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.
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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)

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**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

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<td>Dark Bronze</td>
<td></td>
<td></td>
<td>DKB</td>
</tr>
<tr>
<td></td>
<td>Gold</td>
<td></td>
<td></td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 717</td>
<td></td>
<td>POL</td>
</tr>
<tr>
<td></td>
<td>Powder Coated Colors – See Page L2 for details</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architectural Bronze</td>
<td>Satin Finish</td>
<td>ANSI/BHMA 728</td>
<td>US4</td>
<td>BR</td>
</tr>
<tr>
<td></td>
<td>Dark Bronze Oil Rubbed</td>
<td>ANSI/BHMA 722</td>
<td>US10B</td>
<td>BR-DKB</td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 721</td>
<td>US3</td>
<td>BR-POL</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>Brushed (#4)</td>
<td>ANSI/BHMA 630</td>
<td>US32D</td>
<td>None</td>
</tr>
<tr>
<td>Gasket Materials</td>
<td>Neoprene is Black</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NGP-TPV is Black</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polyurethane is Black</td>
<td></td>
<td>U</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vinyl is Gray, except where noted as Black</td>
<td></td>
<td>V</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silicone colors: Black, Brown, Clear, Gray, Tan, White</td>
<td></td>
<td>S</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thermoplastic is Brown</td>
<td></td>
<td>T, T6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nylon Brush colors: Black, Gray</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TPE colors: Brown, Charcoal, Clear, White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polypropylene Pile is Gray</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPDM is Gray</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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 127N, 133N, 134N, 137N 137S, 303N, 700N, 700S</td>
<td>420N</td>
<td>897N</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>130S</td>
<td>225S</td>
<td>896S</td>
</tr>
<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>
</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, 507S</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>5020, 5025</td>
<td>780S</td>
<td>513</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 137N, 137S, 700N, 700S</td>
<td>420N</td>
<td>897N</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>
<td>*(2) 5050</td>
<td>420N</td>
<td>412</td>
</tr>
<tr>
<td>42</td>
<td>40</td>
<td>*(2) 5050</td>
<td>Mortise 312V</td>
<td>896S</td>
</tr>
<tr>
<td>43</td>
<td>40</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
</tr>
<tr>
<td>44</td>
<td>40</td>
<td>131N</td>
<td>335N</td>
<td>896S</td>
</tr>
<tr>
<td>47</td>
<td>41</td>
<td>103NFS</td>
<td>422N</td>
<td>897N</td>
</tr>
<tr>
<td>45</td>
<td>42</td>
<td>*(2) 5050</td>
<td>335N</td>
<td>896S</td>
</tr>
<tr>
<td>43</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>
</tr>
<tr>
<td>51</td>
<td>43</td>
<td>159M</td>
<td>420N</td>
<td>897N</td>
</tr>
<tr>
<td>48</td>
<td>44</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
</tr>
<tr>
<td>49</td>
<td>44</td>
<td>103NFS</td>
<td>422N</td>
<td>8434S</td>
</tr>
<tr>
<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, 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>

*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

*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>
<tr>
<td>35</td>
<td>35</td>
<td>5070</td>
<td>896S</td>
<td>5070</td>
<td></td>
</tr>
<tr>
<td>35</td>
<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>
<tbody>
<tr>
<td>“R” designates Gasketing</td>
<td>1. Brass or Bronze</td>
<td>A. Brush</td>
<td>1. Head &amp; Jamb</td>
<td>1. Door Edge</td>
<td></td>
</tr>
<tr>
<td>5. Stainless Steel</td>
<td>C. Neoprene, closed cell</td>
<td>/Neoprene, solid</td>
<td>Adjustabile</td>
<td>3. Door Face</td>
<td></td>
</tr>
<tr>
<td>0. Optional material or none used</td>
<td>D. Vinyl</td>
<td>T. Intumescent</td>
<td>4. Automatic Door Bottom</td>
<td>4. Door Face, Semi-Mortise</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. Silicone Rubber</td>
<td>U. Intumescent</td>
<td>5. Door Sweep or Shoe</td>
<td>5. Frame Rabbet (surface or mortise)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F. Pile</td>
<td>/Silicone Rubber</td>
<td>with Drip Cap</td>
<td>6. Frame Soft (H.M.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G. Thermoplastic Elastomer (TPE)</td>
<td>V. Intumescent</td>
<td>6. Astragal Overlapping</td>
<td>7. Frame Face</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. Thermoplastic Urethane (TPU)</td>
<td>/Thermoplastic Elastomer (TPE)</td>
<td>7. Astragal Split or Compensating</td>
<td>8. Kerf</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Thermoplastic Rubber</td>
<td>X. Intumescent</td>
<td>8. Astragal Adjustable</td>
<td>9. Stop (H.M.), Stop Face (WD)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K. Spring Metal</td>
<td>/Thermoplastic Urethane (TPU)</td>
<td>9. Rain Drip without gasket</td>
<td>0. Other</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L. Magnetic</td>
<td>Y. Optional material or none used</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M. Felt</td>
<td>Z Intumescent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N. Rubber Fabric</td>
<td>/Thermoplastic Rubber</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P. Intumescent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Q. Intumescent/Brush</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R. Intumescent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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 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 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

5050B Brown
5050C Charcoal
5050W White
5050T Tan
5050CL Clear
Available in 17', 20', 21*, 25' and 300' rolls

*Clear not available in 21'

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.

ANLI 5050B Brown
ANLI 5050C Charcoal
ANLI 5050W White
ANLI 5050CL Clear

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)
- Rigid PVC base with flexible elastomeric fins
- Good abrasion resistance
- Flame resistant
- Moisture resistant
- Temperature range -60 °F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and smoke infiltration
- Adhesive specifications shown on page G9
- BMHA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and smoke infiltration
- Antimicrobial: treated with an antimicrobial 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 smoke infiltration
- Adhesive specifications shown on page G9
- Rigid PVC 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
Available in 36”, 48”, 72”, 84”, 96” and 108” 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

* Anti-microbial not available in clear
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 (PVC) 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

.07 aluminum for military specs
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, Cold, Air Infiltration and Smoke Infiltration

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

Closed Cell Sponge
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, Cold, Air Infiltration and Smoke Infiltration

#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

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
neoprene is black
polyurethane is black
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, Cold, Air Infiltration and Smoke Infiltration

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

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

162S
162SA
162SB
162SDKB

.07 aluminum for military specs

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”, 120”

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

184QA
184QB
184QDKB

184QA
184QB
184QDKB
**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.
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
700EN DKB

700EU
700EU DKB

704EV
704EV DKB

706E - gray brush
706EDKB - black brush

9700E
9700EDKB

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.
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
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**

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>Color</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot;</td>
<td>nylon + silicone+</td>
<td>gray</td>
<td>tan</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>9000A</td>
<td>9000B</td>
<td>9000DKB</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>9001A</td>
<td>9001B</td>
<td>9001DKB</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>9002</td>
<td>9002A</td>
<td>9002DKB</td>
</tr>
</tbody>
</table>

**Perimeter Seals or Sweeps**

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>Color</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>nylon +</td>
<td>gray</td>
<td>tan</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>9600</td>
<td>9600A</td>
<td>9600B</td>
</tr>
<tr>
<td>1&quot;</td>
<td>9605A</td>
<td>9605B</td>
<td>9605DKB</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>9675</td>
<td>9675A</td>
<td>9675B</td>
</tr>
<tr>
<td>1&quot;</td>
<td>9675</td>
<td>9675A</td>
<td>9675B</td>
</tr>
</tbody>
</table>

**Astragal Seals**

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>Color</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot;</td>
<td>nylon + silicone+</td>
<td>gray</td>
<td>tan</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>9115A</td>
<td>9115B</td>
<td>9115DKB</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>9125A</td>
<td>9125B</td>
<td>9125DKB</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>9600</td>
<td>9600A</td>
<td>9600B</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>9605A</td>
<td>9605B</td>
<td>9605DKB</td>
</tr>
<tr>
<td>1&quot;</td>
<td>9675</td>
<td>9675B</td>
<td>9675DKB</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>9675</td>
<td>9675B</td>
<td>9675DKB</td>
</tr>
</tbody>
</table>

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

**Metal**

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

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>120NSS</td>
<td>neoprene</td>
<td>1&quot; 1/8&quot; 3/16&quot;</td>
<td>Perimeter seal</td>
</tr>
<tr>
<td>120SSS</td>
<td>silicone</td>
<td>1-3/4&quot; 3/8&quot; 1/2&quot;</td>
<td>Perimeter seal</td>
</tr>
</tbody>
</table>

Astragal Seals

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>122NSS</td>
<td>neoprene</td>
<td>1-3/4&quot; 1/2&quot; 3/8&quot;</td>
<td>Astragal seal</td>
</tr>
</tbody>
</table>

Perimeter Seals

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>127NSS</td>
<td>neoprene</td>
<td>1&quot; 1/8&quot; 3/16&quot;</td>
<td>Perimeter seal</td>
</tr>
<tr>
<td>127SSS</td>
<td>silicone</td>
<td>1-3/4&quot; 3/8&quot; 1/2&quot;</td>
<td>Perimeter seal</td>
</tr>
</tbody>
</table>

Astragal Seals

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>129NSS</td>
<td>neoprene</td>
<td>1&quot; 5/16&quot; 5/16&quot;</td>
<td>Astragal seal</td>
</tr>
<tr>
<td>129USS</td>
<td>polyurethane</td>
<td>1-3/16&quot; 1/4&quot;</td>
<td>Astragal seal</td>
</tr>
</tbody>
</table>

Perimeter Seals

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>130NSS</td>
<td>neoprene</td>
<td>1-3/16&quot; 1/4&quot;</td>
<td>Perimeter seal</td>
</tr>
<tr>
<td>130SSS</td>
<td>silicone</td>
<td>3/16&quot;</td>
<td>Perimeter seal</td>
</tr>
</tbody>
</table>

Astragal Seals

<table>
<thead>
<tr>
<th>Seal Type</th>
<th>Material</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>139SS</td>
<td>#10 x 3/4&quot;</td>
<td>3/32&quot;</td>
<td>Astragal seal</td>
</tr>
<tr>
<td></td>
<td>SMS furnished</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#6 X 3/4 and #6 x 1" stainless steel SMS furnished
Screw holes slotted for adjustment

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

All perimeter seals this section

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

Automatic Door Bottom

Door Sweep

1. Lead insert available for radiation shield - specify "lead-lined".
2. Door Bottom is handed. Right hand supplied unless specified. Field reversible.
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

Astragal Seals

130NBR 130SBR neoprene silicone

139BR BRMA BHMA

#10 x 3/4” brass plated
SMS furnished
Available lead lined .030”
thick lead - suffix “LD”
**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**

- **221NBR** neoprene (1, 2, 3)
- **221SBR** silicone (1, 2, 3)
- **221WHBR** nylon brush (2)
- **229NBR** neoprene (1, 2, 3)
- **229SBR** silicone (1, 2, 3)
- **229WHBR** nylon brush (2)

1. Lead insert available for radiation shield - specify "lead-lined"
2. Door Bottom is handed. Right hand supplied unless specified. Field reversible.
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

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

- neoprene
  - 141NA
  - 141NDKB
- silicone
  - 141SA
  - 141SDKB

- pile
  - 141PA
  - 141PDKB

A - anodized aluminum  
B - gold  
DKB - dark bronze  
neoprene & silicone are black  
pile is gray

Adjusting Range:
- 1-1/4”
- 13/16”
- 9/16”

- 180° - 270°
- 130° - 140°
- 110° - 120°
- 90° - 100°
- 70° - 80°
- 50° - 60°

- 270° - 360°
- 140° - 150°
- 120° - 130°
- 100° - 110°
- 80° - 90°
- 60° - 70°

- 360° - 450°
- 150° - 160°
- 130° - 140°
- 110° - 120°
- 90° - 100°
- 70° - 80°

- 450° - 540°
- 160° - 170°
- 140° - 150°
- 120° - 130°
- 100° - 110°
- 80° - 90°

- 540° - 630°
- 170° - 180°
- 150° - 160°
- 130° - 140°
- 110° - 120°
- 90° - 100°

- 630° - 720°
- 180° - 190°
- 160° - 170°
- 140° - 150°
- 120° - 130°
- 100° - 110°

- 720° - 810°
- 190° - 200°
- 170° - 180°
- 150° - 160°
- 130° - 140°
- 110° - 120°
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

Slimline

*Endurance Tested to 5 Million Cycles*

- Silicone is gray
- Neoprene is black
- Brush is gray with mill finish and stainless steel; black with gold, DKB and brass

Brass and Stainless Steel

1. Lead insert available for radiation shield - specify "lead-lined".
2. Door Bottom is handed. Right hand supplied unless specified. Field reversible.
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

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
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").

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

<table>
<thead>
<tr>
<th>Mortise required</th>
<th>15/16&quot; x 1-5/8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8&quot; Max Drop</td>
<td>7/8&quot; Max Drop</td>
</tr>
</tbody>
</table>

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

683 nylon brush

Available 11" to 48" in length

Automatic Door Bottoms - Heavy Duty Mortise

- Neoprene is black
- Nylon brush is gray
- #4 x 5/8" SMS furnished

10C

*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

Mortise

- silicone
  - 4447S
- nylon brush
  - 4447WH

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

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

Mortise

- silicone
  - 4448S
- nylon brush
  - 4448WH

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”.

HANDED - NOT FIELD REVERSIBLE
Thermal Break Door Shoes

Thermal break door shoes feature a rigid PVC 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

1-3/4”  
1-1/4”  
15/16”  
1/2”

816 Series

816VA  
816VDKB

1-3/4”  
15/16”  
1/2”

MATERIALS & FINISHES
A - anodized aluminum
DKB - dark bronze

Gasketing options:
Acoustical Door Shoe

Aluminum alloy 6063, T5 temper  
Thermoplastic polymer: Polyvinyl Chloride (PVC) 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

<table>
<thead>
<tr>
<th>MATERIALS &amp; FINISHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>no suffix - mill aluminum</td>
</tr>
<tr>
<td>DKB - dark bronze</td>
</tr>
</tbody>
</table>

Vinyl is gray
Extended Door Shoes

All products this page

Gasketing options:

92 Series

92NWH HA
92NWH DKB

Gasketing options:

99 Series

99NWH HA
99NWH DKB

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

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

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

92WHA
92WHD KB

nylon brush

92WA
92VD KB

vinyl

92TA
92T DKB

thermoplastic

92TWA
92TWHD KB

nylon brush & thermoplastic

99WHA
99WH DKB

nylon brush

99WA
99VD KB

vinyl

99TA
99TD KB

thermoplastic

99TWA
99TWHD KB

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.

Nylon Brush Door Shoe

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

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

All neoprene door shoes this section

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

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
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

Extended Door Shoes
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
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

Silicone Sweep

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

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

Vinyl is gray
Exceptions:
•vinyl is black
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.
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
Page
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**Door Bottom Seals**

14RA  
14RB  
14RDKB  

Available for 2-1/4" doors - specify

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

1-1/4" reinforced neoprene

**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

**Dimensions:**
- Mortise 3/4" wide x desired depth.  
  #6 x 3/4 SMS

**Neoprene 116N 116NDKB**

**Neoprene 136N NGP-TPV 136NDKB**

**Neoprene 136S silicone 136SDKB**

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

#8 x 1-1/4" Stainless Steel SMS
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>
</tr>
</tbody>
</table>

Smoke-Rated Astragal Seals

- **epdm**
  - 115NA
  - 115NB
  - 115NDKB
  
  Order as set to receive two pieces

- **silicone**
  - 9115A
  - 9115B
  - 9115DKB
  
  Order as set to receive two pieces

- **nylon+**
  - 9600
  - 9600A
  - 9600B
  - 9600DKB
  
  Order as set to receive two pieces

- **neoprene (black)**
  - 137NA
  - 137NB
  - 137NDKB
  
  Order as set to receive two pieces

- **silicone (gray)**
  - 137SA
  - 137SB
  - 137SDKB
  
  Order as set to receive two pieces

- **5070B** Brown
  - 5070CL Clear self-adhesive TPE

* antimicrobial not available in clear
Surface Mounted Astragal Sets

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

nylon brush
600
600A
600B
600DKB

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
B606A
B606B
B606DKB

Order as set to receive two pieces

nylon brush
675A
675B
675DKB

Order as set to receive two pieces

nylon brush
97V
97VA
97VB
97VDKB*

Order as set to receive two pieces

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

Surface Mounted Astragal Sets

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

nylon brush
600
600A
600B
600DKB

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
B606A
B606B
B606DKB

Order as set to receive two pieces

nylon brush
675A
675B
675DKB

Order as set to receive two pieces

nylon brush
97V
97VA
97VB
97VDKB*

Order as set to receive two pieces

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

Surface Mounted Astragal Sets

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

nylon brush
600
600A
600B
600DKB

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
B606A
B606B
B606DKB

Order as set to receive two pieces

nylon brush
675A
675B
675DKB

Order as set to receive two pieces

nylon brush
97V
97VA
97VB
97VDKB*

Order as set to receive two pieces

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

Surface Mounted Astragal Sets

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

nylon brush
600
600A
600B
600DKB

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
B606A
B606B
B606DKB

Order as set to receive two pieces

nylon brush
675A
675B
675DKB

Order as set to receive two pieces

nylon brush
97V
97VA
97VB
97VDKB*

Order as set to receive two pieces

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
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
109NB
109NDKB

1-1/2" reinforced neoprene

1-3/4" Max.

14RA
14RB
14RDKB

Available for 2-1/4" doors - specify

Max. 1-1/2"

3/8" 1-5/8"

1-3/8"

1/4" 1/2"

1-5/8"

158VA vinyl
158VDKB

158NA NGP-TPV
158NDKB

158SA silicone
158SDKB

158PA polypropylene pile
158PDKB

Maximum Height 120°

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

Maximum height 120°

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

Fits beveled edge doors.

Fits square edge doors.

#10 X 3/4" SMS furnished.

10C

Specialty Astragal

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

114NA neoprene
114NB
114NDKB

114SA silicone
114SB
114SDKB

Maximum height 120°

Fits beveled edge doors.

Fits square edge doors.

176A
176DKB

Maximum height 120°

Fits square edge doors. #10 X 3/4" SMS furnished.

178A
178SDKB

Maximum height 120°

Fits beveled edge doors.

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

158PA polypropylene pile
158PDKB

Maximum height 120°

#10 X 3/4" SMS furnished.
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
139BR  Brass

#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. Galvanized Steel Prime Coat

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

nylon brush
A635

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

116N neoprene
116NDKB

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

136N NGP-TPV
136NDKB

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

136P polypropylene pile
136PDKB

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

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
DBK - 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.

**Self-Adhesive Pile Astragals**

- 3/16" polypropylene pile
  - 340P
- 3/8" polypropylene pile
  - 336P

**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

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

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".

#18 Nail

DOOR HINGE JAMB

1-1/8" 9/16" 1-1/8"
GASKETING FASTENERS

#2 x 1/2” FH Phillips SMS
#4 x 5/8” TH Phillips SMS
Use 5/64” Drill
#6 x 1/2” FH Phillips SMS
Use 7/64” Drill
Phillips Head Top View
Spanner Head Top View
Torx Security Top View

#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
FATT Tape 1/32” Thick

#6 x 1/2” TEK Screw
#6 x 3/4” TEK Screw
#6 x 1” TEK Screw

#8 x 3/4” PH Phillips SMS
Use 9/64” Drill
#8 x 3/4” Phillips SMS
Use 9/64” Drill
#8 x 1” FH Phillips U/C SMS
Use 9/64” Drill

#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

#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

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