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

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**Note:** The table above lists parts and their associated gasketing numbers. Each part number is linked to the corresponding gasketing number in the Gasketing Numerical Index provided by National Guard Products, Inc. (NGP). This index is used to identify specific gaskets for various applications, ensuring compatibility and proper function in corresponding equipment or systems. The index is crucial for maintenance, repair, and replacement tasks, providing a systematic approach to sourcing the right gasket for each component.
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

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| Architectural Bronze:   | Satin Finish | ANSI/BHMA 728 | US4  | BR   | |
| Dark Bronze Oil Rubbed  |             | ANSI/BHMA 722 | US10 | BR-DKB| |
| Polished                |             | ANSI/BHMA 721 | US3  | BR-POL| |

| Stainless Steel:        | Brushed (#4) | ANSI/BHMA 630 | US32D| None | |

Gasket Materials: Neoprene is Black  N
NGP-TPV is Black N
Polyurethane is Black U
Vinyl is Gray, except where noted as Black V
Silicone colors: Black, Brown, Clear, Gray, Tan, White S
Thermoplastic is Brown T, T6
Nylon Brush colors: Black, Gray
TPE colors: Brown, Charcoal, Clear, White
Polypropylene Pile is Gray
EPDM is Gray

Powder Coat Finish

Powder Coat finish is available on most metal gasketing retainers upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.
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>
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<th>STC Rating Operable Door w/ Gasketing</th>
<th>Perimeter Seals</th>
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<td>950S</td>
</tr>
<tr>
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<td>39</td>
<td>1038N, 3038N</td>
<td>423N</td>
<td>896S</td>
</tr>
<tr>
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<td>*(2) 5050</td>
<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>
</tr>
<tr>
<td>43</td>
<td>40</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
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<td>40</td>
<td>131N</td>
<td>335N</td>
<td>896S</td>
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<td>47</td>
<td>41</td>
<td>103NFS</td>
<td>422N</td>
<td>897NS</td>
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<td>*(2) 5050</td>
<td>335N</td>
<td>896S</td>
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<td>47</td>
<td>43</td>
<td>*(2) 5050</td>
<td>423N</td>
<td>896S</td>
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<tr>
<td>50</td>
<td>43</td>
<td>103N, 134N</td>
<td>420N</td>
<td>897NS</td>
</tr>
<tr>
<td>50</td>
<td>43</td>
<td>107S</td>
<td>220S</td>
<td>950S</td>
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<td>159M</td>
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<td>897NS</td>
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<td>423N</td>
<td>896S</td>
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<td>44</td>
<td>103NFS</td>
<td>422N</td>
<td>843S</td>
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<td>52</td>
<td>44</td>
<td>107N, 131N, 1038N, 3038N</td>
<td>420N</td>
<td>897NS</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, 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</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>60FP (2 req.)</td>
<td>896S-ADJ</td>
</tr>
</tbody>
</table>

*STC #3 Illustration

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

**BOTTOM OF DOOR**
THRESHOLD AND FLOOR

*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>
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<tr>
<td>8</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
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<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

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

Standard Doors without Special Acoustic Cores

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

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

**PERIMETER AND DOOR BOTTOMS**

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

**MEETING EDGE of PAIRS**

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

School Classroom Door STC Requirements

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

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

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>&quot;R&quot; 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>
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<tr>
<td>cell</td>
<td>D. Vinyl</td>
<td>D. Vinyl</td>
<td>Bottom</td>
<td>4. Door Face, Semi-Mortise</td>
<td></td>
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<tr>
<td>E. Silicone Rubber</td>
<td>E. Silicone Rubber</td>
<td>E. Silicone Rubber</td>
<td>4. Door Sweep or</td>
<td>5. Frame Rabbet</td>
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<tr>
<td>F. Pile</td>
<td>F. Pile</td>
<td>F. Pile</td>
<td>Shoe</td>
<td>(surface or mortise)</td>
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<td>G. Thermoplastic Elastomer (TPE)</td>
<td>G. Thermoplastic Elastomer (TPE)</td>
<td>G. Thermoplastic Elastomer (TPE)</td>
<td>5. Door Sweep or</td>
<td>6. Frame Soffit (H.M.)</td>
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<td>H. Thermoplastic Urethane (TPU)</td>
<td>H. Thermoplastic Urethane (TPU)</td>
<td>H. Thermoplastic Urethane (TPU)</td>
<td>Shoe with Drip Cap</td>
<td>Frame Stop (WD)</td>
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<td>J. Thermoplastic Rubber</td>
<td>J. Thermoplastic Rubber</td>
<td>J. Thermoplastic Rubber</td>
<td>6. Astragal</td>
<td>7. Frame Face</td>
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<tr>
<td>K. Spring Metal</td>
<td>K. Spring Metal</td>
<td>K. Spring Metal</td>
<td>Overlapping</td>
<td>8. Kerf</td>
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<tr>
<td>M. Felt</td>
<td>M. Felt</td>
<td>M. Felt</td>
<td>8. Astragal Adjustable</td>
<td>Other</td>
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<td>Q. Intumescent/Brush</td>
<td>Q. Intumescent/Brush</td>
<td>Q. Intumescent/Brush</td>
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<td>2. Smoke/Acoustic Rated</td>
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<td>S. Intumescent</td>
<td>S. Intumescent</td>
<td>S. Intumescent</td>
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<td>4. Smoke Rated</td>
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<td>T. Intumescent</td>
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<td>5. Energy Performance Rated</td>
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<td>V. Intumescent/Pile</td>
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<td>V. Intumescent/Pile</td>
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<td>7. Acoustic Rated</td>
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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
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.
Self-Adhesive Silicone Gasketing

Silicone Bulb Smoke Seal

- 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
- 5060CL Clear

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

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

TPE Batwing Smoke Seal

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>Available Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>5020B</td>
<td>Brown</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5020C</td>
<td>Charcoal</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5020W</td>
<td>White</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5020CL</td>
<td>Clear</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
</tbody>
</table>

Superior sealing characteristics against smoke, air & sound

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

TPE Double Batwing Smoke Seal

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>Available Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>5025B</td>
<td>Brown</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5025C</td>
<td>Charcoal</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5025W</td>
<td>White</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5025CL</td>
<td>Clear</td>
<td>36&quot;, 48&quot;, 72&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
</tbody>
</table>

Superior sealing characteristics against smoke, air & sound

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

TPE Batwing Smoke Seal (Kerf Press-in)

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>Available Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>5021B</td>
<td>Brown</td>
<td>36&quot;, 48&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5021C</td>
<td>Charcoal</td>
<td>36&quot;, 48&quot;, 84&quot;, 96&quot; and 108&quot;</td>
</tr>
<tr>
<td>5021W</td>
<td>White</td>
<td>36&quot;, 48&quot;, 84&quot;, 96&quot; and 108&quot;</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 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

**TPE Double Shark Fin Smoke Seal**

Smoke rated for perimeter and/or meeting edge astragal applications

**5075B** Brown  
**5075CL** 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

Q-Ion Foam Seal

PF183 Brown polyethylene liner, foam core

* * * * * 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:**

<table>
<thead>
<tr>
<th>20, 45, 60, 90 minute rated category B wood doors up to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>single swing 4'0 x 9'0 pairs 8'0 x 9'0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>20 Minute rated with single strip installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>45, 60 Minute rated with two strips installed</td>
</tr>
</tbody>
</table>

**NGP-Edge, Intumescent Fire Seal**

<table>
<thead>
<tr>
<th>20, 45, 60, 90 minute rated category B wood doors up to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>single swing 4'0 x 9'0 pairs 8'0 x 9'0, perimeter/meeting edge</td>
</tr>
</tbody>
</table>

U.S. Pat. DES 417,739
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

All vinyl seals this section

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

#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

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

All products this page
A - anodized aluminum
B - gold
DKB - dark bronze
neoprene is black
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 polyurethane seals this section

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

All neoprene 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, Cold, Air Infiltration and Smoke Infiltration

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

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

Q-Lon® Foam Seals

Brown polyethylene liner with foam core

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

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

137SA
137SB
137SDKB
152S
152SA
152SB
152SDKB
155S
155SB
155SDKB
156S
156SDKB
161SA
161SDKB
162S
162SA
162SB
162SDKB
160S
160SA
160SB
160SDKB
184QA
184QB
184QDKB
284Q

Stock lengths: 36", 48", 96", 120"

.B07 aluminum for military specs
**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

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Material</th>
<th>Color</th>
<th>Screw Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>700EN</td>
<td>1 1/2&quot;</td>
<td>Neoprene</td>
<td>Gray</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>700EU</td>
<td>1 1/2&quot;</td>
<td>Polyurethane</td>
<td>Gold</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>700E</td>
<td>1 1/2&quot;</td>
<td>Silicone</td>
<td>Black</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>701E</td>
<td>1 1/2&quot;</td>
<td>Polypropylene</td>
<td>Black</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>704E</td>
<td>1 1/2&quot;</td>
<td>Vinyl</td>
<td>Gray</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>705E</td>
<td>1 1/2&quot;</td>
<td>Vinyl</td>
<td>Black</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>706E</td>
<td>1 1/2&quot;</td>
<td>Nylon</td>
<td>Gray</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>9700E</td>
<td>1 1/2&quot;</td>
<td>Silicone+</td>
<td>Black</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

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

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

- **700N**
  - neoprene
  - 1 1/2" x 1/4"
  - 5/16"

- **700S**
  - silicone
  - 1 1/2" x 1/4"
  - 5/16"

- **700U**
  - polyurethane
  - 1 1/2" x 1/4"
  - 5/16"

- **700P**
  - polypropylene pile
  - 1 1/2" x 1/4"
  - 7/16"

- **700V**
  - vinyl
  - 1 1/2" x 1/4"
  - 5/16"

- **700A**
  - nylon brush
  - gray brush
  - 1 1/2" x 1/4"
  - 7/16"

- **700B**
  - nylon brush
  - black brush
  

- **9700**
  - silicone+
  - 1 1/2" x 1/4"
  - 5/16"
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

All products this page

<table>
<thead>
<tr>
<th>Metal</th>
<th>nylon+</th>
<th>silicone +</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>

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

Perimeter Seals or Sweeps

Astragal Seals

9002
9002A
9002B
9002DKB

9600
9600A
9600B
9600DKB

9675
9675A
9675B
9675DKB

9115A
9115B
9115DKB

9125A
9125B
9125DKB

9600
9600A
9600B
9600DKB

9605A
9605B
9605DKB

9675A
9675B
9675DKB

9675
9675A
9675B
9675DKB

9675A
9675B
9675DKB
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

127NSS neoprene
127SSS silicone

129NSS neoprene
129USS polyurethane

130NSS neoprene
130SSS silicone

125NSS epdm
9125SSS silicone+

Astragal Seals

109NSS

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

All perimeter seals this section

(Except: 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**

- 5/8"  
- 1 1/2"  
- 2 1/2"

**Automatic Door Bottom**

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

**Door Sweep**

- 1-1/4"  
- 7/16"  
- 7/16"  
- 1 1/4"  
- 2 1/2"

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

---

NATIONAL GUARD PRODUCTS, INC.  
Phone 800-647-7874  
Fax 800-255-7874  
orders@ngp.com  
quotes@ngp.com  
www.ngp.com
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

Astragal Seals

139BR 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 satn 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)
- **221NBR**
- **221SBR**
- **221WHBR**

Silicone (1, 2)
- **229NBR**
- **229SBR**
- **229WHBR**

Nylon Brush (2)
- **221WHBR**
- **229WHBR**

- **7/8” Max Drop**
- **2 1/4”**
- **9/16”**
- Drop Bar with Nylon Brush - suffix “WH”

All automatic door bottoms this section

- **Brass Housing** .035”
- 5/8”

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

---

National Guard Products, Inc.
Phone 800-647-7874 orders@ngp.com www.ngp.com
Fax 800-255-7874 quotes@ngp.com
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'

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, 105N, 303N, 304N, 305N, 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

Adjusting Range:

1-1/4” for cased opening frame

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

Slimline

Endurance Tested to 5 Million Cycles

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

E-Z Touch

**Surface**

- Neoprene (1, 2)
  - 420NA
  - 420NB
  - 420NDKB

- 7/8” Max Drop

Tested to 1,000,000 cycles

- 2 5/16”

- 15/16”

Sliding or Pocket Doors Surface or Half Mortise - Heavy Duty

- Neoprene (1)
  - 421NA
  - 421NB
  - 421NDKB

- Silicone
  - 223NA
  - 223NB
  - 223NDKB

- 3/4” 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

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).
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”).

<table>
<thead>
<tr>
<th>Mortise required</th>
<th>5/8” x 1-9/16”</th>
<th>9/16”</th>
<th>1-1/2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjusting Screw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>335N neoprene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>335S silicone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available 23-1/4” net to 48” in length</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fits wood fire door mortise restrictions</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mortise required</th>
<th>3/4” x 1-15/16”</th>
<th>11/16”</th>
<th>1-3/4”</th>
</tr>
</thead>
<tbody>
<tr>
<td>225N neoprene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225S silicone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225WH nylon brush</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available 11” to 60” in length</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available with lead insert for radiation shield - specify “lead-lined”</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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    |                |       |        |

#4 x 5/8” SMS furnished. End caps not available.

Available 24” to 48” in length

All products on this page: neoprene & NGP-TPV are black, silicone, nylon brush & vinyl are gray.
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

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

1. **423N** neoprene
   - Mortise required
     - 15/16” x 1-5/8”
   - 3/4” Max Drop
   - Available 11” to 48” in length
   - Available with lead insert for radiation shield - Specify “lead-lined”
   - Tested to 1,000,000 cycles

2. **683** nylon brush
   - Mortise required
     - 15/16” x 1-5/8”
   - 7/8” Max Drop
   - Available 11” to 48” in length

- All products this section

3. **422N** neoprene
   - Mortise required
     - 1” x 2-1/8”
   - 7/8” Max Drop
   - Available 11” to 60” in length
   - Available with lead insert for radiation shield - specify “lead lined”

4. **522N** neoprene
   - Mortise required
     - 1” x 2-1/8”
   - 7/8” Max Drop
   - Available 11” to 60” in length

5. **682** nylon brush
   - Mortise required
     - 1” x 2-1/8”
   - 7/8” Max Drop
   - Available 11” to 60” in length

- All products this section

*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

Mortise

1/2" maximum drop

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

Drop Bar with
Nylon Brush - suffix “WH”

Surface

Mortise

1/2" maximum drop

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

HANDED - NOT FIELD REVERSIBLE

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

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
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

816 Series

816VA
816VDKB

Gasketing options:

819NA
819NDKB

816NA
816NDKB

819TA
819TDBK

816TA
816TDBK

MATERIALS & FINISHES
A - anodized aluminum
DKB - dark bronze
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
- Color is black

MATERIALS & FINISHES

no suffix - mill aluminum
DKB - dark bronze

vinyl is gray

60FP STC 45
Extended Door Shoes

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

92 Series

92NWHA
92NWHDKB
neoprene & nylon brush

Gasketing options:

92WHA
92WHDKB
nylon brush

92NA
92NDKB
neoprene

92VA
92VDKB
vinyl

92TA
92TDKB
thermoplastic

92TWHA
92TWHDKB
nylon brush & thermoplastic

99 Series

99NWHA
99NWHDKB
neoprene & nylon brush

Gasketing options:

99WHA
99WHDKB
nylon brush

99NA
99NDKB
neoprene

99VA
99VDKB
vinyl

99TA
99TDKB
thermoplastic

99TWHA
99TWHDKB
nylon brush & thermoplastic

All products this page

- anodized aluminum
- A
- gold
- B
- dark bronze
- DKB
- mill aluminum
- no suffix
- vinyl is gray
- neoprene is black
- thermoplastic is dark brown
- nylon brush is gray with anodized aluminum; black with DKB metal
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
- 95WHDBK - 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.

**Threshold**

896

896DKB

**All neoprene door shoes this section**

A - anodized aluminum
B - gold
DKB - dark bronze
No suffix - mill aluminum
Neoprene is black
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

35EV 35EVDKB
35VA 35VB 35VDKB
36EV 36EVDKB
36VA 36VDKB
312V 312VDKB
313VA 313VDKB
318V 318VDKB
319EV 319EVDKB
319V 319VB 319VDKB
Thermoplastic Door Shoes
Thermoplastic polymer seal with rigid base and soft vinyl fins.
48” maximum length

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

#6 x 3/4” stainless steel
SMS furnished

Extended Door Shoes
End caps available - sold separately
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 Sweeps

Polyurethane Sweeps

Silicone Sweep

All products this page

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

#6 x 1” stainless steel SMS

polyurethane is black

silicone is gray

#6 x 1” stainless steel SMS
Vinyl Sweeps

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

96V 96VA 96VB 96VDKB

97V 97VA 97VB 97VDKB*

98V 98VA 98VB 98VDKB

100V 100VA 100VB 100VDKB

Concealed Fastener Nylon Brush Sweeps

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

672A 672B 672DKB

675A 675B 675DKB

673A 673B 673DKB

674A 674B 674DKB

678A 678B 678DKB

679A 679B 679DKB

Exceptions:
• vinyl is black

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

Vinyl is gray
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

Nylon Brush Plus

Our exclusive line of premium grade seals specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.
Nylon Brush Sweeps 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
Intentionally Blank
Door Bottom Seals

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

**Overhead Door Bottom Seal**

**116N**
**116NDKB**
Mortise 3/4” wide x desired depth.
#6 x 3/4 SMS

**136N NGP-TPV**
**136NDKB**
Mortise 7/16” wide x desired depth.
#2 SMS furnished.

**Material Finishes:**
- **A** - anodized aluminum
- **B** - gold
- **DKB** - dark bronze
- **no suffix** = mill aluminum

Neoprene, silicone & NGP-TPV are black

**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
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>

All products this page

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>

All products this page

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

nylon brush
A605A
A605B
A605DKB

nylon brush
672A
672B
672DKB

nylon brush
675A
675B
675DKB

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

<table>
<thead>
<tr>
<th>Neoprene</th>
<th>109NA</th>
<th>109NB</th>
<th>109NDKB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>5/8&quot;</td>
<td>3/16&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Silicone</th>
<th>114NA</th>
<th>114NB</th>
<th>114NDKB</th>
</tr>
</thead>
<tbody>
<tr>
<td>114SA</td>
<td>114SB</td>
<td>114SDKB</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vinyl</th>
<th>158VA</th>
<th>158VDKB</th>
</tr>
</thead>
<tbody>
<tr>
<td>158NA</td>
<td>158NDKB</td>
<td></td>
</tr>
<tr>
<td>158SA</td>
<td>158SDKB</td>
<td></td>
</tr>
<tr>
<td>158PA</td>
<td>158PDKB</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Silicone</th>
<th>176A</th>
<th>176DKB</th>
</tr>
</thead>
<tbody>
<tr>
<td>178SA</td>
<td>178SDKB</td>
<td></td>
</tr>
</tbody>
</table>

Specialty Astragal

<table>
<thead>
<tr>
<th>Reinforced Neoprene</th>
<th>14RA</th>
<th>14RB</th>
<th>14RDKB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/4&quot;</td>
<td>Max. 1 1/2&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Available for 2-1/4" doors - specify.

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

Maximum height 120"

Fits beveled edge doors. #8 X 1" FH U/C SMS furnished.

Fits square edge doors. #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
139SPDBK  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
1390SP-95-1/8"  Fits over curved lip strikes.
No notching, no field cutting.
**Mortised Astragals**

- **116N** neoprene
  - Mortise dimensions 3/4" wide x desired depth.
  - #6 x 3/4" SMS furnished.

- **136N** NGP-TPV
  - Mortise dimensions 7/16" wide x desired depth.
  - #2 SMS furnished.

- **116NDKB**
  - Mortised Astragals

- **136NDKB**
  - Mortised Astragals

- **136P** polypropylene pile
  - Mortise dimensions 7/16" wide x desired depth.
  - #2 SMS furnished.

- **143PA**
  - Polypropylene pile
  - Mortise dimensions 5/8" wide x desired depth.
  - #6 SMS furnished.

- **143P** polypropylene pile
  - Mortise dimensions 5/8" wide x desired depth.
  - #6 SMS furnished.

- **143NA**
  - Mortised Astragals

- **143SA**
  - Mortised Astragals

- **143NDKB**
  - Mortised Astragals

- **143SDKB**
  - Mortised Astragals

- **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.

**Self-Adhesive Pile Astragals**

- **polypropylene pile**
  - 144PA
  - 144PDKB

- **Mortise dimensions 9/16" wide x 7/8"**
- #6 x 3/4" Stainless Steel Sheet Metal Screws furnished.
- Order as set to receive both pieces

**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.
- Reinforced neoprene

**Ordering Information**

- **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".
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

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

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

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

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

#8 x 3/4"
Phillips
TEK Screw

#8 x 1"
Phillips
TEK Screw

#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

#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
NGP-Edge, Sealing System for Excessive Fire Door and Frame Clearances

UL Certified Solutions for Fire doors with Excessive clearance between door and frame over 1/8", up to 5/16"

NGP-Edge® Intumescent Fire Seal

UL Certified Miscellaneous Fire Door Accessory for excessive door and frame clearances, measuring up to 5/16".

20 minute rated UL10B and UL10C wood or hollow metal fire doors.

An NGP strike shim 9275 or 9225 is also required for proper latchbolt engagement.

Intumescent with PVC cover

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

Self-Adhesive

See adhesive specifications on page G9

Strike Shims

9275 - Fits 4 7/8" ‘ASA’ Strike Plate
9225 - Fits 2 3/4" ‘T’ Strike Plate

UL Certified Miscellaneous Fire Door Accessory for excessive door and frame clearances, measuring up to 5/16".

20 minute rated UL10B and UL10C wood or hollow metal fire doors.

NGP 9200 self adhesive intumescent seal is also required where excessive clearance occurs at jambs and head.
NGP-Edge, Sealing System for Excessive Fire Door Bottom Undercuts/Clearance

UL Certified Solutions for Fire doors with Excessive Door Bottom Clearances up to 1-1/2"

NGP-Edge, Intumescent Door Shoes

9250 Series

UL Certified Miscellaneous Fire Door Accessory for excessive door bottom undercuts/clearances, measuring up to 1-1/2"

20 minute rated UL10B and UL10C wood or hollow metal fire doors

Restricts the passage of smoke

End caps available - sold separately

Gasketing options:

9250WHA
9250WHDKB

9250NA
9250NDKB

9250TA
9250TDKB

9250TWHA
9250TWHDKB

#6 x 3/4" Stainless Steel SMS furnished.

A - anodized aluminum
DKB - dark bronze

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

Tecnofire® 2000