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**Rating Symbols Legend**

- **ADA COMPLIANT** Barrier Free Transitions 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 transitions. Our process embeds and fuses bits of hot nickel and titanium into the surface of the transition. This technology originally developed for use on aircraft carrier decks is very skid resistant and will not wear off.
- **ANSI/BHMA CERTIFIED.** Certified transitions comply with American National Standard for Transitions ANSI/BHMA A156.21 and are listed in the BHMA Certified Products Directory.

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

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

**Transition Finishes**

<table>
<thead>
<tr>
<th>Materials</th>
<th>Finishes</th>
<th>ANSI/BHMA</th>
<th>NGP Suffix</th>
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<tbody>
<tr>
<td>Aluminum</td>
<td>Mill Finish</td>
<td>ANSI/BHMA 719</td>
<td>US27</td>
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<tr>
<td></td>
<td>Dark Bronze</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 717</td>
<td>POL</td>
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<tr>
<td></td>
<td>Powder Coated Colors – Slip Resistant</td>
<td>See Page L2 for details</td>
<td>SIA</td>
</tr>
<tr>
<td>Architectural Bronze</td>
<td>Satin Finish</td>
<td>ANSI/BHMA 728</td>
<td>US4</td>
</tr>
<tr>
<td></td>
<td>Dark Bronze Oil Rubbed</td>
<td>ANSI/BHMA 722</td>
<td>US10B</td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>ANSI/BHMA 721</td>
<td>US3</td>
</tr>
<tr>
<td></td>
<td>Slip Resistant</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>Mill Finish</td>
<td>ANSI/BHMA 630</td>
<td>US32D</td>
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<td></td>
<td>Brushed (#4)</td>
<td>ANSI/BHMA 629</td>
<td>US32</td>
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<tr>
<td></td>
<td>Polished</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Slip Resistant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Slip Resistant Finish**

SIA (Slick It Ain’t) finish is our slip resistant textured surface, available on all transitions 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 transition 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 transitions are a pewter color. Architectural Bronze SIA finish transitions are a brass color.

**Powder Coat Finish**

Powder Coat finish is available on most transitions upon request. Consult factory for custom color matching.
Saddle Transitions

**MATERIALS & FINISHES**

- Aluminum mill finish standard
- DKB - Aluminum dark bronze finish
- BR - Architectural Bronze

Optional: Slip Resistant SIA Finish

**VINYL FOOT SEAL OPTION:**
Used instead of caulking to increase the weather resistance of the transition. Specify on order.

**Transition** | **Width**
--- | ---
413, 413DKB, 413BR | 4”
513, 513DKB, 513BR | 5”
613, 613DKB, 613BR | 6”
713, 713DKB, 713BR | 7”
813, 813DKB, 813BR | 8”
913, 913DKB | 9”
1013, 1013DKB | 10”

Note: Flute pattern varies with width of transition

**Transition** | **Width**
--- | ---
424E, 424EDKB | 5”
426E, 426EDKB | 6”
427E, 427EDKB | 7”
428E, 428EDKB | 8”
429E, 429EDKB | 9”
430E, 430EDKB | 10”

Note: Flute pattern varies with width of transition
**Heavy Duty Transitions**

- 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 Series
- **Height**: 0.244 in.
- **Width**: 5 in.
- **Weight**: 1.6 lbs./ft.

### 426HD Series
- **Height**: 0.244 in.
- **Width**: 6 in.
- **Weight**: 1.98 lbs./ft.

### 325HD Series
- **Height**: 0.250 in.
- **Width**: 5 in.
- **Weight**: 1.65 lbs./ft.

### 513HD Series
- **Height**: 0.244 in.
- **Width**: 5 in.
- **Weight**: 1.4 lbs./ft.

### 613HD Series
- **Height**: 0.244 in.
- **Width**: 6 in.
- **Weight**: 1.66 lbs./ft.

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

---

For more information, visit [www.ngp.com](http://www.ngp.com).
Extended Width Transitions

• Create wider saddle or half saddle transitions
• Furnished with aluminum spline or thermal spline for field assembly
• Optional welded assemblies

Examples - How to order:

Half Saddle and Extended Width Components

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 transitions.
Half Saddle Transitions and Extended Width Components

**

1/2" Typical Wall .110

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

**

1/2" Typical Wall .110

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

**

1/2" Typical Wall .110

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

**

1/2" Typical Wall .110

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

**

1/2" Typical Wall .110

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

* 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.

All transitions this page
**Half Saddle Transitions**

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

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

**Offset Transitions**

653  .78 lbs./ft.
653DKB  .78 lbs./ft.

659  .89 lbs./ft.
659DKB  .89 lbs./ft.

**Aluminum Cover Plates**

818  1/8”

814  1/4”

838  3/8”
Return Closed Ends

Return Closed Ends (RCE’s) are available on most beveled transitions. 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 Transitions

Our Custom Fab dept. specializes in producing custom made-to order transitions to your specifications. Submit your details to our technical dept. for a quotation and drawing for your approval. Components 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 Transition Assemblies

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

Choose from various height and width components to build custom transitions to meet special job requirements. 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.

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

Transition 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".
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 transitions.

Bar Supports
Used as support under transition assemblies

illustrations shown at 50%
Stainless Steel 1/4" Saddle Transitions

<table>
<thead>
<tr>
<th>Transition</th>
<th>Weight (lbs./ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>513SS</td>
<td>2.07</td>
</tr>
<tr>
<td>512SS</td>
<td>2.07</td>
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</tbody>
</table>

Architectural Bronze 1/4" Saddle Transitions

<table>
<thead>
<tr>
<th>Transition</th>
<th>Weight (lbs./ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>411BR</td>
<td>1.42</td>
</tr>
<tr>
<td>413BR</td>
<td>1.52</td>
</tr>
<tr>
<td>513BR</td>
<td>1.96</td>
</tr>
</tbody>
</table>

Architectural Bronze 1/2" Saddle Transitions

<table>
<thead>
<tr>
<th>Transition</th>
<th>Weight (lbs./ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>424BR</td>
<td>2.28</td>
</tr>
<tr>
<td>425BR</td>
<td>2.84</td>
</tr>
<tr>
<td>426BR</td>
<td>3.33</td>
</tr>
</tbody>
</table>

FASTENERS

#10 X 1-1/2" solid brass wood screws furnished. Antique bronze finish screws provided with dark bronze transitions.
Architectural Bronze Custom Transitions

Choose from various height and width components to build custom transitions to meet special job requirements. See the custom fabricated transition example illustrated on page T9. 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.

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

Transition 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 transition assemblies

BAR1BR
BAR2BR

Typical Wall .125

8142BR 1.30 lbs./ft.

8139BR 1.25 lbs./ft.

8140BR .82 lbs./ft.

8136BR .89 lbs./ft.

8143BR 2.07 lbs./ft.

8144BR 2.88 lbs./ft.

8145BR 3.70 lbs./ft.

8146BR 4.25 lbs./ft.
ADA Compliant Interlocking Reducers

Return Closed Ends for Reducers

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

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

Interlocking Rubber Reducers

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

Slope = 1:12
Illustrations shown at 50%
Transition Fasteners

- **#10 x 1 1/2" Phillips Flat Head Wood Screw**
  - Use 1/8" Drill bit
- **#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 1/2" Phillips Flat Head Sheet Metal Screw**
  - Use 9/64" Drill bit
  - Also: #12 x 1"
- **#6 x 3/4" Phillips Flat Head Self-tapping Machine Screw**
  - Use 3/32" Drill bit
- **#1/4-20 Phillips Combo Flat Head Machine Screw/Anchor**
  - Use 3/8" Drill bit
- **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
- **#10-24 Lead Anchor**
  - Use 3/8" Drill bit and Powers seating tool
- **#10-24 Expansion Anchor**
  - Carbon Steel
  - Use 3/8" Drill bit
- **#1/4-20 Expansion Anchor**
  - Use 5/16" Drill bit
- **Lead Expansion Shield**
  - 4% Antimonial Lead
  - Use 5/16" Drill bit
- **#18 x 7/8" Nail for use with 80B Hook Strip**
- **SG 15**