Thresholds

Redheads - Redheads are a diving duck easily recognizable by their bright red head and grey back. Redheads take new mates every year, with hens regularly laying eggs in the nests of other ducks. Not to be mistaken for similar looking canvasbacks, redheads are a magnificent species.
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**National Guard Products, Inc.**

[NGP Logo]
Rating Symbols Legend

ADA COMPLIANT Barrier Free Thresholds meet the requirements of ADA Standards for Accessible Design and ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

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.

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.

Air Infiltration Tested to ASTM E283, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.

SLIP-RESISTANT ‘SIA’ textured surface is available on all thresholds. Our process embeds and fuses bits of hot nickel and titanium into the surface of the threshold. This technology originally developed for use on aircraft carrier decks is very skid resistant and will not wear off.

ANSI/BHMA CERTIFIED. Certified thresholds comply with American National Standard for Thresholds ANSI/BHMA A156.21 and are listed in the BHMA Certified Products Directory.

Online product listings at www.ul.com/database

ANSI/BHMA A156.21 American National Standard for Thresholds

<table>
<thead>
<tr>
<th>1 Product Section</th>
<th>2 Material</th>
<th>3 Configuration</th>
<th>4 Surface</th>
<th>5 Description</th>
<th>6 Description</th>
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<tbody>
<tr>
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<td>5. Rabbeted, latching/Panic</td>
<td>5. Rabbeted, latching/Panic w/gasket</td>
<td>5. Ends Mitered</td>
<td>5. Ends Mitered</td>
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<td>8. A156.21</td>
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Suffix- HD = Heavy Duty

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Materials

Thresholds are Aluminum Alloy 6063, T5 temper, unless noted. Cover Plates 818, 814 and 828 are Aluminum Alloy 3003, H14 hardness. Cover Plate 838 is Aluminum Alloy 5052, H32 hardness.

Architectural Bronze Thresholds are Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze. Brass Cover Plate 818BR is Alloy CDA 260 (Copper Alloy No. C26000) cold formed Cartridge Brass.

Stainless Steel Thresholds and Cover Plates are Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

Threshold Finishes

<table>
<thead>
<tr>
<th>Material</th>
<th>Finish</th>
<th>ANSI/BHMA Code</th>
<th>US Code</th>
<th>NGP Suffix</th>
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<td>Aluminum</td>
<td>Mill Finish</td>
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<td>Dark Bronze</td>
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<td>DKB</td>
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<td>Polished</td>
<td>ANSI/BHMA 717</td>
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<td>POL</td>
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<td></td>
<td>Powder Coated Colors</td>
<td>See Page L2 for details</td>
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<td>SIA</td>
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<tr>
<td></td>
<td>Slip Resistant</td>
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<tr>
<td>Architectural Bronze</td>
<td>Satin Finish</td>
<td>ANSI/BHMA 728</td>
<td>US4</td>
<td>BR</td>
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<td>Dark Bronze Oil Rubbed</td>
<td>ANSI/BHMA 722</td>
<td>US10B</td>
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<td>Polished</td>
<td>ANSI/BHMA 721</td>
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<td>BR-SIA</td>
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<td>Slip Resistant</td>
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<td>SS-SIA</td>
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</table>

Slip Resistant Finish

SIA (Slick It Ain’t) finish is our slip resistant textured surface, available on all thresholds up to 24" wide and on 818 aluminum and brass cover plates up to 10" wide.

Our SIA technology embeds bits of hot nickel and titanium into the surface of the threshold using a high pressure thermo-electrostatic process. It was originally developed for use on aircraft carrier decks. SIA finish is very durable and will not wear off.

This results in a slip resistant surface that is similar to high grit sandpaper.

Aluminum and Stainless Steel SIA finish thresholds are a pewter color. Architectural Bronze SIA finish thresholds are a brass color.

Powder Coat Finish

Powder Coat finish is available on most thresholds upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.
General Information

Thresholds are furnished longer than ordered to allow for field sizing and fitting. 1/2” is added to thresholds under 61”; 1” is added to thresholds over 61”.

Unless noted, thresholds are punched for and provided with fasteners. Special Drilling and Notching is available; details must be provided with the order.

Radiation shielding with .030” thick Lead is available on most thresholds. Specify “Lead Lined”.

Catalog Illustrations are full scale, except as noted.

Returned Closed Ends

Return Closed Ends (RCE’s) are available on most beveled thresholds. The corner is miter cut on a 45 degree angle and returned to the face of the door frame for a neat, clean, finished appearance. Specify: “RCE”

Custom Fabricated Thresholds

Our Custom Fab dept. specializes in producing custom made-to order thresholds to your specifications. Submit your details to our technical dept. for a quotation and drawing for your approval. Components shown on pages T-30, T-31 and T-47 are used to build special assemblies like the one illustrated below. Aluminum, Brass and Stainless Steel Cover Plates are also custom formed and welded to meet special requirements.

Sports Floor Threshold Assemblies

Wood gymnasium sports floors are designed to be free floating. We offer threshold assemblies to cover the transition from the primary floor to the sports floor. As the sports floor shifts, the threshold assembly will allow expansion and contraction by the top plate moving with the sports floor.

8133 x 8143 x 8168N (Neoprene) x 8139 x 10-24 MS/LA
Also available in 1/2” high and in other widths - contact NGP Technical Department
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.

Based on recent historical records and forecast, raw materials utilized in and contained in NGP products average the following percentages of recycled materials:

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<tr>
<th></th>
<th>Post Consumer Recycled %</th>
<th>Pre-Consumer Recycled %</th>
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<tbody>
<tr>
<td>Aluminum Thresholds</td>
<td>18%</td>
<td>49%</td>
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<tr>
<td>Architectural Bronze Thresholds</td>
<td>70%</td>
<td>25%</td>
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<tr>
<td>Stainless Steel Thresholds</td>
<td>25%</td>
<td>3%</td>
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<tr>
<td>Rubber Ramps</td>
<td>0%</td>
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<tr>
<td>Gasketing with Aluminum Retainers</td>
<td>13%</td>
<td>37%</td>
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<td>Gasketing with Bronze Retainers</td>
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<td>Gasketing with Stainless Steel Retainers</td>
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<td>Finger Guard 2248</td>
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<td>37%</td>
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<td>Finger Guard 2252</td>
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<td>Metal Edge/Astragal sets (Steel)</td>
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<td>3%</td>
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<tr>
<td>Lite Kits &amp; Louvers (Steel)</td>
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<td>5%</td>
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<tr>
<td>Aluminum Louvers</td>
<td>18%</td>
<td>49%</td>
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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.

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](http://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.
MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

VINYL FOOT SEAL OPTION:
used instead of caulking to increase the weather resistance of the threshold. Specify on order.
Saddle Thresholds

Typical Wall .125

- 211 0.43 lbs./ft. 3" 3/8"
- 211DKB 0.43 lbs./ft. 3" 3/8"

Typical Wall .125

- 424 0.61 lbs./ft. 4" 1/2"
- 424DKB 0.61 lbs./ft. 4" 1/2"

Typical Wall .162

- 425 0.88 lbs./ft. 5" 5/8"
- 425DKB 0.88 lbs./ft. 5" 5/8"

Typical Wall .175

- 426 1.00 lbs./ft. 6" 1/2"
- 426DKB 1.00 lbs./ft. 6" 1/2"

Typical Wall .188

- 427 1.16 lbs./ft. 7" 1/2"
- 427DKB 1.16 lbs./ft. 7" 1/2"

Typical Wall .250

- 8475 1.90 lbs./ft. 7 1/2" 5/8"
- 8475DKB 1.90 lbs./ft. 7 1/2" 5/8"

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Saddle Thresholds

Saddle Thresholds

Typical Wall .125

4"  0.53 lbs./ft.
413  0.53 lbs./ft.
413DKB

5"  0.68 lbs./ft.
513  0.68 lbs./ft.
513DKB

6"  0.88 lbs./ft.
613  0.88 lbs./ft.
613DKB

7"  1.01 lbs./ft.
713  1.01 lbs./ft.
713DKB

8"  1.20 lbs./ft.
813  1.20 lbs./ft.
813DKB

9"  1.41 lbs./ft.
913  1.41 lbs./ft.
913DKB

10"  1.63 lbs./ft.
1013  1.63 lbs./ft.
1013DKB

MATERIALS & FINISHES

• Aluminum mill finish
• DKB - Aluminum dark bronze finish
• Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Smooth Surface Thresholds

Recommended to provide the best results where automatic door bottoms are used.

All thresholds this page

MATERIALS & FINISHES
• Aluminum mill finish
• DKB - Aluminum dark bronze finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

• Optional: Slip Resistant SIA Finish
Heavy Duty Thresholds

• For use where forklift or vehicular traffic occurs.
• Recommended for delivery/storage doorways where heavier loads travel.
• BHMA certified to ANSI A156.21 Heavy Duty 10,000 lb. load test.
• Optional “SIA” slip-resistant finish recommended in moisture prone areas.

425HD 1.6 lbs./ft.
425HDDKB 1.6 lbs./ft.

513HD 1.4 lbs./ft.
513HDDKB 1.4 lbs./ft.

896HD 1.01 lbs./ft.
896HDDKB 1.01 lbs./ft.

325HD 1.65 lbs./ft
325HDDKB 1.65 lbs./ft

BUMPER SEAL
Seals against the door providing weather resistance
Vinyl (“V”) supplied unless other material specified
Options:
NGP-TPV (“N”)
Silicone (“S”)

MATERIALS & FINISHES
• Aluminum mill finish
• DKB - Aluminum dark bronze finish
• Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Heavy Duty Thresholds

- For use where forklift or vehicular traffic occurs.
- Recommended for delivery/storage doorways where heavier loads travel.
- Optional “SIA” slip-resistant finish recommended in moisture prone areas.

**MATERIALS & FINISHES**
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

**FASTENERS**
- #10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**FASTENERS**
- #10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**426HD**  1.98 lbs./ft.
426HDDKB  1.98 lbs./ft.

**613HD**  1.66 lbs./ft.
613HDDKB  1.66 lbs./ft.  BHMA certified to ANSI A156.21 Heavy Duty 10,000 lb. load test.

**325HD x 325HD Welded**  3.33 lbs./ft.
325HDDKB x 325HDDKB Welded  3.33 lbs./ft.  BHMA certified to ANSI A156.21 Heavy Duty 10,000 lb. load test.
### ADA Compliant Bumper Seal Thresholds

All thresholds this section

![Typical Wall .105](image)

896 0.64 lbs./ft.
896DKB 0.64 lbs./ft.

![Typical Wall .078](image)

950 0.50 lbs./ft.
950DKB 0.50 lbs./ft.

Excellent for use with Automatic Door Bottoms

**Stop Strips**

All stop strips this section

![10C](image)

![BHMA](image)

![1/2”](image)

![7/16”](image)

2 0.16 lbs./ft.
2DKB 0.16 lbs./ft.

#6 self-tapping machine screw provided

![1/4”](image)

![3/8”](image)

4 0.14 lbs./ft.
4DKB 0.14 lbs./ft.

#6 self-tapping machine screw provided

**MATERIALS & FINISHES**

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

**FASTENERS**

#10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**BUMPER SEAL**

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:
- NGP-TPV ("N")
- Silicone ("S")

![NGP](image)

![BHMA](image)

![1/2”](image)

700EV 0.20 lbs./ft.
700EVDKB 0.20 lbs./ft.

#10 self-tapping machine screw provided
**Bumper Seal Thresholds**

All products this page

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<thead>
<tr>
<th>Code</th>
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<th>Description</th>
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<td>Typical Wall .166</td>
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<td>Acoustical tested with neoprene seal added</td>
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**BUMPER SEAL**

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:
- NGP-TPV ("N")
- Silicone ("S")
- Pile ("P")

**MATERIALS & FINISHES**

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

**FASTENERS**

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**VINYL FOOT SEAL OPTION:**

used instead of caulking to increase the weather resistance of the threshold. Specify on order.
Bumper Seal Thresholds

All thresholds this page

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Options:
- NGP-TPV ("N")
- Silicone ("S")
- Pile ("P")

890 .82 lbs./ft.

890DKB .82 lbs./ft.

Typical Wall .125

804 .80 lbs./ft.

804DKB .80 lbs./ft.

Typical Wall .105

884 1.00 lbs./ft.

884DKB 1.00 lbs./ft.

Typical Wall .172

803 .80 lbs./ft.

803DKB .80 lbs./ft.

Typical Wall .100

BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified
Offset Thresholds

All thresholds this page

Typical Wall .125

<table>
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<tr>
<th>Material</th>
<th>Weight per ft.</th>
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<tr>
<td>653</td>
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</tr>
<tr>
<td>653DKB</td>
<td>.78 lbs.</td>
</tr>
<tr>
<td>659</td>
<td>.89 lbs.</td>
</tr>
<tr>
<td>659DKB</td>
<td>.89 lbs.</td>
</tr>
<tr>
<td>655</td>
<td>.84 lbs.</td>
</tr>
<tr>
<td>655DKB</td>
<td>.84 lbs.</td>
</tr>
<tr>
<td>656</td>
<td>1.00 lbs.</td>
</tr>
<tr>
<td>656DKB</td>
<td>1.00 lbs.</td>
</tr>
</tbody>
</table>

Carpet and Tile Dividers

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight per ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>414</td>
<td>.31 lbs.</td>
</tr>
<tr>
<td>414DKB</td>
<td>.31 lbs.</td>
</tr>
<tr>
<td>404</td>
<td>.70 lbs.</td>
</tr>
<tr>
<td>404DKB</td>
<td>.70 lbs.</td>
</tr>
</tbody>
</table>

Carpet Edges

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight per ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>416</td>
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</tr>
<tr>
<td>416DKB</td>
<td>.19 lbs.</td>
</tr>
<tr>
<td>417</td>
<td>.50 lbs.</td>
</tr>
<tr>
<td>417DKB</td>
<td>.50 lbs.</td>
</tr>
</tbody>
</table>

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Vinyl Carpet/Tile Divider Thresholds

For transition between two different carpets or carpet to tile. Easy to install using adhesive like NGP RR5007BL, Black RTV silicone rubber construction sealant. Each tube bonds 4' of 398 or 399, 8' of 400 or 401, 12' of 402, or 15' of 407.

401 Black Vinyl

| 3/4" | max length = 73" |
| 3/8" |

| 2 3/4" |

402 Black Vinyl

| 3/4" | max length = 73" |
| 3/8" |

| 2 3/4" |

407 Black Vinyl

| 3/4" | max length = 73" |
| 3/8" |

| 1 7/16" |

398 Black Vinyl

| 3/4" | max length = 73" |
| 3/8" |

| 3 1/2" |

399 Black Vinyl

| 3/4" | max length = 73" |
| 3/8" |

| 3 1/2" |

400 Black Vinyl

| 11/32" | max length = 73" |

| 5 1/2" |

* when installed as illustrated between carpet and/or tile

May be field trimmed for narrower widths.
Transition Strip

- Heavy Duty - for transition at edge of 1/8" vinyl tile.
- Protects edge of tile.
- Reduces tripping hazard.
- Available in 96" length only.
- #14 stainless steel SMS furnished.

All Products this page

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Half Saddle and Extended Width Components

Half Saddle and Extended Width Components

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Half Saddle Thresholds

Typical Wall .109

1/2" 3"

323 .56 lbs./ft.
323DKB .56 lbs./ft.

Typical Wall .250

1/2" 4"

324 1.20 lbs./ft.
324DKB 1.20 lbs./ft.

Typical Wall .250

1/2" 5"

325 1.32 lbs./ft.
325DKB 1.32 lbs./ft.

Typical Wall .250

1/2" 5"

325HD 1.65 lbs./ft
325HDDKB 1.65 lbs./ft

Typical Wall .105

1 3/4" 1/4"

898 .72 lb/ft
898DKB .72 lb/ft

VINYL FOOT SEAL OPTION:
used instead of caulking to increase
the weather resistance of the threshold.
Specify on order.

BUMPER SEAL
Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:
NGP-TPV ("N")
Silicone ("S")

MATERIALS & FINISHES
• Aluminum mill finish
• DKB - Aluminum dark bronze finish

• Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Half Saddle Thresholds and Extended Width Components

All thresholds this page

**

1/2" T

**

Typical Wall .110

321  .34 lbs./ft.
321DKB  .34 lbs./ft.

**

1/2" T

**

Typical Wall .110

322  .48 lbs./ft.
322DKB  .48 lbs./ft.

**

1/2" T

**

Typical Wall .110

327  .60 lbs./ft.
327DKB  .60 lbs./ft.

**

1/2" T

**

Typical Wall .110

350  .83 lbs./ft.
350DKB  .83 lbs./ft.

**

1/2" T

**

Typical Wall .110

355  .79 lbs./ft.
355DKB  .79 lbs./ft.

**

1/2" T

**

Typical Wall .110

884B/S  .48 lbs./ft.
884B/SDKB  .48 lbs./ft.

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

* When installed with the non-beveled edge FLUSH with flooring, or where no greater than 1/4" vertical rise occurs.

** Designed for thermal break. Bumper seal not available.

BUMPER SEAL
Seals against the door providing weather resistance
Vinyl ("V") supplied unless other material specified
Options:
NGP-TPV ("N")
Silicone ("S")
Pile ("P")
**Extended Width Thresholds**

- Create wider saddle or half saddle thresholds, choosing components from previous page.
- Furnished with aluminum spline for field assembly.

Examples - How to order:

![Diagram of Extended Width Thresholds](image)

**Thermal Break Extended Width Thresholds**

- Create wider thermal break thresholds for non-fire-rated applications using components from previous page.
- Furnished with rigid PVC thermal break spline for field assembly - indicate “TH” where required.

Examples - How to order:

![Diagram of Thermal Break Extended Width Thresholds](image)
Thermal Break Saddle Thresholds

### Materials & Finishes
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

### Fasteners
- #10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

#### 4-1/8"
- 8424: .75 lbs./ft.
- 8424DKB: .75 lbs./ft.

#### 5-1/8"
- 8425: .90 lbs./ft.
- 8425DKB: .90 lbs./ft.

#### 6-1/8"
- 8426: 1.00 lbs./ft.
- 8426DKB: 1.00 lbs./ft.

#### 7-1/8"
- 8427: 1.20 lbs./ft.
- 8427DKB: 1.20 lbs./ft.

#### 8-1/8"
- 8428: 1.30 lbs./ft.
- 8428DKB: 1.30 lbs./ft.

#### 9-1/8"
- 8429: 1.60 lbs./ft.
- 8429DKB: 1.60 lbs./ft.

#### 10-1/8"
- 8430: 1.70 lbs./ft.
- 8430DKB: 1.70 lbs./ft.
Thermal Break Saddle Thresholds

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Thermal Break Bumper Seal Thresholds

Thermal Break thresholds feature a rigid PVC spline creating a separation to prevent the transfer of outside temperature and frost through the threshold.

**Bumper Seal**

Seals against the door providing weather resistance. Vinyl ("V") supplied unless other material specified.

- **Options:**
  - NGP-TPV ("N")
  - Silicone ("S")

**MATERIALS & FINISHES**

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

**FASTENERS**

#10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

---

8113 1.57 lbs./ft.
8113DKB 1.57 lbs./ft.

8213 1.74 lbs./ft.
8213DKB 1.74 lbs./ft.

8433V .69 lbs./ft.
8433VDKB .69 lbs./ft.

8423V .41 lbs./ft.
8423VDKB .41 lbs./ft.

8533V .83 lbs./ft.
8533VDKB .83 lbs./ft.

8633V .97 lbs./ft.
8633VDKB .97 lbs./ft.
**Thermal Break Bumper Seal Thresholds**

Thermal Break thresholds feature a rigid PVC spline creating a separation to prevent the transfer of outside temperature and frost through the threshold.

**MATERIALS & FINISHES**
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

**FASTENERS**
#10 x 1-1/2” FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**BUMPER SEAL**
Seals against the door providing weather resistance
Vinyl (“V”) supplied unless other material specified
Options:
- NGP-TPV (“N”)
- Silicone (“S”)
- Pile (“P”)

---

**8434** .82 lbs./ft.
**8434DKB** .82 lbs./ft.

**8435** .95 lbs./ft.
**8435DKB** .95 lbs./ft.

**8436** 1.11 lbs./ft.
**8436DKB** 1.11 lbs./ft.

**8437** 1.29 lbs./ft.
**8437DKB** 1.29 lbs./ft.
Extended Width Bumper Seal Thresholds

All thresholds this page

VINYL FOOT SEAL OPTION: used instead of caulking to increase the weather resistance of the threshold. Specify on order.

Offset Bumper Seal Thresholds

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Options:
- NGP-TPV ("N")
- Silicone ("S")
- Pile ("P")

VINYL FOOT SEAL OPTION:
used instead of caulking to increase the weather resistance of the threshold. Specify on order.
**Interlocking Threshold**

- ALUMINUM HOOK
  - Supplied standard with interlocking threshold
  - Furnished with #18 x 7/8" nails

**Vinyl Top Thresholds**

- MATERIALS & FINISHES
  - Aluminum mill finish
  - DKB - Aluminum dark bronze finish
  - Optional: Slip Resistant SIA Finish

- FASTENERS
  - #10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

**Elevators**

- Elevators are used under thresholds to increase the rise of the threshold or accommodate offset floor conditions.

- All elevators this section
ADA Compliant Interlocking Ramps

Return Closed Ends for Ramps

Return closed ends provide an attractive finished appearance to ramps. They are available in several lengths and can be trimmed to accommodate any size ramp assembly.

RCE's are also available with slip-resistant “SIA” finish (suffix “SIA”).

RCE-9
RCE-9DKB

RCE-15
RCE-15DKB

RCE-21
RCE-21DKB

RCE-30 (includes RCE-21 + 12" extension)
RCE-30DKB (includes RCE-21 + 12" extension)

MATERIALS & FINISHES
• Aluminum mill finish
• DKB - Aluminum dark bronze finish
• Optional: Slip Resistant SIA Finish
ADA Compliant Interlocking Offset Ramps

Available with Returned Closed Ends - See page T25

Slope = 1:12
Illustrations shown at 50%

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish
Interlocking Ramp Components

Ramps Comply with:
• ADA Standards for Accessible Design.
• ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

Requirements:
• Maximum Threshold Height = 1/2”.
• Thresholds above 1/4” must be beveled with a slope no greater than 1:2.
• Height changes over 1/2” require use of a ramp with slope not steeper than 1:12.

R50  .94 lbs./ft.
R50DKB  .94 lbs./ft.

R57  .93 lbs./ft.
R57DKB  .93 lbs./ft.

R54  1.12 lbs./ft.
R54DKB  1.12 lbs./ft.

R61  1.34 lbs./ft.
R61DKB  1.34 lbs./ft.

R60  1.76 lbs./ft.
R60DKB  1.76 lbs./ft.
Aluminum Ramps

All aluminum ramps this section

Typical Wall .125

654  .53 lbs./ft.
654DKB .53 lbs./ft.

Typical Wall .125

657  .86 lbs./ft.
657DKB .86 lbs./ft.

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

Interlocking Rubber Ramps

- Supplied with beveled ends - (end slope = 1:2). Specify if straight cut is required.
- Rubber ramp sections may be combined with aluminum ramp components for higher rises, or with 6" flat aluminum interlocking threshold #957 for offset conditions.
- Black silicone adhesive available to secure ramps without fasteners. Specify RR5007BL, each tube will secure 2 ramps 12” wide x 36” long (6 square feet.)

RR42  3.4 lbs./ft.
maximum length = 118”

Slope = 1:12
Illustrations shown at 50%

RR952  1.0 lbs./ft.
maximum length = 120”
Custom Fabricated Thresholds

Choose from various height and width components to build custom thresholds to meet special job requirements. See the custom fabricated threshold example illustrated on page T4. For assistance contact our tech support team.

Select the proper height edge components. Select the appropriate center plates to construct the width needed. Plates may be butted together or ripped to make specific widths. Support joints and wider spans with bar supports.

Threshold assembly plates may be used fluted or smooth side up. Slip-resistant SIA finish can be applied to all parts.

Threshold assembly components may be ordered separately for field assembly or welded into one piece units in our custom fabrication shop. They are supplied undrilled unless a template is provided. Ripping and beveling options are available. All custom fabricated assemblies have a tolerance of +/- 1/16".

If a welded assembly is desired, specify "welded".

<table>
<thead>
<tr>
<th>Height</th>
<th>Weight/LF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
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<tr>
<td>2&quot;</td>
<td>.50 lbs./ft</td>
<td>8142DKB</td>
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<tr>
<td>2 1/4&quot;</td>
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<td>1.00 lbs./ft</td>
<td>8144DKB</td>
</tr>
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</tr>
<tr>
<td>9 1/2&quot;</td>
<td>2.33 lbs./ft</td>
<td>8170DKB</td>
</tr>
</tbody>
</table>

All products this page except 8163, 8164, 8167

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Illustrations shown at 50%
**Edge Components**

All products this page

**Bar Supports**

Used as support under threshold assemblies
Aluminum Cover Plates

- Great for expansion joint covers or anywhere extra width and strength are required
- Cover plates are made to order; non-returnable and non-cancelable once fabricated
- Manufactured through a rolled process providing extra durability
- PVC coating applied to protect the finish during shipping and installation
- Minimum width 2" on 818, 3" on 814 and 4" on 838
- Edges are beveled unless otherwise specified
- Furnished undrilled although custom drilling is available to your detail
- #10 x 1-1/2" zinc plated wood screws furnished

MATERIALS & FINISHES

- Aluminum mill finish
- Optional: Slip Resistant SIA Finish

Stainless Steel Cover Plates

- #304 stainless steel material, mill finish
- Optional finishes: Polished US32, 629, suffix "POL",
  Brushed US32D, 630, suffix "Brushed"
- PVC coating applied to protect the finish during shipping and installation.
- Square cut edges standard. Specify if beveled edge is required.
- Furnished undrilled although custom drilling is available to your detail.
- Minimum width 3" on 818SS and 4" on 814SS.
- #10 x 1-1/2" stainless steel wood screws furnished.
**Diamond Tread Plate**

- Great for expansion joint cover, bulkhead saddle, or anywhere extra width and strength are required
- This item is made to order and is non-returnable and non-cancelable once fabricated
- 1/8” thick bright-finish aluminum
- Edges beveled unless otherwise specified
- Furnished undrilled, although custom drilling is available to your detail
- #10 x 1-1/2” zinc plated wood screws furnished
- Minimum width 2”

**Safety Tread Plates**

- Non-slip abrasive tread material is a blend of carborundum and aluminum oxide, bonded and locked into the aluminum tread base
- Treads exceed ADA requirements for coefficient of friction tested to ASTM F609 and MIL-D-23003A
  The coefficient of friction for NGP safety tread plates is .94 dry and .86 wet
- Furnished undrilled, unless a template is provided
- May be used with edge parts (page T31)
- Treads can NOT be ripped to narrower width or welded together
- Safety treads are manufactured to order and are non-cancelable and non-returnable

---

Mill finish aluminum with black carborundum and aluminum oxide non-slip abrasive tread

---

![Diamond Tread Plate Diagram](image1)

![Safety Tread Plates Diagram](image2)
Safety Tread Stair Nosings

- Non-slip abrasive tread material is a blend of carborundum and aluminum oxide, bonded and locked into the aluminum tread base.
- Treads exceed ADA requirements for coefficient of friction tested to ASTM F609 and MIL-D-23003A. The coefficient of friction for NGP stair nosings is .94 dry and .86 wet.
- Furnished drilled and countersunk for screws, except 3231 and 3241 which have hook anchor designed for installation into wet concrete.
- Furnished standard with #14 x 1-1/2” stainless steel wood screws. Specify if other screws and anchors required.
- Stair nosings are manufactured to order and are non-cancelable and non-returnable.

Renovation Nosings

- Designed for new construction: poured concrete, Terrazzo or Steel Pan cement filled stairs.
- Continuous hook anchor. Not drilled, no screws provided.

Safety Nosings

- Mill finish aluminum with black carborundum and aluminum oxide non-slip abrasive tread.
Cast Aluminum Thresholds With Abrasive Surface

- STANDARD FASTENERS - #14 stainless steel wood screws x expansion shields
- STOCK LENGTHS - 36", 48", 72". 4425 available also in 96" length.
- Saddle type with fluted abrasive surface (flute details may vary slightly)
- Drilled 6" from each end to allow field cutting or notching
- Other profiles and sizes available on special order - Consult Factory
- Cast Threshold dimensions shown below are nominal. Tolerance +/- 1/16".

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
<th>Weight per foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>4413</td>
<td>4&quot;</td>
<td>1.46 lbs.</td>
</tr>
<tr>
<td>4424</td>
<td>4&quot;</td>
<td>1.46 lbs.</td>
</tr>
<tr>
<td>4425</td>
<td>5&quot;</td>
<td>1.83 lbs.</td>
</tr>
<tr>
<td>4513</td>
<td>5&quot;</td>
<td>1.86 lbs.</td>
</tr>
</tbody>
</table>
Floor Closer Thresholds

Thresholds can be fabricated for use with any floor closer. They are available in aluminum, bronze, or stainless steel in several finishes including slip resistant (SIA) finish.

Specify when ordering:
- Type x number (i.e. Type 3 x 427FC)
- Material and finish
- Door opening width
- Door thickness if other than 1-3/4"
- Handing (Door Handing)
- Closer manufacturer
- Closer model number

**TYPES 1, 3, & 4**

<table>
<thead>
<tr>
<th>ALUMINUM</th>
<th>ARCHITECTURAL BRONZE</th>
</tr>
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<tbody>
<tr>
<td>1/2&quot; x 6-3/4&quot;</td>
<td>427FC</td>
</tr>
<tr>
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</tr>
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<td>1/4&quot; x 7-3/4&quot;</td>
<td>813FC</td>
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**TYPE 5**

<table>
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<td>428FC x 425FC</td>
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<td>813FC x 513FC</td>
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<td>427BR x 424BR</td>
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<td>1/2&quot; x 7&quot; x 4&quot;</td>
<td>713BR x 413BR</td>
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<td>1/2&quot; x 8&quot; x 5&quot;</td>
<td>428BR x 425BR</td>
</tr>
<tr>
<td>1/4&quot; x 8&quot; x 5&quot;</td>
<td>813BR x 513BR</td>
</tr>
</tbody>
</table>

Other thresholds and custom assemblies may be prepped for floor closers. Consult factory for custom applications.

Special Finishes available
- Polished, suffix "POL"
- Dark oxidized bronze US10B, suffix "DKB"
- Slip-resistant SIA finish, suffix "SIA"

Stainless steel available
- Specify type (1, 3 or 4) x stainless steel threshold model number
- #304, Mill finish
Optional Finishes:
- Polished US32, 629, suffix "POL"
- Brushed US32D, 630, suffix "Brushed"
Floor Closer Thresholds

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
Stainless Steel 1/4" Saddle Thresholds

Widths and heights other than shown are available upon request.
Return Closed Ends are available - see page T4
Stainless steel thresholds are type #304, mill finish

Optional Finishes:
- Polished US32, 629 suffix “POL”
- Brushed US32D, 630 suffix “Brushed”
- Slip-resistant suffix “SIA”

FASTENERS
#10 x -1-1/2" FH stainless steel wood screws
Stainless Steel 1/2" Saddle Thresholds

Widths and heights other than shown are available upon request. Return Closed Ends are available - see page T4

Stainless steel thresholds are type #304, mill finish

Optional Finishes:
Polished US32, 629 suffix “POL”
Brushed US32D, 630 suffix “Brushed”
Slip-resistant suffix “SIA”

FASTENERS
#10 x -1-1/2” FH stainless steel wood screws

<table>
<thead>
<tr>
<th>Width (in)</th>
<th>Weight (lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1.65</td>
</tr>
<tr>
<td>5</td>
<td>2.07</td>
</tr>
<tr>
<td>6</td>
<td>2.50</td>
</tr>
<tr>
<td>7</td>
<td>2.95</td>
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<tr>
<td>8</td>
<td>3.38</td>
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<tr>
<td>9</td>
<td>3.81</td>
</tr>
<tr>
<td>10</td>
<td>4.25</td>
</tr>
</tbody>
</table>

All thresholds this page

Typical Wall .120
Stainless Steel Bumper Seal Thresholds

#304 stainless steel, mill finish
Optional finishes:
- Polished US32, 629 suffix “POL”
- Brushed US32D, 630 suffix “Brushed”
- Slip-resistant suffix “SIA”

For adhesive mounted silicone bumper seal suffix “S”

Stainless Steel Cover Plate

- #304 stainless steel material, Mill finish
- Optional finishes: Polished US32, 629 suffix “POL”
  Brushed US32D, 630 suffix “Brushed”
- PVC coating applied to protect the finish during shipping and installation.
- Square cut edges standard. Specify if beveled edge is required.
- Furnished undrilled although custom drilling is available to your detail.
- Minimum width 3” on 818SS and 4” on 814SS.
- #10 x 1-1/2” stainless steel wood screws furnished.
- Beveled edges available at extra charge

818SS 1/8”
- Maximum width 48”
- Maximum length 144”

814SS 1/4”
- Maximum width 36”
- Maximum length 96”

Optional: Slip Resistant SIA Finish
Suffix “SIA”
**Architectural Bronze Bumper Seal Thresholds**

Architectural Bronze satin finish (728) similar to US4.
Optional finishes:
- Polished (721), suffix “POL”
- Dark oxidized oil rubbed (722) similar to US10B, suffix “DKB”
- Slip-resistant, suffix “SIA”

<table>
<thead>
<tr>
<th>Typical Wall .120</th>
</tr>
</thead>
<tbody>
<tr>
<td>896BR 1.94 lbs./ft.</td>
</tr>
</tbody>
</table>

**BUMPER SEAL**
Seals against the door providing weather resistance
- Vinyl (“V”) supplied unless other material specified
- Options:
  - NGP-TPV (“N”)
  - Silicone (“S”)

**Brass Cover Plate**

- #260 Brass, mill finish - 3” minimum width.
  - Optional finish: Polished (similar to US3), suffix “POL”.
- Manufactured through a cold formed process providing extra durability.
- PVC coating applied to protect the finish during shipping and installation.
- Beveled edges standard. Specify if square cut edges are required.
- Furnished undrilled although custom drilling is available to your detail.
- Minimum width 3”.
- #10 x 1-1/2” brass wood screws furnished.

<table>
<thead>
<tr>
<th>Maximum width 36”</th>
</tr>
</thead>
<tbody>
<tr>
<td>818BR</td>
</tr>
</tbody>
</table>

Optional: Slip Resistant SIA Finish
- Suffix “SIA”.

Architectural Bronze Bumper Seal Thresholds

<table>
<thead>
<tr>
<th>Maximum length 96”</th>
</tr>
</thead>
<tbody>
<tr>
<td>All products this page</td>
</tr>
</tbody>
</table>
Architectural Bronze 1/4" Saddle Thresholds

Architectural Bronze satin finish (728) similar to US4.
Optional finishes:
- Polished (721), suffix “POL”
- Dark oxidized oil rubbed (722) similar to US10B, suffix “DBK”
- Slip-resistant, suffix “SIA”

FASTENERS
#10 X 1-1/2" solid brass wood screws furnished.
Antique bronze finish screws provided with dark bronze thresholds.

All thresholds this page

Typical Wall .130
411BR 1.42 lbs./ft.

Typical Wall .157
413BR 1.52 lbs./ft.

Typical Wall .157
513BR 1.96 lbs./ft.

Typical Wall .157
613BR 3.06 lbs./ft.

Typical Wall .157
713BR 3.62 lbs./ft.

Typical Wall .157
813BR 4.60 lbs./ft.
Architectural Bronze 1/2" Saddle Thresholds

Architectural Bronze satin finish (728)
similar to US4.
Optional finishes:
Polished (721), suffix "POL"
Dark oxidized oil rubbed (722)
similar to US10B, suffix "DBK"
Slip-resistant, suffix "SIA"
Architectural Bronze
Thermal Break Saddle Thresholds

8426BR  2.84 lbs./ft.
6-1/8"

8427BR  3.23 lbs./ft.
7-1/8"

8428BR  3.62 lbs./ft.
8-1/8"

8429BR  4.16 lbs./ft.
9-1/8"

8430BR  4.70 lbs./ft.
10-1/8"

Architectural Bronze satin finish (728)
similar to US4.
Optional finishes:
Polished (721), suffix "POL"
Dark oxidized oil rubbed (722)
similar to US10B, suffix "DKB"
Slip-resistant, suffix "SIA"

FASTENERS
#10 X 1-1/2" solid brass
wood screws furnished.
Antique bronze finish
screws provided with dark
bronze thresholds.
Architectural Bronze Half-Saddle Thresholds

Architectural Bronze satin finish (728) similar to US4.
Optional finishes:
Polished (721), suffix “POL”
Dark oxidized oil rubbed (722) similar to US10B, suffix “DKB”
Slip-resistant, suffix “SIA”

FASTENERS
#10 X 1-1/2” solid brass wood screws furnished.
Antique bronze finish screws provided with dark bronze thresholds.

When installed with the non-beveled edge FLUSH with flooring, or where no greater than 1/4” vertical rise occurs.

Architectural Bronze satin finish (728) similar to US4.
Optional finishes:
Polished (721), suffix “POL”
Dark oxidized oil rubbed (722) similar to US10B, suffix “DKB”
Slip-resistant, suffix “SIA”

FASTENERS
#10 X 1-1/2” solid brass wood screws furnished.
Antique bronze finish screws provided with dark bronze thresholds.

When installed with the non-beveled edge FLUSH with flooring, or where no greater than 1/4” vertical rise occurs.

215BR .76 lbs./ft.
Typical Wall .157
2”

315BR 1.56 lbs./ft.
Typical Wall .157
3”

415BR 1.88 lbs./ft.
Typical Wall .157
4”

322BR 1.31 lbs./ft.
Typical Wall .110
3”

327BR 1.75 lbs./ft.
Typical Wall .110
4”

350BR 2.10 lbs./ft.
Typical Wall .110
5”

325BR 3.95 lbs./ft.
Typical Wall .250
5”
Architectural Bronze Interlocking Thresholds

Bronze Hook
Supplied Standard with bronze interlocking thresholds:
Furnished with #18 x 7/8" nails

442BR 2.01 lbs./ft.

473BR 1.54 lbs./ft.

483BR 1.80 lbs./ft. Bronze pan optional - please specify

484BR 1.83 lbs./ft. Bronze pan optional - please specify

895BR 2.06 lbs./ft.

FASTENERS
#10 X 1-1/2" solid brass wood screws furnished. Antique bronze finish screws provided with dark bronze thresholds.

BUMPER SEAL
Seals against the door providing weather resistance
Vinyl ("V") supplied unless other material specified
Options:
NGP-TPV ("N")
Silicone ("S")
Pile ("P")
Architectural Bronze Custom Thresholds

Choose from various height and width components to build custom thresholds to meet special job requirements. See the custom fabricated threshold example illustrated on page T4. For assistance contact our tech support team.

Select the proper height edge components. Select the appropriate center plates to construct the width needed. Plates may be butted together or ripped to make specific widths. Support joints and wider spans with bar supports.

Threshold assembly plates may be used fluted or smooth side up. Slip-resistant SIA finish can be applied to all parts.

Threshold assembly components may be ordered separately for field assembly or welded into one piece units in our custom fabrication shop. They are supplied undrilled unless a template is provided. Ripping and beveling options are available. All custom fabricated assemblies have a tolerance of +/- 1/16”.

If a welded assembly is desired, specify “welded”.

Bar Supports
used as support under threshold assemblies

Architectural Bronze satin finish (728) similar to US4.
Optional finishes:
Polished (721), suffix “POL”
Dark oxidized oil rubbed (722) similar to US10B, suffix “DBK”
Slip-resistant, suffix “SIA”
Threshold Fasteners

- **#10 x 1 1/2" Phillips Flat Head Wood Screw**
  - Use 1/8" Drill bit
  - Also #12 x 1"

- **#12 x 1 1/2" Phillips Flat Head Wood Screw**
  - Use 9/64" Drill bit
  - Also #12 x 1"

- **#10 x 1 1/2" Phillips Flat Head Stainless Steel Sheet Metal Screw**
  - Use 1/8" Drill bit
  - Also #10 x 1", #10 x 2", #10 x 2 1/2", #10 x 3"

- **#12 x 1 1/2" Phillips Flat Head Sheet Metal Screw**
  - Use 9/64" Drill bit
  - Also: #12 x 1"

- **#10-24 x 1 1/2" Phillips Flat Head Machine Screw**
  - Also #10-24 x 3/4", #10-24 x 1"

- **#1/4-20 Phillips Combo Flat Head Machine Screw/Anchor**
  - Use 1/4" Drill bit

- **#1/4-20 Phillips Flat Head Machine Screw**
  - Use 3/8" Drill bit

- **#10-24 Lead Anchor**
  - Use 3/8" Drill bit and Powers seating tool

- **#18 x 7/8" Nail for use with 80B Hook Strip**

- **Hilti Kwik-Con II Torx Head Screw, Use Hilti TKC large concrete bit SDS 1/4" Tough Carbide**

- **Tap-Con type Phillips Head Screw**
  - Use 5/32" Drill bit

- **Plastic Anchor Various Sizes**
  - Use Drill Size = Anchor Size

- **Lead Expansion Shield 4% Antimonial Lead**
  - Use 5/16" Drill bit

- **Threshold Fasteners**