Hager Companies offers a complete line of thresholds & weatherstripping products for virtually any type of door application. What’s more, each meets or exceeds ANSI-grade quality, durability, and performance levels. For enhanced levels of safety and security, we also offer intumescent products for positive pressure solutions, including edge sealing and smoke control systems. All of which make Hager threshold, weatherstripping, and door bottom products an excellent choice for standard or custom applications in schools, hospitals, office buildings, and more.

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PRODUCT PRESENTATION
Dimensions on bronze and stainless steel extrusions may differ slightly than those detailed. Questions regarding any dimensions should be directed to Hager Companies Customer Service.

Drawings or illustrations used in the catalog are subject to change without notice. Questions on any dimensions should be obtained by contacting Hager Companies Customer Service.

FABRICATION OPTIONS
• Bevel one edge of threshold
• Rip one edge width of threshold
• L-notch both ends of threshold
• U-notch both ends of threshold
• Tack weld one line of threshold
• Pan for water return of threshold
• Sure Step Non-Slip Abrasive Coating – A rugged, durable coating that can be applied to all Hager Companies’ metal thresholds. Ideal for thresholds being used in wet, oily or corrosive environments.

MATERIALS & FINISHES
Metals
All aluminum extrusions are of alloy 6063-T5. All bronze extrusions are of alloy CDA385 brass specified as Architectural Bronze in the industry.

For stock finishes, refer to the code listed below each individual item throughout the catalog. Please inquire for the availability on nonstock finishes.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Gasketing</th>
<th>Size</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>516S</td>
<td>W-pile</td>
<td>36” (914 mm)</td>
<td>MIL -</td>
</tr>
<tr>
<td>599S</td>
<td>V-vinyl</td>
<td>48” (1219 mm)</td>
<td>DBA -</td>
</tr>
<tr>
<td>750S</td>
<td>S-silicone</td>
<td>36” (914 mm)</td>
<td>32D -</td>
</tr>
<tr>
<td>870S</td>
<td>N-neoprene</td>
<td>36” x 84” (914 mm x 2133 mm)</td>
<td>CLR -</td>
</tr>
<tr>
<td>882S</td>
<td>B-nylon Brush</td>
<td>48” x 96” (1219 mm x 2438 mm)</td>
<td>OOO -</td>
</tr>
<tr>
<td>881S</td>
<td>N-neoprene</td>
<td>48” x 84” (914 mm x 2133 mm)</td>
<td>MIB -</td>
</tr>
</tbody>
</table>

Notes: Threshold profiles shown refer to aluminum material only, dimensions may vary for mill finish bronze thresholds.

Gaskets
Gasketing is available in a wide variety of materials. Vinyl is an economical choice and remains flexible down to -40°F (-40°C). EPDM gasketing is supplied both as a solid (dense) and as a closed cell sponge with a tough outer skin. It remains flexible down to -50°F (-49°C). Silicone gasketing provides the best resistance to cold by remaining flexible down to -70°F (-57°C). Refer to the price book for a list of available replacement gaskets. Gasketing codes are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gasketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>nylon brush</td>
</tr>
<tr>
<td>N</td>
<td>neoprene</td>
</tr>
<tr>
<td>S</td>
<td>silicone</td>
</tr>
<tr>
<td>V</td>
<td>vinyl</td>
</tr>
<tr>
<td>W</td>
<td>pile (thread may be removed to allow expansion)</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION
When ordering, please specify by product number, length, quantity, finish and fasteners required. Thresholds & weatherstripping are fabricated in standard sizes with 1/2” (12.7 mm) extra on thresholds 50” (1270 mm) and under. Thresholds over 50” (1270 mm) are supplied with 1” (25 mm) extra length for fitting. Exact lengths are available upon request (specify CTEL).

Example: 891S V 36 x 84 MIL
FASTENERS

Standard
All products are furnished with appropriate fasteners as listed, except where noted. Most thresholds are furnished with mounting holes and #10 x 1-1/2” flat head sheet metal screws. Most weatherstripping products are furnished with slotted holes and #6 x 5/8” pan head sheet metal screws.

Optional

Thresholds
- #10 wood screws and plastic anchors
- #10 wood screws and lead anchors
- #10 machine screws and lead anchors
- #10 stainless steel wood screws
- #10 stainless steel wood screws and plastic anchors
- #10 stainless steel wood and lead anchors
- 1/4-20 stainless steel machine screws and lead anchors
- 1/4-20 machine screws and lead anchors
- 1/4-20 x 2” flat head sleeve anchor
- #10 torx sheet metal screws
- #10 stainless steel torx wood screws
- #10-24 x 1-1/2” stainless steel torx machine screw with lead anchor
- #10-stainless steel spanner head wood screw with lead anchor
- Cast-on anchors (cast products only)
- Tap-con type (1/4” x 1-3/4”)

Weatherstripping
- #6 x 5/8” pan-head stainless steel screws
- #6 x 5/8” self-drilling (TEK) screws (Steel-zinc plated)
- #6 x 5/8” pan-head torx sheet metal screws
- #6 x 5/8” stainless steel self-drilling (TEK) screws
- 1/4 - 20 x 1-1/4” sex bolts
- Two-way self-adhesive tape

GENERAL INSTALLATION INSTRUCTIONS FOR PRESS-ON PRODUCTS:
- Product returnable within first 6 months after purchase date
- Installation should take place after construction has been completed, and final cleaning has taken place
- The frame should be cleaned; isopropyl alcohol is recommended
- Not recommended for unsealed or porous applications
- Do not store these products in extreme heat/cold or for prolonged periods of time

CERTIFICATIONS

Handicap Accessibility
Products denoted by this symbol are designed for applications where handicap accessibility is specified. These products are no greater than 1/2” (12.7 mm) in height and have no more than 1/4” (6.3 mm) vertical rise or with slope proportions no greater than 1:2 slope. Offset floor conditions greater than 1/2” (12.7 mm) require a 1:12 slope.

Air Infiltration
Products denoted by this symbol have been tested with air/smoke infiltration, all within the (0.500 cfm/ sq. ft. for double doors and .300 cfm for single doors) maximum allowable leakage at a pressure of a 25 mph wind (1.56 psf). The tests were conducted in accordance with ASTM test procedures and meet ASTM: E283-91.

Sound Tested
Products denoted by this symbol have been sound tested and received the appropriate STC rating. The tests were conducted in accordance with ASTM test procedures and meet ASTM: E90-90 & ASTM: E413-87.

<table>
<thead>
<tr>
<th>STC Rating Static Door</th>
<th>STC Rating Operable Door</th>
<th>Perimeter Seal</th>
<th>Door Bottom</th>
<th>Corner Pad</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>41</td>
<td>737 &amp; 866S</td>
<td>743S</td>
<td>709</td>
<td>417S</td>
</tr>
<tr>
<td>49</td>
<td>37</td>
<td>738 &amp; 737</td>
<td>743S</td>
<td>709</td>
<td>417S</td>
</tr>
<tr>
<td>44</td>
<td>40</td>
<td>726</td>
<td>743S</td>
<td>709</td>
<td>520S</td>
</tr>
<tr>
<td>42</td>
<td>40</td>
<td>738 &amp; 737</td>
<td>774S</td>
<td>709</td>
<td>417S</td>
</tr>
<tr>
<td>42</td>
<td>40</td>
<td>737 &amp; 866S</td>
<td>774S</td>
<td>709</td>
<td>417S</td>
</tr>
<tr>
<td>41</td>
<td>39</td>
<td>726(2)</td>
<td>743S</td>
<td>709</td>
<td>520S</td>
</tr>
<tr>
<td>36</td>
<td>35</td>
<td>738 &amp; 737</td>
<td>743S</td>
<td>709</td>
<td>417S</td>
</tr>
<tr>
<td>36</td>
<td>35</td>
<td>726 &amp; 736</td>
<td>774S</td>
<td>709</td>
<td>417S</td>
</tr>
</tbody>
</table>

BHMA Certified
BHMA Certification Program was developed as a means for manufacturers of builders hardware to indicate compliance with American National Standards sponsored by BHMA. Participating manufacturers certify compliance with the standards based on a continuing program of passing the prescribed tests.
Underwriter's Laboratories
Products denoted by this symbol are classified and labeled by Underwriter's Laboratories, Inc.® as gasket material for use on listed steel frames and/or classified swinging type fire doors of the hollow metal or steel covered composite type rated up to 3 hours, or wood core fire doors rated up to 1-1/2 hours. Test results show these products do not adversely affect the fire resistance of the door or frame according to its UL rating. All products are regularly checked under a labeling and listing service. The clearance between the door and the frame and between the meeting edges of doors swinging in pairs shall be 1/8" + 1/16" (3.18 mm + 1.59 mm) for steel doors and shall not exceed 1/8" (3.2 mm) for wood doors.

• UL 10C (Positive Pressure) complies with IBC, NFPA 80 and NFPA 252 for hollow metal fire doors rated up to 3 hours and wood fire doors rated up to 90 minutes.
• UL 10B complies with NFPA 80 and NFPA 252 for hollow metal fire doors rated up to 3 hours and wood fire doors rated up to 90 minutes.

Notes: Ratings on some items may vary and are noted on the individual products. For a more complete look at classifications on individual products, please visit www.ul.com/database and reference R13647.

THE INTERNATIONAL BUILDING CODE (IBC)
The International Building Code (IBC) requires swinging fire doors to be tested in accordance with ANSI/UL 10C or NFPA 252, with the neutral pressure level established at 40 inches or less above the sill. This causes “positive pressure” forces against the door assembly above 40 inches. The result is hot gases and smoke leak out between the door and frame above this level, posing a serious threat to life-safety; and on wood doors rapidly deteriorating the integrity of the door edges, requiring either a built-in or supplemental “edge sealing system” to pass the test.

The www.iccsafe.org web site of the International Code Council (ICC) has a map of code adoption by state. This site is frequently updated and by clicking on a state, you can see what codes they have adopted.

Fire Test - Category G
Gaskets that are edge-sealing systems. Category “G” - edge-sealing systems are for use with fire doors requiring an edge seal to meet positive pressure code requirements. These systems are surface-applied to either the perimeter of the door frame or meeting edges of door pairs. Category “G” gaskets are usually intumescent material; this material will swell many times its original size during a fire and help contain the spread of fire by sealing the edges of the door.

Fire Test - Category J
Products that are positive pressure tested to determine that they do not contribute to flaming during a fire; they do not provide an edge-sealing system. Examples are gaskets used for sound, draft control or automatic door bottoms.

Smoke and Draft Control Test - Category H
This is a separate second test that does not involve fire. All gaskets being tested for smoke must initially be fire tested under the requirements of UL 10C and receive a category “G” or “J” rating before being smoke tested.

Below are some key phrases that indicate positive pressure requirements:
• IBC 2003 (and later) - International Building Code
• UL 10-C - Positive Pressure Fire Test
• ASTME-2074-00 - Fire Test of Door Assemblies
• Shall meet positive pressure requirements
• Intumescent seals - imply positive pressure

Fire doors are classified based upon their construction and edge sealing system requirements. Fire-rated gasketing is classified as follows:

**Category G** - Edge-sealing system
**Category H** - Smoke and draft control gasketing
**Category J** - Gaskets other than category G or H
New and existing fire doors are classified/labeled by one of the following designation systems:

- Hourly rating designation
- Alphabetical letter designation
- A combination of both

**Common Applications for Hager Positive Pressure Edge Sealing & Smoke Seal Systems**

<table>
<thead>
<tr>
<th>Wall Rating</th>
<th>Door and Frame Rating</th>
<th>Door Application and Use</th>
<th>Door Types</th>
<th>Fire Doors Edge Sealing System</th>
<th>Smoke Doors &quot;S&quot; Label Smoke Seal</th>
<th>Fire &amp; Smoke Doors Combination Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Hr.</td>
<td>3 Hour (A Label) 180 Minute</td>
<td>Openings in fire walls and walls that divide a single building into fire areas</td>
<td>Hollow Metal Pairs  Hollow Metal Singles</td>
<td>— 721, 726, 736, 737</td>
<td>721, 726, 736, 737</td>
<td>—</td>
</tr>
<tr>
<td>2 Hr.</td>
<td>1½ Hour (B Label) 90 minute</td>
<td>Openings to stairwells and elevator shafts; vertical communication or egress through a building, including 2-hr. rated partitions providing horizontal fire separations</td>
<td>Wood Composite Pairs  Hollow Metal Pairs  Wood Composite Singles  Hollow Metal Singles</td>
<td>724, 729 724, 729</td>
<td>721, 726, 736, 737 721, 726, 736, 737</td>
<td>719, 720, 722, 734</td>
</tr>
<tr>
<td>2 Hr.</td>
<td>1½ Hour (D Label) 90 minute</td>
<td>Opening where there is a chance of severe fire exposure from the exterior of the building</td>
<td>Hollow Metal Pairs  Hollow Metal Singles</td>
<td>— 721, 726, 736, 737</td>
<td>721, 726, 736, 737</td>
<td>—</td>
</tr>
<tr>
<td>1 Hr.</td>
<td>*1/3 Hour</td>
<td>Openings in corridors where smoke and draft control is required</td>
<td>Wood/Particle Core Pairs  Wood/Particle Core Singles</td>
<td>— 721, 726, 736, 737</td>
<td>721, 726, 736, 737</td>
<td>—</td>
</tr>
</tbody>
</table>

*Currently rating only applies to wood doors.

<table>
<thead>
<tr>
<th>Wall Rating</th>
<th>Door and Frame Rating</th>
<th>Door Application and Use</th>
<th>Door Types</th>
<th>Fire Doors Edge Sealing System</th>
<th>Smoke Doors &quot;S&quot; Label Smoke Seal</th>
<th>Fire &amp; Smoke Doors Combination Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hr.</td>
<td>1/4 Hour (E Label) 45 Minute</td>
<td>Opening in an exterior wall with the potential to be exposed to moderate to light fire from the outside of the building</td>
<td>Hollow Metal Pairs  Hollow Metal Singles</td>
<td>— 721, 726, 736, 737</td>
<td>721, 726, 736, 737</td>
<td>—</td>
</tr>
<tr>
<td>1 Hr.</td>
<td>1/4 Hour (C Label) 45 Minute</td>
<td>Openings in walls or partitions between rooms and corridors</td>
<td>Wood Composite Pairs  Wood Composite Singles</td>
<td>724, 729 724, 729</td>
<td>721, 726, 736, 737 721, 726, 736, 737</td>
<td>719, 720, 722, 734</td>
</tr>
<tr>
<td>1 Hr.</td>
<td>*1/2 Hour 20 Minute</td>
<td>Openings in corridors where smoke and draft control is required</td>
<td>Wood/Particle Core Pairs  Wood/Particle Core Singles</td>
<td>724, 729 724, 729</td>
<td>721, 726, 736, 737 721, 726, 736, 737</td>
<td>719, 720, 722, 734</td>
</tr>
</tbody>
</table>

*All of the labels listed above have the capability of being both fire and smoke barrier openings. However, not all openings require a smoke label. Openings requiring smoke labels are detailed either by the fire authority having jurisdiction, local code, NFPA 101 or NFPA 5000.
To effectively seal out the elements, use in conjunction with a door bottom, sweep, shoe, or bumper strip.

Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
Options: Available with Sure Step Non-Slip Abrasive Coating
Notes: • MIL finish thresholds are supplied with zinc plated screws
  • Color anodized thresholds are supplied with screws plated to match
  • Stainless steel thresholds are supplied with stainless steel screws

401S

Finishes: MIL, DBA, GLD
Certifications: BHMA Certified

402S

Finishes: MIL, DBA, GLD
Certifications: BHMA Certified

403S

Finishes: MIL, DBA, GLD
Certifications: BHMA Certified

404S

Finishes: MIL, DBA, GLD
Certifications: BHMA Certified

405S

Finishes: MIL, DBA, GLD
Certifications: BHMA Certified
### THRESHOLDS - SADDLE

#### 416S

- **Dimensions:**
  - Length: 7" [177.8]
  - Width: 1/2" [12.7]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 428S

- **Dimensions:**
  - Length: 8" [203.2]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 417S

- **Dimensions:**
  - Length: 6" [152.4]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 430S

- **Dimensions:**
  - Length: 7" [177.8]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 418S

- **Dimensions:**
  - Width: 3" [76.2]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 436S

- **Dimensions:**
  - Height: 3/16" [4.8]

- **Finishes:** MIL, DBA
- **Certifications:**
  - UL Listed

#### 426S

- **Dimensions:**
  - Length: 8" [203.2]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed
  - BHMA Certified

#### 448S

- **Dimensions:**
  - Length: 10" [254]
  - Height: 5/8" [16]

- **Finishes:** MIL, DBA
- **Certifications:**
  - UL Listed

#### 427S

- **Dimensions:**
  - Length: 5" [127]

- **Finishes:** MIL, DBA
- **Certifications:**
  - UL Listed

#### 492S

- **Dimensions:**
  - Length: 5" [127]

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
  - UL Listed

---

2016
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THRESHOLDS - THERMAL BARRIER SADDLE

High strength thermal barrier is permanently bonded in place to block the transfer of heat or cold. To provide a seal, use in conjunction with a door bottom, sweep, shoe or bumper strip.

Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
Options: Available with Sure Step non-slip abrasive coating
Notes: • MIL finish thresholds are supplied with zinc plated screws
• Color anodized thresholds are supplied with screws plated to match

420S
Finishes: MIL, DBA, GLD
Certifications: UL Listed

421S
Finishes: MIL, DBA, GLD
Certifications: UL Listed

422S
Finishes: MIL, DBA, GLD
Certifications: BHMA Certified

423S
Finishes: MIL, DBA, GLD
Certifications: UL Listed

424S
Finishes: MIL, DBA, GLD
Certifications: UL Listed

451S
Finishes: MIL, DBA, GLD
Certifications: UL Listed

452S
Finishes: MIL, DBA, GLD
Certifications: UL Listed
**THRESHOLDS - HALF SADDLE**

Fasteners: #10 x 1-1/2” sheet metal screws, other screw types and anchors available upon request

Options: Available with Sure Step non-slip abrasive coating

Notes:
- MIL finish thresholds are supplied with zinc plated screws
- Color anodized thresholds are supplied with screws plated to match

---

**406S**

- Finishes: MIL, DBA, GLD
- Certifications: 

**407S**

- Finishes: MIL, DBA, GLD
- Certifications: 

**431S**

- Finishes: MIL, DBA, GLD, MIB
- Certifications: 

**432S**

- Finishes: MIL, DBA, GLD
- Certifications: 

**433S**

- Finishes: MIL, DBA, GLD
- Certifications: 

**438S**

- Finishes: MIL, DBA
- Certifications: 

**572S**

- Finishes: MIL, DBA, GLD
- Certifications: 

---

**REV. DESCRIPTION ECO NO. DATE**

TOLERANCES:
- TWO PLACE DECIMAL: 0.01"
- FRACTIONAL: 0.015"
- THREE PLACE DECIMAL: 0.004"

**DRAWN**

ENG. APPR.

Q.A.

**REVISION DATE**

ENGINEERING AT THE RIGHT TO MAKE DESIGN CHANGES WITHOUT NOTICE.

HAGER RESERVES THE RIGHT TO MAKE DESIGN CHANGES WITHOUT NOTICE.

www.hagerco.com
Use in conjunction with a threshold
Fasteners: #10 - 24 x 5/8” flat head self-tapping screws to
attach bumper strip directly to an existing threshold

481S

15/32” [11.7]
1/4” [6.4]

Finishes: MIL, DBA, GLD
Insert: V, N, S, W
Certifications: 

484S

1/4” [6.4]
1 1/8” [28.6]

Finishes: MIL, DBA, GLD
Certifications: 

HAGER RESERVES THE RIGHT TO MAKE DESIGN CHANGES WITHOUT NOTICE. CALL HAGER ENGINEERING AT 1-800-325-9995 FOR THE LATEST REVISION DATE OF TEMPLATE.
All thresholds appearing in this column are available with Sure Step Non-Slip Abrasive Coating.

### 400S

- **Insert:** V
- **Certifications:** MIL, DBA, GLD
- **Notes:** Vinyl gasket eliminates the need for door shoe or sweeps

### 408S

- **Certifications:** MIL, DBA, GLD

### 419S

- **Certifications:** MIL, DBA, GLD

### 503S

- **Certifications:** MIL, DBA, GLD

### 504S

- **Certifications:** MIL, DBA, GLD

### 505S

- **Certifications:** MIL, DBA, GLD

### 506S

- **Certifications:** MIL, DBA, GLD

### 508S

- **Certifications:** MIL, DBA, GLD

**Fasteners:** #10 x 1-1/2” sheet metal screws, other screw types and anchors available upon request

**Options:** Available with Sure Step non-slip abrasive coating

**Notes:**
- MIL finish thresholds are supplied with zinc plated screws
- Color anodized thresholds are supplied with screws plated to match
For use with outswinging doors to seal out the elements

**Fasteners:** #10 x 1-1/2” sheet metal screws, other screw types and anchors available upon request

**Options:** Available with Sure Step non-slip abrasive coating

**Notes:**
- MIL finish thresholds are supplied with zinc plated screws
- Color anodized thresholds are supplied with screws plated to match

---

**434S**

- **Finishes:** MIL, DBA, GLD
- **Insert:** V, N, S, W
- **Certifications:**

**435S**

- **Finishes:** MIL, DBA, GLD
- **Insert:** V, N, S, W
- **Certifications:**

**477S**

- **Finishes:** MIL, DBA, GLD
- **Insert:** V, N, S, W
- **Certifications:**

**478S**

- **Finishes:** MIL, DBA, GLD
- **Insert:** V, N, S, W
- **Certifications:**

---

**Ramp threshold that provides a 1:12 slope to meet the requirements of the Americans With Disabilities Act**

**Order:** To create a ramp that is a combination of the 442S and 443S, order 444S

**Fasteners:** #10 x 1-1/2” Flat head wood screws

**Options:** Available with Sure Step non-slip abrasive coating

**Notes:**
- MIL finish thresholds are supplied with zinc plated screws
- Color anodized thresholds are supplied with screws plated to match

---

**442S**

- **Finishes:** MIL, DBA, GLD
- **Certifications:**

**443S**

- **Finishes:** MIL, DBA, GLD
- **Certifications:**

**444S**

- **Finishes:** MIL, DBA, GLD
- **Certifications:**
Floor plate components for modular threshold system. Used primarily for extra wide door frames or to cover expansion joints or floor joists. Fasteners: Plates and plate supports are furnished without holes and fasteners unless specified. Options: • Available with Sure Step non-slip abrasive coating • Beveled Edges are available Notes: Plates may be used fluted or smooth side up

**Typical Applications**

- **455S**
  - 1/4" [6.4]
  - Finishes: MIL, DBA, GLD
  - Certifications: BHMA Certified
  - Notes: Beveled Edges are available

- **460S**
  - 1/4" [6.4]
  - Finishes: MIL, DBA, GLD
  - Certifications: BHMA Certified

- **465S**
  - 1/4" [6.4]
  - Finishes: MIL, DBA, GLD
  - Certifications: BHMA Certified

- **470S**
  - 1/2" [12.7]
  - Finishes: MIL, DBA, GLD
  - Certifications: BHMA Certified

- **484S**
  - 1/4" [6.4]
  - Finishes: MIL, DBA, GLD
  - Certifications: BHMA Certified

Materials: Finishes: MIL, DBA, GLD

- Available with Sure Step non-slip abrasive coating
- Beveled Edges are available

Notes: Plates may be used fluted or smooth side up

Certifications: BHMA Certified
Use in conjunction with surface applied vertical rod exit device

Fasteners: #10 x 1-1/2” flat head sheet metal screws, other screw types and anchors available upon request

Options: Available with Sure Step non-slip abrasive coating

Notes: • MIL finish thresholds are supplied with zinc plated screws
• Color anodized thresholds are supplied with screws plated to match
• Special undercuts may be required

Typical Applications

Exterior

Interior

520S

Finishes: MIL, DBA, GLD, MIB
Inserts: V, N, S, W
Door Undercut: Allow 3/8”

552S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 1/2”

541S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 5/8”

560S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 3/4”

532S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 3/4”

565S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 5/8”
Thresholds

575S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 11/16"
Certifications:

580S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 5/8"
Certifications:

599S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Door Undercut: Allow 5/8"
Certifications:

518S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Certifications:

516S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Certifications:

Threshold for latching panic devices that have a thermal barrier permanently bonded in place to effectively block the transfer of heat or cold. Use in conjunction with surface applied vertical rod exit device.

Fasteners: #10 x 1-1/2" Flat head sheet metal screws, other screw types and anchors available upon request.

Options: Available with Sure Step non-slip abrasive coating

Notes: • MIL finish thresholds are supplied with zinc plated screws
• Color anodized thresholds are supplied with screws plated to match

Available with plated screws and other screw anchors available upon request.
Threshold interlocks with hook on the bottom of the door for a superior seal against wind and rain

Fasteners: #10 x 1-1/2" Flat head sheet metal screws, other screw types and anchors available upon request

Options: Available with Sure Step non-slip abrasive coating

Notes:
- MIL finish thresholds are supplied with zinc plated screws
- Color anodized thresholds are supplied with screws plated to match
- Thresholds are supplied with the 701S J-Hook
- Metal doors must have flush bottom for proper J-hook installation

**604S**

- **Finishes:** MIL, DBA
- **Certifications:**

**701S**

- **Finishes:** MIL
- **Fasteners:** #6 x 7/8" nail
- **Certifications:**

Notes:

- J-Hook interlocks with threshold to seal against wind and rain

**600S**

- **Finishes:** MIL, DBA, GLD
- **Certifications:**

- **Material:** not specified
- **Date:** 1/1/2008
A heavy duty aluminum threshold with silicon carbide granules integrally cast into the surface. Ideal for high traffic areas where maximum durability is required. The abrasive, skid resistant surface works well under wet, dry or oily conditions.

**Fasteners:** #1/4” flat head zinc plated sheet metal screws with lead anchor

**Options:** Cast-on anchors available upon request

**Notes:**
- Furnished with countersunk holes
- Cut with a reinforced abrasive plain surface disk, 1/8” thick, either aluminum oxide or silicon carbide
- Maximum length available is 8 feet, not available for floor closers
- Available in 4”, 5” and 6” widths

**626S**

3/8” [9.5]

4” [101.6], 5” [127], 6” [152.4]

**Finishes:**
**Certifications:** CAL

**627S**

1/2” [12.7]

4” [101.6], 5” [127], 6” [152.4]

**Finishes:**
**Certifications:** CAL
THRESHOLDS - FLOOR CLOSER

Used with floor closers on center or offset hung door applications.
Fasteners: #10 x 1-1/2” flat head sheet metal screws, other screw types and anchors available upon request
Options: Available with Sure Step non-slip abrasive coating
Order: Specify closer manufacturer, offset, closer model number, thickness of door, width of door opening and handing
Notes: • MIL finish thresholds are supplied with zinc plated screws
• Color anodized thresholds are supplied with screws plated to match

651S - Center Hung

1/2" x 7"
[12.7 x 177.8]

Finishes: MIL, DBA
Certifications: BHMA
Notes: • Center hung
• Without mitered ends

652S - Center Hung

1/2" x 5"
[12.7 x 127]

Finishes: MIL, DBA
Certifications: BHMA
Notes: • Center hung
• Without mitered ends
Cover Plates are used primarily to cover expansion joints and for situations requiring extra width or strength. Manufactured from solid cold rolled aluminum for extra durability.

Fasteners: Furnished without holes and fasteners unless specified.

Notes: • Available to 96” in length
• Furnished with both edges beveled

---

**676S**

- 3" - 24" (76 - 610)
- 1/8" (3.2)

Finishes: MIL
Certifications: BHMA

---

**677S**

- 3" - 24" (76 - 610)
- 1/4" (6.4)

Finishes: MIL
Certifications: BHMA

---

**Vinyl Thresholds**

Transition between different floor types.

---

**902S**

- 2.73 [69.4]
- 0.725 [18.4]

Finishes: Black
Certifications:

Notes: Transition between tile to tile applications.

---

**903S**

- 3.50 [88.9]
- 0.730 [18.5]

Finishes: Black
Certifications:

Notes: Transition to carpet.

---

**904S**

- 3.41 [86.6]
- 0.730 [18.5]

Finishes: Black
Certifications:

Notes: Transition between carpet to tile applications.

---

**905S**

- 1.99 [50.4]
- 0.720 [18.3]

Finishes: Black
Certifications:

Notes: Transition between communicating door frames.
WEATHERSTRIPPING - INTERLOCKING/OVERHEAD DRIP GUARDS

Fasteners: 
#6 x 5/8” pan head sheet metal screws

717S

1 1/8”
[28]

3/4”
[19.1]

Finishes: 
MIL, DBA

Certifications:

718S

5/8”
[15.9]

3/4”
[19.1]

1/4”
[6.4]

Finishes: 
MIL, DBA, GLD

Inserts: 
V

Certifications:

810S

HEAD

DOOR

1 1/2”
[38.1]

Finishes: 
MIL, DBA, GLD

Certifications:

709S

PERFORATED
UP 90°

Finish: 
Black

Certifications:

770S

1 3/8”
[35]

19/32”
[15.1]

1 7/8”
[47.6]

Finishes: 
MIL, DBA, GLD

Inserts: 
B, V, or without insert

Category: 
H, J (with insert)

Certifications:
WEATHERSTRIPPING - PRESS-ON GASKETING

Adhesive Mullion Seal
710S

- Thermoplastic Elastomer (TPE) material
- Intumescent material

Finishes: Charcoal, Brown
Category: H, G, J
Certifications: BHMA, UL

Notes:
- Requires 1/8" clearance
- Not recommended for door frames with 1/2" stop or less
- Recommend 3/16" backset - door side hinge
- Intumescent material
- Thermoplastic Elastomer (TPE) material

Combination Edge-Sealing System with Smoke Control
Field applied edge-sealing system gaskets with integrated smoke fin. Add to the frame of a B, C or 1/3 hour labeled fire door.

719

- Thermoplastic Elastomer (TPE) material
- Intumescent material

Finishes: Charcoal, Brown
Category: H, G, J
Certifications: BHMA, UL

Notes:
- Requires 1/8" clearance
- Not recommended for door frames with 1/2" stop or less
- Recommend 3/16" backset - door side hinge
- Intumescent material
- Thermoplastic Elastomer (TPE) material

720

- Thermoplastic Elastomer (TPE) material
- Intumescent material

Finishes: Charcoal, Brown, White
Category: H, G, J
Certifications: BHMA, UL

Notes:
- Thin design for doors and frames with tight tolerances
- Intumescent material
- Thermoplastic Elastomer (TPE) material

722

- Thermoplastic Elastomer (TPE) material
- Intumescent material

Finishes: Charcoal, Brown
Category: H, G, J
Certifications: BHMA, UL

Notes:
- Requires 1/8" clearance
- Recommend 3/16" backset - door side hinge
- Intumescent material
- Thermoplastic Elastomer (TPE) material

Edge-Sealing Systems
Field applied edge-sealing system gaskets. Add to the frame of a B, C or 1/3-hour labeled fire doors to comply with positive pressure requirements.

734

- Intumescent material
- Thermoplastic Elastomer (TPE) material

Finishes: Charcoal, Brown
Category: H, G, J
Certifications: BHMA, UL

Notes:
- Intumescent material
- Thermoplastic Elastomer (TPE) material

721

- Thermoplastic Elastomer (TPE) material
- Intumescent material

Finishes: Charcoal, Brown, Gray, White
Category: H, J
Certifications: BHMA, UL

Notes:
- Thermoplastic Elastomer (TPE) material

724

- Intumescent material
- Thermoplastic Elastomer (TPE) material

Finishes: Charcoal, Brown
Category: G
Certifications: BHMA, UL

Notes:
- Intumescent material
- Thermoplastic Elastomer (TPE) material

729

- Intumescent material
- Thermoplastic Elastomer (TPE) material

Finishes: Charcoal, Brown, White
Category: G
Certifications: BHMA, UL

Notes:
- Intumescent material
- Thermoplastic Elastomer (TPE) material
Smoke Seal Systems
Add to the frame of a smoke rated opening to comply with the requirements of NFPA 80, 105, and UL1784. The addition of a smoke seal is necessary to complete installation instructions and validate the “S” label of a smoke control door.

726

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<thead>
<tr>
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<tbody>
<tr>
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Notes:
Silicone material

736

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Notes:
Silicone material

737

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Notes:
Silicone material

Draft Control Gaskets

725

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<tr>
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Notes:
Sponge neoprene material

727

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Notes:
Thermoplastic Elastomer (TPE) material

728

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Notes:
Silicone material

738

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Notes:
Silicone material

739

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<tr>
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<td>H, J</td>
<td>BHMA</td>
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Notes:
Silicone material
WEATHERSTRIPPING - DOOR BOTTOMS

Provides a seal against weather. For best results, use in conjunction with a threshold.

Fasteners: #6 x 5/8" pan head sheet metal screws

Notes:
- Lengths up to 48" are supplied 1/2" over their stated size to allow for fitting
- Lengths over 48" are supplied 1" over size
- “Cut to exact length,” may be specified
- Constructed of strong extruded 6063-T5 aluminum

774S

Finishes: MIL, DBA
Inserts: V, N
Category: H, J
Certifications:

776S

Finishes: CLR, DBA, GLD
Inserts: N
Category: H, J
Certifications:

777S

Finishes: MIL, DBA, GLD
Inserts: V, N
Category: H, J
Certifications:
WEATHERSTRIPPING - AUTOMATIC DOOR BOTTOMS

Provides an outstanding seal against drafts, light, smoke and sound. For best results, use in conjunction with a threshold. When door fully closes, the gasket extends downward to provide a seal. Gasket retracts when door is opened.

Fasteners:
- #8 x 1-1/4” pan head sheet metal screws furnished with surface mount types
- #6 x 5/8” Pan head sheet metal screws furnished with mortise types

Notes:
- Furnished exact length as stated. May be trimmed for fitting (2” maximum).
- Furnished with end cover and strike plates
- DBA/GLD end caps available on MIL or CLR devices (Not available on 742S)

730S - Mortise

740S - Surface

Finishes: MIL
Inserts: V
Category: J
Certifications:
Notes: For use on hollow metal door

742S - Mortise

743S - Mortise

747S - Surface

Finishes: CLR, DBA, GLD
Inserts: N
Category: H, J
Certifications:

hollow metal door

For use on
Typically door bottom sweeps are used on the exterior of an outswing door.

Fasteners:  
- #6 x 5/8" pan head sheet metal screws furnished with mortise types

Notes:  
- MIL finish weatherstripping is supplied with zinc plated screws
- Color anodized weatherstripping is supplied with screws plated to match
- Stainless steel weatherstripping is supplied with stainless steel screws

**750S**

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<td>H, J</td>
<td>BHMA</td>
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**752S**

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**753S**

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**754S**

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<tr>
<td>DBA, GLD, CLR</td>
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**756S**

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<td>MIL, DBA, GLD</td>
<td>V</td>
<td>H, J</td>
<td>BHMA</td>
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</table>
WEATHERSTRIPPING - DOOR BOTTOM SWEEPS

759S

- 1/4" [6.3]
- 27/32" [21.4]
- 31/32" [24.6]

Finishes: MIL, DBA, GLD
Inserts: V
Category: H, J
Certifications: BHMA

770S

- 19/32" [15]
- 1 1/8" [34.9]
- 7/8" [22.2]
- 15/32" [11.8]

Finishes: MIL, DBA, GLD
Inserts: B, V
Category: H, J
Certifications: UL

801S

- 7/16" [11.4]
- [25.4]
- [25.4]

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications: UL

802S

- 1/4" [6.4]
- 3/4" [19.1]
- 1/2" [12.7]

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications: BHMA

806S

- 1/4" [6.4]
- 3/4" [19.1]
- 1 17/16" [46.4]

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications: UL

872S

- 1/4" [6.4]
- 7/8" [22.2]
- 5/8" [15.9]

Finishes: DBA, GLD, CLR
Inserts: N
Category: H, J
Certifications: UL

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### WEATHERSTRIPPING - DOOR BOTTOM SWEEPS

#### 882S

- **Finishes:** DBA, GLD, CLR
- **Inserts:** B
- **Category:** H, J
- **Certifications:** [UL Listed]

#### 884S

- **Finishes:** DBA, GLD, CLR
- **Inserts:** V
- **Category:** H, J
- **Certifications:** [UL Listed]
WEATHERSTRIPPING - ADJUSTABLE JAMB WEATHERSTRIPPING

Fasteners: #6 x 5/8” pan head sheet metal screws
Notes: • MIL finish weatherstripping is supplied with zinc plated screws
• Color anodized weatherstripping is supplied with screws plated to match
• Stainless steel weatherstripping is supplied with stainless steel screws

860S

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Category: H, J
Certifications: 
Notes: Adjustable

865S

Finishes: MIL, DBA, GLD
Inserts: N
Category: H, J
Certifications: 
Notes: Adjustable

864S

Finishes: DBA, GLD, CLR
Inserts: N
Category: H, J
Certifications: 
Notes: Adjustable

866S

Finishes: MIL, DBA
Inserts: N
Category: H, J
Certifications: 
Notes: Spring adjustable

Fasteners: #6 x 5/8” pan head sheet metal screws
Notes: • MIL finish weatherstripping is supplied with zinc plated screws
• Color anodized weatherstripping is supplied with screws plated to match
• Stainless steel weatherstripping is supplied with stainless steel screws
Fasteners:
#6 x 5/8” pan head sheet metal screws

Notes:
• MIL finish weatherstripping is supplied with zinc plated screws
• Color anodized weatherstripping is supplied with screws plated to match
• Stainless steel weatherstripping is supplied with stainless steel screws

785S

Finishes: MIL, DBA, GLD
Inserts: N
Category: H, J
Certifications:

802S

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications:

803S

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications:

808S

Finishes: MIL, DBA, GLD
Inserts: B
Category: H, J
Certifications:
WEATHERSTRIPPING - JAMB WEATHERSTRIPPING

882S

- 1 9/16" [39.5]
- 1/4" [6.4]
- 1" [25.4]
- 5/16" [8.3]

Finishes: DBA, GLD, CLR
Inserts: B
Category: H, J
Certifications:

883S

- 1 13/16" [45.8]
- 1/2" [12.7]
- 1/4" [6.4]
- 5/16" [8.3]

Finishes: DBA, GLD, CLR
Inserts: B
Category: H, J
Certifications:

881S

- 1 1/2" [38.1]
- 1 1/4" [31.8]
- 1/4" [6.4]

Finishes: MIL, DBA, GLD
Inserts: V, N, S, W
Category: H, J
Certifications:

885S

- 1 1/4" [31.8]
- 1/2" [12.7]
- 1/4" [6.4]

Finishes: DBA, GLD, CLR
Inserts: V, N, S, W
Category: H, J
Certifications:

890S

- 1/4" [6.4]

Finishes: MIL, DBA, GLD
Inserts: V, N, S
Category: H, J
Certifications:

891S

- 3/4" [19.1]

Finishes: MIL, DBA, GLD
Inserts: V, N, S
Category: H, J
Certifications:
892S

- Finishes: MIL, DBA, GLD
- Inserts: N
- Category: H, J
- Certifications: 

893S

- Finishes: MIL, DBA, GLD
- Inserts: W
- Category: J
- Certifications: 

896S

- Finishes: MIL, DBA, GLD
- Inserts: V, N, S
- Category: H, J
- Certifications: 

---

**WEATHERSTRIPPING - JAMB WEATHERSTRIPPING**

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**892S**

![Diagram of 892S childish]

**893S**

![Diagram of 893S childish]

**896S**

![Diagram of 896S childish]
WEATHERSTRIPPING - ASTRAGALS/MEETING STILES

Fire labeled Astragals & Meeting Stiles should only be mounted on pairs of doors with a gap that meets NFPA 80 2-3.1.7 (1/8" +/- 1/16" for steel doors and not exceeding 1/8" for wood doors)

Fasteners:
#6 x 5/8" Pan head sheet metal screws

Notes:
• MIL finish weatherstripping is supplied with zinc plated screws
• Color anodized weatherstripping is supplied with screws plated to match
• Stainless steel weatherstripping is supplied with stainless steel screws

751S

Finishes: MIL, DBA, GLD
Inserts: N, V, W
Category: H, J
Certifications:

Notes: Order two (2) for a set

756S

Finishes: MIL, DBA, GLD
Inserts: V
Category: H, J
Certifications:

Notes: Order two (2) for a set

771S

Finishes: MIL, DBA
Inserts: V, W, N, S
Category: J
Certifications:

Notes: Order two (2) for a set

772S

Finishes: MIL, DBA, GLD
Inserts: V, N, W
Category: H, J
Certifications:

774S

Finishes: MIL, DBA
Inserts: V, N
Category: H, J
Certifications:
WEATHERSTRIPPING - ASTRAGALS/MEETING STILES

776S

Finish: MIL, DBA, GLD
Inserts: N
Category: H, J

Certifications:

Notes: Order two (2) for a set

836S

Finish: MIL, DBA, GLD
Inserts: N
Category: H, J

Certifications:

837S

Finish: MIL, DBA, GLD
Inserts: W, V, N, S
Category: H, J

Certifications:

Notes:

835S

Finish: MIL, DBA, GLD, US32D, USP
Category: J

Certifications:

Notes:
- Maximum length = 10 feet
- Available with thrubolts
WEATHERSTRIPPING - ASTRAGALS/MEETING STILES

839S

| Finishes: | MIL |
| Inserts: | W |
| Category: | J |
| Certifications: | |

Notes: • Adjustable

849S

| Finishes: | MIL, DBA |
| Notes: | Magnetic
| | 96” maximum door height
| | Designed for use on 80” to 96” doors only
| | Sets shorter than 80” may not work properly

845S | 846S

SPRING LOADED

| Finishes: | MIL, DBA, GLD |
| Inserts: | W |
| Category: | J |
| Certifications: | |

Notes: • Adjustable
• Order two (2) for a set

872S

| Finishes: | DBA, GLD, CLR |
| Inserts: | N |
| Category: | H, J |
| Certifications: | BHMA |

Notes: • Order two (2) for a set

847S | 848S

| Finishes: | MIL, DBA, GLD |
| Inserts: | W |
| Category: | J |
| Certifications: | |

Notes: • Adjustable
• Spring loaded
• Mortise depth = 21/32”
**WEATHERSTRIPPING - ASTRAGALS/MEETING STILES**

### 874S

- **Dimensions:**
  - 5/16" [7.9]
  - 1 5/8" [41.3]
  - 7/16" [11.1]

- **Notes:**
  - "V" or cushion bronze weatherstrip, for wood or metal doors
  - Supplied with fasteners, specify wood or metal application
  - Fasteners should be 3" on center

**Finish Options:** MIL, DBA, GLD, US32D

**Inserts:** N

**Category:** H, J

**Certifications:**

---

### 822S

- **Dimensions:**
  - 7/8" x 16 EA Nail
  - Jamb
  - Door 1-1/8" [28.6]

- **Notes:**
  - "V" or cushion bronze weatherstrip, for wood or metal doors
  - Supplied with fasteners, specify wood or metal application
  - Fasteners should be 3" on center

**Finish Options:** DBA, GLD, CLR

**Inserts:** B

**Category:** H, J

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**Notes:** Order two (2) for a set