WOOD DUCKS  -  Wood ducks are one of the most stunningly pretty of all waterfowl. They live in wooden swamps and nest in holes in trees or “wood duck boxes” erected in their living areas. Wood ducks are equipped with strong claws which allow them to perch on branches.
## Gasketing Product Index

<table>
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<td>Neoprene Perimeter</td>
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<td>G28-G29</td>
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<tr>
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<td>G17</td>
</tr>
</tbody>
</table>
**Rating Symbols Legend**

**POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C**; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).

**CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B**; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).

**NGP-EDGE® SEALING SYSTEM**, Certified by UL to ANSI/UL10C Category ‘G’; required for Category B wood fire doors to meet positive pressure requirements complying with IBC, and NFPA 252. See individual products for maximum door size and ratings.

**SMOKE & DRAFT CONTROL GASKETING**, Certified by UL to ANSI/UL10C and ANSI/UL 1784 Category ‘H’; complies with IBC and NFPA 105 for use on ‘S’ labeled Positive Pressure Hollow Metal fire doors rated up to 3 hours, and Wood fire doors rated up to 90 minutes (some ratings vary as noted).


**AIR INFILTRATION TESTED** to ASTM E283, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.

**ANTI-MICROBIAL.** Treated with an anti-microbial additive to inhibit the growth of microorganisms.

**ANSI/BHMA CERTIFIED**. Certified gasketing complies with American National Standard for Door Gasketing and Edge Seal Systems ANSI/BHMA A156.22, and is listed in the BHMA Certified Products Directory.

Online product listings: [www.ul.com/database](http://www.ul.com/database)

---

**LEED Green Building**

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council.

Our current LEED letter containing LEED qualification information for all our products is available at [www.ngp.com](http://www.ngp.com)

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website, [www.ngp.com](http://www.ngp.com)

Health Product Declarations (HPD) may be viewed on our website, [www.ngp.com](http://www.ngp.com)

National Guard Products sustainability report may be viewed on our website, [www.ngp.com](http://www.ngp.com)

Contact us regarding our end of use product recycling program.
Materials

Metal retainers for gasketing are Aluminum Alloy 6063, T5 temper, unless noted.

Architectural Bronze gasketing is Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.

Stainless steel gasketing is Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

NGP utilizes a variety of gasketing materials including Vinyl, Neoprene, Silicone, Nylon Brush, Thermo-Plastic Elastomers (TPE), Thermo-Plastic Vulcanizates (TPV), Polypropylene Pile, Ethylene-Propylene-Diene-Monomer (EPDM), Polyurethane, and Intumescent Fire Seals. Product Illustrations indicate the Gasketing material. Properties of many primary gasket materials are listed on the perimeter seal catalog pages.

Adhesive mounted gasketing utilizes a pressure sensitive modified acrylic adhesive protected by a release liner. Once installed it provides a permanent bond in exterior or interior locations. End use temperature range is -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.

Gasketing Finishes

<table>
<thead>
<tr>
<th>Aluminum:</th>
<th>NGP Suffix:</th>
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<tbody>
<tr>
<td>Mill Finish</td>
<td>None</td>
</tr>
<tr>
<td>Anodized Aluminum</td>
<td>A</td>
</tr>
<tr>
<td>Dark Bronze</td>
<td>DKB</td>
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<tr>
<td>Gold Powder Coat</td>
<td>B</td>
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<tr>
<td>Polished</td>
<td>POL</td>
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<tr>
<td>Powder Coated Colors – See Page L2 for details</td>
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<tr>
<td>Architectural Bronze:</td>
<td>BR</td>
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<tr>
<td>Satin Finish</td>
<td>BR-DKB</td>
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<tr>
<td>Dark Bronze Oil Rubbed</td>
<td>BR-POL</td>
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<td>Polished</td>
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<tr>
<td>Stainless Steel:</td>
<td>None</td>
</tr>
<tr>
<td>Brushed (#4)</td>
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</tbody>
</table>

Gasket Materials:

- Neoprene is Black
- NGP-TPV is Black
- Polyurethane is Black
- Vinyl is Gray, except where noted as Black
- Silicone colors: Black, Brown, Clear, Gray, Tan, White
- Thermoplastic is Brown
- Nylon Brush colors: Black, Gray
- TPE colors: Brown, Charcoal, Clear, White
- Polypropylene Pile is Gray
- EPDM is Gray

Powder Coat Finish

Powder Coat finish is available on most metal gasketing retainers upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.
The chart below indicates the STC rating of specially made acoustic doors using various applications of gasketing. The first column is the rating of the door panel only; tested in a static inoperable condition to determine the sound transmission through the door. The second column is the rating of the operable door installed with hardware and gasketing which provides the STC rating of the door assembly.


<table>
<thead>
<tr>
<th>STC Rating Static Door Panel</th>
<th>STC Rating Operable Door w/ Gasketing</th>
<th>Perimeter Seals</th>
<th>Door Bottom</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>30</td>
<td>103N, 107N, 120N, 122N 127N, 133N, 134N, 137N 137S, 303N, 700N, 700S</td>
<td>420N</td>
<td>897N</td>
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<tr>
<td>30</td>
<td>30</td>
<td>130S</td>
<td>225S</td>
<td>896S</td>
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<tr>
<td>30</td>
<td>30</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
</tr>
<tr>
<td>33</td>
<td>31</td>
<td>5020</td>
<td>780S</td>
<td>513</td>
</tr>
<tr>
<td>35</td>
<td>33</td>
<td>5025</td>
<td>780S</td>
<td>513</td>
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<tr>
<td>36</td>
<td>33</td>
<td>5050</td>
<td>335N</td>
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<td>34</td>
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<td>513</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>5070, 9750, 9850</td>
<td>335S</td>
<td>896S</td>
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<td>335N</td>
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<td>120N, 122N, 133N, 134N 137N, 137S, 700N, 700S</td>
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<td>107S</td>
<td>220S</td>
<td>950S</td>
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<td>44</td>
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<td>1038N, 3038N</td>
<td>423N</td>
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<tr>
<td>43</td>
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<td>*(2) 5050</td>
<td>420N</td>
<td>412</td>
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<td>42</td>
<td>40</td>
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<tr>
<td>40</td>
<td>40</td>
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<td>423N</td>
<td>896S</td>
</tr>
<tr>
<td>44</td>
<td>40</td>
<td>131N</td>
<td>335N</td>
<td>896S</td>
</tr>
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<td>103NFS</td>
<td>422N</td>
<td>897N</td>
</tr>
<tr>
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<td>*(2) 5050</td>
<td>335N</td>
<td>896S</td>
</tr>
<tr>
<td>47</td>
<td>43</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
</tr>
<tr>
<td>50</td>
<td>43</td>
<td>103N, 134N</td>
<td>420N</td>
<td>897N</td>
</tr>
<tr>
<td>50</td>
<td>43</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
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<td>420N</td>
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</tr>
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<td>44</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
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<tr>
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<td>103NFS</td>
<td>422N</td>
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<td>52</td>
<td>44</td>
<td>107N, 131N, 1038N, 3038N</td>
<td>420N</td>
<td>897N</td>
</tr>
</tbody>
</table>

* Indicates 2 rows of 5050 installed as follows:

- Head & Lock Jamb
- Hinge Jamb

897N x 420N
## STC Seal Sets - Single Doors

NGP Seal Sets maintain the static door panel STC with **NO DROP OFF**. Use with any STC rated door up to the STC rating indicated.

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>5050 &amp; 2525</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
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<tr>
<td>3</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
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<tr>
<td>4</td>
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<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>5</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>225S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>6</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>None</td>
<td>None</td>
<td>896S-ADJ</td>
</tr>
</tbody>
</table>

### STC #3 Illustration

**TOP OF FRAME**

HEADER / JAMB AND DOOR

*optional

For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum.

---

NGP Seal Sets maintain the static door panel STC with **NO DROP OFF**. Use with any STC rated door up to the STC rating indicated.

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>5050 &amp; 2525</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>3</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>4</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>5</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>225S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>6</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>None</td>
<td>None</td>
<td>896S-ADJ</td>
</tr>
</tbody>
</table>

### STC #3 Illustration

**TOP OF FRAME**

HEADER / JAMB AND DOOR

*optional

For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum.

---

NGP Seal Sets maintain the static door panel STC with **NO DROP OFF**. Use with any STC rated door up to the STC rating indicated.

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>5050 &amp; 2525</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>3</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>4</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>5</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>225S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
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<td>52</td>
<td>5075 &amp; 5060</td>
<td>None</td>
<td>None</td>
<td>896S-ADJ</td>
</tr>
</tbody>
</table>

### STC #3 Illustration

**TOP OF FRAME**

HEADER / JAMB AND DOOR

*optional

For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum.
## STC Seal Sets - Pairs of Doors

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Meeting Edge Seals</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>225S X STC2-PR</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
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<tr>
<td>8</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>9</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2-PR</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
</tr>
</tbody>
</table>

*optional

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

---

**STC #7 Illustration**

1. **TOP OF FRAME**
   - HEADER / JAMB AND DOOR

2. **MEETING EDGE**
   - INACTIVE DOOR
   - ACTIVE DOOR

3. **BOTTOM OF DOORS**
   - THRESHOLD AND FLOOR

---

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum*
Sound Transmission Class (STC) Rated Pairs of Doors

Pairs of doors are intrinsically more difficult to control sound transmission through. Sealing the gap between the meeting edges under the doors is challenging, requiring a combination of properly coordinated and installed gasketing to seal all gaps.

<table>
<thead>
<tr>
<th>STC Rating Static Door Panel</th>
<th>STC Rating Operable Door w/ Gasketing</th>
<th>Perimeter Seals</th>
<th>Door Bottom</th>
<th>Threshold</th>
<th>Astragal</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
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<td>5020</td>
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<td>896S</td>
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<td>5020</td>
<td>780S</td>
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<td>5070</td>
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<td>35</td>
<td>33</td>
<td>5025</td>
<td></td>
<td>896S</td>
<td>5070</td>
</tr>
</tbody>
</table>

Standard Doors without Special Acoustic Cores

Solid core wood doors with gasketing test to an STC rating of approximately 28 to 30. Mineral core wood doors and Honey comb core hollow metal doors with gasketing test to an STC rating of approximately 32 to 36. Without gasketing these doors have no sound control and test to an STC rating between 15 and 20.

To most effectively reduce sound transmission and maximize the acoustic performance we recommend the following be used:

PERIMETER AND DOOR BOTTOMS

- 107S Perimeter Seal
- 700S Seal at head if a parallel arm closer is used
- 220S Automatic Door Bottom
- Any Threshold - To allow proper sealing of Automatic Door Bottom

MEETING EDGE of PAIRS

- 109N Overlapping Astragal
- 5070 Adhesive Astragal
- 115N Astragal Set

School Classroom Door STC Requirements

ANSI/ASA S12.60 Acoustical Performance Criteria, Design Requirements, and Guidelines for schools requires interior doors opening into core learning spaces to achieve STC 30 or greater in their operable condition and interior doors into music rooms at least STC 40.
**ANSI/BHMA**

The following interprets ANSI/BHMA numbers which identify type and function of products. For products that meet ANSI/BHMA Standards, look for the BHMA certified logo next to the product in our catalog. For a complete listing refer to the BHMA Certified Products Directory, available online at [www.buildershardware.com](http://www.buildershardware.com).

**ANSI/BHMA A156.22**

American National Standard for Door Gasketing and Edge Seal Systems

<table>
<thead>
<tr>
<th>1 Product Section</th>
<th>2 Retainer Material</th>
<th>3 Gasketing Material</th>
<th>4 Product Type</th>
<th>5 Material Application</th>
<th>6 Gasketing Rating</th>
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<tr>
<td>“R” designates Gasketing</td>
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<td>0. Optional material or none used</td>
<td>D. Vinyl</td>
<td>cell</td>
<td>4. Door Sweep or Shoe</td>
<td>4. Door Face, Semi-Mortise</td>
<td>1. Smoke/Energy</td>
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<td></td>
<td>E. Silicone Rubber</td>
<td>U. Intumescent</td>
<td>5. Door Sweep or Shoe with Drip Cap</td>
<td>5. Frame Rabbit (surface or mortise)</td>
<td>Performance rated.</td>
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<td></td>
<td>G. Thermoplastic Elastomer (TPE)</td>
<td>V. Intumescent/Pile</td>
<td>7. Astragal Split or Compensating</td>
<td>7. Frame Face</td>
<td>Rated.</td>
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<td>J. Thermoplastic Rubber</td>
<td>X. Intumescent/Thermoplastic Urethane (TPU)</td>
<td>9. Rain Drip without gasket</td>
<td>9. Stop (H.M.), Stop Face (WD)</td>
<td>4. Smoke Rated</td>
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<td>Y. Optional material or none used</td>
<td>10. Other</td>
<td>10. Other</td>
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<td>R. Intumescent</td>
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**Buy American Requirements**

**Buy American Act**

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American certificate may be obtained on our website www.ngp.com.

**Federal American Recovery and Reinvestment Act**

More than 99% of our products qualify as manufactured products produced in the United States as manufactured goods, as defined in OMB Guidance (176.140; 176.70(a) (2) (ii); 176.160, complying with the Federal American Recovery Reinvestment Act, ARRA-2009. Contact us for a Buy America ARRA certificate for your project.

**Buy America**

More than 99% of our products comply with Buy America Requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661. Contact us for a Certificate of Compliance for your project.

Components of unknown origin are considered to have been produced or manufactured outside the United States.
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.

Fire door assemblies in corridors and smoke barrier walls are required to be smoke and draft control assemblies tested in accord with UL1784 allowing a maximum air leakage of 3 cubic feet per minute per square foot of door opening at ambient temperature (75°F) and elevated temperature (400°F). These assemblies require the letter “S” on the fire rating label of the door indicating compliance "when listed or labeled gasketing is also installed."

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

- **Category G** - Edge Sealing Systems
- **Category H** - Smoke and Draft Control Gasketing
- **Category J** - Gaskets other than Category G or H.

### Category A classified fire doors:

**Hollow Metal Fire-Rated Doors**

Wood Fire-Rated Doors constructed with edge seals built-in during the manufacturing process.

**Require Category H** – Smoke and Draft Control Gasketing at perimeter and at meeting edge of pairs of “S” label doors in corridor locations or smoke barrier walls.

**Require Category H** – Smoke and Draft Control door bottom seals on “S” label doors where pressurization is provided to restrict smoke movement (typically controlled by HVAC system).

The following products are recommended UL classified Category H for wood doors - 90 min. max., hollow metal doors - 3 hour max.

- Perimeter: 2525, 5020, 5025, 5040, 5050, 5070, 5075
- Meeting edge of pairs: 115N, 125N, 137N, 137S, 5070, 9115, 9125, 9600, 9605

### Category B classified fire doors:

**Wood Fire-Rated Doors**

Wood Fire-Rated Doors that require the addition of a Category G classified edge sealing system in the field.

**Require Category G** – Edge Sealing System, at perimeter and at meeting edge of Pairs.

**Require Category H** – Smoke and Draft Control Gasketing at perimeter and at meeting edge of pairs of “S” label doors in corridor locations or smoke barrier walls.

**Require Category H** – Smoke and Draft Control door bottom seals on “S” label doors where pressurization is provided to restrict smoke movement (typically controlled by HVAC system).

The following products are recommended UL classified for both category G and H:

- Perimeter 20 minute: 5050
- Perimeter 45, 60, 90 minute: 9450, 9550, 9750, 9850
- Meeting edge of pairs: 9550
**Self-Adhesive Silicone Gasketing**

**Silicone Bulb Fire and Smoke Seal**

- **Edge Sealing System - Category “G”** for 20 minute rated category B wood doors perimeter application up to:
  - single swing 4'0 x 8'0
  - pairs 8'0 x 8'0
  - use 9550 at the meeting edge of pairs

- **Smoke and Draft Control - Category “H”**
  - Up to 3 hours Hollow Metal fire doors
  - Up to 90 minutes Wood fire doors

- Meets requirements of RoHS Directive

See adhesive specifications on page G9

**Anti-ligature Silicone Bulb Fire and Smoke Seal**

5050 silicone bulb seal available with serrations every 8" designed to break apart preventing it from being used to hang or strangle.

- Applications include psychiatric facilities, prisons and other treatment facilities.
- Installs as a continuous length providing the same sealing properties for light, sound, air and smoke as our original 5050.

Available per foot (bulk) or in stock length 300' rolls.

- **Edge Sealing System - Category “G”** for 20 minute rated category B wood doors perimeter application up to:
  - single swing 4'0 x 8'0
  - pairs 8'0 x 8'0
  - use 9550 at the meeting edge of pairs

- **Smoke and Draft Control - Category “H”**
  - Up to 3 hours Hollow Metal fire doors
  - Up to 90 minutes Wood fire doors

- Meets requirements of RoHS Directive

See adhesive specifications on page G9
Self-Adhesive Silicone Gasketing

Silicone Bulb Smoke Seal
Available in 17', 20', 25' and 300' rolls.

- 2525B Brown
- 2525C Charcoal
- 2525W White

Silicone Fin Smoke Seal
Available in 17', 20', 25', 300' rolls

- 5040B Brown

Silicone Fin Smoke Seal
Available in 17' and 21' rolls.

- 5060B Brown
- 5060C Charcoal
- 5060CL Clear

Adhesive specifications: Modified acrylic pressure sensitive adhesive protected by release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence of chemicals. End use temperature range, long term exposure -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.
Self-Adhesive TPE Gasketing

Properties:
• Thermo-Plastic Elastomer (TPE)
• Good abrasion resistance
• Moisture resistant
• BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and energy performance
• Adhesive specifications shown on page G9

• Rigid base with flexible elastomeric fins
• Flame resistant
• Temperature range -60°F to 275°F
• Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
  • REACH and RoHS compliant

TPE Batwing Smoke Seal

5020B Brown
5020C Charcoal
5020W White
5020CL Clear

Available in 36", 48", 72", 84", 96" and 108" lengths

TPE Double Batwing Smoke Seal

Superior sealing characteristics against smoke, air & sound

5025B Brown
5025C Charcoal
5025W White
5025CL Clear

Available in 36", 48", 72", 84", 96" and 108" lengths

TPE Batwing Smoke Seal (Kerf Press-in)

5021B Brown
5021C Charcoal
5021W White

Fits Kerf 1/8" wide x 7/16" deep

Available in 36", 48", 84", 96" and 108" lengths

* Anti-microbial not available in clear
Self-Adhesive TPE Gasketing

Properties:

- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and energy performance
- Adhesive specifications shown on page G9

- Rigid base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
  - REACH and RoHS compliant

**5075B** Brown
**5075C** Charcoal
**5075CL** Clear
**5075W** White*

Available in 36", 48", 72", 84", 96" and 108" lengths

*White available in 36", 48", 84" and 96" lengths

---

TPE Double Shark Fin Smoke Seal

Smoke rated for perimeter and/or meeting edge astragal applications

**5070B** Brown
**5070CL** Clear

Available in 36", 48", 72", 84", 96" and 108" lengths

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* Anti-microbial not available in clear

Astragal application pair of doors
Self-Adhesive Gasketing

Adhesive bonds for permanent mounting once installed
Shelf life of adhesive products prior to installation is one year

Rigid Black Vinyl Seal

PF180

Available in 36", 48", 86", 96" & 120" lengths

“FATT”

Fast Attach Two-Way Tape

Fast attach two way tape provides an easy and effective alternative for gasketing installation. Two way tape is applied to the metal housing insuring a quick and easy installation. Then for security, 3 tek-type self drilling screws are provided to further secure each piece of material to the frame stop. A no problem installation with no holes to drill.

To order add suffix “FATT” to product number. See price list for products available with this feature.

FATT IS NOT CLASSIFIED FOR USE ON FIRE DOORS.
Seal for Mullion Applications

Closed cell silicone sponge strip 1-1/8” wide x 3/32” thick with an adhesive strip for mounting directly to the face of the mullion that doors close against.

Available in 86” and 96” lengths

Self-Adhesive
See adhesive specifications on page G9

Corner Pad

Helps acoustics and seals corner gap for air leakage control. Apply to jamb on hinge side, opposite bottom corner of door edge.

Self-Adhesive

5100N Black Silicone
5100S Gray Silicone
NGP-Edge, Sealing System/Smoke and Draft Control Gasketing Category “G” and “H” Classified

Intumescent with TPE Fin Fire and Smoke Seal

- 20, 45, 60, 90 minute rated category B wood doors perimeter application up to:
  - single swing 4’0 x 9’0
  - standard pair 8’0 x 9’0 use 9550 at the meeting edge

- 1/8” clearance required between door and frame

- Available in 36”, 48”, 84”, 96” and 108” lengths

- Self-Adhesive
  See adhesive specifications on page G9

NGP-Edge, Intumescent with TPE Fins

- Fire and Smoke Seal

- 20, 45, 60, 90 minute rated category B wood doors up to:
  - single swing 4’0 x 9’0, perimeter application
  - pairs 8’0 x 9’0, perimeter/meeting edge

- 1/8” clearance required between doors and between door & frame

- Available in 36”, 48”, 84”, 96” and 108” lengths

- Self-Adhesive
  See adhesive specifications on page G9
NGP-Edge, Sealing System/Smoke and Draft Control Gasketing
Category ‘G’ and ‘H’ Classified

Intumescent with TPE Fire and Smoke Seal

20, 45, 60, 90 minute rated category B
wood doors perimeter application up to:
single swing  4'0 x 9'0
pairs     8'0 x 9'0

1/8" clearance required between door and frame
Available in 36", 48", 84", 96" and 108" lengths
Self-Adhesive
See adhesive specifications on page G9

NGP-Edge® Intumescent Fire Seal x Smoke Seal

20, 45, 60, 90 minute rated category B
wood doors perimeter application up to:
single swing  4'0 x 9'0
pairs     8'0 x 9'0

1/8" clearance required between door and frame
Available in 36", 48", 84", 96" and 108" lengths
Self-Adhesive
See adhesive specifications on page G9
NGP-Edge, Sealing Systems - Category ‘G’ Classified

NGP Intumescent materials are formulated to expand at 375°F to 400°F up to 8-10 times their original thickness; completely sealing the gap around and between doors during a fire.

Intumescent Fire Seal

Perimeter Application:

9800B Brown
9800C Charcoal
9800W White

Intumescent with Protective Skin

Available in 17’, 21’ and 150’ rolls

Self-Adhesive
See adhesive specifications on page G9

9800B Brown
9800C Charcoal
9800W White

Intumescent with Protective Skin

Available in 17’, 21’ and 150’ rolls

Self-Adhesive
See adhesive specifications on page G9

Meeting Edge Application up to 8’0 x 9’0 pairs of category B wood doors:

20 Minute rated with single strip installed

45, 60 Minute rated with two strips installed

NGP-Edge, Intumescent Fire Seal

20, 45, 60, 90 minute rated category B wood doors up to:

single swing 4’0 x 9’0
pairs 8’0 x 9’0

1-9/16” 5/64”

1/8” clearance required between doors and between door and frame

U.S. Pat. DES 417,739
**Vinyl Seals**

Properties
- Thermoplastic polymer: Polyvinyl Chloride formulated with an environmentally friendly Bio-based plasticizer
- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to Cold, Heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

---

**Polypropylene Pile Seals**

Temperature range 32°F to 275°F
Pile is gray

---

All vinyl seals this section

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray
exception: •vinyl is black

---

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray
exception: •vinyl is black
Neoprene Sponge Seals

Properties:
- Synthetic rubber polymer blend: PVC, Nitrile rubber (NBR), and Chloroprene closed cell advanced elastomeric foam
- Very good abrasion resistance, tensile strength and memory
- Flame resistant
- Moisture resistant
- Temperature range -20°F to 200°F
- Good resistance to ozone, sunlight and aging
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished.
Screw holes slotted for adjustment

Closed Cell Sponge

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Neoprene Bulb Seals

Properties:
• Synthetic rubber polymer blend: Chloroprene and EPDM
• Very good abrasion resistance, tensile strength and memory
• Flame resistant
• Moisture resistant
• Temperature range -20°F to 200°F
• Good resistance to ozone, sunlight and aging
• BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

All neoprene seals this section

Dense Bulbs

Polyurethane Seals

Properties:
• Very good abrasion resistance, tensile strength, memory and UV resistance
• Flame resistant
• Moisture resistant
• Temperature range -65°F to 175°F

All polyurethane seals this section

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
neoprene is black
polyurethane is black

#6 x 3/4” Stainless Steel Sheet Metal
Screws furnished
Screw holes slotted for adjustment
Silicone Seals

Properties:
• Synthetic rubber polymer: Siloxane closed cell sponge
• Excellent flexibility and memory
• Flame resistant
• Moisture resistant
• Temperature range -100°F to 500°F, remains flexible at extreme temperatures
• Excellent resistance to ozone, UV and aging
• Recommended for areas using FM200 or Halon Fire Suppression Systems
• BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

All products this page

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
silicone sponge is gray

Closed Cell Sponge

Silicone Plus

Specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration. Silicone Plus gasket material is tan.
Silicone Seals

Properties:
• Synthetic rubber polymer: Siloxane
• Excellent flexibility and memory
• Flame resistant
• Moisture resistant
• Temperature range -100°F to 500°F, remains flexible at extreme temperatures
• Excellent resistance to ozone, UV and aging
• Recommended for areas using FM200 or Halon Fire Suppression Systems
• BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat, Cold, Air Infiltration and Smoke Infiltration

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

Dense Bulbs

E-Lon® Foam Seals

TPE foam Core with Brown UV resistant skin

Kerf Application
Fits 1/8" wide x 7/16" deep kerf

284Q
Stock lengths: 36", 48", 96"
Nylon Brush Seals

Properties:
• Synthetic polymer: Polyamide
• Excellent abrasion resistance, flexibility and memory
• Moisture resistant
• Retains insecticides well
• Temperature range -70°F to 425°F
• BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat, Cold, Air Infiltration and Smoke Infiltration in most common profiles as indicated by BHMA Certified symbol
• REACH and RoHS compliant
• Not effective against water penetration

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

A - anodized aluminum with gray brush
B - gold with black brush
DKB - dark bronze with black brush
no suffix - mill aluminum with gray brush

* up to 3 hours metal doors, 1 hour wood doors.
Nylon Brush Seals

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment.

C607A C607B C607DKB

D608A D608B D608DKB

G610A G610B G610DKB

H612A H612B H612DKB

I-615A I-615B I-615DKB

G611A G611DKB

H614A H614DKB

I-616A I-616DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

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601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

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A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB

A605A A605B A605DKB

B606A B606B B606DKB

600 600A 600B 600DKB

601 601A 601B 601DKB

A605A A605B A605DKB

OV634A OV634B OV634DKB

OV633A OV633B OV633DKB

OV633A OV633B OV633DKB
Perimeter Seals Compatible with Parallel Arm Closers

- No break in seal for closer mounting
- Closer and/or overhead holder attach to frame through weatherseal section. Install seal first
- Allows mounting of rim exit device strikes without notching gasketing
- Head section not drilled
- Jamb sections furnished with slotted holes for adjustment
- Self drilling #8 (Tek type) screws furnished

**700EN**
- 1-1/2" neoprene

**700EU**
- 1-1/2" polyurethane

**704EV**
- 1-1/2" vinyl

**706E** - gray brush
**706EDKB** - black brush

**700ES**
- 1-1/2" silicone

**701EP**
- 1-1/2" polypropylene pile

**705EV**
- 1-1/2" vinyl

**700EU**
- 1-1/2" polyurethane

**706E** - gray brush
**706EDKB** - black brush

**9700E**
- 1-1/2" silicone

**9706E** - gray brush
**9706EDKB** - black brush

**A** - anodized aluminum
**B** - gold
**DKB** - dark bronze
no suffix - mill aluminum
vinyl & pile are gray
neoprene, silicone, & polyurethane are black, silicone+
is tan
Perimeter Seals Compatible with Parallel Arm Closers

Profiles on this page may be cut to fit narrow frame stops at additional charge. Specify “cut to width” on order.

- 700N - 700NA - 700NB - 700NDKB - neoprene
- 700S - 700SA - 700SB - 700SDKB - silicone
- 700U - 700UA - 700UB - 700UDKB - polyurethane
- 701P - 701PA - 701PB - 701PDKB - polypropylene pile
- 704V - 704VA - 704VB - 704VDKB - vinyl
- 705V - 705VA - 705VB - 705VDKB - vinyl
- 706A - gray brush - 706B - black brush - nylon brush
- 9700 - 9700A - 9700B - 9700DKB - silicone+
Concealed Fastener Seals

Snap-on cover conceals screw heads for clean appearance

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

A - anodized aluminum
B - gold
DKB - dark bronze
*vinyl is black
neoprene, NGP-TPV & silicone are black
nylon brush is gray with anodized aluminum
metal; black with gold and DKB metal
**Allseal® Gasketing**

Our exclusive line of premium grade seals specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.

### Perimeter Seals

- **9001A**
- **9001B**
- **9001DKB**

### Astragal Seals

- **9115A**
- **9115B**
- **9115DKB**

### Perimeter Seals or Sweeps

- **9600**
- **9600A**
- **9600B**
- **9600DKB**

---

### Metal

<table>
<thead>
<tr>
<th></th>
<th>nylon+</th>
<th>silicone +</th>
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<tbody>
<tr>
<td>A - anodized aluminum</td>
<td>gray</td>
<td>tan</td>
</tr>
<tr>
<td>B - gold</td>
<td>black</td>
<td>tan</td>
</tr>
<tr>
<td>DKB - dark bronze</td>
<td>black</td>
<td>tan</td>
</tr>
<tr>
<td>no suffix</td>
<td>gray</td>
<td>tan</td>
</tr>
</tbody>
</table>

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished with the Perimeter Seals or Sweeps. Screw holes slotted for adjustment.

---

**Provided as two piece set**

Order as **set** to receive two pieces.
Stainless Steel

Stainless steel type 304 brushed #4 finish (US32D, 630)
Neoprene & polyurethane are black, epdm & silicone are gray, silicone+ is tan

#6 X 3/4 stainless steel SMS furnished
Screw holes slotted for adjustment

Perimeter Seals

120NSS neoprene
120SSS silicone

Astragal Seals

122NSS neoprene

All perimeter seals this section

(Ensemble: 129USS not smoke rated and not BHMA certified)

#6 X 3/4" and #6 x 1" stainless steel SMS furnished

109NSS

127NSS neoprene
127SSS silicone

129NSS neoprene
129USS polyurethane

130NSS neoprene
130SSS silicone

139SS #10 x 3/4" SMS furnished
Available lead lined .030" thick lead- suffix "LD"

125NSS epdm
9125SSS silicone+

Provided as two piece set
Stainless Steel

Stainless steel type 304 brushed #4 finish (US32D, 630)
Neoprene & polyurethane are black, silicone and nylon brush are gray

#6 X 3/4" stainless steel SMS furnished
Screw holes slotted for adjustment

Rain Drip Guard

![Rain Drip Guard Diagram]

Door Sweep

![Door Sweep Diagram]

Automatic Door Bottom

![Automatic Door Bottom Diagram]

1. Lead insert available for radiation shield - specify "lead-lined".
2. Door bottom is handed. Right hand supplied unless specified. Units under 36" not field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.
Architectural Bronze

Architectural bronze satin finish (728), similar to US4
Optional finishes: Polished (721), suffix “POL”
Dark Oxidized oil rubbed (722) similar to US10B, suffix DKB

neoprene is black
silicone is gray

#6 x 3/4" brass plated SMS furnished
screw holes slotted for adjustment

Perimeter Seals

130NBR  neoprene
130SBR  silicone

1-1/2"

3/16"
Architectural Bronze

Door Sweep

Architectural bronze satin finish (728), similar to US4
Optional finishes: Polished (721), suffix “POL”
Dark Oxidized oil rubbed (722) similar to US10B, suffix DKB
neoprene, polyurethane & nylon brush are black
silicone is gray
#6 x 3/4” brass plated SMS furnished
screw holes slotted for adjustment

Automatic Door Bottoms

All automatic door bottoms this section

1. Lead insert available for radiation shield - specify “lead-lined”.
2. Door bottom is handed. Right hand supplied unless specified. Units under 36” not field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.
Adjustable Perimeter Seals

• Adjustment screws on 10” centers allow adjustment without re-positioning mounting location

#6 x 3/4” or #6 x 1-1/2” Stainless Steel SMS furnished

A - anodized aluminum
B - gold
DKB - dark bronze
Neoprene & 106 silicone are black
107 silicone is gray

Option: Foam back seal - suffix ‘FS’
Steel Mounting Brackets

- Allows installation of door closer shoe or rim exit device strike without interruption or notching of perimeter seals
- Furnished with #12 x 1-1/4" SMS
- 3/16" thick steel
- 6" long

Fits over 103N, 104N, 303N, 304N, 1038N, 3038N

- 3ASL Aluminum Silver
- 3DKB Dark Bronze
- 3SP Prime Coat

Fits over 106N, 107N, 141P, 141S

- 7ASL Aluminum Silver
- 7DKB Dark Bronze
- 7SP Prime Coat
Spring Adjustable Perimeter Seals

- Adjustment screws on 10” centers allow adjustment without re-positioning mounting location
- Spring-loaded to maintain pressure for the most effective seal

#6 x 3/4” or #6 x 1-1/2” Stainless Sheet Metal Screws furnished

A - anodized aluminum
B - gold
DKB - dark bronze
neoprene & silicone are black
pile is gray
**Automatic Door Bottoms - Surface**

- Mounts on push side of door
- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field, under 36" should not be cut in the field, order net length
- Minimum length 11", maximum length 60" (except 780)
- End caps furnished standard. Models 220, 221, 229, 310 require door handing, RH supplied standard units under 36" NOT field reversible. Please specify handing

**Silinaxe**

*Endurance Tested to 5 Million Cycles*

- Available 23" to 96" in length
- End caps furnished standard.
- Will work half mortised on swing or sliding doors!

**Brass and Stainless Steel**

- 9/16" Max Drop
- 1/2" Max. Drop
- 7/8" Max Drop
- 11/16" Max Drop
- 2-1/4" Max Drop
- 2-1/2" Max Drop
- 7/8" Max Drop
- 5/8" Max Drop

---

1. Lead insert available for radiation shield - specify "lead-lined".
2. Door Bottom is handed. Right hand supplied unless specified. Units under 36" NOT field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.2, 1,000,000 cycle test-grade 1.
Automatic Door Bottoms - Heavy Duty Surface

• Mounts on push side of door
• Use with a threshold for maximum sealing capability
• Nylon brush recommended for carpet applications where no threshold is provided
• Specify exact net length required to avoid field sizing
• 36” and longer may be cut up to 4” in the field, under 36” should not be cut in the field, order net length
• Minimum length 11”, maximum length 60”
• End caps furnished standard

E-Z Touch

SURFACE  5/8”

neoprene silicone
223NA 223SA
223NB 223SB
223NDKB 223SDKB

The EZ-Touch door bottom requires only 3 to 5 pounds of pressure to activate.

Perfect for accessibility applications and still provides an effective seal.

Available 23-1/4” net to 48” in length.

End caps furnished standard

Sliding or Pocket Doors Surface or Half Mortise - Heavy Duty

neoprene (1)
421NA 421NB 421NDKB

Designed for use on sliding or pocket doors. A series of actuating bars keep the seal parallel to the sill or threshold until the door is in the closed position.

Available 11” to 144” in length.

End caps not available

1. Lead insert available for radiation shield - specify “lead-lined”.
2. For half mortise applications specify HM in item number prior to finish (ie: 420NHMDKB).
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.
Automatic Door Bottoms - Mortise

- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36” and longer may be cut up to 4” in the field, under 36” should not be cut in the field, order net length
- End caps furnished standard
- Furnished 1/2” shorter than ordered to fit within net door size. (i.e. 36” is furnished 35-1/2”).

Fits wood fire door mortise restrictions

Hollow Metal Doors

Fits in 1-5/8” x 3/4” channel. A “furring strip” may be used to lower automatic door bottom when a deeper channel is used.

Furnished 1/2” shorter than ordered to fit within net door size. (i.e. 36” is furnished 35-1/2”) Length may be field cut up to 4”.

Fire ratings apply to metal doors only.

- #4 x 5/8” SMS furnished. End caps not available.
- Available 24” to 48” in length
Automatic Door Bottoms - Heavy Duty Mortise

- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36” and longer may be cut up to 4” in the field, under 36” should not be cut in the field, order net length
- Anodized aluminum end caps furnished standard. DKB end caps available - please specify
- Furnished 1/2” shorter than ordered to fit within net door size. (i.e. 36” is furnished 35-1/2”)

Fits Wood Fire Door Mortise Restrictions

- Mortise required 15/16” x 1-5/8”
- 7/8” Max Drop
- 423N neoprene
- Available 11” to 48” in length
- Available with lead insert for radiation shield - Specify “lead-lined”
- BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1

- Mortise required 15/16” x 1-5/8”
- 7/8” Max Drop
- 683 nylon brush
- Available 11” to 48” in length

- Mortise required 1” x 2-1/8”
- 2-3/8” Max Drop
- 781S nylon brush
- Available 23” to 96” in length
- Door Edge mounting brackets allow easy access for removal and cleaning the door bottom drop mechanism. Perfect for use in healthcare and other facilities subject to stringent standards and inspections

- Mortise required 1” x 2-1/8”
- 2-3/8” Max Drop
- 422N neoprene
- Available 11” to 60” in length

- Mortise required 1” x 2-1/8”
- 2-3/8” Max Drop
- 522N neoprene
- Available 11” to 60” in length

- Mortise required 1” x 2-1/8”
- 2-3/8” Max Drop
- 682 nylon brush
- Available 11” to 60” in length

All products this section

- neoprene is black
- nylon brush is gray
- #4 x 5/8” SMS furnished

*up to 3 hrs. metal doors, 45 minute wood doors (does not fit mortise restrictions of some wood door manufacturers)
Dual Actuated Automatic Door Bottoms

WILL NOT FUNCTION ON PAIRS OF DOORS

• Actuated by frame stop on both ends
• Low compression & operating force
• Concealed fasteners
• For pairs use matching single actuated door bottoms shown below

Surface
- silicone
  4440SA
  4440SB
  4440SDKB
- nylon brush
  4440WHA
  4440WHB
  4440WHDKB

Furnished 1-3/8” shorter than ordered to fit between stops on frame. (i.e. 36” is furnished 34-5/8”) #6 x 3/4” TEK furnished

Mortise
- silicone
  4447S
- nylon brush
  4447WH

Furnished 1/4” shorter than ordered to fit net door width. (i.e. 36” is furnished 35-3/4” net) #4 x 5/8” SMS furnished

Available 24” to 96” in length. May be field cut up to 3”.

Single Actuated Automatic Door Bottoms

• Matches design of dual actuated door bottoms. For use on pairs of doors or field size for single doors
• Low compression & operating force
• Concealed fasteners

Surface
- silicone
  4441SA
  4441SB
  4441SDKB
- nylon brush
  4441WHA
  4441WHB
  4441WHDKB

#6 x 3/4” TEK furnished

Mortise
- 4448S silicone
- 4448WH nylon brush

Furnished 1/4” shorter than ordered to fit net door size. (i.e. 36” is furnished 35-3/4” net) #4 x 5/8” SMS furnished

HANDED - NOT FIELD REVERSIBLE

Available 24” to 96” in length. May be field cut up to 3”.
Thermal Break Door Shoes

Thermal break door shoes feature a rigid spline creating a separation to prevent the transfer of outside temperature and frost through the door shoe.

#6 x 3/4” stainless steel sheet metal screws furnished. Screw holes slotted for adjustment.

819 Series

819VA
819VDKB

816 Series

816VA
816VDKB

Gasketing options:

819NA
819NDKB

816NA
816NDKB

819TA
819TDKB

816TA
816TDKB

819T6A
819T6DKB

816T6A
816T6DKB

MATERIALS & FINISHES
A - anodized aluminum
DKB - dark bronze
**Acoustical Door Shoe**

Aluminum alloy 6063, T5 temper
Thermoplastic polymer: Polyvinyl Chloride formulated with an environmentally friendly Bio-based plasticizer

- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to cold, heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration
- #6 x 3/4” stainless steel SMS furnished
- Screw holes slotted for adjustment

**MATERIALS & FINISHES**
- no suffix - mill aluminum
- DKB - dark bronze
- vinyl is gray

**STC Rated Acoustical Foam Pad**

Foam seal self adhesive

- Helps acoustics and seals at corner gap
- Apply to jambs on hinge and strike side
- Available as set of 2 pads
- Color is black

60FP STC 52
Extended Door Shoes

#6 x 3/4” Stainless Steel SMS furnished
End caps available - sold separately

92 Series

92NWHHA 92NWHDKB
neoprene & nylon brush

92 Series Gasketing options:

92WHA 92WHDKB
nylon brush

92NA 92NDKB
neoprene

92VA 92VDKB
vinyl

92TA 92TDKB
thermoplastic

92TWHA 92TWHDKB
nylon brush & thermoplastic

99 Series

99NWHHA 99NWHDKB
neoprene & nylon brush

99 Series Gasketing options:

99WHA 99WHDKB
nylon brush

99NA 99NDKB
neoprene

99VA 99VDKB
vinyl

99TA 99TDKB
thermoplastic

99TWHA 99TWHDKB
nylon brush & thermoplastic

Gasketing options:

99 Series

99 Series

A- anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum

vinyl is gray
neoprene is black
thermoplastic is dark brown
nylon brush is gray with anodized aluminum; black with DKB metal

92 Series

92 Series

99 Series

99 Series

Gasketing options:

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series

99 Series
Smooth Vinyl Door Shoes

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment.

Polypropylene Pile Door Shoes

#6 x 3/4” Stainless Steel SMS furnished. Pile is gray

All vinyl door shoes this section
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray
Neoprene Door Shoes

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment.

15NA
15NB
15NDKB

26NA
26NDKB

112N
112NDKB

113NA
113NDKB

118N
118NDKB

119N
119NB
119NDKB

Nylon Brush Door Shoe

#6 x 3/4” Stainless Steel SMS furnished. Screw holes slotted for adjustment.

95WH gray brush
95WHDKB - black brush

Double Fin Door Shoe

• Rigid polypropylene top with flexible TPV fins
• Designed for hollow metal doors with inverted bottom channel
• Furnished undrilled
• #8 x 3/4” TEK screws furnished
• Available for 36” and 48” door widths

896
896DKB

Threshold

Designed for use on standard 3/4” undercut door used with NGP 896 V, N, or S ADA compliant threshold as shown.
Finned Vinyl Door Shoes

#6 x 3/4" Stainless Steel SMS furnished. Screw holes slotted for adjustment.

All products this page

- Anodized aluminum
- Gold
- Dark bronze
- Mill aluminum
- Vinyl is gray

35EV
35EVDKB

35VA
35VB
35VDKB

36EV
36EVDKB

36VA
36VDKB

312V
312VDKB

313VA
313VDKB

318V
318VDKB

319EV
319EVDKB

319V
319VB
319VDKB
Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins. 48" maximum length

Material Finishes:
A - anodized aluminum
DKB - dark bronze
no suffix = mill aluminum thermoplastic is dark brown

#6 x 3/4" stainless steel SMS furnished

12T6
12T6DKB

13T6A
13T6DKB

35ET6
35ET6DKB

36ET6
36ET6DKB

319ET6
319ET6DKB

Extended Door Shoes

End caps available - sold separately

92T6A
92T6DKB

99T6A
99T6DKB
## Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins. Available with Notched Fins to allow air flow while restricting light, suffix NF.

48” maximum length

### Extended Door Shoes

End caps available - sold separately

### Rigid Thermoplastic Door Shoe with Soft Vinyl Fins

- Available 36” and 48”
- Color is dark brown

- Option: Notched Fins - suffix ‘NF’

#6 x 3/4” stainless steel SMS furnished

### All products this page

[Image of extended door shoe]

Thermoplastic polymer seal with rigid base and soft vinyl fins. Available with Notched Fins to allow air flow while restricting light, suffix NF.

### Material Finishes:

- A - anodized aluminum
- DKB - dark bronze
- No suffix = mill aluminum
  - Thermoplastic is dark brown

### End caps available - sold separately

Available sizes:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12T</td>
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<tr>
<td>12TDKB</td>
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<td>35ET</td>
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<tr>
<td>99TDKB</td>
<td></td>
</tr>
<tr>
<td>344</td>
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</tr>
</tbody>
</table>
**Neoprene Sweeps**

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment. Neoprene is black.

**200NA**
200NB
200NDKB

**201NA**
201NB
201NDKB

**202NA**
202NB
202NDKB

#6 x 1" stainless steel SMS

**198NA**
198NB
198NDKB

**199NA**
199NB
199NDKB

**197NA**
197NB
197NDKB

All products this page

Material Finishes:
A - anodized aluminum
DKB - dark bronze
no suffix = mill aluminum
neoprene is black

**Reinforced Neoprene Sweep**

**Polyurethane Sweeps**

polyurethane is black

**Silicone Sweep**

silicone is gray

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment. Neoprene is black.

**200NA**
200NB
200NDKB

**201NA**
201NB
201NDKB

**202NA**
202NB
202NDKB

#6 x 1" stainless steel SMS

**198NA**
198NB
198NDKB

**199NA**
199NB
199NDKB

**197NA**
197NB
197NDKB

All products this page

Material Finishes:
A - anodized aluminum
DKB - dark bronze
no suffix = mill aluminum
neoprene is black

**200SA**
200SB
200SDKB

0.060" thick Lead Insert available for radiation shield – suffix ‘LD’
Vinyl Sweeps

#6 x 3/4" Stainless Steel SMS furnished. Screw holes slotted for adjustment.

Concealed Fastener Nylon Brush Sweeps

Gray brush with anodized aluminum; Black brush with gold and DKB

Exceptions:
- vinyl is black

All products this page

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum

Vinyl is gray

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>96V</td>
<td>Stainless Steel SMS furnished. Screw holes slotted for adjustment.</td>
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<tr>
<td>96VA</td>
<td>#6 x 3/4&quot; Stainless Steel SMS furnished. Screw holes slotted for adjustment.</td>
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<td>Stainless Steel SMS furnished. Screw holes slotted for adjustment.</td>
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<td>100VDKB</td>
<td>Stainless Steel SMS furnished. Screw holes slotted for adjustment.</td>
</tr>
<tr>
<td>102V</td>
<td>Stainless Steel SMS furnished. Screw holes slotted for adjustment.</td>
</tr>
<tr>
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<td>1015V</td>
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Nylon Brush Sweeps

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes are slotted for adjustment.

A - anodized aluminum with gray brush
B - gold with black brush
DKB - dark bronze with black brush
no suffix - mill aluminum with gray brush

Our exclusive line of premium grade seals specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.

All products this page
Nylon Brush Seals with EPDM Rubber Insert

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished. Screw holes are slotted for adjustment.

A - clear anodized with black brush
B - gold with black brush
DKB - dark bronze with black brush

• EPDM rubber insert protects against water penetration and provides an effective bottom seal for exterior doors
• Excellent abrasion resistance, flexibility and memory
• Moisture resistant
• Retains insecticides well
• Temperature range - 60°F to 350°F
Door Bottom Seals

14RA
14RB
14RDKB

Available for 2-1/4" doors - specify

1-1/4"
3/4"
1-3/4"

1/4"
1-1/8"
2-15/16"

overhead Door Bottom Seal

Properties:
• Synthetic rubber polymer blend: Chloroprene and EPDM
• Very good abrasion resistance, tensile strength and memory
• Flame resistant
• Moisture resistant
• Temperature range -20°F to 200°F
• Good resistance to ozone sunlight and aging

Material Finishes:
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix = mill aluminum
neoprene, silicone & NGP-TPV are black

Overhead Door Bottom Seal

Properties:
• Synthetic rubber polymer blend: Chloroprene and EPDM
• Very good abrasion resistance, tensile strength and memory
• Flame resistant
• Moisture resistant
• Temperature range -20°F to 200°F
• Good resistance to ozone sunlight and aging

Material Finishes:
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix = mill aluminum
neoprene, silicone & NGP-TPV are black
Smoke-Rated Astragal Seals

Fire-rated Astragal Seals cannot replace any astragal required on the door by the door manufacturer to maintain its fire label. IBC, NFPA 80, NFPA105, and NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8”.

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished. Screw holes are slotted for adjustment.

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<th>silicone</th>
<th>nylon+</th>
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<tr>
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<td>gray</td>
<td>tan</td>
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<tr>
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</tbody>
</table>

* Provided as two piece set

---

5/8” - 3/8” •

epdm
115NA
115NB
115NDKB

Provided as two piece set

---

7/8” - 3/8” •

epdm
125NA
125NB
125NDKB

Provided as two piece set

---

5/8” - 3/8” •

silicone+
9115A
9115B
9115DKB

Provided as two piece set

---

7/8” - 13/32” •

silicone+
9125A
9125B
9125DKB

Provided as two piece set

---

5/8” - 7/16” •

nylon+
9675A
9675B
9675DKB

Provided as two piece set

---

Smoke-Rated Astragal Seals

Fire-rated Astragal Seals cannot replace any astragal required on the door by the door manufacturer to maintain its fire label. IBC, NFPA 80, NFPA105, and NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8”.

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5/8” - 3/8” •

epdm
115NA
115NB
115NDKB

Provided as two piece set

---

7/8” - 3/8” •

epdm
125NA
125NB
125NDKB

Provided as two piece set

---

5/8” - 3/8” •

silicone+
9115A
9115B
9115DKB

Provided as two piece set

---

7/8” - 13/32” •

silicone+
9125A
9125B
9125DKB

Provided as two piece set

---

5/8” - 7/16” •

nylon+
9675A
9675B
9675DKB

Provided as two piece set

---

Smoke-Rated Astragal Seals

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5/8” - 3/8” •

epdm
115NA
115NB
115NDKB

Provided as two piece set

---

7/8” - 3/8” •

epdm
125NA
125NB
125NDKB

Provided as two piece set

---

5/8” - 3/8” •

silicone+
9115A
9115B
9115DKB

Provided as two piece set

---

7/8” - 13/32” •

silicone+
9125A
9125B
9125DKB

Provided as two piece set

---

5/8” - 7/16” •

nylon+
9675A
9675B
9675DKB

Provided as two piece set

---

Smoke-Rated Astragal Seals

Fire-rated Astragal Seals cannot replace any astragal required on the door by the door manufacturer to maintain its fire label. IBC, NFPA 80, NFPA105, and NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8”.

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished. Screw holes are slotted for adjustment.

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5/8” - 3/8” •

epdm
115NA
115NB
115NDKB

Provided as two piece set

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7/8” - 3/8” •

epdm
125NA
125NB
125NDKB

Provided as two piece set

---

5/8” - 3/8” •

silicone+
9115A
9115B
9115DKB

Provided as two piece set

---

7/8” - 13/32” •

silicone+
9125A
9125B
9125DKB

Provided as two piece set

---

5/8” - 7/16” •

nylon+
9675A
9675B
9675DKB

Provided as two piece set
Surface Mounted Astragal Sets

#6 x 3/4" Stainless Steel SMS furnished. Screw holes are slotted for adjustment.

- **A** - anodized aluminum
- **B** - gold
- **DKB** - dark bronze
- **no suffix** - mill aluminum

Brush is gray with mill finish and anodized aluminum metal; black with gold and DKB vinyl is gray, except * vinyl is black

**nylon brush**:
- 600
- 600A
- 600B
- 600DKB

**vinyl**:
- 97V
- 97VA
- 97VB
- 97VDKB*

Order as set to receive two pieces

---

Order as set to receive two pieces

---

Order as set to receive two pieces

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Order as set to receive two pieces

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Order as set to receive two pieces

---

Order as set to receive two pieces
Spring Adjustable Astragal Sets

- Adjustment screws on 10” centers allow adjustment of the seal without re-positioning mounting location
- Spring-loaded to maintain constant pressure for the most effective seal

Magnetic Astragal Sets

#6 x 3/4” Stainless Steel SMS furnished. Screw holes are slotted for adjustment. Not recommended for use on metal doors.
Overlapping Astragals

109NA neoprene
109NB
109NDKB

1-1/2"

1-3/8"

3/8"

neoprene

158VA vinyl
158VDBK

1-3/8"

3/16"

3/8"

Maximum Height 120"

Fits beveled edge doors.

#8 x 1" FH U/C SMS furnished.

158SA silicone
158SDKB

1-1/8"

7/8"

158PA polypropylene pile
158PDKB

1-1/2"

158PDKB

Maximum height 120"

#10 X 3/4" SMS furnished.

176A
176DKB

Maximum height 120"

Fits square edge doors.

#10 X 3/4" SMS furnished.

Specialty Astragal

14RA
14RB
14RDKB

1-3/4"

Available for 2-1/4" doors - specify

Max. 1-1/2"

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum

vinyl & pile are gray
neoprene, NGP-TPV & silicone are black; except 114 silicone is gray
Solid Metal Astragals

- Available lead-lined .030” thick lead, suffix “LD”
- Available with SNB, specify

139SP Steel Prime Coat
139SPDKB Steel Dark Bronze

Furnished with #12 x 1-1/4” SMS. Can replace astragal required by the door manufacturer on wood or metal fire-rated doors. IBC, NFPA80, NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8”. Astragal must overlap gap and inactive door minimum of 3/4”.

139A Anodized Aluminum
139DKB Aluminum Dark Bronze

#10 x 3/4” SMS furnished

139SS Stainless Steel
type 304 brushed #4 finish (US32D, 630)

#10 x 3/4” SMS furnished

Steel Security Astragals

1392SP Steel Prime Coat

Maximum height 120”
#1/4-20 SNB’s furnished.

1390SP-83-1/8” 1390SP-95-1/8” 14 Ga. Galvanized Steel
Prime Coat

No notching or field cutting needed for curved lip strikes
Mortised Astragals

polypropylene pile
143PA
143PDKB

#6 SMS furnished.

neoprene
143NA
143NDKB

silicone
143SA
143SDKB

Mortise dimensions 3/4" wide x desired depth. #6 X 3/4" SMS furnished.

116N neoprene
116NDKB

136N NGP-TPV
136NDKB

136S silicone
136SDKB

136P polypropylene pile
136PDKB

Mortise dimensions 7/16" wide x desired depth. #2 SMS furnished.

nylon brush
A635

Mortise dimensions 7/32" x 1/2"

Order as set to receive two pieces
Maximum length 108"

151N NGP-TPV
151S silicone
151V vinyl

Mortise dimensions 7/32" wide x 1/2"
Order as set to receive two pieces
Maximum length 108"

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
nylon brush, pile, and vinyl are gray
neoprene, NGP-TPV & silicone are black
Spring Adjustable Mortised Astragals

- Adjustment screws on 10” centers allow adjustment of the seal without repositioning mounting location.
- Spring-loaded to maintain constant pressure for the most effective seal.

polypropylene pile
144PA
144PDKB

silicone
144SA
144SDKB

Mortise dimensions 9/16” wide x 7/8”
#6 x 3/4” SMS furnished

Provided as two piece set

Self-Adhesive Pile Astragals

- 340P polypropylene pile
- 336P polypropylene pile

Safety Seal for Double-Acting Doors

Seals and closes gap at heel of double-acting or center pivoted doors.

#6 x 3/4” Stainless Steel Sheet Metal Screws furnished.

1000RA
1000RB
1000RDKB

5”, 10” or 16” overall widths available - Specify
Rain Drip Guards

#6 x 3/4" Stainless Steel
SMS furnished

A - anodized aluminum
B - gold
DKB - dark bronze
No Suffix - mill aluminum

16A
16B
16DKB

Magnetic Seals

#6 x 3/4" Stainless Steel  SMS furnished.
Screw holes slotted for adjustment.
Maximum length 144"

159MA
159MB
159MDKB

Cushion Bronze Weatherstrip

Cushion material will not coil. Specify lengths required (36", 48", 72" 86", and 96") Nails not included. Normal installation requires 3/4 lb. of nails per 100 ft. of weatherstrip; install 2" o.c. Zinc plated bronze finish nails available in 1 lb. bags. Wafer head pilot point drive nails make excellent applications for metal jambs, normal installation requires 6 per foot. Install using #41 drill bit. Available with Fast Attach Tape - Specify x "FATT".

157MA
157MDKB

magnet encased in brown vinyl

Metal Door
Hinge Side

10C

magnet encased in gray vinyl

5/8" 1-1/4"

1/2" 7/8"

Frame Stop

10 CB

1/2" 7/8"

Hinge Side

1/2"

Hinge Side

43CB

1-1/8" #8 Nail

Door

Door

Jamb

Hinge Side

Hinge Side

Head and Lock Jamb

Frame Stop

Metal Door
GASKETING FASTENERS

#2 x 1/2" FH
Phillips SMS
Use 5/64" Drill

#4 x 5/8" TH
Phillips SMS
Use 7/64" Drill

#6 x 1/2" FH
Phillips SMS
Use 7/64" Drill

#6 x 3/4" PH
Phillips SMS
Use 7/64" Drill

#6 x 1" PH
Phillips SMS
Use 7/64" Drill

#6 x 1 1/2" PH
Phillips SMS
Use 7/64" Drill

1/4" 1/2" 3/4"
FATT Tape
1/32" Thick

1/8 x 7/8" Nail for
Spring/Cushion
Bronze Weather Strip
on Wood Jambs

#10 x 3/4" FH
Phillips U/C SMS
Use 11/64" Drill

#8 x 1 1/4" TH
Phillips SMS
Use 9/64" Drill

#10 x 1 1/2" TH
Phillips SMS
Use 11/64" Drill

#12 x 1 1/4" FH
Phillips SMS

#8 x 1 1/4" TH
Phillips SMS
Use 9/64" Drill

#8 x 1" FH
Phillips U/C SMS
Use 9/64" Drill

#8 x 3/4" PH
Phillips SMS
Use 9/64" Drill

#8 x 3/4" PH
Phillips SMS
Use 9/64" Drill

#6 x 1/2" FH
Phillips SMS
Use 7/64" Drill

#6 x 1/2" FH
Phillips SMS
Use 7/64" Drill

#6 x 1/4" FH
Phillips SMS
Use 11/64" Drill

PH = Pan Head
FH = Flat Head
TH = Truss Head
MS = Machine Screw
SMS = Sheet Metal Screw
SNB = Sex Nut & Bolt
U/C = Undercut