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>Foam Perimeter</td>
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<td>Magnetic</td>
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<td>G18, G19</td>
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<td>Nylon Brush Perimeter</td>
<td>G22, G23</td>
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<td>G47</td>
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<td>G38A-G43</td>
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</tr>
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<td>Vinyl Perimeter</td>
<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>Material</th>
<th>Finish</th>
<th>ANSI/BHMA No.</th>
<th>NGP Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>Mill Finish</td>
<td>ANSI/BHMA 719</td>
<td>US27</td>
</tr>
<tr>
<td></td>
<td>Anodized Aluminum</td>
<td>ANSI/BHMA 628</td>
<td>US28</td>
</tr>
<tr>
<td></td>
<td>Dark Bronze</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gold Powder Coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 717</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Powder Coated Colors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architectural Bronze</td>
<td>Satin Finish</td>
<td>ANSI/BHMA 728</td>
<td>US4</td>
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<tr>
<td></td>
<td>Dark Bronze Oil Rubbed</td>
<td>ANSI/BHMA 722</td>
<td>US10B</td>
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<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 721</td>
<td>US3</td>
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<td>Stainless Steel</td>
<td>Brushed (#4)</td>
<td>ANSI/BHMA 630</td>
<td>US32D</td>
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<td>Gasket Materials:</td>
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<td>N</td>
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<tr>
<td></td>
<td>NGP-TPV is Black</td>
<td></td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>Polyurethane is Black</td>
<td></td>
<td>U</td>
</tr>
<tr>
<td></td>
<td>Vinyl is Gray, except where noted as Black</td>
<td></td>
<td>V</td>
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<tr>
<td></td>
<td>Silicone colors: Black, Brown, Clear, Gray, Tan, White</td>
<td></td>
<td>S</td>
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<tr>
<td></td>
<td>Thermoplastic is Brown</td>
<td></td>
<td>T, T6</td>
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<tr>
<td></td>
<td>Nylon Brush colors: Black, Gray</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>TPE colors: Brown, Charcoal, Clear, White</td>
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<td></td>
<td>Polypropylene Pile is Gray</td>
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</tr>
<tr>
<td></td>
<td>EPDM is Gray</td>
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<td></td>
</tr>
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</table>

**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.
Sound Transmission Class (STC) Rated Single Door Assemblies

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</td>
<td>420N</td>
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<tr>
<td></td>
<td></td>
<td>127N, 133N, 134N, 137N</td>
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<td></td>
</tr>
<tr>
<td></td>
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<td>30</td>
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<td>225S</td>
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<tr>
<td>30</td>
<td>30</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
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<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>
</tr>
<tr>
<td>36</td>
<td>33</td>
<td>5050</td>
<td>335N</td>
<td>513</td>
</tr>
<tr>
<td>35</td>
<td>34</td>
<td>5020, 5075</td>
<td>780S</td>
<td>513</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>5070, 9750, 9850</td>
<td>335S</td>
<td>896S</td>
</tr>
<tr>
<td>40</td>
<td>37</td>
<td>5075</td>
<td>12T</td>
<td>513</td>
</tr>
<tr>
<td>40</td>
<td>37</td>
<td>103N, 107N, 303N</td>
<td>420N</td>
<td>897N</td>
</tr>
<tr>
<td>40</td>
<td>38</td>
<td>(2) 5050</td>
<td>335N</td>
<td>896S</td>
</tr>
<tr>
<td>40</td>
<td>39</td>
<td>120N, 122N, 133N, 134N</td>
<td>420N</td>
<td>897N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>137N, 137S, 700N, 700S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>39</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
</tr>
<tr>
<td>44</td>
<td>39</td>
<td>1038N, 3038N</td>
<td>423N</td>
<td>896S</td>
</tr>
<tr>
<td>43</td>
<td>39</td>
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<td>420N</td>
<td>412</td>
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<td>42</td>
<td>40</td>
<td>(2) 5050</td>
<td>Mortise 312V</td>
<td>896S</td>
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<tr>
<td>43</td>
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<td>423N</td>
<td>896S</td>
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<td>44</td>
<td>40</td>
<td>131N</td>
<td>335N</td>
<td>896S</td>
</tr>
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<td>47</td>
<td>41</td>
<td>103NFS</td>
<td>422N</td>
<td>897N</td>
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<td>45</td>
<td>42</td>
<td>(2) 5050</td>
<td>335N</td>
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<td>47</td>
<td>43</td>
<td>(2) 5050</td>
<td>423N</td>
<td>896S</td>
</tr>
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<td>43</td>
<td>103N, 134N</td>
<td>420N</td>
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<td>50</td>
<td>43</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
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<td>423N</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
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>
</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>
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</tbody>
</table>

STC #3 Illustration

*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>
<td>8144S*</td>
</tr>
<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

---

**STC #7 Illustration**

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

- **TOP FLUSH BOLT**  
  INACTIVE DOOR

- **MEETING EDGE**
  INACTIVE DOOR  
  ACTIVE DOOR

- **BOTTOM - SURFACE BOLT**
  INACTIVE DOOR

- **8144 SMOOTH SIDE UP**
  (OPTIONAL)

- **HINGE & STRIKE JAMBS WITH THRESHOLD**

- **8144 SMOOTH SIDE UP**
  (OPTIONAL)

- **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>
<td>35</td>
<td>5020</td>
<td>896S</td>
<td>5070</td>
<td></td>
</tr>
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<td>34</td>
<td>5020</td>
<td>780S</td>
<td>512</td>
<td>5070</td>
</tr>
<tr>
<td>35</td>
<td>33</td>
<td>5025</td>
<td>896S</td>
<td>5070</td>
<td></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.
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

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>
</tr>
</thead>
</table>

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 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** 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
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

TPE Batwing Smoke Seal

<table>
<thead>
<tr>
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<tr>
<td>5020W</td>
<td>White</td>
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<tr>
<td>5020CL</td>
<td>Clear</td>
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</table>

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

TPE Double Batwing Smoke Seal

Superior sealing characteristics against smoke, air & sound

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<tr>
<td>5025CL</td>
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</table>

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

TPE Batwing Smoke Seal (Kerf Press-in)

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<tr>
<td>5021W</td>
<td>White</td>
</tr>
</tbody>
</table>

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

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<tr>
<td>5075W</td>
<td>White*</td>
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</tbody>
</table>

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

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<td>5070CL</td>
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</table>

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

* 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

*up to 3 hours metal doors, 60 minute wood doors

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**

5100N  Black Silicone  
5100S  Gray Silicone

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**

54CP  Black polypropylene pile

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

Self-Adhesive
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:**

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

**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, perimeter application
- pairs 
- 8’0 x 9’0, perimeter/meeting edge

U.S. Pat. DES 417,739

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

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

Polyurethane Seals

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

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

All neoprene seals this section

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

All polyurethane seals this section
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

Silicone Seals

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

137SA
137SB
137SDKB

152S
152SA
152SB
152SDKB

155S
155SB
155SDKB

156S
156SDKB

160S
160SA
160SB
160SDKB

161SA
161SDKB

.07 aluminum for military specs

All silicone seals this section

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
dense silicone is black
exception: 137 silicone is gray

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

Silicone Seals

Dense Bulbs

137SA
137SB
137SDKB

152S
152SA
152SB
152SDKB

155S
155SB
155SDKB

156S
156SDKB

160S
160SA
160SB
160SDKB

161SA
161SDKB

.07 aluminum for military specs

All silicone seals this section

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
dense silicone is black
exception: 137 silicone is gray
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

A605A  A605B  A605DKB
OV634A  OV634B  OV634DKB
OV633A  OV633B  OV633DKB

B606A  B606B  B606DKB
600  600A  600B  600DKB
601  601A  601B  601DKB

600
600A
600B
600DKB

10C
10C
10C
10C
10C
10C
10C

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment.
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
700-ENDKB
700EU
700-EUDKB
704EV
704-EVDKB
706E
706-EDKB
9700E
9700-EDKB
9706E
9706-EDKB

• Neoprene
• Silicone
• Polyurethane
• Vinyl
• Polypropylene pile

A - anodized aluminum
B - gold
DKB - dark bronze
No suffix - mill aluminum
Vinyl & pile are gray
Neoprene, silicone, & polyurethane are black, silicone+ is tan

700ES
700-ESDKB
701EP
701-EPDKB
705EV
705-EVDKB
700EU
700-EUDKB
706E
706-EDKB
9706E
9706-EDKB

G 24
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.
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 & pile are gray
*vinyl is black
neoprene, NGP-TPV & silicone are black
nylon brush is gray with anodized aluminum metal; black with gold and DKB metal

---

170NA
170NB
170NDKB

170SA
170SB
170SDKB

170VA
170VB
170VDKB*

170PA
170PB
170PDKB

172SA
172SB
172SDKB

172NA
172NB
172NDKB

172VA
172VB
172VDKB

672PA
672PB
672PDKB

675A
675B
675DKB

---

NGP-TPV

---

pile
nylon brush
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

9002
9002A
9002B
9002DKB

Astragal Seals

9115A
9115B
9115DKB

9600
9600A
9600B
9600DKB

9605A
9605B
9605DKB

9675A
9675B
9675DKB

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<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 - mill aluminum</td>
<td>gray</td>
<td>tan</td>
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</tbody>
</table>

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

Provided as two piece set

Order as set to receive two pieces

Order as set to receive two pieces

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**
- **127NSS neoprene**
- **129NSS neoprene**
- **130NSS neoprene**
- **139SS #10 x 3/4” SMS furnished**
- **125NSS epdm**
- **9125SS 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**

![Diagram of Rain Drip Guard]

**Door Sweep**

- **200NSS** neoprene
- **200USS** polyurethane
- **200SSS** silicone

**Automatic Door Bottom**

All automatic door bottoms this section

- neoprene (1, 2)
  - 221NSS
  - 229NSS

- silicone (1, 2, 3)
  - 221SSS
  - 229SSS

- nylon brush (2)
  - 221WHSS
  - 229WHSS

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

3/16”
**Architectural Bronze**

Door Sweep

- **200NBR** neoprene
- **200SBR** silicone
- **200UBR** polyurethane

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

- Neoprene (1, 2, 3) **221NBR**
- Silicone (1, 2, 3) **221SBR**
- Nylon brush (2) **221WHBR**

Brass Housing .035"

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

<table>
<thead>
<tr>
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<th>Neoprene 103NB</th>
<th>Neoprene 103NDKB</th>
<th>Option: Foam back seal - suffix ‘FS’</th>
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<th>Silicone 106SB</th>
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<table>
<thead>
<tr>
<th>Silicone 107SA</th>
<th>Silicone 107SB</th>
<th>Silicone 107SDKB</th>
</tr>
</thead>
</table>

Option: Foam back seal - suffix ‘FS’

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

**All products this page**

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Code</th>
<th>Adjusting Range</th>
<th>Screw Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neoprene</td>
<td>141NA, 141NDKB</td>
<td>1-1/16”</td>
<td>#6 x 3/4” or #6 x 1-1/2”</td>
</tr>
<tr>
<td>Silicone</td>
<td>141SA, 141SDKB</td>
<td>13/16”</td>
<td>#6 x 3/4” or #6 x 1-1/2”</td>
</tr>
<tr>
<td>Neoprene</td>
<td>303NA, 303NB, 303NDKB</td>
<td>1-1/8”</td>
<td>#6 x 3/4” or #6 x 1-1/2”</td>
</tr>
<tr>
<td>Neoprene</td>
<td>3038NA, 3038NB, 3038NDKB</td>
<td>1”</td>
<td>#6 x 3/4” or #6 x 1-1/2”</td>
</tr>
</tbody>
</table>

- 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.

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.
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

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.

E-Z Touch

SURFACE

5/8" (1, 2, 3)
420NA
420NB
420NDKB

neoprene
(1, 2, 3)

2-5/16" 15/16" 7/8" Max Drop

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

420NDKB
neoprene
(2, 3)
520NA
520NB
520NDKB

nylon brush
(2)
680A
680B
680DKB

Sliding or Pocket Doors Surface or Half Mortise - Heavy Duty

All products this page

Surface Mounted

Half mortise Mounted

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
**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").

![Diagram of Automatic Door Bottoms - Mortise](image)

**225N neoprene (1)**

BHMA certified to
ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1

**225S silicone**

BHMA certified to
ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1

**225WH nylon brush**

Available 11" to 60" in length
Available with lead insert for radiation shield - specify “lead-lined”

**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.

**320N NGP-TPV**

**320S silicone**

**320V vinyl**

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

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

Mortise Mounted

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Material</th>
<th>Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>423N</td>
<td>neoprene</td>
<td>11” to 48” in length</td>
<td>Available with lead insert for radiation shield - Specify “lead-lined”</td>
</tr>
<tr>
<td>683</td>
<td>nylon brush</td>
<td>11” to 48” in length</td>
<td>Available with lead insert for radiation shield - Specify “lead-lined”</td>
</tr>
<tr>
<td>781S</td>
<td>nylon brush</td>
<td>23” to 96” in length</td>
<td>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</td>
</tr>
</tbody>
</table>

BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1

Automatic Door Bottoms - Heavy Duty Mortise

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Material</th>
<th>Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>422N</td>
<td>neoprene</td>
<td>11” to 60” in length</td>
<td>Available with lead insert for radiation shield - Specify “lead lined”</td>
</tr>
<tr>
<td>522N</td>
<td>neoprene</td>
<td>11” to 60” in length</td>
<td>Available with lead insert for radiation shield - Specify “lead lined”</td>
</tr>
<tr>
<td>682</td>
<td>nylon brush</td>
<td>11” to 60” in length</td>
<td>Available with lead insert for radiation shield - Specify “lead lined”</td>
</tr>
</tbody>
</table>

BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1

*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

All products this page

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

Surface

[Diagram showing surface mortise with dimensions: 7/8" x 1-3/16" Mortise, 1/2" Max Drop, 1-3/4" Latch Jamb, 1-3/4" Frame Stop, 1/2" Max Drop, 7/8" Hinge Jamb, 1-3/4" Frame Stop]

Furnished 1-3/8" shorter than ordered to fit between stops on frame. (i.e. 36" is furnished 34-5/8")

Mortise

[Diagram showing mortise mortise required: 7/8" x 1-3/16", 25/32" x 1-5/32"

Furnished 1/4" shorter than ordered to fit net door width. (i.e. 36" is furnished 35-3/4" net)

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

Drop Bar with Nylon Brush - suffix "WH"

Surface

[Diagram showing surface mortise with dimensions: 7/8" x 1-3/16" Mortise, 1/2" Max Drop, 1-3/4" Latch Jamb, 1-3/4" Frame Stop, 1/2" Max Drop, 7/8" Hinge Jamb, 1-3/4" Frame Stop]

Furnished 1-3/8" shorter than ordered to fit between stops on frame. (i.e. 36" is furnished 34-5/8")

Mortise

[Diagram showing mortise mortise required: 7/8" x 1-3/16", 25/32" x 1-5/32"

Furnished 1/4" shorter than ordered to fit net door size. (i.e. 36" is furnished 35-3/4" net)

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

819TA  
819TDKB

819T6A  
819T6DKB

816NA  
816NDKB

816TA  
816TDKB

816T6A  
816T6DKB

**Materials & Finishes**

- A - anodized aluminum
- DKB - dark bronze

All door shoes this page
**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

**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

92N WHA 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

99N WHA 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
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
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

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

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

---

1-3/4" vinyl
1/4" 3/16" 1"

35EV
35EVDKB

1-3/4" vinyl
1/4" 3/16"

35VA
359B
35VDKB

1-3/4" vinyl
1/4" 7/16"

36EV
36EVDKB

1-3/16"
7/16" vinyl

36VA
36VDKB

5/8" 1"

1-3/4" vinyl
1/4" 7/8"

312V
312VDKB

1-3/16" vinyl
1/4" 7/16"

313VA
313VDKB

5/8" 1"

1-3/4" vinyl
1/4" 7/8"

318V
318VDKB

1-3/16" vinyl
1/4" 7/16"

319EV
319EVDKB

5/8" 1"

1-3/4" vinyl
1/4" 7/16"

319V
319VB
319VDKB

---

vinyl is gray
Thermoplastic Door Shoes
Thermoplastic polymer seal with rigid base and soft vinyl fins. 48” maximum length

35ET6 35ET6DKB
1-3/4” 1/4” 9/16”

36ET6 36ET6DKB
1-3/4” 5/8” 7/8”

319ET6 319ET6DKB
1-3/4” 5/8” 7/8”

Extended Door Shoes
End caps available - sold separately

92T6A 92T6DKB
1-3/4” 2” 9/16”

99T6A 99T6DKB
1-3/4” 2-3/4” 9/16”

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

#6 x 3/4” stainless steel
SMS furnished
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

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

End caps available - sold separately

Rigid Thermoplastic Door Shoe with Soft Vinyl Fins

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

#6 x 3/4” stainless steel
SMS furnished
Neoprene Sweeps

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

Reinforced Neoprene Sweep

Polyurethane Sweeps
polurethane is black

Silicone Sweep
silicone is gray

0.060” thick Lead Insert available for radiation shield – suffix ‘LD’

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

All products this page

#6 x 1" stainless steel SMS
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

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

#8 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

#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
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”
reinforced neoprene

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

Mortise 3/4” wide x desired depth.
#6 x 3/4 SMS

#8 x 1-1/4” Stainless Steel SMS

146N NGP-TPV 146NDKB
146S silicone 146SDKB
Mortise 7/16” wide x desired depth.
#2 SMS furnished.
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.

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

<table>
<thead>
<tr>
<th>epdm</th>
<th>Provided as two piece set</th>
</tr>
</thead>
<tbody>
<tr>
<td>115NA</td>
<td></td>
</tr>
<tr>
<td>115NB</td>
<td></td>
</tr>
<tr>
<td>115NDKB</td>
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<table>
<thead>
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<th>Provided as two piece set</th>
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</thead>
<tbody>
<tr>
<td>125NA</td>
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</tr>
<tr>
<td>125NB</td>
<td></td>
</tr>
<tr>
<td>125NDKB</td>
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</table>

<table>
<thead>
<tr>
<th>silicone+</th>
<th>Provided as two piece set</th>
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</thead>
<tbody>
<tr>
<td>9115A</td>
<td></td>
</tr>
<tr>
<td>9115B</td>
<td></td>
</tr>
<tr>
<td>9115DKB</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>silicone+</th>
<th>Provided as two piece set</th>
</tr>
</thead>
<tbody>
<tr>
<td>9125A</td>
<td></td>
</tr>
<tr>
<td>9125B</td>
<td></td>
</tr>
<tr>
<td>9125DKB</td>
<td></td>
</tr>
</tbody>
</table>

All products this page

- 5070B Brown
- 5070CL Clear self-adhesive TPE
- * antimicrobial not available in clear

Orders as set to receive two pieces

- 137NA
- 137NB
- 137NDKB

- 137SA
- 137SB
- 137SDKB

- 9600
- 9600A
- 9600B
- 9600DKB

- 9605A
- 9605B
- 9605DKB

- 9675A
- 9675B
- 9675DKB
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  
Order as set to receive two pieces

vinyl  
97V  
97VA  
97VB  
97VDKB*

Order as set to receive two pieces

nylon brush  
A605A  
A605B  
A605DKB  
Order as set to receive two pieces

nylon brush  
672A  
672B  
672DKB  
Order as set to receive two pieces

nylon brush  
675A  
675B  
675DKB  
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**

- **Neoprene**
  - 109NA
  - 109NB
  - 109NDKB

- **Maximum Height** 120"

- **#6 x 1" & #6 x 3/4" stainless steel SMS furnished**

- **Fits beveled edge doors.**
  - #8 x 1" FH U/C SMS furnished.

- **Maximum Height** 120"
  - #10 X 3/4" SMS furnished.

- **Specialty Astragal**

  - **Neoprene**
    - 10C

  - **Vinyl & pile are gray**
    - Neoprene, NGP-TPV & silicone are black; except 114 silicone is gray

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

- **Diameters**
  - 1-1/2" reinforced neoprene
  - 1-3/4" Max.

- **Models**
  - 14RA
  - 14RB
  - 14RDKB
  - Available for 2-1/4" doors - specify

- **Height**
  - Max. 1-1/2"
  - 3/8" 1-5/8"
  - 1-3/8" 5/16"
  - 1-1/8" 7/8"
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”  14 Ga. Galvanneal Steel Prime Coat
1390SP-95-1/8”  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 7/16" wide x desired depth. #2 SMS furnished.

116N neoprene

116NDKB

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

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.

| A  | - clear anodized          |
| B  | - gold                    |
| DKB | - dark bronze             |
| Pile | - gray                  |
| Silicone | - black        |

polypropylene pile
144PA
144PDKB
Mortise dimensions 9/16” wide x 7/8”
#8 x 3/4” SMS furnished
Provided as two piece set

silicone
144SA
144SDKB
Mortise dimensions 9/16” wide x 7/8”
#8 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

Magnetic Seals

5/8"
1-1/4"

159MA
159MB
159MDKB

5/8"
1/2"

157MA
157MDKB

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".

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

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

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

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

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

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

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

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

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

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

#4 Wafer Head Drive Nail
for Spring/Cushion
Bronze Weather Strip
on Metal Jambs
Use #41 Drill bit for pilot hole

#1/4 - 20 Phillips SNB

#12 x 1 1/4" FH
Phillips SMS

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