap
- SEC: Pull out
- Torsion 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

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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 and 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.
Perimeter seals

Accessories and options

Finishes

<table>
<thead>
<tr>
<th>Letter</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Aluminum Mill Finish</td>
</tr>
<tr>
<td>AA</td>
<td>Aluminum Clear Anodized (628, US28)</td>
</tr>
<tr>
<td>BK</td>
<td>Aluminum Black Anodized (711, US315AN)</td>
</tr>
<tr>
<td>D</td>
<td>Aluminum Dark Bronze Anodized (710, US313AN)</td>
</tr>
<tr>
<td>G*</td>
<td>Aluminum Gold Anodized (688, US10AN)</td>
</tr>
<tr>
<td>B</td>
<td>Bronze, Architectural Mill Finish</td>
</tr>
<tr>
<td>B-ORB</td>
<td>Oil-Rubbed Bronze (613, US10B)</td>
</tr>
</tbody>
</table>

Options

- **FLO** Airflow/sound block
- **PSA** Pressure-sensitive adhesive
- **ZAG** Ligature resistant gasketing
- **SEC** Security screws

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 airflow 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.

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 and 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.

*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.

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## Accessories and 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

<table>
<thead>
<tr>
<th>Applicable perimeter seal models</th>
<th>Part #</th>
<th>Description</th>
<th>Finish</th>
<th>Package contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>170, 770, 7770, 770SP, 770TST</td>
<td>47254760</td>
<td>Head and Jamb</td>
<td>AA</td>
<td>19 Screws #8x1-1/2” FPHSDS, ZP</td>
</tr>
<tr>
<td>170D, 770D, 7770D</td>
<td>47254761</td>
<td>Head and Jamb</td>
<td>D, BK</td>
<td>19 Screws #8x1-1/2” FPHSDS, black ZP</td>
</tr>
<tr>
<td>170G, 770G, 7770G</td>
<td>47254762</td>
<td>Head and Jamb</td>
<td>G</td>
<td>19 Screws #8x1-1/2” FPHSDS, brass plate</td>
</tr>
</tbody>
</table>


41, 1840 | 47254801 | Head and Jamb | AA, D | 10 Screws #6x3/4” FPHMS, 10 screws #6x3/4” FPHMS Dark Bronze finish, and 10 Screws #6x3/4” gold finish |

429 | 47254804 | Head and Jamb | AA | 10 Screws #10x3/4” PPHSDS |

43SP, 43STST | 47254805 | Head and 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 and Jamb | All finishes | 6 - #10 x 11/2 FPHMS CLR ZP Flanged, #10 C-sink washer |

383, 383FS | 47254807 | Meeting Stile | AA, D | 10 - #8 x 3/4” FPHMS and 10 #8 x 3/4” FPHMS black ZP |

383, 383FS | 47261363 | Head and Jamb | G | 10 - #8 x 3/4” FPHMS, 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” PPHMS |

56, 156, 557 | 47257629 | Head and 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.

<table>
<thead>
<tr>
<th>Applicable perimeter seal models</th>
<th>Part Number</th>
<th>Description</th>
<th>Finish</th>
<th>Package contents</th>
</tr>
</thead>
</table>

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 |

### 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

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

Accessories and options

**Security thru sex bolt**
Offered for models #43 SP and #43STST, this assembly consists of:
- ¼-20 X .75” (25.4) FPHSMS
- ¼-20 X 1.50” (25.4) sex bolt
It may be used with doors up to 1 ¾” thick.

**Replacement rubber seals**
Replacement seals are available for perimeter seal models containing rubber components. See appendix for replacement rubber seal 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

### 25 Interlocking angle
- **Finishes:** AA, BK, D, G
- **Options:** SEC

---

**See Perimeter seals Accessories & options page for details.**

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Finish</th>
<th>Set/ options</th>
<th>Length/ width</th>
<th>Height</th>
<th>Metric</th>
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<td>36</td>
<td>84</td>
<td></td>
</tr>
</tbody>
</table>

### Models
- Example
  - 39  Sweep
  - 140  Head and jamb, astragal-meeting stile
  - 328* Head and jamb, astragal-meeting stile, sweep
  - 429  Head and jamb
  - 511  Door shoe
  - 8198 Sweep

### Finishes
- 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

### Options
- Blank  Straight stick length only, sweeps and astragals always stick
- S  Door set, width always given first, only available for “Head and 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

### Length/Width
- **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”

### Height
- **Height**  For use with sets, use decimal to nearest 1/8” always measure following “x” when “S” set is denoted.

### Metric
- Blank = US standard
- MM = Metric in millimeters (rounded to the nearest 1/8”)
Perimeter seals

Door sweeps

39

339

539

39W

339W

328

See Perimeter seals Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finish(s)</th>
<th>Options</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, BK, D, G</td>
<td>SEC</td>
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</tr>
<tr>
<td>AA, BK, D, G</td>
<td>B, B-ORB</td>
<td>339WA, 339WB, 339WD, 339WG</td>
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<tr>
<td>AA, BK, D, G</td>
<td>B, B-ORB</td>
<td>328AA, 328BB, 328BD, 328BG</td>
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</table>

<table>
<thead>
<tr>
<th>Options</th>
<th>ANSI/BHMA:</th>
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</thead>
<tbody>
<tr>
<td>ZAG, S, SEC</td>
<td>339WA, 339WB, 339WD, 339WG</td>
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<tr>
<td>ZAG, S, SEC</td>
<td>328AA, 328BB, 328BD, 328BG</td>
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<thead>
<tr>
<th>Note:</th>
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<tbody>
<tr>
<td>FLO</td>
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<td>PSA</td>
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<tr>
<td>ZAG</td>
</tr>
<tr>
<td>S</td>
</tr>
<tr>
<td>SEC</td>
</tr>
</tbody>
</table>

Appendix

Specialty applications

Sound control

Intumescent

Weatherstripping

Automatic door bottoms

Perimeter seals

Thresholds

Notes:

- Appendino Specialty applications
- Sound control
- Intumescent
- Weatherstripping
- Automatic door bottoms
- Perimeter seals

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Perimeter seals

Door sweeps

50M

Finishes:
- AA, BK, D, G
- 50MAB, 50MAA, 50MD, 50MG

Options:
- SEC

ANSI/BHMA: 50MAB, 50MAA, 50MD, 50MG R38434

477

Finishes:
- AA, BK, D, G

Options:
- SEC

ANSI/BHMA: A77AA, A77BK, A77D, A77G R38434

Specify End Cap option for a clean look on edges.

8191

Finishes:
- AA, BK, D, G

Options:
- SEC

ANSI/BHMA: 8191AA, 8191BK, 8191D, 8191G R38434

329

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

Options:
- SEC


8197

Finishes:
- AA, BK, D, G

Options:
- SEC

ANSI/BHMA: 8197AA, 8197BK, 8197D, 8197G R38536

571

Finishes:
- AA, BK, D, G

Options:
- SEC

Specify End Cap option for a clean look on edges.

See Perimeter seals Accessories & options page for details.

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

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

Note:
- Appendix
- Specialty applications
- Weatherstripping
- Intumescent
- Sound control
- Thresholds
- Automatic door bottoms

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Perimeter seals

**Door sweeps**

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

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

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

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

### 96
- **Finishes:** A, BK, D, G
- **Options:** PSA, SEC
- **ANSI/BHMA:** 96A, 96BK, 96D, 96G

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

### 98
- **Finishes:** AA, BK, D, G
- **Options:** PSA, SEC
- **ANSI/BHMA:** 98AA, 98BK, 98DK, 98G

- **Nylon brush**
- **.075” (1.9)**
- **1.250” (31.8)**

**See Perimeter seals Accessories & options page for details.**

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<td>Pressure-sensitive adhesive</td>
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<tr>
<td>S</td>
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<tr>
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<td>Security screws</td>
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</table>
Perimeter seals

Door sweeps

8194

#6 x 1.00" (25.4)
PPHSDS

2.20"
(5.6)

5.90"
(14.9)

3.75"
(9.5)

Neoprene lip

8193

#6 x 1.00" (25.4)
PPHSDS

2.20"
(5.6)

5.90"
(14.9)

3.75"
(9.5)

Nylon brush

8198

#6 x 1.00" (25.4)
PPHSDS

5.90"
(14.9)

3.75"
(9.5)

Nylon brush

639W

#6 x 1.00" (25.4)
PPHSDS

.195"
(5.0)

1.250"
(31.8)

.070"
(1.8)

Solid neoprene .125" (3.2) x 4.00" (101.6)

95

#6 x 1.00" (25.4)
PPHSDS

.250"
(6.4)

1.500"
(38.1)

3.00"
(76.2)

Neoprene

93

#10 x 1.50" (38.1)
PFSMS

.375"
(9.5)

.187"
(4.7)

Neoprene

See Perimeter seals Accessories & options page for details.

Finish options:

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

7894AA, 8194BK, 8194C, 8194G

Options:

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

ANSI/BHMA:

8194AA, 8194BK, 8194D, 8194G

Surface-mounted with rain drip.

Note:

639WA, 639WAA, 639W BK, 639WD, 639WG

ANSI/BHMA:

639WA, 639WAA, 639W BK, 639WD, 639WG

Suitable for heavy-duty overhead door

98

8198

8194

8193

95

93

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Perimeter seals

Door shoes

111

110

153

154

253

254

452

72

52

See Perimeter seals Accessories & options page for details.

Options:

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

Note:

For overhead doors. Supplied unassembled for ease of installation.

Supplied unassembled for ease of installation.
### Perimeter seals

#### Door shoes

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<tr>
<td>8049R</td>
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<td>53</td>
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<td>8149</td>
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<td>A, R3A426</td>
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**See Perimeter seals Accessories & options page for details.**

<table>
<thead>
<tr>
<th>Options</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLO</td>
<td>Air flow/ sound block</td>
</tr>
<tr>
<td>PSA</td>
<td>Pressure-sensitive adhesive</td>
</tr>
<tr>
<td>ZAG</td>
<td>Ligature resistant gasketing</td>
</tr>
<tr>
<td>S</td>
<td>Order as a set</td>
</tr>
<tr>
<td>SEC</td>
<td>Security screws</td>
</tr>
</tbody>
</table>

**Specialty applications**

- Sound control
- Intumescent
- Weatherstripping
- Perimeter seals
- Automatic door bottoms

**Perimeter seals**

**See Perimeter seals Accessories & options page for details.**
**Perimeter seals**

**Intumescent door sweeps and 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:** A, AA, BK, D, G
- **Options:** SEC

Intumescent door sweep
Restore 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.

**339FS**

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

Intumescent door sweep
Restore 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.

**521FS**

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

Intumescent door shoe, mortised.

---

**59FS**

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

Intumescent door sweep

---

**253FS**

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

Supplied unassembled for ease of installation.

---

**111FS**

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

Intumescent door sweep

---

See Perimeter seals Accessories & options page for details.

**Finish Options**

- **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

Adjustable sealing systems – jamb-applied

770

CASED FRAME

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

Fits: AA, BK, D, G

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

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

770FS

FRAME

Finishes: AA, BK, D, G

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

Fits: AA, BK, D, G

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

CASED FRAME

Finishes: AA, BK, D, G

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

Fits: AA, BK, D, G

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

See Perimeter seals Accessories & options page for details.

Note:
Verify frame manufacturer is approved to use applied stop.
Perimeter seals

Adjustable sealing systems – jamb-applied

### 7770

**FRAME**
- Solid neoprene
- Sponge neoprene

Dimensions:
- Solid neoprene: 0.914" (23.2)
- Sponge neoprene: 1.250" (31.8)

**Options**
- Stainless steel plate cover with PSA (Optional, by others)

**Note:**
- 7770AA, 7770BK, 7770D, 7770G
- R38264

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

### 770SP / 770STST

**CASED FRAME**
- Solid neoprene
- Sponge neoprene

Dimensions:
- Solid neoprene: 0.914" (23.2)
- Sponge neoprene: 1.200" (30.5)

**Options**
- Stainless steel adjusting screw 11.813" O.C.
- Adjustable range 0.310" (7.9)

**Note:**
- 770SP, 770STST
- R38264

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

**Options**
- #8 x 1.50" (38.1) FPHSMS

Dimensions:
- Solid neoprene: 0.093" (2.4)
- Sponge neoprene: 0.914" (23.2)

**Note:**
- 712AA, 712BK, 712D, 712G
- R38264

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

### 870

**Options**
- #6 x 1.00" (25.4) PPHSDS

Dimensions:
- .875" (22.2)
- .500" (12.7)

**Note:**
- 870AA, 870BK, 870D, 870G
- R38264

Unit has adjusting screws approx. 10" on center. Max adjustment range .250" (6.4).

### 873

**Options**
- #6 x 1.00" (25.4) PPHSDS

Dimensions:
- .875" (22.2)
- .500" (12.7)

**Note:**
- 873AA, 873BK, 873D, 873G
- R38265

Unit has adjusting screws approx. 10" on center.

---

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.
### Perimeter seals

#### Head and jamb gasketing

### 3708

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 470AA, 470BK, 470D, 470G R3C154

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

### 3709

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 472AA, 472BK, 472D, 472G R3B154

Extruded Bulb/Finger for double-sealing protection.

### 470

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 470AA, 470BK, 470D, 470G R3C154

### 472

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 472AA, 472BK, 472D, 472G R3B154

### 270

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 270A, 270BK, 270D, 270G R3C154

### 272

- **Finish:** AA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 272A, 272BK, 272D, 272G R3B154

#### Additional Specifications

- **3708:**
  - **Sound energy absorber:** Closed cell sponge neoprene
  - **Snap-on cover:** Solid neoprene
  - **Magnet:**
  - **Dimensions:**
    - Magnet: 0.711" (18.1)
    - Sound energy absorber: 0.62" (1.6)
    - Snap-on cover: 1.375" (34.9)
  - **Length:** 2.00" (50.8)

- **3709:**
  - **Sound energy absorber:** Closed cell sponge neoprene
  - **Snap-on cover:** Solid neoprene
  - **Dimensions:**
    - Snap-on cover: 1.375" (34.9)
    - Magnet: 0.711" (18.1)
    - Sound energy absorber: 0.62" (1.6)
  - **Length:** 2.00" (50.8)

- **470:**
  - **Sound energy absorber:** Solid neoprene
  - **Snap-on cover:** Solid neoprene
  - **Dimensions:**
    - Magnet: 0.848" (21.6)
    - Sound energy absorber: 0.62" (1.6)
    - Snap-on cover: 1.375" (34.9)
  - **Length:** 2.00" (50.8)

- **472:**
  - **Sound energy absorber:** Solid neoprene
  - **Snap-on cover:** Solid neoprene
  - **Dimensions:**
    - Magnet: 0.848" (21.6)
    - Sound energy absorber: 0.62" (1.6)
    - Snap-on cover: 1.375" (34.9)
  - **Length:** 2.00" (50.8)

### See Perimeter seals Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Options</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Aluminum mill finish</td>
<td></td>
</tr>
<tr>
<td>AA</td>
<td>Aluminum clear anodized</td>
<td></td>
</tr>
<tr>
<td>BK</td>
<td>Aluminum black anodized</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Aluminum dark bronze anodized</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Aluminum gold anodized</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Bronze, architectural mill finish</td>
<td></td>
</tr>
<tr>
<td>B-ORB</td>
<td>Oil-rubbed aged bronze</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Appendix:**
  - Specialty applications
    - Sound control
    - Intumescent
    - Weatherstripping
    - Perimeter seals
    - Automatic door bottoms

- **Sound energy absorber:**
  - Closed cell sponge neoprene
  - Solid neoprene

- **#6 x 1.00" (25.4) PPHSDS**

- **.062" (1.6)**

- **.711" (18.1)**

- **1.00" (25.4)**

- **References:**
  - Zero International: www.zerointernational.com
  - Door sealing systems
  - Zero
  - 71
Perimeter seals

Head and jamb gasketing

485

- **#6 x 1.00"(25.4) PPHSDS**
- **.125"(3.2)**
- **.351" (8.9)**
- **.563" (14.3)**

**Finish options:**
- AA, BK, D, G
- 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.

487

- **#6 x 1.00"(25.4) PPHSDS**
- **.125" (3.2)**
- **.881" (22.4)**

**Finish options:**
- AA, BK, D, G
- S, SEC

**ANSI/BHMA:**
- 487AA, 487BK, 487D, 487G R3B154

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

475

- **#6 x 1.00" (25.4) PPHSDS**
- **.125" (3.2)**
- **.391" (9.9)**

**Finish options:**
- AA, BK, D, G
- 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

- **#6 x 1.00" (25.4) PPHSDS**
- **.125" (3.2)**
- **.711" (18.1)**

**Finish options:**
- AA, BK, D, G
- 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

- **#6 x 1.00" (25.4) PPHSDS**
- **.125" (3.2)**
- **.480" (12.2)**

**Finish options:**
- AA, BK, D, G
- S, SEC

**ANSI/BHMA:**
- 570AA, 570BK, 570D, 570G R3E164

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

370

- **#6 x 1.00" (25.4) PPHSDS**
- **.656" (16.7)**
- **1.00" (25.4)**

**Finish options:**
- A, BK, D, G

**ANSI/BHMA:**
- 370A, 370BK, 370D, 370G R3L155

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

375

- **#6 x 1.00" (25.4) PPHSDS**
- **.629" (16.0)**
- **9.84" (25.0)**

**Finish options:**
- A, BK, D, G

**ANSI/BHMA:**
- 375A, 375BK, 375D, 375G R3L165

Magnetic head and 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:**
Head and jamb gasketing

Perimeter seals

139

- **Closed cell sponge neoprene**
  - **.125” (3.2) x 1.250” (31.8)**

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

**Options:**
- ANSI/BHMA: 139A, 139BK, 139D, 139G

**Note:**
ZAG option for mental health applications includes security screws.

312

- **Closed cell sponge neoprene**
  - **.125” (3.2) x .500” (12.7)**

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

**Options:**
- ANSI/BHMA: 312A, 312BK, 312D, 312G

314

- **Closed cell sponge neoprene**
  - **.125” (3.2) x .750” (19.1)**

**Finishes:**
- AA, BK, D, G, B, B-ORB

**Options:**
- ANSI/BHMA: 314AA, 314BK, 314D, 314G

318

- **Closed cell sponge neoprene**
  - **.375” (9.5) x .750” (19.1)**

**Finishes:**
- AA, BK, D, G

**Options:**
- ANSI/BHMA: 318AA, 318BK, 318D, 318G

322

- **Closed cell sponge neoprene**
  - **.375” (9.5) x .750” (19.1)**

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

**Options:**
- ANSI/BHMA: 322A, 322BK, 322D, 322G

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:**
- Appendix Speciality applications
- Sound control
- Intumescent
- Weatherstripping
- Perimeter seals
- Automatic door bottoms
- Thresholds

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## Perimeter seals

### Head and jamb gasketing

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<td><img src="image2" alt="Diagram of Perimeter seal 1370" /></td>
<td><img src="image3" alt="Diagram of Perimeter seal 376" /></td>
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<tr>
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<td><strong>Options:</strong> PSA, S, SEC</td>
<td><strong>Options:</strong> PSA, S, SEC</td>
</tr>
<tr>
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<td><strong>ANSI/BHMA:</strong> 1370A, 1370BK, 1370D, 1370G</td>
<td><strong>ANSI/BHMA:</strong> 376A, 376BK, 376D, 376G</td>
</tr>
<tr>
<td><strong>Supplied standard with PSA.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5831FS

- **Finishes:** AAA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 5831FS-AA, 5831FS-BK, 5831FS-D, 5831FS-G
- **Supplied standard with PSA.**

### 5832FS

- **Finishes:** AAA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 5832FS-AA, 5832FS-BK, 5832FS-D, 5832FS-G
- **Supplied standard with PSA.**

### 58FS

- **Finishes:** AAA, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 58FS-AA, 58FS-BK, 58FS-D, 58FS-G
- **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
- **Supplied standard with PSA.**

### 99

- **Finishes:** A, BK, D, G
- **Options:** ZAG, S, SEC
- **ANSI/BHMA:** 99A, 99BK, 99D, 99G
- **For applications with very small clearances between door and frame.**

### 100

- **Finishes:** A, BK, D, G
- **Options:** S, SEC
- **ANSI/BHMA:** 100A, 100BK, 100D, 100G
- **For applications with very small clearances between door and frame.**

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See Perimeter seals Accessories & options page for details.

<table>
<thead>
<tr>
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<td>Aluminum mill finish</td>
<td></td>
</tr>
<tr>
<td>AA</td>
<td>Aluminum clear anodized</td>
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</tr>
<tr>
<td>BK</td>
<td>Aluminum black anodized</td>
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</tr>
<tr>
<td>D</td>
<td>Aluminum dark bronze anodized</td>
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</tr>
<tr>
<td>G</td>
<td>Aluminum gold anodized</td>
<td></td>
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<tr>
<td>B</td>
<td>Bronze, architectural mill finish</td>
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<tr>
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</tr>
<tr>
<td>FLO</td>
<td>Air flow/ sound block</td>
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<tr>
<td>PSA</td>
<td>Pressure-sensitive adhesive</td>
<td></td>
</tr>
<tr>
<td>ZAG</td>
<td>Ligature resistant gasketing</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Order as a set</td>
<td></td>
</tr>
<tr>
<td>SEC</td>
<td>Security screws</td>
<td></td>
</tr>
</tbody>
</table>

---

See Perimeter seals Accessories & options page for details.
Head and jamb gasketing

31

\[ \text{Silicone} \]

\[ \text{Poly pile} \]

\[ \text{PSA} \]

Options: S, SEC

For applications with very small clearances between door and frame.

Finishes: AA, BK, D, G

ANSI/BHMA: 31AA, 31BK, 31D, 31G R3E164

5831

\[ \text{Silicone} \]

\[ \text{Poly pile} \]

\[ \text{PSA} \]

Options: S, SEC

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

Finishes: AA, BK, D, G

ANSI/BHMA: 5831AA, 5831BK, 5831D, 5831G R3E164

32

\[ \text{Silicone} \]

\[ \text{Poly pile} \]

\[ \text{PSA} \]

Options: S, SEC

For applications with very small clearances between door and frame.

Finishes: AA, BK, D, G

ANSI/BHMA: 32AA, 32BK, 32D, 32G R3F166

33

\[ \text{Silicone} \]

\[ \text{Poly pile} \]

\[ \text{PSA} \]

Options: S, SEC

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

Finishes: AA, BK, D, G

ANSI/BHMA: 33AA, 33BK, 33D, 33G R3E164

See Perimeter seals Accessories & options page for details.

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

326

Options: #6 x 1.00"(25.4) PPHSDS

Solid neoprene

1.00"(25.4)

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

328

Options: #6 x 1.00"(25.4) PPHSDS

Solid neoprene

1.00"(25.4)

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

429

Options: #6 x 1.00"(25.4) PPHSDS

Silicone

250" (6.4)

1500" (38.1)

Finishes: AA, BK, D, G

8305

Options: #6 x 1.00"(25.4) PPHSDS

Nylon brush

279" (71)

500" (12.7)

Finishes: AA, BK, D, G

302FS

Options: #6 x 1.00"(25.4) PPHSDS

Solid neoprene

1.00"(25.4)

Intumescent

219" (5.6)

Finishes: AA, BK, D, G, B

328FS

Options: #6 x 1.00"(25.4) PPHSDS

Solid neoprene

1.00"(25.4)

Intumescent

408" (10.4)

Finishes: AA, BK, D, G

See Perimeter seals Accessories & options page for details.

Appendix

Specialty applications

Weatherstripping

Intumescent

Sound control

Automatic door bottoms

Thresholds

76 · Zero · Door sealing systems · www.zerointernational.com
Head and jamb gasketing

8193

- **#6 x 1.00” (25.4) PPHSDS**
- **Nylon brush**
- **.590” (14.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B193AA, B193BK, B193D, B193G

**Note:**
- R3A166

8302

- **#6 x 1.00” (25.4) PPHSDS**
- **Solid neoprene**
- **.590” (14.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B302AA, B302BK, B302D, B302G

**Note:**
- R3B164

8303

- **#6 x 1.00” (25.4) PPHSDS**
- **Silicone**
- **.125” (3.2)**
- **.250” (6.4)**
- **.590” (14.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B303AA, B303BK, B303D, B303G

**Note:**
- R3E164

8306

- **#6 x 1.00” (25.4) PPHSDS**
- **Silicone**
- **.125” (3.2)**
- **.250” (6.4)**
- **.590” (14.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B306AA, B306BK, B306D, B306G

**Note:**
- R3E164

8877

- **#6 x 1.00” (25.4) PPHSDS**
- **Silicone**
- **.125” (3.2)**
- **.250” (6.4)**
- **.625” (15.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B877AA, B877BK, B877D, B877G

**Note:**
- R3B164

8879

- **#6 x 1.00” (25.4) PPHSDS**
- **Silicone**
- **.125” (3.2)**
- **.250” (6.4)**
- **.625” (15.9)**
- **.220” (5.6)**

**Finishes:**
- AA, BK, D, G

**Options:**
- S, SEC

**ANSI/BHMA:**
- B879AA, B879BK, B879D, B879G

**Note:**
- R3A166

---

**See Perimeter seals Accessories & options page for details.**

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

**Note:**
- Appendix
Perimeter seals

Meeting stiles

Adjustable surface-mounted meeting stiles for beveled doors

See Perimeter seals Accessories & options page for details.

Appendix

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.
Meeting stiles

Adjustable mortised meeting stiles for bull-nosed doors

56 557

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.

See Perimeter seals Accessories & options page for details.

Order components separately.

56FS 557FS

Finishes: AA, BK, D, G

Order components separately.

3056FS 3557FS

Finishes: AA, BK, D, G

Order components separately.

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

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

8192

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

8193

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

8194

- Finishes: AA, BK, D, G
- Options: PSA, SEC
- ANSI/BHMA: 8194AA, 8194BK, 8194D, 8194G
- R3B734

8195

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

8879

- Finishes: AA, BK, D, G
- Options: PSA, SEC
- ANSI/BHMA: 8879AA, 8879BK, 8879D, 8879G
- R3A735

8193

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

8879

- Finishes: AA, BK, D, G
- Options: PSA, SEC
- ANSI/BHMA: 8879AA, 8879BK, 8879D, 8879G
- R3A735

8194

- Finishes: AA, BK, D, G
- Options: PSA, SEC
- ANSI/BHMA: 8194AA, 8194BK, 8194D, 8194G
- R3B734

8195

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

8879

- Finishes: AA, BK, D, G
- Options: PSA, SEC
- ANSI/BHMA: 8879AA, 8879BK, 8879D, 8879G
- R3A735

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: S, SEC
- #6 x 1.00” (25.4) PPHSDS
- .395” (10.0)
- 1.00” (25.4)
- Silicone seal

100

- Finishes: A, BK, D, G
- Options: S, SEC
- ANSI/BHMA: 100A, 100BK, 100D, 100G
- #6 x 1.00” (25.4) PPHSDS
- .395” (10.0)
- 1.00” (25.4)
- Silicone seal

326

- Finishes: AA, BK, D, G, B, B-ORB
- Options: ZAG, S, SEC
- ANSI/BHMA: 326AA, 326BK, 326D, 326G
- #6 x 1.00” (25.4) PPHSDS
- .219” (5.6)
- 1.00” (25.4)
- Solid neoprene

328

- Finishes: AA, BK, D, G, B, B-ORB
- Options: ZAG, S, SEC
- ANSI/BHMA: 328AA, 328BK, 328D, 328G
- #6 x 1.00” (25.4) PPHSDS
- .219” (5.6)
- 1.00” (25.4)
- Solid neoprene

370

- Finishes: AA, BK, D, G
- ANSI/BHMA: 370AA, 370BK, 370D, 370G
- #6 x 1.00” (25.4) PPHSDS
- .655” (16.7)
- 1.00” (25.4)
- Vinyl Magnet

375

- Finishes: AA, BK, D, G
- ANSI/BHMA: 375AA, 375BK, 375D, 375G
- #6 x 1.00” (25.4) PPHSDS
- .629” (16.0)
- .984” (25.0)
- Vinyl Magnet
- Snap-on cover

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

34 560" (14.2) 380" (9.7) 300" (7.6)
Pile with fin seal EPDM rubber #6x1" (25.4) FPHWS

38 560" (14.2) 460" (11.7)

35 380" (9.7) .560" (14.2)
Silicone seal EPDM rubber #6x1" (25.4) FPHWS

38 380" (9.7) 460" (11.7)

36 560" (14.2) 250" (6.3)
Silicone seal EPDM rubber #6x1" (25.4) FPHWS

38 560" (14.2) 460" (11.7)

53 380" (9.7) .313" (8.0)
#6 x 1.00" (25.4) PPH5DS Silicone seal Solid neoprene

38 560" (14.2) 460" (11.7)

398V .300" (7.6) .380" (9.7)
PVC with PSA Pile with fin seal

399V .125" (3.2) .380" (9.7)
PVC with PSA Silicone seal

See Perimeter seals Accessories & options page for details.

Finishes:
- AA 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.
Meeting stiles

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

59FS

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.

See Perimeter seals Accessories & options page for details.

Perimeters seals

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

8217S

Options: FLO, SEC

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

381

Neoprene lip

#6 x 1.00” (25.4) PPH50S

Finish: A FLO, SEC

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

59FS

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.

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

Meeting stiles

Astragals — One door active or coordinating doors

### 905

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

### 47

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

### 383

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

### 44

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

Stainless steel finish only.

### 383FS

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

90 minute max fire rating.

### 43

Security astragal

- **Active Door:**
- **Strike plate by others:**
- **Steel prime or Stainless steel:**
- **1/4-20x1*(25.4) Thru bolt:**
- **.795" (20.2)**
- **2.250" (57.2)**
- **.531" (13.5)**

### 47

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

Stainless steel finish only.

### 383

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

90 minute max fire rating.

### 44

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

Stainless steel finish only.

### 383FS

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

90 minute max fire rating.

### 43

Security astragal

- **Active Door:**
- **Strike plate by others:**
- **Steel prime or Stainless steel:**
- **1/4-20x1*(25.4) Thru bolt:**
- **.795" (20.2)**
- **2.250" (57.2)**
- **.531" (13.5)**

### 47

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

Stainless steel finish only.

### 383

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

90 minute max fire rating.

### 44

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

Stainless steel finish only.

### 383FS

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

90 minute max fire rating.

### 43

Security astragal

- **Active Door:**
- **Strike plate by others:**
- **Steel prime or Stainless steel:**
- **1/4-20x1*(25.4) Thru bolt:**
- **.795" (20.2)**
- **2.250" (57.2)**
- **.531" (13.5)**

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.
Meeting stiles

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

1840/41

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

40/41

Finishes: AA, BK, D, G
ANSI/BHMA: 40AA, 40BK, 40D, 40G R3L635
Magnetic astragal, inswing. For use on interior metal doors only. Available to order as engineering special.

1840

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

40

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

See Ives catalog for door coordinators.
Perimeter seals

Meeting stiles

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

139

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

140

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

322

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

339

Finishes: AA, BK, D, G, B, B-ORB
Options: SEC

See Perimeter seals Accessories & options page for details.

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.
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.

### Compatible gasketing for door closer brackets

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<tr>
<th>Finishes</th>
<th>Options</th>
<th>Note</th>
</tr>
</thead>
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<td>A</td>
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<tr>
<td>AA</td>
<td>PSA</td>
<td></td>
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<tr>
<td>BK</td>
<td>ZAG</td>
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</tr>
<tr>
<td>D</td>
<td>S</td>
<td></td>
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<tr>
<td>G</td>
<td>SEC</td>
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<thead>
<tr>
<th>328SPB</th>
<th>870SPB</th>
<th>770SPB</th>
</tr>
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<tbody>
<tr>
<td>Height</td>
<td>Width</td>
<td>Height</td>
</tr>
<tr>
<td>.500&quot;</td>
<td>1.375&quot;</td>
<td>.750&quot;</td>
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<td>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</td>
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<tr>
<td>1.375&quot;</td>
<td>1.156&quot;</td>
<td>1.313&quot;</td>
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<td>1.375&quot;</td>
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</tr>
<tr>
<td>1.375&quot;</td>
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See Perimeter seals Accessories & options page for details.
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Poly pile seals with PVC and polycarbonate housings – for swinging and sliding doors
137 ................................................................. 100
138 ................................................................. 100
8136 ................................................................. 100
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Edge protection for glass sliding doors
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Astragals for swinging doors
133 ................................................................. 101
134 ................................................................. 101
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8192 ................................................................. 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)

<table>
<thead>
<tr>
<th>High quality self adhesive</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Strong initial adhesion</td>
</tr>
<tr>
<td>- Long term holding power</td>
</tr>
<tr>
<td>- Holds well even on contaminated surfaces</td>
</tr>
</tbody>
</table>

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

Accessories and options

Finishes

<table>
<thead>
<tr>
<th>Finish</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>Black</td>
</tr>
<tr>
<td>BR</td>
<td>Brown</td>
</tr>
<tr>
<td>CL</td>
<td>Clear</td>
</tr>
<tr>
<td>GY</td>
<td>Gray</td>
</tr>
<tr>
<td>WH</td>
<td>White</td>
</tr>
<tr>
<td>B</td>
<td>Bronze, Architectural Mill Finish</td>
</tr>
<tr>
<td>Z</td>
<td>Zinc Mill Finish</td>
</tr>
</tbody>
</table>

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.

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.

<table>
<thead>
<tr>
<th>Models</th>
<th>Category</th>
<th>Part number</th>
<th>Finish</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>4, 5, 18, 19, 19W, 23, 400, 500, 4000, 5000</td>
<td>Metal weatherstripping</td>
<td>47253928</td>
<td>B, Z</td>
<td>10 Nails #16 x 7/8&quot; and 10 Waferhead drive screws #4 x 5/16&quot;</td>
</tr>
</tbody>
</table>

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
How to order

<table>
<thead>
<tr>
<th>Models</th>
<th>Finish</th>
<th>Length</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>BK</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>188S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>318N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>824N</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Finishes**

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

*See profile for finish options.

**Length**

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

**Options**

- **PSA** - Pressure sensitive adhesive, standard on some models
- **ZAG** - Ligature-resistant

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

8810S

- .500" (12.7) 
- .250" (6.4) 
- .250" (6.4)

Finishes: BK, WH
ANSI/BHMA: 8810S R0E186

8800S

- .562" (14.3) 
- .250" (6.4)

Finishes: BK, WH
ANSI/BHMA: 8800S R0E186

8052N

- .375" (9.5) 
- .250" (6.4)

Finishes: BK
ANSI/BHMA: 8052N R0C186

8812S

- .625" (15.9) 
- .250" (6.4) 
- .250" (6.4) 
- .125" (3.2)

Finishes: BK, WH
ANSI/BHMA: 8812S R0E186

8841R

- .438" (11.1) 
- .312" (7.9) 
- .125" (3.2)

Finishes: BK
ANSI/BHMA: 8841R R0J186

8004N

- .150" - .375" (3.8 - 9.5) 
- .250" (6.4) 
- .125" (3.2)

Finishes: BK
ANSI/BHMA: 8004N R0B186

See Weatherstripping Accessories & options page for details.

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

8043N

8048S

8054S

8055S

8056S

8053Q

See Weatherstripping Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finishes:</th>
<th>Options:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK, WH</td>
<td>PSA</td>
</tr>
<tr>
<td>BK</td>
<td>ZAG</td>
</tr>
<tr>
<td>BR, WH</td>
<td></td>
</tr>
<tr>
<td>CL</td>
<td></td>
</tr>
<tr>
<td>GY</td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
</tr>
</tbody>
</table>

Vinyl-covered foam.

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

188S/188FS/188BIO

Material/Finishes:
- S: BK, BR, CL, GY, WH
- FS: BK
- BIO: BR

Options:
- ZAG

ANSI/BHMA:
- 188S R0E154
- 188FS R0U154
- 188BIO R0U154

188S
- PSA standard, 20-minute fire rating.
188FS
- Intumescent rubber for fire and smoke protection.
188BIO
- BioWall antimicrobial rubber, PSA standard.

8144S/8144FS

Material/Finishes:
- S: BK, WH
- FS: BK
- BIO: BR

Options:
- ZAG

ANSI/BHMA:
- 8144S R0E154
- 8144FS R0U154

8144S
- PSA standard.
8144FS
- Intumescent rubber for fire and smoke protection.

8042S

Material/Finishes:
- S: BK
- FS: ZAG
- BIO: BR

Options:
- ZAG

ANSI/BHMA:
- 8042S R0E154
- 8042FS R0U154

8042S
- PSA standard.

8145S

Material/Finishes:
- S: BK, BR
- Options:
- ZAG

ANSI/BHMA:
- 8145S R0E154

8145S
- PSA standard.

824N

Material/Finishes:
- BK
- Options:
- ZAG

ANSI/BHMA:
- 824N R0B154

824N
- PSA standard.
### Solid neoprene and silicone seals (cont.)

<table>
<thead>
<tr>
<th>Style</th>
<th>Finish</th>
<th>Options</th>
<th>ANSI/BHMA Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8216S</td>
<td>BK</td>
<td>PSA</td>
<td>8216S R0C155</td>
<td>PSA standard.</td>
</tr>
<tr>
<td>117S</td>
<td>BK</td>
<td>PSA</td>
<td>117S R0C155</td>
<td>PSA standard.</td>
</tr>
<tr>
<td>8150S</td>
<td>BK</td>
<td>PSA</td>
<td>8150S R0C155</td>
<td>PSA standard.</td>
</tr>
</tbody>
</table>

### Closed cell sponge neoprene seals

<table>
<thead>
<tr>
<th>Style</th>
<th>Finish</th>
<th>Options</th>
<th>ANSI/BHMA Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8172N</td>
<td>BK</td>
<td>PSA</td>
<td>8172N R0C155</td>
<td>PSA standard.</td>
</tr>
<tr>
<td>8770N</td>
<td>BK</td>
<td>PSA</td>
<td>8770N R0C155</td>
<td>PSA standard.</td>
</tr>
<tr>
<td>312N</td>
<td>BK</td>
<td>PSA</td>
<td>312N R0C155</td>
<td>PSA standard.</td>
</tr>
</tbody>
</table>

### See Weatherstripping Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finishes</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>PSA</td>
<td>Pressure-sensitive adhesive</td>
</tr>
<tr>
<td>BR</td>
<td>ZAG</td>
<td>Ligature-resistant gasketing</td>
</tr>
<tr>
<td>CL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>Architectural mill finish bronze</td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td>Mill finish Zinc</td>
</tr>
</tbody>
</table>
Weatherstripping

Self-adhesive weatherstripping
Closed cell sponge neoprene seals (cont.)

2070N

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td></td>
<td>.250&quot; (6.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.375&quot; (9.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.250&quot; (6.4)</td>
</tr>
</tbody>
</table>

810N

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>PSA</td>
<td>.625&quot; (15.9)</td>
</tr>
</tbody>
</table>

811N

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>PSA</td>
<td>.625&quot; (15.9)</td>
</tr>
</tbody>
</table>

812N

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>ZAG</td>
<td>.500&quot; (12.7)</td>
</tr>
<tr>
<td></td>
<td>PSA</td>
<td>1.00&quot; (25.4)</td>
</tr>
</tbody>
</table>

813N

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>ZAG</td>
<td>.625&quot; (15.9)</td>
</tr>
<tr>
<td></td>
<td>PSA</td>
<td>1.250&quot; (31.8)</td>
</tr>
</tbody>
</table>

Pile brush seals

137P

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK, GY</td>
<td>PSA</td>
<td>.220&quot; (5.6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.270&quot; (6.9)</td>
</tr>
</tbody>
</table>

8136P

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>PSA</td>
<td>.300&quot; (7.6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.188&quot; (4.8)</td>
</tr>
</tbody>
</table>

34P

<table>
<thead>
<tr>
<th>Finish</th>
<th>Option</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK, GY</td>
<td>PSA</td>
<td>.400&quot; (10.2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.270&quot; (6.9)</td>
</tr>
</tbody>
</table>

See Weatherstripping Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>PSA, ZAG</td>
</tr>
<tr>
<td>BR</td>
<td>Black, PSA, ZAG</td>
</tr>
<tr>
<td>CL</td>
<td>Clear, PSA</td>
</tr>
<tr>
<td>GY</td>
<td>Gray, PSA, ZAG</td>
</tr>
<tr>
<td>WH</td>
<td>White, PSA</td>
</tr>
<tr>
<td>B</td>
<td>Architectural mill finish bronze, PSA</td>
</tr>
<tr>
<td>Z</td>
<td>Mill finish Zinc, PSA</td>
</tr>
</tbody>
</table>

Also suitable for glass door application -- see Specialized Solutions. PSA standard.
Weatherstripping for doors and windows

Cushion-spring seals for wood doors and frames

18

Finishes: ANSI/BHMA:
B 18B R1K155

34 gauge bronze spring.

118

Finishes: ANSI/BHMA:
B 118B R1K155

PSA 102 (12.7)

34 gauge bronze spring. PSA Standard.

19

Finishes: ANSI/BHMA:
B 19B R1K155

34 gauge bronze spring.

119

Finishes: ANSI/BHMA:
B 119B R1K155

PSA 102 (12.7)

34 gauge bronze spring. PSA Standard.

19W

Finishes: ANSI/BHMA:
B 19WB R1K155

34 gauge bronze spring.

119W

Finishes: ANSI/BHMA:
B 119WB R1K155

PSA 102 (12.7)

34 gauge bronze spring. PSA Standard.

Jamb seals for double-hung wood windows

4

Finishes: B, Z

1.750" (44.5)

2.000" (50.8)

390" (9.9)

400

Finishes: B, Z

1.750" (44.5)

2.000" (50.8)

390" (9.9)

4000

Finishes: B, Z

1.750" (44.5)

2.000" (50.8)

390" (9.9)

500

Finishes: B, Z

1.750" (44.5)

2.000" (50.8)

390" (9.9)

5000

Finishes: B, Z

1.750" (44.5)

2.000" (50.8)

390" (9.9)

See Weatherstripping Accessories & options page for details.

<table>
<thead>
<tr>
<th>Finishes</th>
<th>Options</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>BR</td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>CL</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>GY</td>
<td>Gray</td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td>White</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Architectural mill finish bronze</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td>Mill finish Zinc</td>
<td></td>
</tr>
<tr>
<td>PSA</td>
<td>Pressure-sensitive adhesive</td>
<td>PSA models use highest-quality foam-based, double-sided tape.</td>
</tr>
<tr>
<td>ZAG</td>
<td>Ligature-resistant gasketing</td>
<td></td>
</tr>
</tbody>
</table>

www.zerointernational.com  Door sealing systems  Zero  99
### PSA Weatherstripping for glass doors

**PVC glass edge protection for swinging and sliding doors**

#### PSA Weatherstripping for glass doors

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Finishes</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>135</td>
<td>For .450&quot; to .500&quot; (12.4mm) doors. PSA standard.</td>
<td>CL 135</td>
<td>R0Y716</td>
</tr>
<tr>
<td>136</td>
<td>For .665&quot; to .750&quot; (19.1mm) doors. PSA standard.</td>
<td>CL 136</td>
<td>R0Y716</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Finishes</th>
<th>ANSI/BHMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>137</td>
<td>For .450&quot; to .500&quot; (12.4mm) doors. Clear housing with gray pile brush. PSA standard.</td>
<td>CL 137</td>
<td>R0F716</td>
</tr>
<tr>
<td>138</td>
<td>For .655&quot; to .750&quot; (19.1mm) doors. Clear housing with gray pile brush. PSA standard.</td>
<td>CL 138</td>
<td>R0F716</td>
</tr>
<tr>
<td>8136</td>
<td>For .325&quot; to .394&quot; (8.0mm) thick doors. Clear housing with gray pile brush. PSA standard.</td>
<td>CL 8136</td>
<td>R0F716</td>
</tr>
<tr>
<td>8137</td>
<td>For .425&quot; to .472&quot; (10.0mm) thick doors. Clear housing with gray pile brush. PSA standard.</td>
<td>CL 8137</td>
<td>R0F716</td>
</tr>
<tr>
<td>8138</td>
<td>For .535&quot; to .590&quot; (15.0mm) thick doors. Clear housing with gray pile brush. PSA standard.</td>
<td>CL 8138</td>
<td>R0F716</td>
</tr>
</tbody>
</table>

**Options:**

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

See Weatherstripping Accessories & options page for details.

---

**Appendix**

- **Specialty applications**
- **Sound control**
- **Intumescent**
- **Weatherstripping**
- **Perimeter seals**
- **Automatic door bottoms**
- **Thresholds**

See Weatherstripping Accessories & options page for details.
**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**

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

**9137**

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

**9131**

- PVC bumper, PSA standard.

### Astragals for swinging doors

**133**

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

**134**

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

---

**See Weatherstripping Accessories & options page for details.**

**Options:**

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

**Finishes:**

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

PSA Weatherstripping for glass doors

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

8192-PSA

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

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

8193-PSA

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

Min door gap .250", max door gap .700"

98-PSA

Finishes: A, BK, D, G  
ANSI/BHMA: 98A-PSA, 98BK-PSA, 98D-PSA, 98G-PSA  
R3F735

Min door gap .250", max door gap .625"

8194-PSA

Finishes: AA, BK, D, G  
ANSI/BHMA: 8194AA-PSA, 8194BK-PSA, 8194D-PSA, 8194G-PSA  
R3B735

Min door gap .250", max door gap .700"

See Weatherstripping Accessories & options page for details.

<table>
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<tr>
<th>Finishes</th>
<th>Options</th>
</tr>
</thead>
<tbody>
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<tr>
<td>BK</td>
<td>ZAG</td>
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<tr>
<td>D</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td></td>
</tr>
</tbody>
</table>

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
## Solutions and specialty products

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Solutions and specialty products

Introduction

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.
Solutions and specialty products

Intumescent solutions

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 safety. 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](image1) ![Smoke-rated](image2)

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 and Draft Control assemblies if a listed Category H “Smoke and 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 and Draft Control assemblies if a listed Category H “Smoke and 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

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<th>U.S.</th>
<th>International</th>
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<td>UL 10B</td>
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<td>UL 10C</td>
<td>Standard for positive pressure fire tests of door assemblies</td>
</tr>
<tr>
<td>UL 1784</td>
<td>Standard for air leakage tests of door assemblies and other opening protective.</td>
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<tr>
<td>IBC 2018</td>
<td>International building code</td>
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<tr>
<td>NFPA 105</td>
<td>Standard for the installation of smoke door assemblies</td>
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<td>NFPA 252</td>
<td>Standard methods of fire tests of door assemblies</td>
</tr>
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<td></td>
<td>CAN/ULC-S104-10</td>
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<td></td>
<td>International Standards Organization ISO 3008 2007</td>
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<td></td>
<td>British standard institute BS 476-PART 22 1987</td>
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<td></td>
<td>British standard institute BS 476-PART 31 1983</td>
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<td></td>
<td>Building and regulatory test Australia / New Zealand AS 1530.4</td>
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<tr>
<td></td>
<td>Fire resistance test</td>
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<td></td>
<td>Fire-resistance tests - door and shutter assemblies</td>
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<td></td>
<td>Methods for determination of the fire resistance of non-load bearing elements of construction</td>
</tr>
<tr>
<td></td>
<td>Methods for measuring smoke penetration through doorsets and shutter assemblies</td>
</tr>
<tr>
<td></td>
<td>Fire-resistance tests for door and shutter assemblies</td>
</tr>
</tbody>
</table>
## 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

- **PSA**
- **Finishes:** BK
- **Options:** ZAG
- **ANSI/BHMA:** 188FS-PSA-BK
- **ROU154**

Intumescent rubber for fire and smoke protection. PSA standard. 45-minute fire rating.

#### 488FS

- **PSA**
- **Finishes:** BK
- **Options:** ZAG
- **ANSI/BHMA:** 488FS-PSA-BK
- **ROU154**

Intumescent rubber for fire and smoke protection. PSA standard.

#### 8144FS

- **PSA**
- **Finishes:** BK
- **Options:** ZAG
- **ANSI/BHMA:** 8144FS-BK
- **ROU154**

Intumescent rubber for fire and smoke protection. PSA standard.

### Head and 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

- **PSA**
- **Finishes:** BK
- **Options:** ZAG

Provides 30 minutes fire resistance. Two parallel seals can provide 60 minutes fire resistance in hardwood constructions.

#### 30621750PSA

- **PSA**
- **Finishes:** BK
- **Options:** ZAG

Suitable for softwood constructions or where the gap between the door and the frame is greater than usual.

#### 31251000PSA

- **PSA**
- **Finishes:** BK
- **Options:** ZAG

Larger seal helps control door distortion. May also be used between the door frame and masonry.

#### 31250750PSA

- **PSA**
- **Finishes:** BK
- **Options:** ZAG

Provides 60 minutes fire resistance. Can be notched to fit around hinges.
Solutions and specialty products

Intumescent technology and firestopping solutions

Intumescent material definitions and physical properties

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<tr>
<th></th>
<th>FS3003</th>
<th>FS4004</th>
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</thead>
<tbody>
<tr>
<td>Activation Temperature</td>
<td>350°F (176°C)</td>
<td>550°F (288°C)</td>
</tr>
<tr>
<td>Expansion volume</td>
<td>16-18 X</td>
<td>80 X</td>
</tr>
<tr>
<td>Expansion pressure</td>
<td>27 PSI (.0187 N/mm )</td>
<td>131 PSI (.09 N/mm )</td>
</tr>
<tr>
<td>Multi or controlled directional</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Stability after expansion</td>
<td>Very good</td>
<td>Poor</td>
</tr>
<tr>
<td>Char</td>
<td>Soft and fluffy</td>
<td>Fluffy</td>
</tr>
<tr>
<td>Flame-resistant</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Moisture-resistant</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chemically inert / paintable</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Non-carcinogenic</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Long-life (no deterioration)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Odor-free</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Color – standard</td>
<td>Black</td>
<td>Red</td>
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Specifications:

<table>
<thead>
<tr>
<th>Stock Sizes: Thickness</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>Width</td>
</tr>
<tr>
<td>.062&quot;(1.6), .125&quot;(3.2), .250&quot;(6.4)</td>
<td>.375&quot;(9.5), .500&quot;(12.7), .750&quot;(19.1), 1.00&quot;(25.4), 1.75&quot;(44.5), 2.00&quot;(50.8)</td>
</tr>
</tbody>
</table>

Intumescent automatic door bottoms

364FS

365FS

Specifications:

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<thead>
<tr>
<th>Finish</th>
<th>Options</th>
<th>ANSI/BHMA</th>
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<tr>
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<td>364FS-AA, R3B3241</td>
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<tr>
<td>BK</td>
<td>D, G</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td></td>
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</tbody>
</table>

Mortised, Intumescent fire protection.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Options</th>
<th>ANSI/BHMA</th>
</tr>
</thead>
<tbody>
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<td>365FS-4A, 365FS-BK, 365FS-G, R3B3341</td>
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<tr>
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<tr>
<td>D</td>
<td>SEC</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>LK</td>
<td></td>
</tr>
</tbody>
</table>

Surface-mounted application, Intumescent fire protection.
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

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<thead>
<tr>
<th>STC</th>
<th>Performance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 - 60</td>
<td>Excellent</td>
<td>Loud sounds heard faintly or not at all.</td>
</tr>
<tr>
<td>40 - 50</td>
<td>Very Good</td>
<td>Loud speech heard faintly but not understood.</td>
</tr>
<tr>
<td>35 - 40</td>
<td>Good</td>
<td>Loud speech heard but hardly intelligible.</td>
</tr>
<tr>
<td>30 - 35</td>
<td>Fair</td>
<td>Loud speech understood fairly well.</td>
</tr>
<tr>
<td>25 - 30</td>
<td>Poor</td>
<td>Normal speech understood easily and distinctly.</td>
</tr>
<tr>
<td>20 - 25</td>
<td>Very Poor</td>
<td>Low speech audible.</td>
</tr>
</tbody>
</table>

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

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<th>Threshold</th>
<th>Door bottom</th>
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<td>564B</td>
<td>367</td>
<td>53 STC</td>
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<td>770 and 119WB</td>
<td>564B</td>
<td>367</td>
<td>52 STC</td>
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<td>STC 3</td>
<td>770 and 119WB</td>
<td>656B</td>
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<td>51 STC</td>
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<td>170 and 119WB</td>
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<td>51 STC</td>
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<td>STC 5</td>
<td>485 and 119WB</td>
<td>565B</td>
<td>361</td>
<td>49 STC</td>
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<td>STC 6</td>
<td>870 and 119WB</td>
<td>564B</td>
<td>365</td>
<td>49 STC</td>
</tr>
</tbody>
</table>

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.
**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.
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

Alternative seal option to 40/41
For a pairs configuration with suitable wood doors, you need Model #383 astragals for the meeting stile. #383 provides three sets of seals to block sound: the neoprene bulb with extra “lip” of neoprene in the primary seal at the meeting edge, plus another neoprene “finger” for added sound cushioning against the active door.

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

<table>
<thead>
<tr>
<th>Finish</th>
<th>AA</th>
<th>BK</th>
<th>D</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>.625” (15.9)</td>
<td>1.00” (24.5)</td>
<td>.250” (6.4) Laminated glass</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

1050R

<table>
<thead>
<tr>
<th>Finish</th>
<th>Grey</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.500” (38.1)</td>
<td>.125” (3.2)</td>
</tr>
</tbody>
</table>

Finishes:
AA Clear Anodized Aluminum
BK Black Anodized Aluminum
D Dark Bronze Anodized Aluminum
G Gold Anodized Aluminum
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

<table>
<thead>
<tr>
<th>System no.</th>
<th>Door rating</th>
<th>Type of door</th>
<th>Head &amp; jamb</th>
<th>Door bottom</th>
<th>Threshold</th>
<th>STC</th>
</tr>
</thead>
<tbody>
<tr>
<td>STC1</td>
<td>55</td>
<td>Metal</td>
<td>3708 + 119WB</td>
<td>367</td>
<td>564B</td>
<td>53</td>
</tr>
<tr>
<td>STC2</td>
<td>55</td>
<td>Metal</td>
<td>770 + 119WB</td>
<td>367</td>
<td>564B</td>
<td>52</td>
</tr>
<tr>
<td>STC3</td>
<td>55</td>
<td>Metal</td>
<td>770 + 119WB</td>
<td>367</td>
<td>656B</td>
<td>51</td>
</tr>
<tr>
<td>STC4</td>
<td>55</td>
<td>Metal</td>
<td>170 + 119WB</td>
<td>367</td>
<td>564B</td>
<td>51</td>
</tr>
<tr>
<td>STC5</td>
<td>55</td>
<td>Metal</td>
<td>485 + 119WB</td>
<td>361</td>
<td>565B</td>
<td>49</td>
</tr>
<tr>
<td>1T</td>
<td>52</td>
<td>Metal</td>
<td>770</td>
<td>367</td>
<td>564A</td>
<td>47</td>
</tr>
<tr>
<td>2T</td>
<td>52</td>
<td>Metal</td>
<td>870</td>
<td>361</td>
<td>565</td>
<td>44</td>
</tr>
<tr>
<td>2U</td>
<td>52</td>
<td>Metal</td>
<td>485</td>
<td>361</td>
<td>565</td>
<td>44</td>
</tr>
<tr>
<td>4R</td>
<td>51</td>
<td>Metal</td>
<td>370</td>
<td>361</td>
<td>565</td>
<td>44</td>
</tr>
<tr>
<td>5S</td>
<td>52</td>
<td>Metal</td>
<td>328</td>
<td>361</td>
<td>565</td>
<td>42</td>
</tr>
<tr>
<td>5T</td>
<td>52</td>
<td>Metal</td>
<td>312</td>
<td>351</td>
<td>564</td>
<td>42</td>
</tr>
<tr>
<td>SU299</td>
<td>38</td>
<td>Wood</td>
<td>188S</td>
<td>None</td>
<td>564A</td>
<td>37</td>
</tr>
<tr>
<td>TR298</td>
<td>35</td>
<td>Wood</td>
<td>8144FS</td>
<td>None</td>
<td>1685R</td>
<td>35</td>
</tr>
<tr>
<td>LG302</td>
<td>36</td>
<td>Wood</td>
<td>188S</td>
<td>None</td>
<td>None</td>
<td>35</td>
</tr>
</tbody>
</table>

### Sound - double doors

<table>
<thead>
<tr>
<th>System no.</th>
<th>Door rating</th>
<th>Type of door</th>
<th>Head &amp; jamb</th>
<th>Door bottom</th>
<th>Meeting stiles</th>
<th>STC</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>48</td>
<td>Metal</td>
<td>770</td>
<td>367</td>
<td>383/139/118B</td>
<td>47</td>
</tr>
<tr>
<td>JD6S</td>
<td>Metal</td>
<td>770</td>
<td>362</td>
<td>40</td>
<td>156/56</td>
<td>41</td>
</tr>
<tr>
<td>JD8S</td>
<td>Metal</td>
<td>475</td>
<td>362</td>
<td>156/56</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>AT4</td>
<td>37</td>
<td>Metal</td>
<td>188/119WB</td>
<td>564</td>
<td>383</td>
<td>36</td>
</tr>
<tr>
<td>AT5</td>
<td>37</td>
<td>Metal</td>
<td>485/119WB</td>
<td>564</td>
<td>383</td>
<td>35</td>
</tr>
<tr>
<td>AT7</td>
<td>37</td>
<td>Metal</td>
<td>485/119WB</td>
<td>839/544</td>
<td>383</td>
<td>35</td>
</tr>
</tbody>
</table>

### 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.
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

Options:

ZAG  Ligature-Resistant

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
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).

---

### Cam lift full mortise hinges

<table>
<thead>
<tr>
<th>Part #</th>
<th>Door rating (1/2 pairs)</th>
<th>Screw size (metal doors)</th>
<th>Lift (180° opening)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z955</td>
<td>Up to 200 lbs.</td>
<td>12-24 x 3/4&quot; UC</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>Z953</td>
<td>Up to 300 lbs.</td>
<td>12-24 x 3/4&quot;</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>Z950</td>
<td>Up to 500 lbs.</td>
<td>12-24 x 3/4&quot;</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>Z9500</td>
<td>Up to 900 lbs.</td>
<td>5/16-18 x 3/4&quot;</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

Hinge: Stainless Steel US304
Pin: Stainless Steel 420 J2
Type: Mortise/ Handed - specify right or left hand
Clearance: Minimum clearance at head of frame is 3/16". For doors greater than 1-3/4" clearance is 1/4".
Finish: 630 (US32D)
Note: For Z950 and Z9500 screws must be engaged no less than .350" in ASTM A-36 steel reinforcement.

---

**Mostly empty page**
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

72

Solid neoprene

1.750" (44.5)

1.125" (28.6)

2.125" (54.0)

Finishes: A Options: SEC

Finishes: A Options: SEC

72

951

1/16" (1.6)
Flexible rubber 5" (127) wide

Butt hinge

Aluminum

.125" (3.2) x .500" (12.7)

1.500" (38.1)

1.500" (38.1)

951

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

Finishes: A Options: SEC

1/16" (1.6)
Flexible rubber

1/16" (1.6)
Flexible rubber

Aluminum

.125" (3.2) x .500" (12.7)

1.00" (25.4)

1.00" (25.4)

1.500" (38.1)

1.500" (38.1)

51

Continuous hinge

1/16" (1.6)
Flexible rubber 5" (127) wide

DOOR

FRAME

Finishes: A, BK, D, G Options: SEC Opening degree: 90, 180

Drawing not to scale

51

1/16" (1.6)
Flexible rubber

1/16" (1.6)
Flexible rubber

Butt hinge

Aluminum

.125" (3.2) x .500" (12.7)

1.00" (25.4)

1.00" (25.4)

Aluminum

.125" (3.2) x .500" (12.7)

1.500" (38.1)

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51

Drawing not to scale

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Finishes: A Options: SEC

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Butt hinge

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1.00" (25.4)

Aluminum

.125" (3.2) x .500" (12.7)

1.500" (38.1)

1.500" (38.1)

51

Continuous hinge

1/16" (1.6)
Flexible rubber 5" (127) wide

DOOR

FRAME

Finishes: A, BK, D, G Options: SEC Opening degree: 90, 180

Drawing not to scale

51

1/16" (1.6)
Flexible rubber

1/16" (1.6)
Flexible rubber

Butt hinge

Aluminum

.125" (3.2) x .500" (12.7)

1.00" (25.4)

1.00" (25.4)

Aluminum

.125" (3.2) x .500" (12.7)

1.500" (38.1)

1.500" (38.1)

51

Drawing not to scale
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

**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.
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 A117.1-2017

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.

"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"

<table>
<thead>
<tr>
<th>Test results:</th>
<th>Opening force (lbs.)</th>
<th>Closing force (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>475 Head and Jamb</td>
<td>1.75</td>
</tr>
<tr>
<td>Test 2</td>
<td>475 Head and Jamb</td>
<td>1.90</td>
</tr>
<tr>
<td>Test 3</td>
<td>Closing force with no seals</td>
<td>-</td>
</tr>
</tbody>
</table>

System ADA 1000

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.

<table>
<thead>
<tr>
<th>#475  and  #365LS 1.9 lbs. opening force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test door: 36&quot; X 84&quot; x 1-3/4&quot;</td>
</tr>
<tr>
<td>475 and 365LS - 1.9 lbs opening force</td>
</tr>
</tbody>
</table>

Finishes:
- A  Aluminum Mill Finish
- AA Clear Anodized
- BK  Black Anodized Aluminum
- D  Dark Bronze Anodized Aluminum
- G  Gold Anodized Aluminum

118  -  Zero - Door sealing systems  -  www.zerointernational.com
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

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.
**Solutions and specialty products**

**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.

![Image of 8780N gasket](image)
Solutions and specialty products

Heavy-duty overhead doors

Non-latching door

Gasketing for non-latching doors

3/16" thick extreme temperature neoprene looped as shown (Government specification R-6855, Class II, Grade 40.)

For overhead doors

Intermediate stiles

www.zerointernational.com  •  Door sealing systems  •  Zero  •  121
Appendix

Specialty applications

Sound control

Intumescent

Weatherstripping

Perimeter seals

Automatic door bottoms

Thresholds

Zero International

Hurricane protection wind-driven water infiltration
(Dade County Florida)

Option 1 - Water Rated

142

188

475

Perimeter seal

Option 2

8144

NOTE

Perimeter seals options: 188, 117, 8150
Threshold options: 566, 568

“Safe haven” room gasketing and areas of rescue assistance

Air infiltration - 110 MPH (165KM/H) Wind velocity - air leakage 0.56 CFM (2.8CMH)

Option 1

119WB

2955

Hinge

475

Perimeter seal

Option 2

119WB

2955

Hinge

870

Adjustable

321
Auto door bottom

Evaluated in accordance with ASTM E28

Evaluated in accordance with ASTM E283
Typical gasketing applications

Typical gasketing for exterior in-swing door

- 475 Perimeter seal
- 141 Rain drip
- 141 End Cap
- 366 Auto door bottom
- 655 Threshold

Typical gasketing for exterior out-swing door

- 475 Perimeter seal
- 142
- 25
- 475 Perimeter seal
- 361 Auto door bottom
- 11 Rain drip
- 655 Threshold

Typical gasketing for residential

- 8878 Perimeter seal
- 5BB1 Architectural hinge
- 351 Auto door bottom

Cold weather solution

- 475 Perimeter seal
- 175 Interlocking threshold
- 5BB1 Architectural hinge
- 365 Auto door bottom
- 525 Thermal break threshold
- 5BB1 Architectural hinge
Hotel gasketing solutions

Interior entry doors - option 1

Communicating doors - new construction

Interior entry doors - option 2

Communicating doors - aftermarket

Solutions and specialty products

Appendix

Specialty applications

Automatic door bottoms

Weatherstripping

Intumescent

Perimeter seals

Sound control

Appendix

124  •  Zero  •  Door sealing systems  •  www.zerointernational.com
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:

<table>
<thead>
<tr>
<th>Pressure Rate</th>
<th>Standard</th>
<th>Leakage Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>.10 inches of water</td>
<td>NFPA 105, UL 1784, IBC 715.4, 3.1 STD</td>
<td>3.0 CFM = 16.95 CMH/LM</td>
</tr>
</tbody>
</table>

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 m3/(sq m2)] 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.
# Replacement rubber reference chart

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<th>Compatible models</th>
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About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries.

For more, visit www.allegion.com.