



**Thresholds**

**Weatherstrip**

**Door Seal**

Mike Gannon - ConsulPro  
Florida Sales Representative  
Mobile: 802-299-9373  
[mike@consulprollc.com](mailto:mike@consulprollc.com)





# FIRE RATED PARTS



## 20 Minute Fire Rating:

### INSERT SILL / THRESHOLD:

542

### WATER-RETURN THRESHOLDS:

341 345

### ADJUSTABLE THRESHOLDS:

827 847 856 857 877 927 947 957 977

### OUT-SWING BUMPER THRESHOLDS:

415 417



## 90 Minute Fire Rating:

### DOOR BOTTOMS:

101 151 201 205 221 223 251 257 261 281

### COMBINATION SILL-THRESHOLDS:

564 566 569 585 586  
650 651 680 681 775 776

### SILL COVERS:

3104 3109 3116

### RESIDENTIAL THRESHOLDS:

300 301 304 305 332 334 3007 3008 3017

### OUT-SWING BUMPER THRESHOLDS:

428 470 471 472 1522 1523

### COMMERCIAL SADDLE THRESHOLDS:

1503 1504 1505 1506 1507 1509 1510 1512 1514 1515 1516 1517  
1518 1519 1520 1525 1529 1539 1544 1545 1546 1547 1548 1564

### JAMB WEATHERSTRIPS:

1000 3212

### ADHESIVE-BACKED DOOR SEALS:

1430 1830

Dear Valued Customer,

**COMBO ALUMINUM PRODUCTS** was founded in El Cajon, California in 1959 by Mr. Wally Miller, then known as the W. W. Miller Company. Mr. Miller designed and patented the original Combo Sill, from which we get our name today.

In 1970 the company was purchased by John Hartman. Under John Hartman's ownership through the 70's, 80's and 90's Combo experienced much growth and expansion.

In 2001, I purchased the company and have enjoyed the opportunity to continue to expand and develop Combo, keeping a majority of the long serving staff in place. This is the primary reason that Combo has been one of the leaders in our industry in the area of product development and customer service.

Our staff, over our sixty year history, has taken a tremendous amount of pride in maintaining our claim and long time goal of Servicing, Innovating and being Cutting Edge. Thank you for allowing us to be of service to you over the past sixty years.

Sincerely,



Bill Cornthwaite  
President & CEO

MATERIALS

**ALUMINUM PRODUCTS** are manufactured from 6063-T5 extruded aluminum. Aluminum finishes are listed under "Ordering Information" on page 2.

**STEEL PRODUCTS** are manufactured from cold-rolled low carbon steel and painted in a primer coat.

**SEALING - GASKETING MATERIALS**

VINYLS are provided in standard and/or low temperature grades, depending on application, compounded from B.F. Goodrich 'Geon' flexible homopolymer resin

SANTOPRENE® is an advanced thermoplastic elastomer from Monsanto having outstanding properties of UV stability and flame retardance.

TPR Thermoplastic Rubber combines the versatility of rubber with high durability properties.

**THERMAL BREAK MATERIALS** for improved energy conservation may consist of wood, rigid PVC, ABS, or high density solid polyurethane integral to the aluminum.

**SPECIAL WEATHERSTRIP PRODUCTS** manufactured by others are supplied in materials proprietary to those manufacturers.

AVAILABILITY, STANDARDS and PRICING

Materials and components for the manufacture of products shown in this catalog are maintained in inventory and fabricated for prompt shipment.

Specific information pertaining to the industry standard of over-cut and under-cut lengths are explained at the beginning of each catalog section.

Pricing, terms of sale, shipping allowance information is published in the Price List which is available upon request.

CERTIFICATION

Products of aluminum are warranted for three years against defects in materials or workmanship. Non-metallic materials are guaranteed for ninety days. Warranty applies only to products used in applications for which the product is intended, and installed in an accepted workmanship manner.

Defective materials will be replaced or repaired at our option.

No claims for damage incurred or work done thereon shall be allowed.

**PRODUCTS SHOWN** as dimensional cross-sections are full size profiles, unless noted, and are sufficiently accurate to be used as templates. Perspective drawings are not to scale, but are included to indicate installation methods.

Installation practices vary considerably among geographic areas and the final authority for installation rests with the construction professional. Product information at the beginning of each section pertains to the products shown within that section unless otherwise noted.

**PRODUCTS ARE PROVIDED** with required holes and fasteners included in the cost. In general, #10 size fasteners of popular length are provided with thresholds, sills and saddles. Number 6 fasteners are provided for door bottoms and weatherstrips. Fasteners are color matched to the product finish. Anchors and anchor fasteners for special applications are available (extra cost). See page 34.

PRODUCTS AND PRODUCT DESIGNS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

PRICES AND TERMS ARE SUBJECT TO CHANGE BY NOTIFICATION IN PUBLISHED PRICE LIST.

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# ORDERING INFORMATION

When ordering please state

- 1) **QUANTITY** - number of pieces.
- 2) **PART NUMBER**
- 3) **FINISH** (A, B, BA, G, PG, S, W) see below.
- 4) **PACKAGING** (BK, PR, PT) see below.
- 5) **SIZE / LENGTH** (36", 80", 72", etc.) see below.
- 6) **FABRICATION** (Options page 4, 14 and 33).

## FINISHES

Most extruded aluminum products are available in the following finishes/coatings:

- A ALUMINUM MILL FINISH** - as extruded condition.
- B BRONZE ANODIZE** - bronze color anodizing process.
- BA BRITE ALUMINUM** - available on selected wallboard trims & edge facing.
- G GOLD ANODIZE** - gold color anodizing process (Floor Trim only).
- PG BRIGHT GOLD** - a chemically brightened gold anodizing process.
- S CLEAR SATIN ANODIZE** - clear anodize with light etch.
- W WHITE** - a baked electrostatic coating or a powder coat according to product service requirement.
- Floor trim products come in hammered finishes only.**

## PACKAGING SYMBOLS

- BK BULK** - No wrap or label. All fasteners in one bag. Individual packs of fasteners available at extra cost.
- PR POLY RETAIL** - Clear poly (usually shrink wrap), with label & fasteners suitable for retail display. Bar coding on labels is available. If you have any bar code requirements, please inquire (UPC code A).
- PT PROTECTIVE TAPE** - Tape applied to Hardwood for wood protection. also used on all aluminum adjustables.

## SIZE - LENGTH

If special sizes are required, please specify at time of ordering. Standard sizes (ie, 30", 32", 36", etc.) are cut over, under, or exact, as detailed in section headings for that specific product.

## FABRICATION

All products are cut to standard size, punched with required holes and provided with seal (as illustrated). Additional fabrication may be ordered as follows:

- DOOR BOTTOMS** - Stop cut, 3 degree bevel & weep holes. See page 4.
- SILLS-THRESHOLDS / COMMERCIAL SADDLES** - Rout for nail-on applications, rout for metal / mortised frame, mullion rout, sill trim notch, tabs, or "no-holes" (pages 14 and 33).
- ASTRAGALS** - Punch out for dead bolt, stop cut.

## PLEASE TAKE NOTE

Any variance from standard preparation procedures must be noted at the time of ordering. Standard procedures, in addition to the above, are described at the beginning of each product section. Fabrication Options are illustrated on page 4, 14 and 33.

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224.....5	585.....11	1523.....34	7410.....45
225.....5	586.....12	1525.....31	7420.....45
226.....5	650.....12	1529.....32	7430.....45
227.....5	651.....12	1539.....32	7600.....46
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# Section 1 DOOR BOTTOMS & SEALS

Door Bottoms are extruded aluminum with either double vinyl seal or wide finger vinyl seal.

**Standard Size** are 30", 32", 36", 42" & 48" and are cut **1/4" under** unless noted.

**Other lengths may be ordered, and are cut exact.**

Door Bottoms have **slotted holes** for close adjustment. SMS 6 x 5/8" phillips panhead stainless steel screws are included.

◁ Indicates location of standard fastener hole.

**THERMAL BREAK** door bottoms are shown on page 5.

Color of sealing material is black. Made from virgin, flexible extruded vinyl.

**Replacement sealing materials are available and sold by the foot (Page 44).**

Custom fabrications - **Stop cuts & 3 degree bevel** - are available to assist installation. See page 4 for detail.

Typical clearance between door and threshold is 3/8". **Check before installation.**

Some Door Bottoms have a **drip cap** to direct rain water run-off. Weep holes are avail.

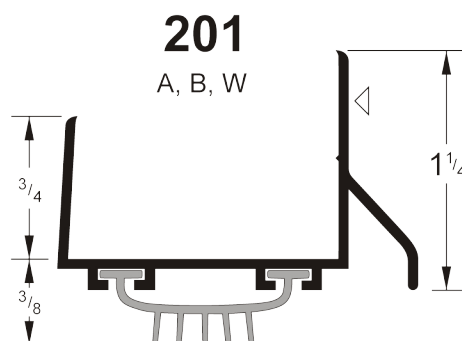
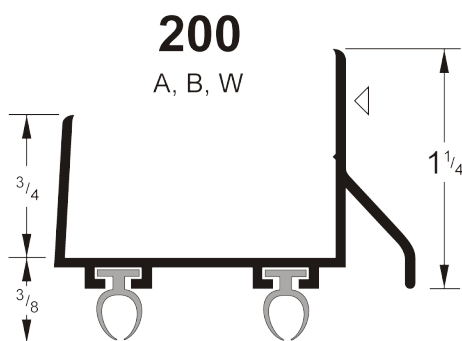
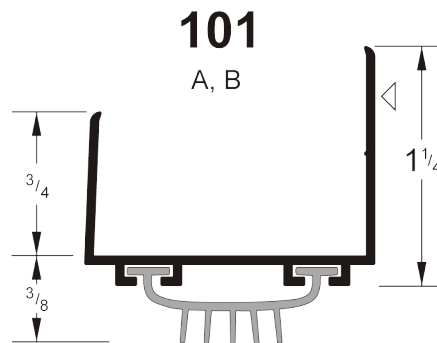
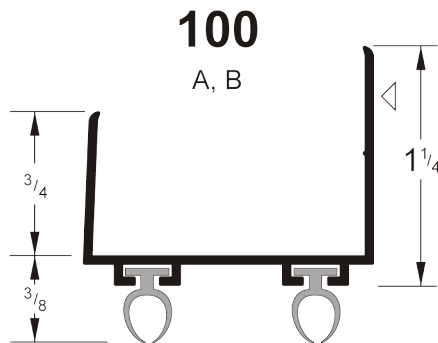
**Threshold and Door Bottoms can be ordered in packaged sets.**

**Closure strips** with a reach up to 1-1/4" (pages 7 & 8)

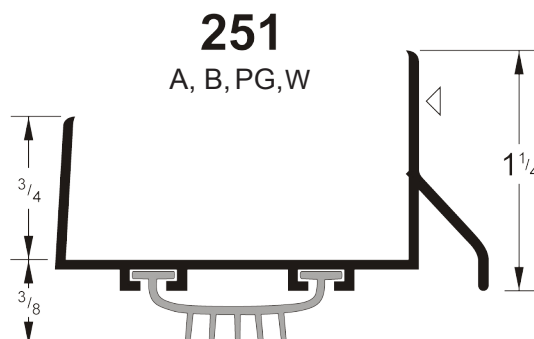
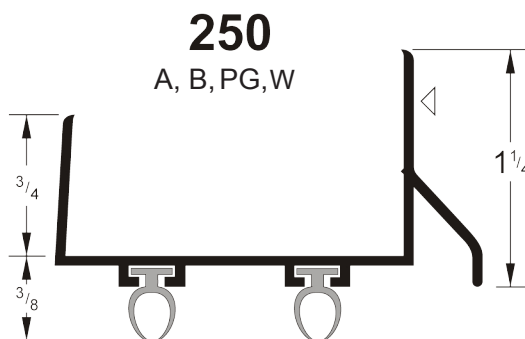
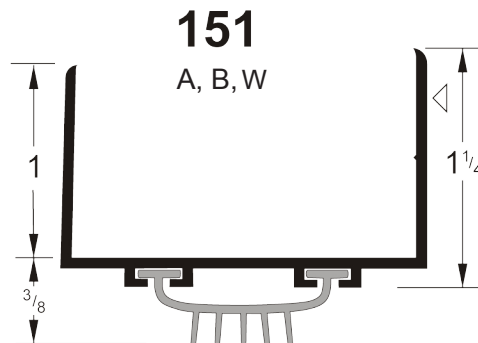
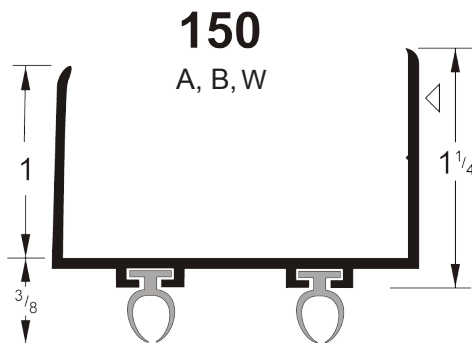
**Automatic Door Bottoms** are available in both Surface Mount and Mortise types.

Part #255 is designed for **hollow metal doors** (page 4).

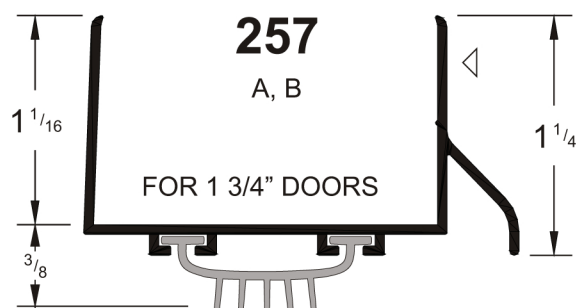
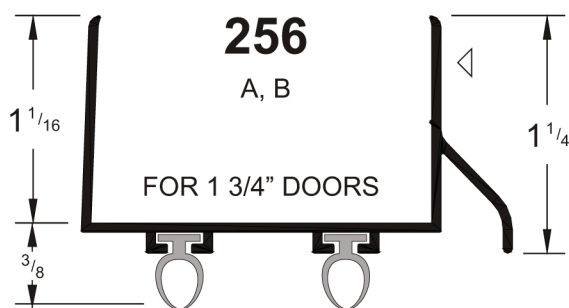
## FOR 1-3/8" DOORS



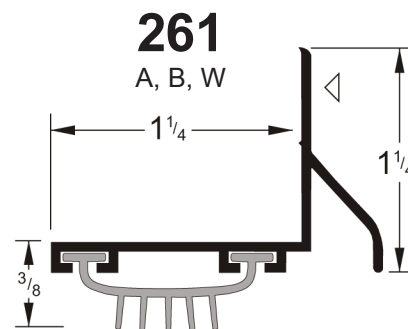
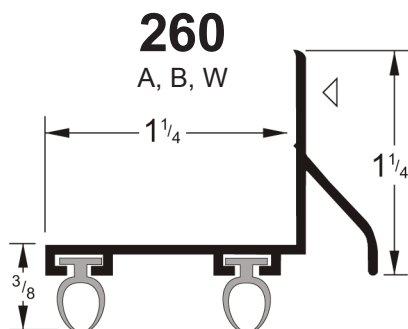
## FOR 1-3/4" DOORS



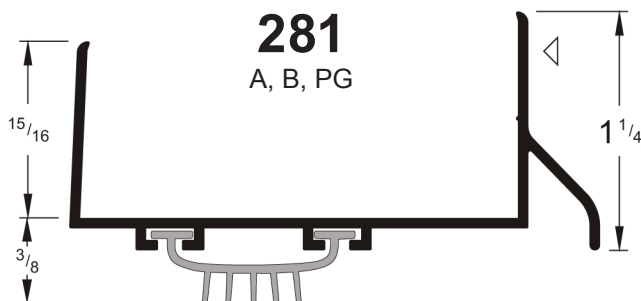
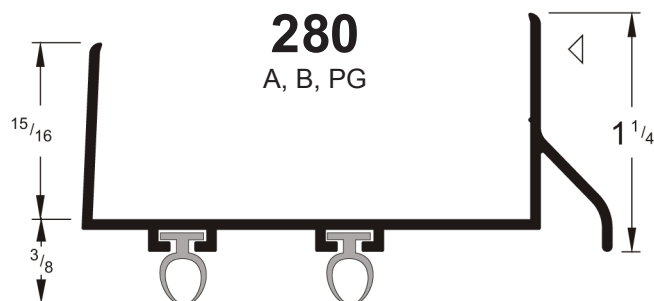




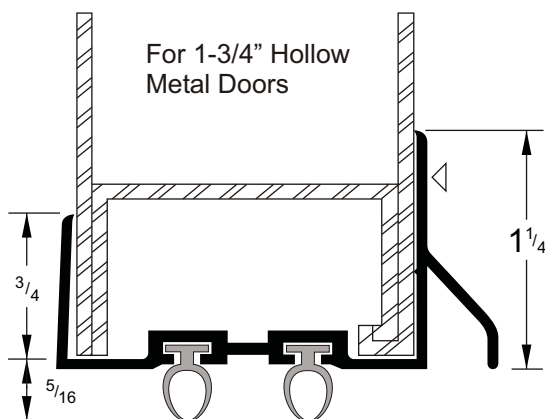
### UNIVERSAL DOOR BOTTOMS



### FOR 2-1/4" DOORS

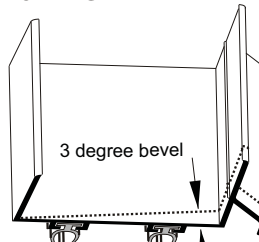


### 255 A, B



### DOOR BOTTOM FAB OPTIONS

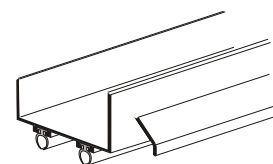
#### 3 DEGREE BEVEL



Order: Specify "inswing" or "outswing" door.

Bevel door bottom to fit bevel of door.

#### STOP CUT



Order: Specify size of stop cut: 1/2", 5/8" or 3/4".

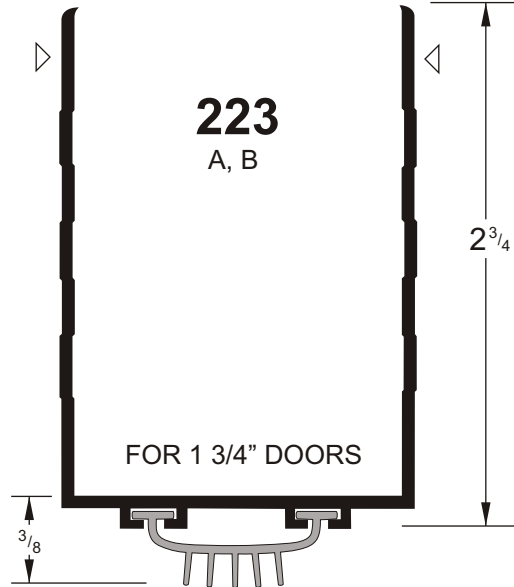
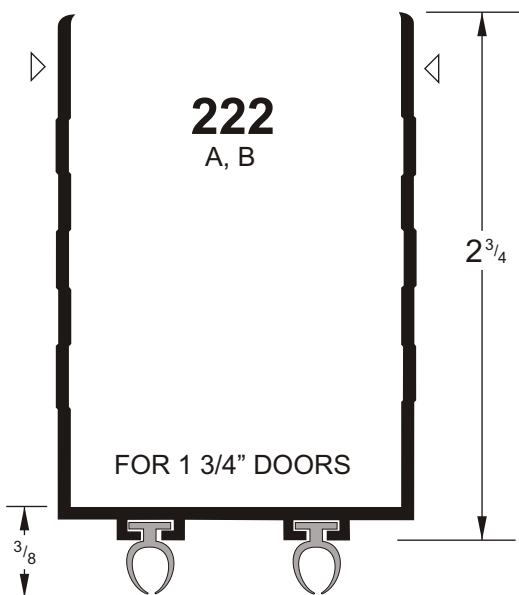
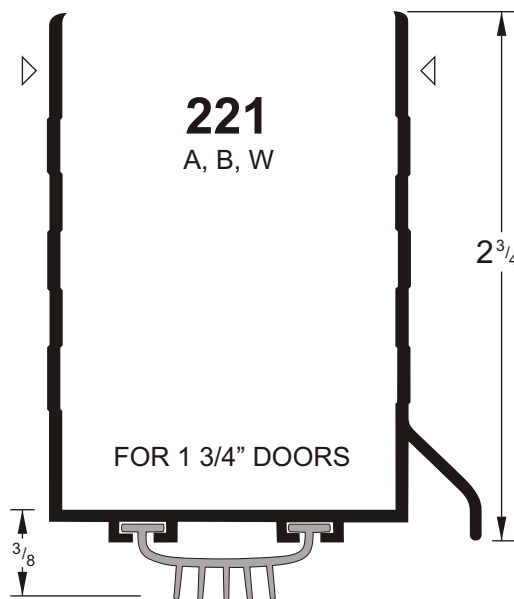
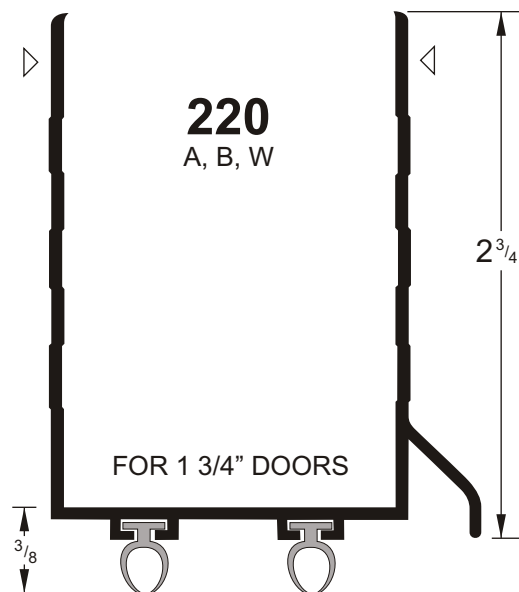
Removes metal to prevent interference with door stop.

Self-drilling sheet metal screws are provided.

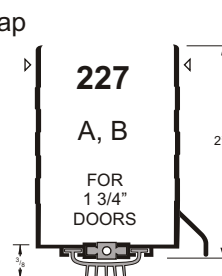
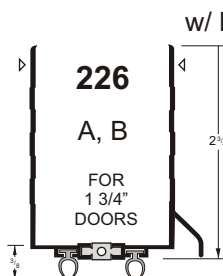
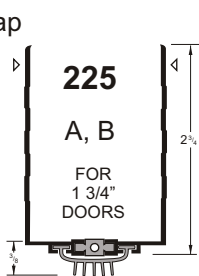
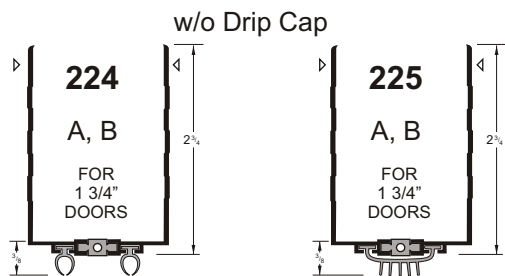
THESE DRAWINGS NOT TO SCALE

▽ Indicates location of standard fastener hole.

## COMBINATION KICK PLATE AND DOOR BOTTOM



## THERMAL BREAK DOOR BOTTOMS



THESE DRAWINGS NOT TO SCALE

**Features:**  
Combination Door Bottom & Kick Plate with a drip cap.

**Thermal Break** is rigid PVC.

Slotted holes on both sides.

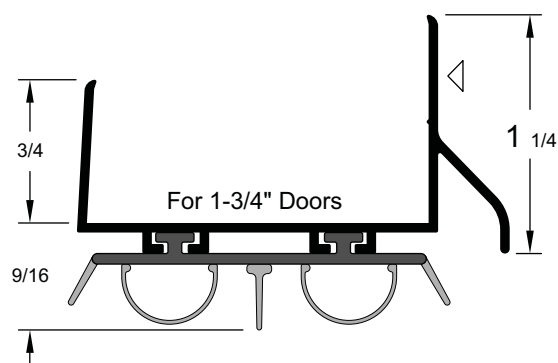
▽ Indicates location of standard fastener hole.

**PRODUCTS ARE SHOWN ACTUAL SIZE  
(EXCEPT AS NOTED)**

**COMBO ALUMINUM PRODUCTS, EL CAJON, CA**  
Tel (619) 447-9200 (800) 457-7500 Fax (619) 442-4558

**249**

A, B, PG, W



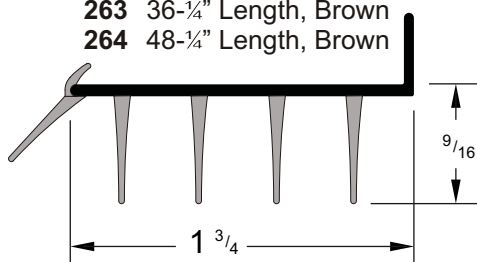
**PVC Seal will fit:**  
All 1 $\frac{3}{4}$ " Door Bottoms  
except part #255

### PVC DOOR BOTTOM (Dual Durometer)

For 1-3/4" door - attaches with staples, nails, or screws. (Not furnished)

**263**

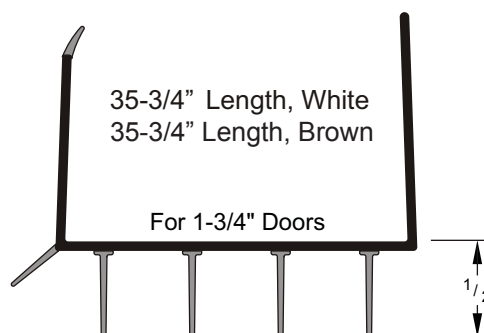
263 36- $\frac{1}{4}$ " Length, Brown  
264 48- $\frac{1}{4}$ " Length, Brown



**273**  
**274**

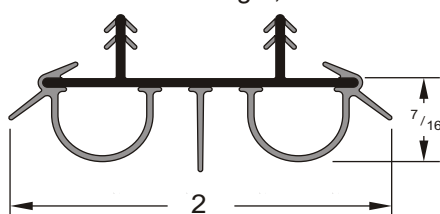
35-3/4" Length, White  
35-3/4" Length, Brown

For 1-3/4" Doors



**267**

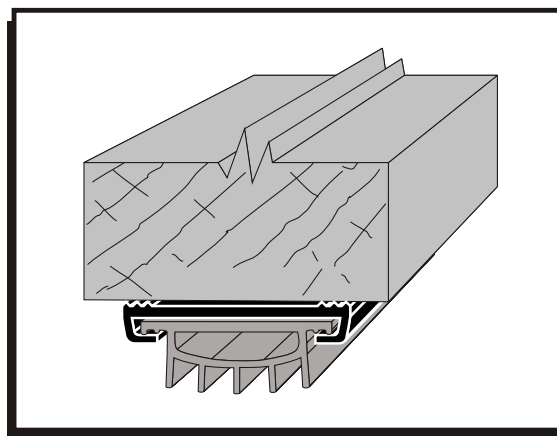
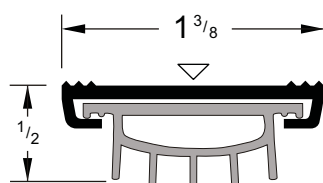
267 31-3/4" Length, Brown  
268 35-3/4" Length, Brown



### CONCEALED DOOR BOTTOMS

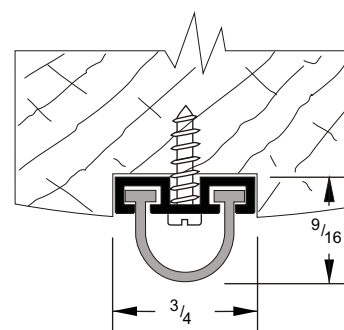
**205**

A, B (Cut Exact)



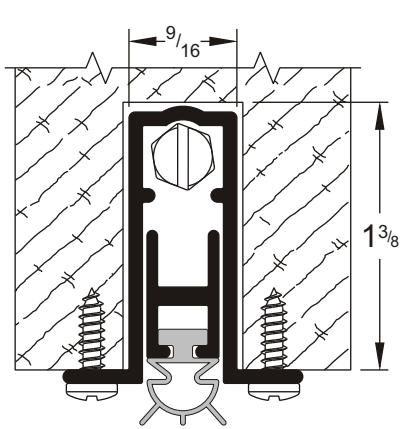
**213**

A, B (Cut Exact)  
Mortise installation shown.  
Seal is TPR Rubber.



▽ Indicates location of standard fastener hole.

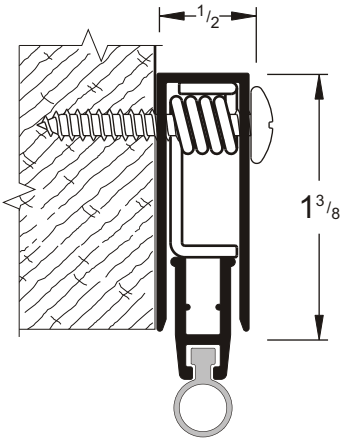
**AUTOMATIC DOOR BOTTOMS**



**Mortise type** automatic door bottom, vinyl seal, 3/4" max. drop.

<b>240</b>	24"
<b>241</b>	28"
<b>242</b>	30"
<b>243</b>	32"
<b>244</b>	36"
<b>245</b>	42"
<b>246</b>	48"

Finish:  
**A** Aluminum Mill Finish



**Surface mount** automatic door bottom, pliable seal, 1/2" max. drop.

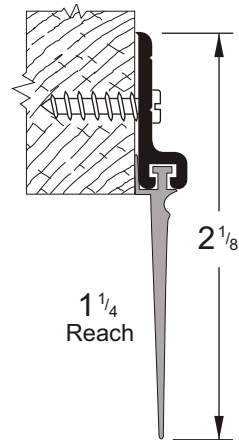
<b>232</b>	30" - 32"
<b>233</b>	34" - 36"
<b>234</b>	40" - 42"

Finish:  
**B** Bronze Anodize  
**S** Satin Anodize

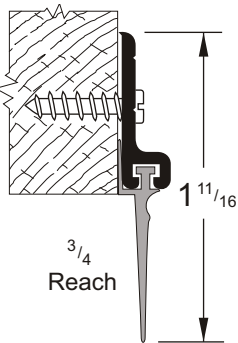
**CLOSURE STRIPS**

Closure strips are cut 1/4" over. Slotted holes for close adjustment. SMS 6 X 5/8" phillips-panhead screws are provided.

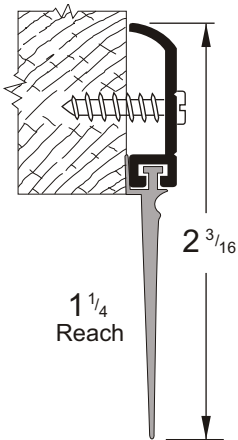
**208**  
A, B, PG, W



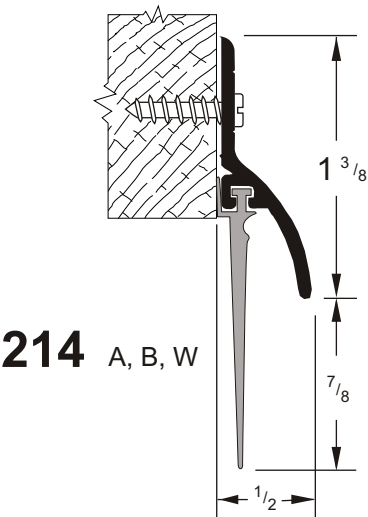
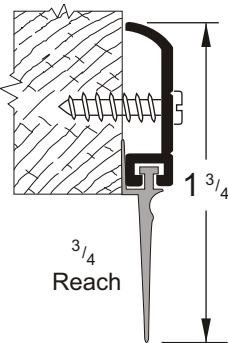
**209**  
A, B, PG, W



**210**  
A, B, W

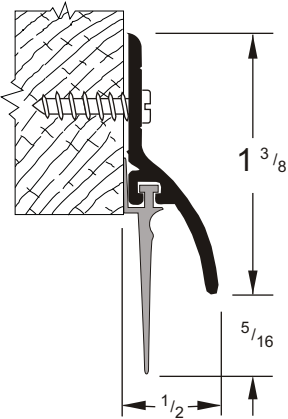


**211**  
A, B, W



**214** A, B, W

**215** A, B, W



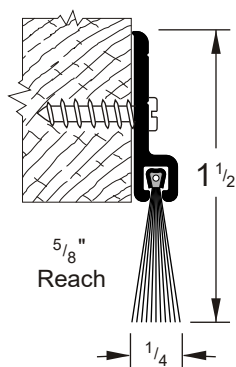
**217** A, B, W



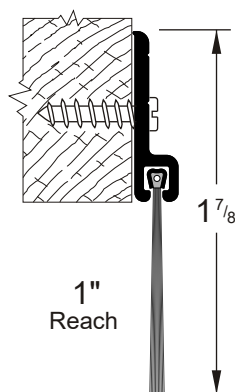
▽ Indicates location of standard fastener hole.



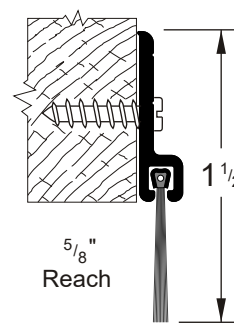
**307** A, B



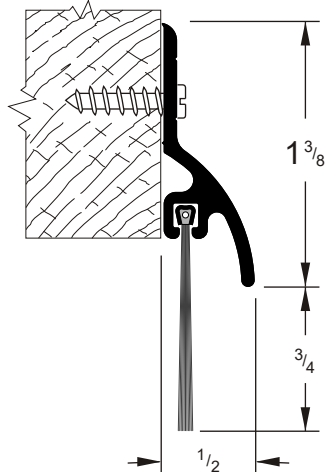
**308** A, B



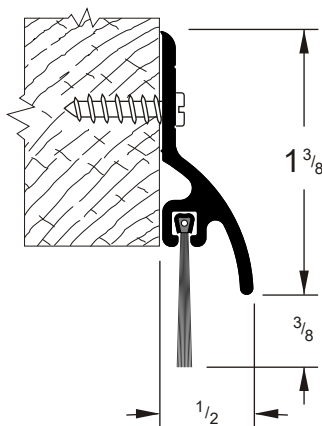
**309** A, B



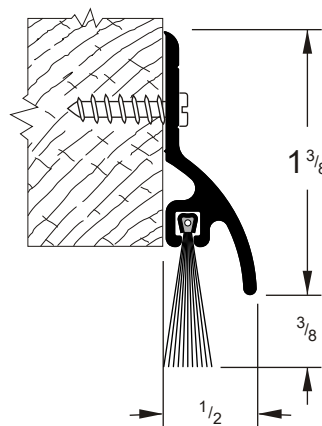
**314** A, B



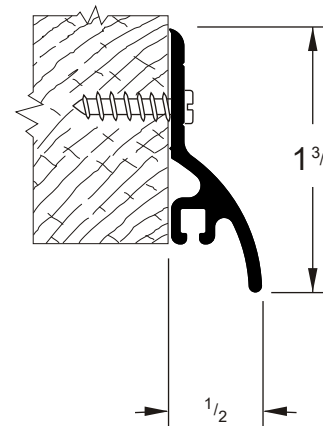
**315** A, B



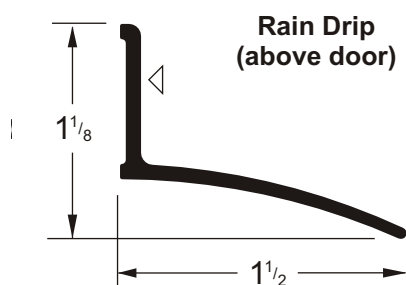
**316** A, B



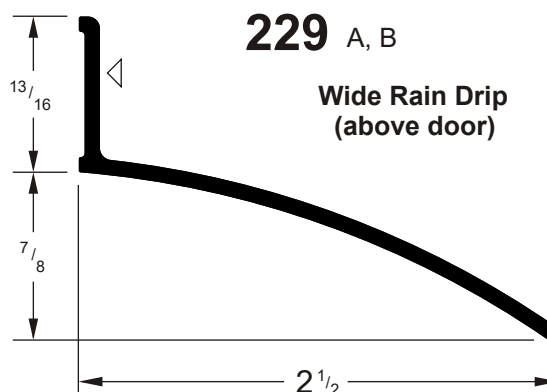
**317** A, B



**219** A, B, W



**229** A, B



▽ Indicates location of standard fastener hole.

## Section 2 COMBINATION SILL-THRESHOLDS, the “COMBO SILL”

Standard Sizes: 30", 32", 36", 42", 48", 60", 64", 72" (**cut exact**).

**Other lengths are available.**

(Extra cost over 73")

**Drop In Sills are cut to exact length ordered.**

Center holes are countersunk, 1 per door for routed nail-on sill; or, approximately 1 per 12" for drop-in sill. Sills can be ordered **without** center holes, if desired.

Special fabrications to ease installation with ordering information are described on page 14:

Rout for nail-on jambs (3/8" - 1-1/4")  
Mullion rout (MR)  
Rout for metal/mortised frame (RMF)  
Sill trim notch (SN)  
Nail-on rabbet

#10 phillips flathead screws are included, length per industry standard.

All Combo Sills can be packaged with any door bottom to create a packaged set.

Sill Covers and Sill Risers are on page 15.

Special anchors for concrete are available at extra cost, see page 34.

End Holes are provided with sills routed for nail-on jambs.

## SILL-THRESHOLD SELECTION GUIDE

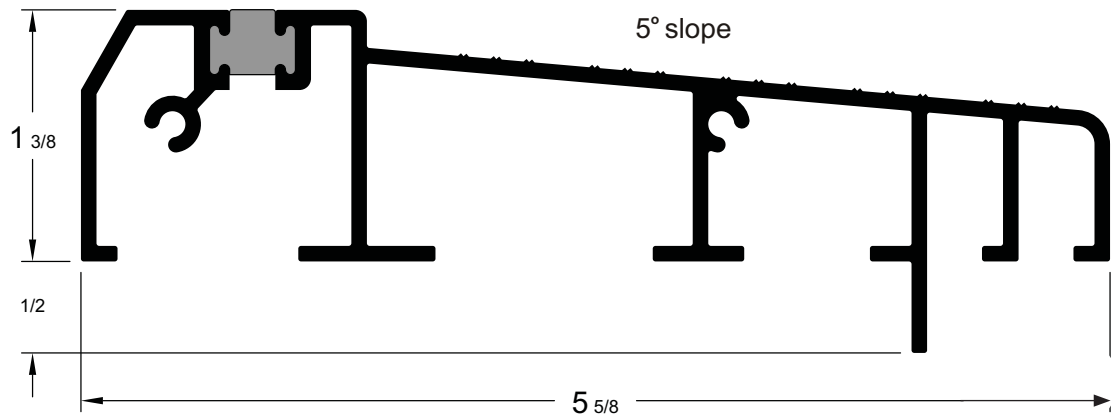
PRODUCT #	WIDTH	HEIGHT	SLOPE	JAMB WIDTH
<b>542</b>	<b>4<sup>9</sup>/<sub>16</sub>"</b>	<b>1<sup>1</sup>/<sub>8</sub>"</b>	<b>6°</b>	<b>4<sup>1</sup>/<sub>8</sub> to 5</b>
<b>650</b>	<b>5<sup>3</sup>/<sub>4</sub>"</b>	<b>1<sup>1</sup>/<sub>8</sub>"</b>	<b>9°</b>	<b>4<sup>3</sup>/<sub>8</sub> to 5<sup>1</sup>/<sub>2</sub></b>
<b>569</b>	<b>5<sup>5</sup>/<sub>8</sub>"</b>	<b>1<sup>1</sup>/<sub>4</sub>"</b>	<b>6°</b>	<b>4<sup>3</sup>/<sub>8</sub> to 5<sup>1</sup>/<sub>2</sub></b>
<b>775</b>	<b>7<sup>3</sup>/<sub>4</sub>"</b>	<b>1<sup>1</sup>/<sub>4</sub>"</b>	<b>9°</b>	<b>6 to 7<sup>1</sup>/<sub>8</sub></b>
<b>520</b>	<b>5<sup>5</sup>/<sub>8</sub>"</b>	<b>1<sup>3</sup>/<sub>8</sub>"</b>	<b>5°</b>	<b>4<sup>3</sup>/<sub>8</sub> to 5<sup>1</sup>/<sub>2</sub></b>
<b>522</b>	<b>7<sup>3</sup>/<sub>4</sub>"</b>	<b>1<sup>3</sup>/<sub>8</sub>"</b>	<b>5°</b>	<b>6 to 7<sup>1</sup>/<sub>8</sub></b>
<b>585</b>	<b>5<sup>1</sup>/<sub>8</sub>"</b>	<b>1<sup>3</sup>/<sub>8</sub>"</b>	<b>9°</b>	<b>4 to 4<sup>7</sup>/<sub>8</sub></b>
<b>680</b>	<b>6<sup>13</sup>/<sub>16</sub>"</b>	<b>1<sup>3</sup>/<sub>8</sub>"</b>	<b>9°</b>	<b>5<sup>1</sup>/<sub>2</sub> to 6<sup>1</sup>/<sub>2</sub></b>

**NOTE:** Each profile also available for continuous level floor.

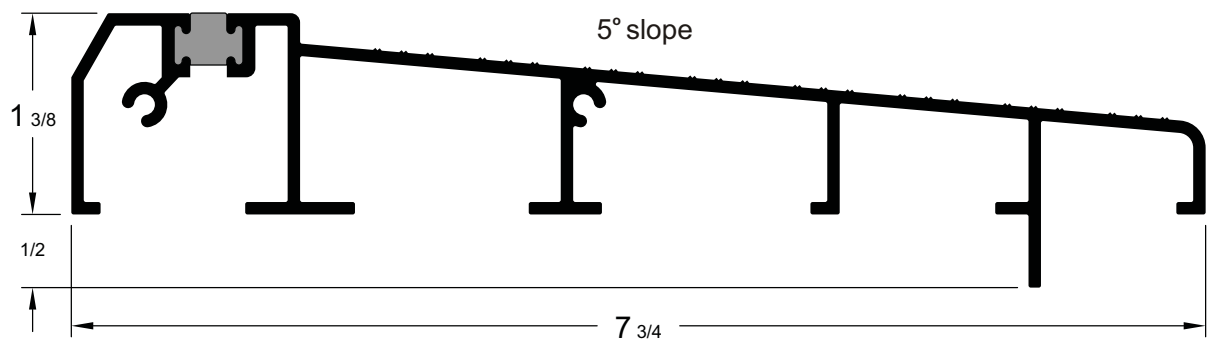
## THERMAL-BREAK THRESHOLD

**Thermal-Break Threshold for Modular Homes (#520 & #522).** Heavy wall thickness for strength and rigidity. Screw-bosses for attaching to frame (fasteners not included). End Seals available.

**520 A**



**522 A**



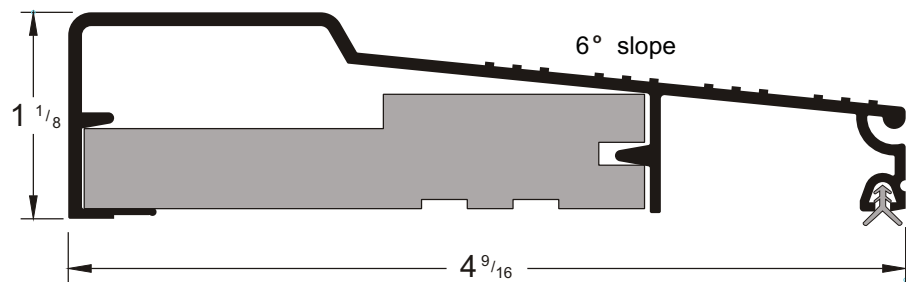
THIS DRAWING NOT TO SCALE.

## INSERT SILL-THRESHOLD

COMPOSITE & WOOD SUBSTRATE AVAILABLE

**542 A, B**

For jambs:  
4-1/8" to 5" wide.  
For doors 1-3/4" and over  
**Will accept extenders  
834 and 836  
shown on page 27.**



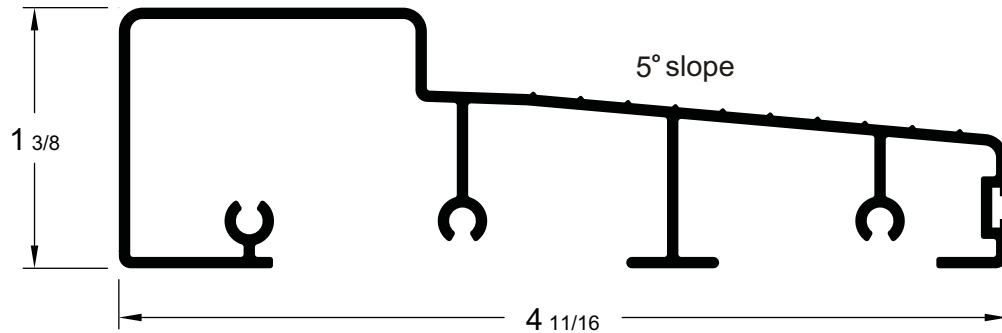
Full length wood or composite insert for glue down or nail-on applications

▽ Indicates location of standard fastener hole.

**“COMBO SILLS”**

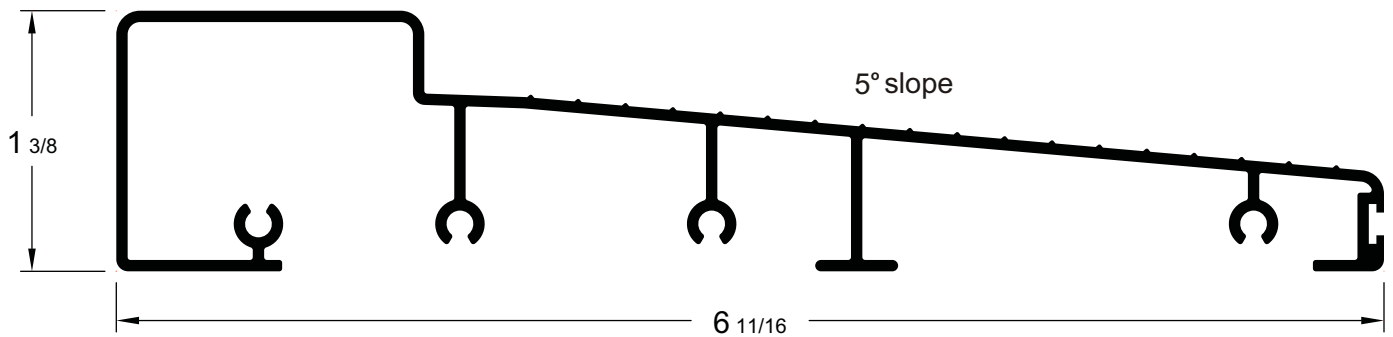
**564 A**

For jambs:  
4-1/8" to 5" wide.



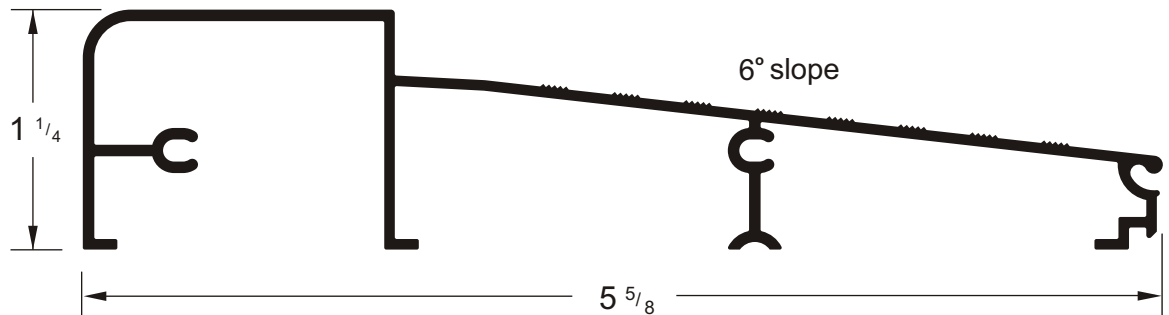
**566 A**

For jambs:  
5-1/2" to 6-1/2" wide.



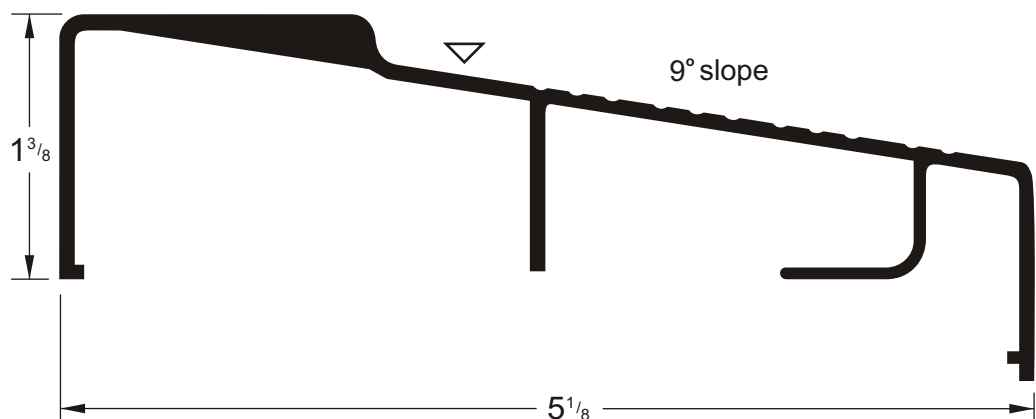
**569 B**

For jambs:  
4-3/8" to 5-1/2" wide.



**585 A, B**

For jambs:  
4" to 4-7/8" wide;  
For doors 1-3/4" and  
over. 10 x 2-1/2" phillips  
flathead screws  
are included.

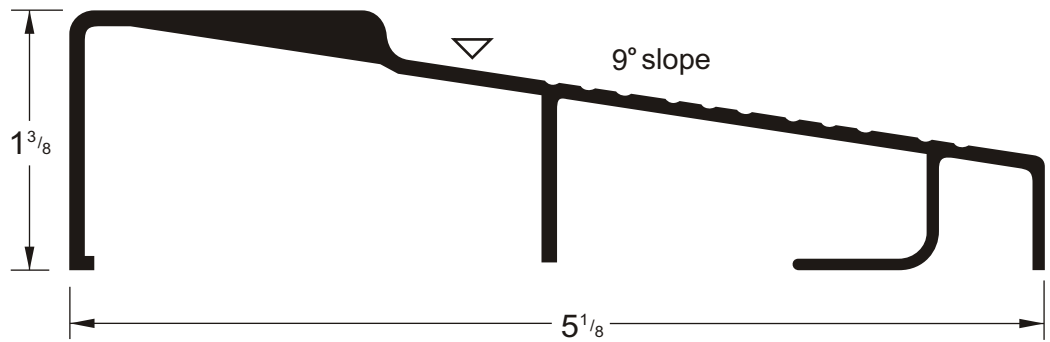


△ Indicates location of standard fastener hole.



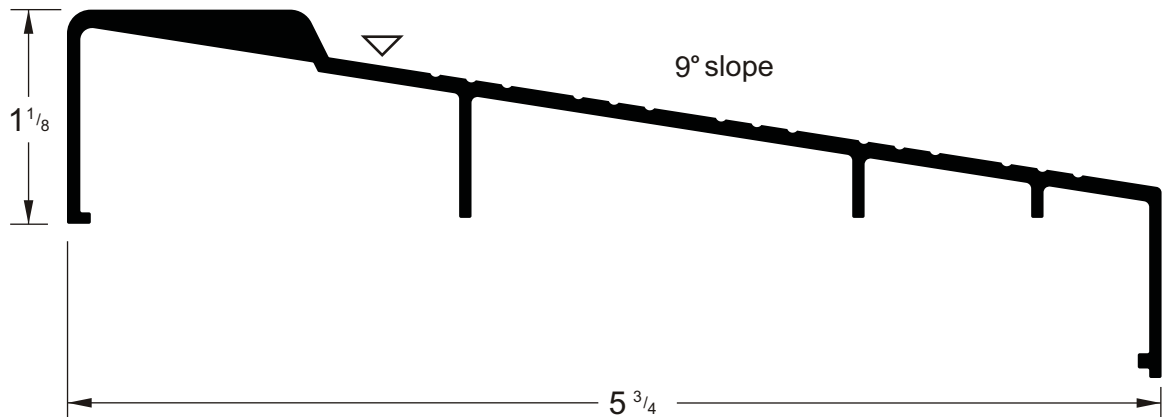
## 586 A, B

For jambs:  
4" to 4-7/8" wide &  
continuous level floor.  
For doors 1-3/4" and  
over. 10 x 2-1/2" phillips  
flathead screws  
are included.



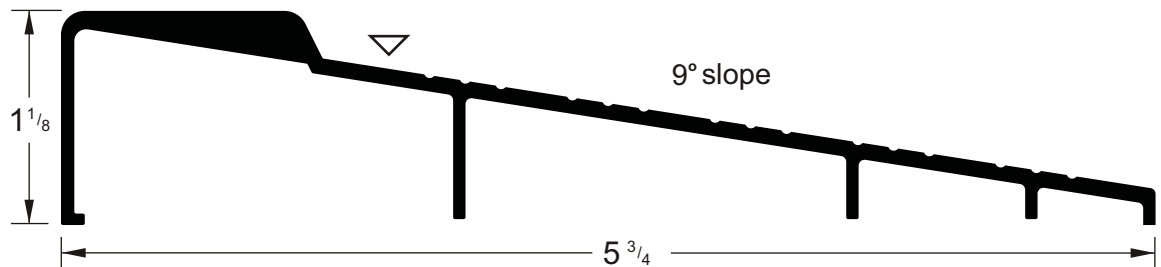
## 650 A, B

For jambs:  
4-3/8" to 5-1/2"  
wide. 10 X 2"  
phillips flathead  
screws are  
included.



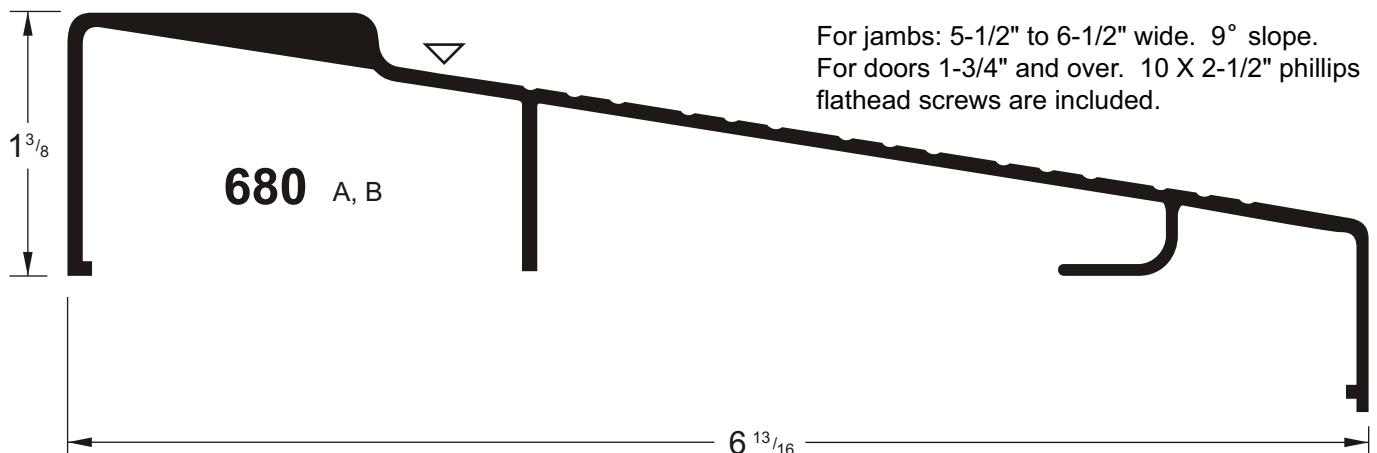
## 651 A, B

For jambs:  
4-3/8" to 5-1/2" wide  
& continuous level  
floor. 10 X 2"  
phillips flathead  
screws are included.

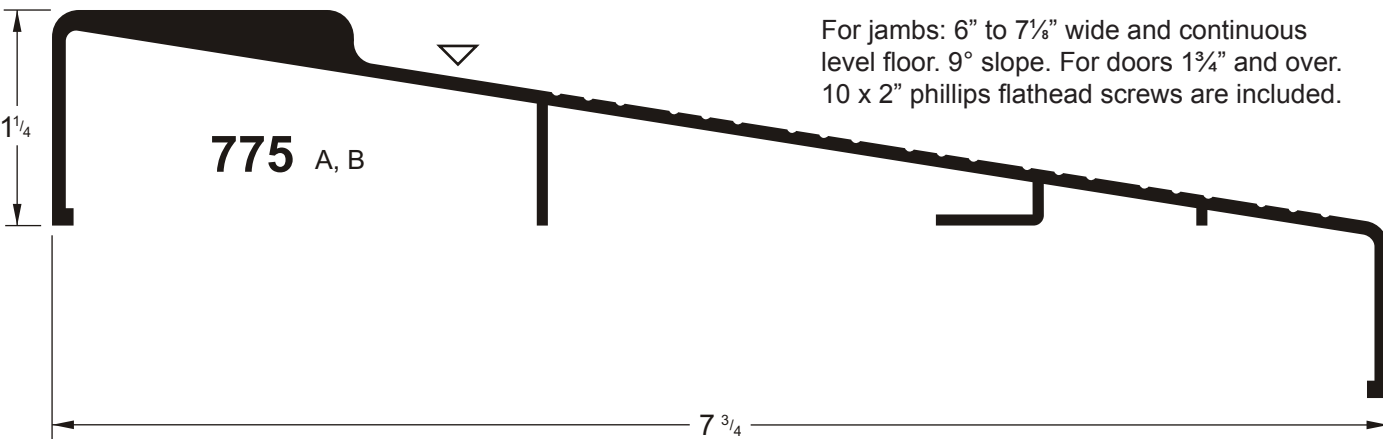
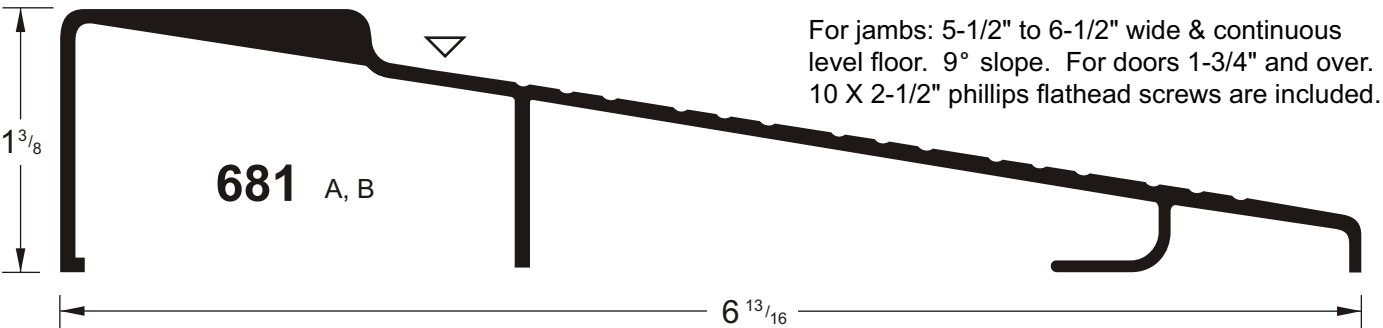


## 680 A, B

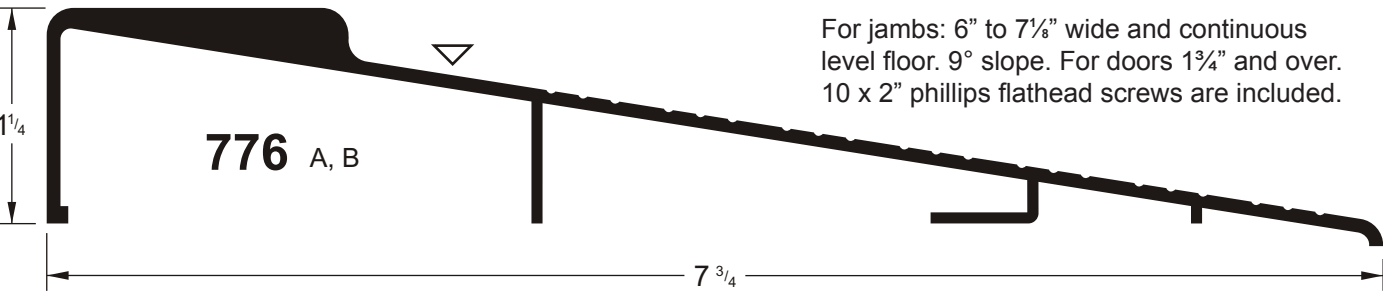
For jambs: 5-1/2" to 6-1/2" wide. 9° slope.  
For doors 1-3/4" and over. 10 X 2-1/2" phillips  
flathead screws are included.



▽ Indicates location of standard fastener hole.



THIS DRAWING NOT TO SCALE



THIS DRAWING NOT TO SCALE

▽ Indicates location of standard fastener hole.

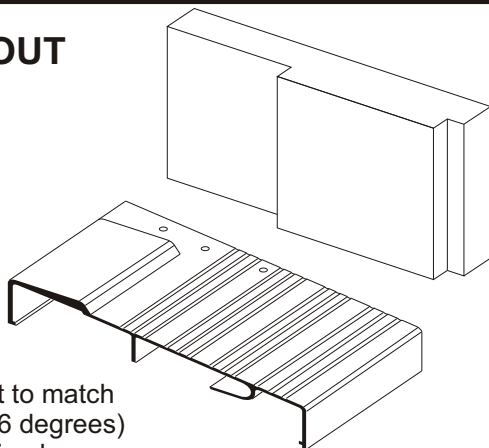
## Section 3 FABRICATION OPTIONS for “COMBO SILLS”

The Combo Sill, a combination sill and threshold, and other threshold products can be customized for a variety of applications. The most commonly used fabrications are illustrated below, and include the

appropriate **ordering information**. Center holes are countersunk. Sills can be ordered **without** center holes, if required. Illustrations are not to scale. See price list for fabrication cost.

### NAIL-ON ROUT

For wood door frames, using nails or staples to attach jambs to the Combo Sills (nail holes provided).



#### Installation:

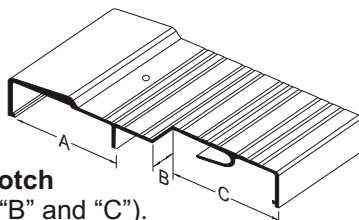
Jamb must be cut to match slope of sill. (Eg. 6 degrees)  
Cut left and right jamb.

**Order:** Door opening plus rout size.  
**Rout Sizes:** R3 = 3/8", R4 = 1/2", R6 = 3/4",  
R7 = 7/8", R8 = 1", R9 = 1-1/8",  
R10 = 1-1/4"

**Holes:** One (1) center hole per door.  
Three (3) nail end holes.

### SILL NOTCH (SN)

**SN** is a milling operation to fit the sill around the frame or trim molding.

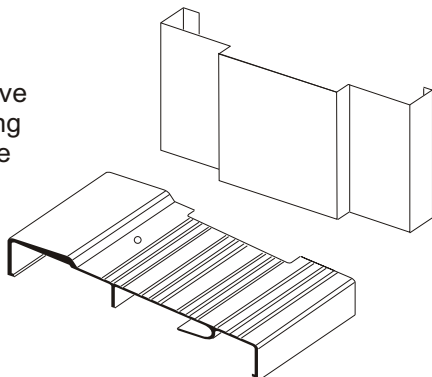


**Order:** Dimensions of notch required (ie: "A", "B" and "C").

**Holes:** Three (3) center holes per door.

### ROUT FOR METAL FRAMES (RMF)

**RMF** is a milling operation to remove aluminum, enabling the threshold to be "dropped" into place.

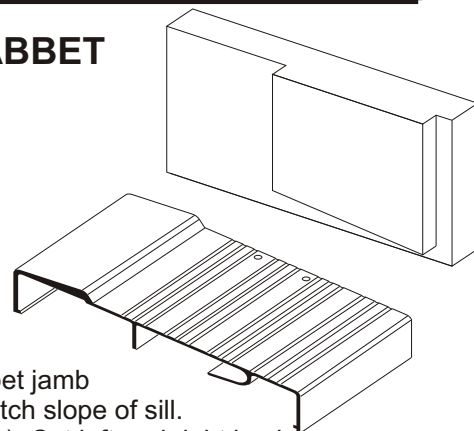


**Order:** Exact length required. Specify stop size, and "inswing" or "outswing" door.

**Holes:** Three (3) center holes per door.

### NAIL-ON RABBET

For wood door frames, using nails or staples to attach door jambs to the Combo Sills (nail holes provided).



#### Installation:

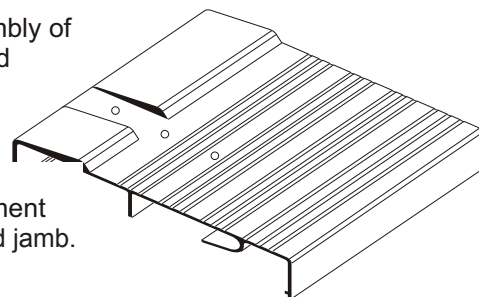
Door stop on rabbet jamb must be cut to match slope of sill.  
(5, 6, or 9 degrees). Cut left and right jamb.

**Order:** Exact length required.  
**Holes:** One (1) center hole per door.  
Two (2) end holes. Specify location.

### MULLION ROUT (MR)

For shop assembly of door, frame, and lites prior to installation on the job.

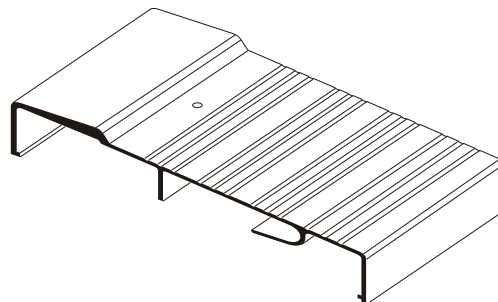
Ensures most positive attachment between sill and jamb.



**Order:** Exact length required and placement of rout from the outside looking in.

**Holes:** One (1) center hole per door.

### DROP IN STANDARD (NO FAB)



**Order:** Exact Sill length.

**Holes:** Three (3) center holes per door.

Section **4 ACCESSORIES**

**Sill Covers:** Standard Sizes - 30", 32", 36", 42", 48" (**cut 3/8" over**); 60", 64", 72", (cut 1" over).  
**Other lengths are available and are cut exact as ordered.** (Extra cost over 73")  
No holes or fasteners are provided.

**Sill Risers:** Sill risers are **cut exact**. Center holes are countersunk.  
#10 sheet metal screws are provided.

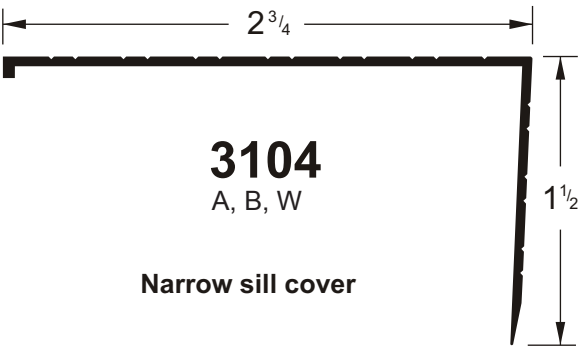
**SILL COVERS**

Used to extend COMBO sills, in order to cover exterior foundation beyond threshold.

**3109**  
A, B

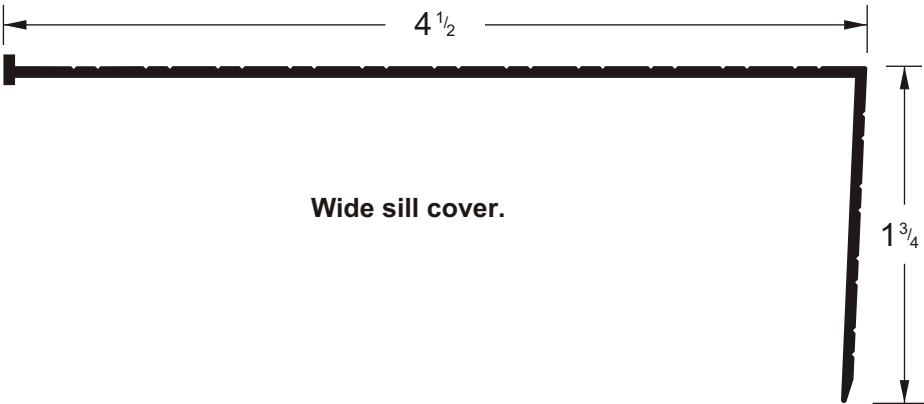


Level sill cover



Narrow sill cover

**3116**  
A, B, PG, W



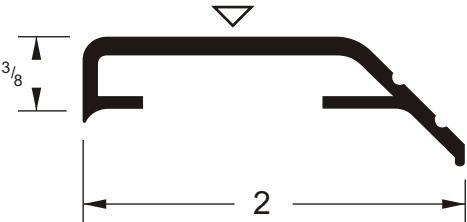
Wide sill cover.

**SILL RISER**

Used to increase the height of Combo Sill-Thresholds, to accommodate a change in floor covering thickness. Will fit most Combo Sill-Thresholds, pages 10-13. Cut Exact.

**558**  
A, B, W

10 x 1-1/2"  
Phillips flathead  
screws are  
included.



△ Indicates location of standard fastener hole.



## Section 5 RESIDENTIAL THRESHOLDS

Thresholds are extruded aluminum.

Standard Sizes (Product is cut oversize to allow "cutting in"):  
30", 32", 36", 42", 48" (**cut 3/8" over**); 60", 64", 72" (**cut 1" over**).

**Other lengths are available and are cut exact.** (Extra cost over 73")

Thresholds routed for metal frames are cut exact. Specify special

requirements at time of ordering.

Center holes are counter-sunk. #10 phillips flathead screws are included.

Special anchors may be required on concrete slab construction & are available at extra cost, see page 34.

Above specifications do not apply to Hardwood Thresholds and Water Returns, page 18.

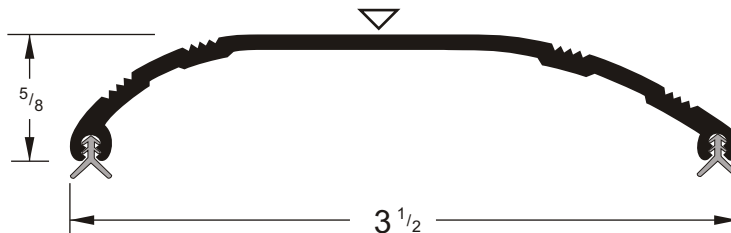
Sealing material, both moisture barrier and door seal is made from virgin, flexible extruded vinyl and exceeds requirements specified in commercial standard CS 230-60. Vinyl color is black.

All Combo Thresholds can be packaged with any door bottom to create a packaged set. See pages 3 - 6 for Door Bottom selection.

### 3007

A, B

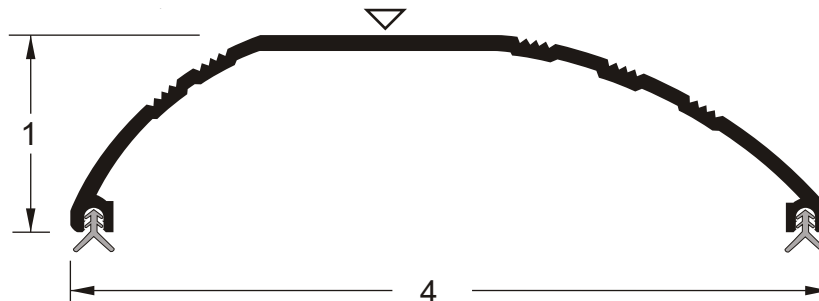
Low rug threshold with vinyl moisture barrier. 10 x 1-1/2" phillips flathead screws are included.



### 3008

A, B

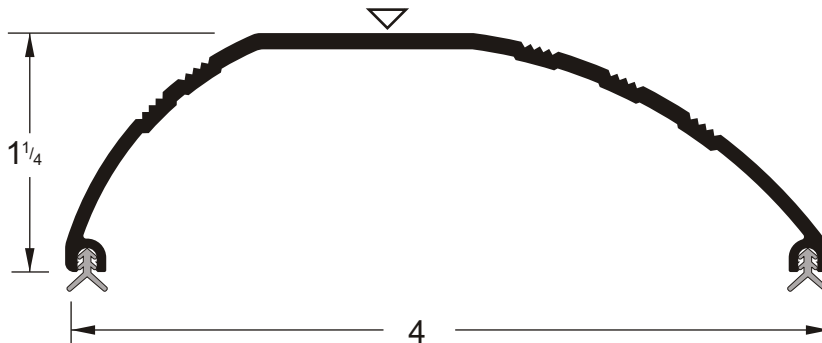
High rug threshold with vinyl moisture barrier. 10 x 2" phillips flathead screws are included.



### 3017

A, B

Extra high rug threshold with vinyl moisture barrier. 10 x 2" phillips flathead screws are included.

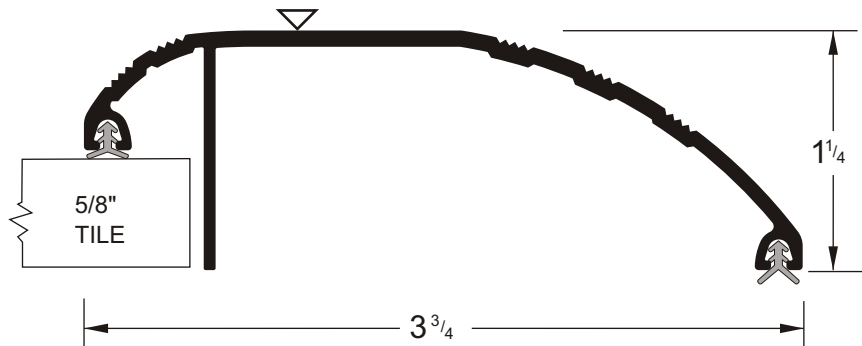


▽ Indicates location of standard fastener hole.

THRESHOLDS FOR TILE ENTRY

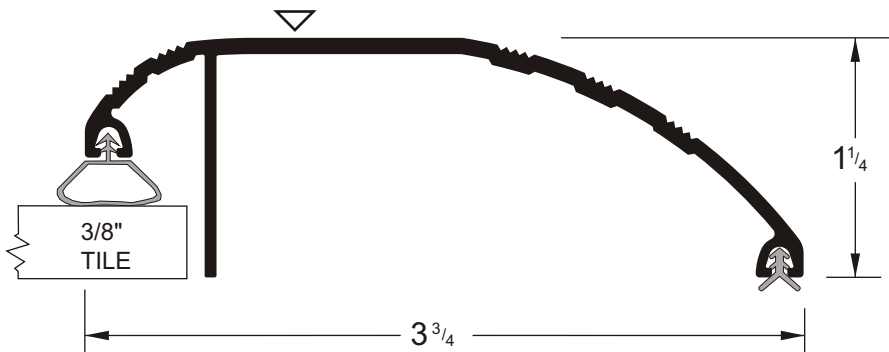
304  
A, B

Designed specifically for 5/8" tile entry. Moisture barrier seals are made from virgin, flexible extruded vinyl. 10 x 2" phillips flathead screws are included.



305  
A, B

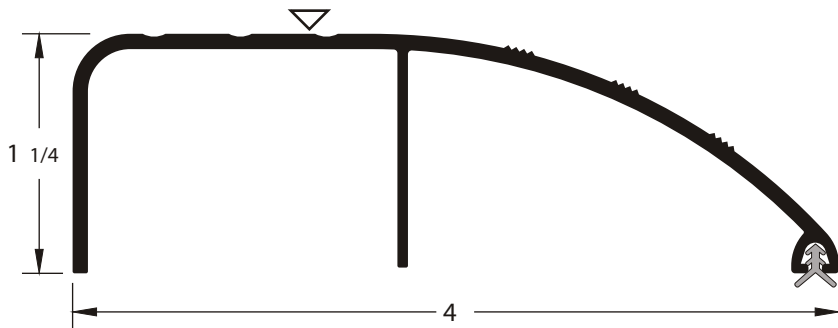
Designed specifically for 3/8" tile entry. Moisture barrier seals are made from virgin, flexible extruded vinyl. 10 x 2" phillips flathead screws are included.



SQUAREBACK THRESHOLD

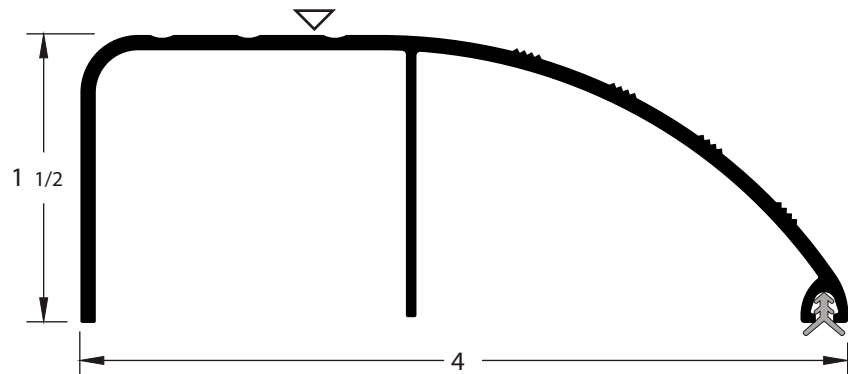
332  
A, B

Squareback threshold for butting up to floor covering. Moisture barrier seal is made from virgin, flexible extruded vinyl. 10 x 2" phillips flathead screws are included.



334  
A, B

Squareback threshold for butting up to floor covering. Moisture barrier seal is made from virgin, flexible extruded vinyl. 10 x 2-1/2" phillips flathead screws are included.



▽ Indicates location of standard fastener hole.

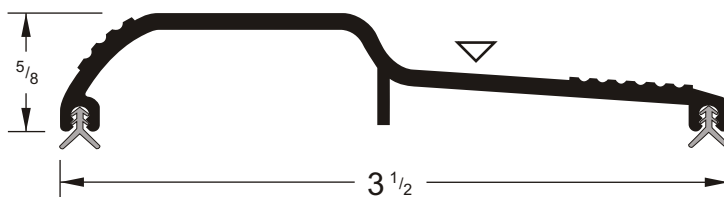
PRODUCTS ARE SHOWN ACTUAL SIZE  
(EXCEPT AS NOTED)

COMBO ALUMINUM PRODUCTS, EL CAJON, CA  
Tel (619) 447-9200 (800) 457-7500 Fax (619) 442-4558

## 300

A, B

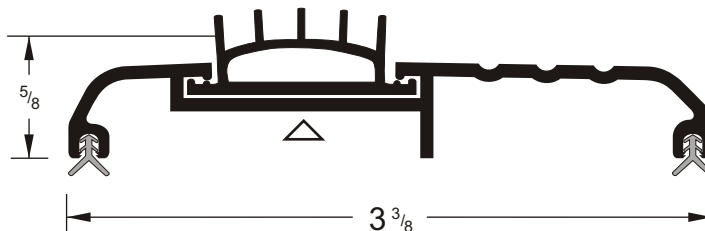
Low rug, contemporary design with water dam and vinyl moisture barrier. Center leg for extra support. 10 x 1½" phillips flathead screws are included.



## 322

A, B

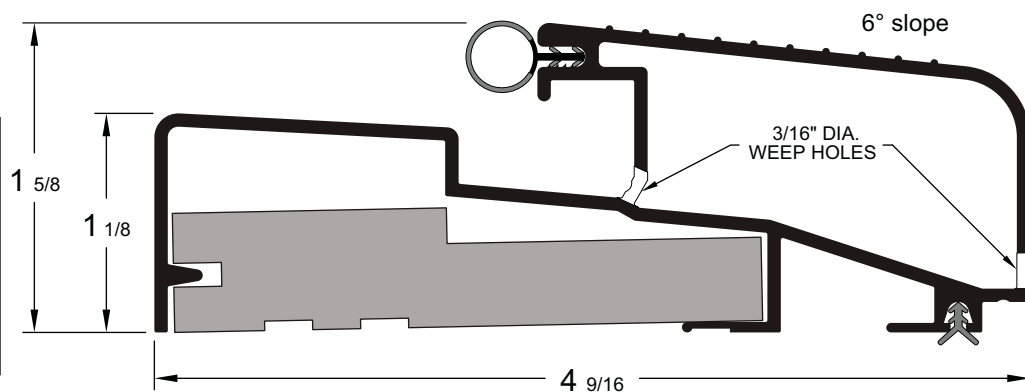
Low rug threshold with a smooth vinyl insert and vinyl moisture barrier. 10 x 1-1/2" phillips flathead screws are included.



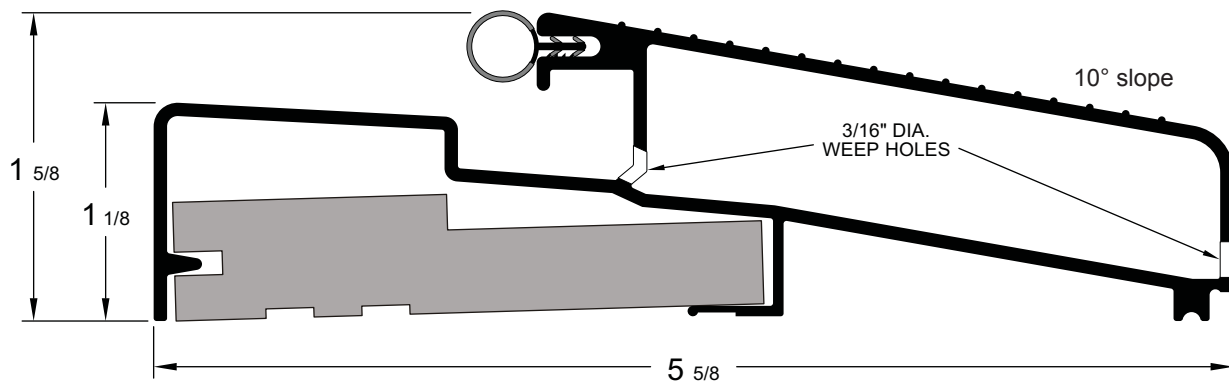
## 341 A, B

### WATER-RETURN IN SWING BUMPER

thresholds designed to prevent water penetration. Residual water is returned outside through weep holes. Full length composite insert for glue-down or nail-on applications. Cut exact. End seals included.



## 345 A, B

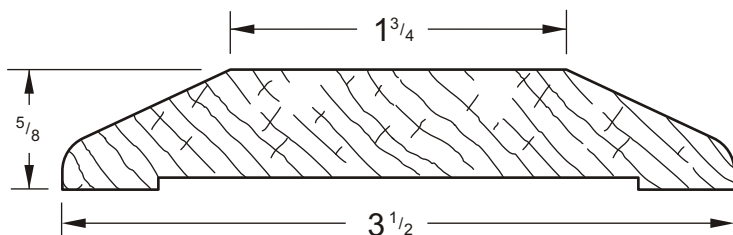


## HARDWOOD THRESHOLDS

## 355

37" Length

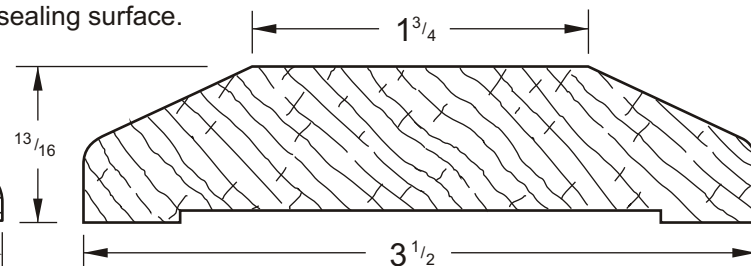
Low rug, Hardwood threshold.



## 360

37" Length

High rug, Hardwood threshold.  
Full 1-3/4" sealing surface.



▽ Indicates location of standard fastener hole.  
**PRODUCTS ARE SHOWN ACTUAL SIZE  
(EXCEPT AS NOTED)**

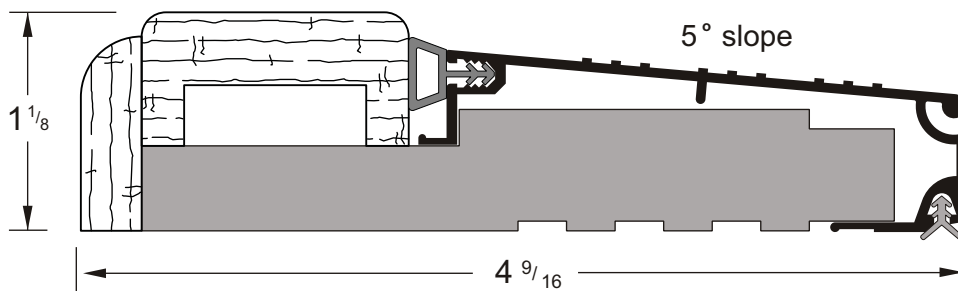
## Section 6 INSULATED SILL THRESHOLDS

### FIXED HARDWOOD THRESHOLDS

COMPOSITE OR WOOD SUBSTRATE AVAILABLE

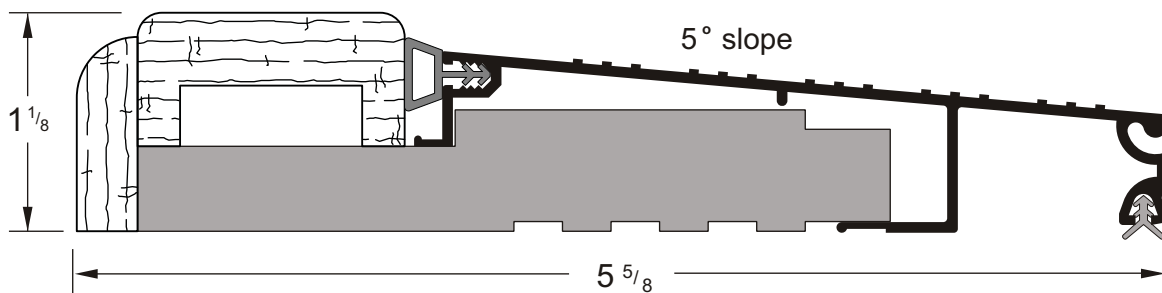
**820**

A, B, PG



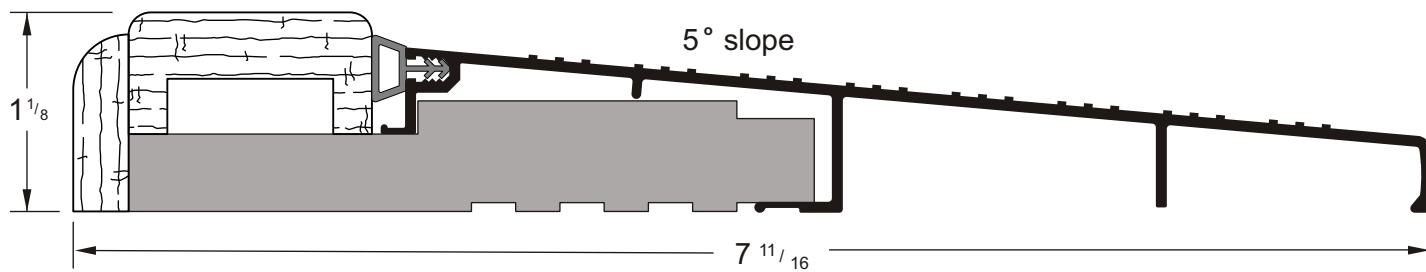
**822**

A, B



**823**

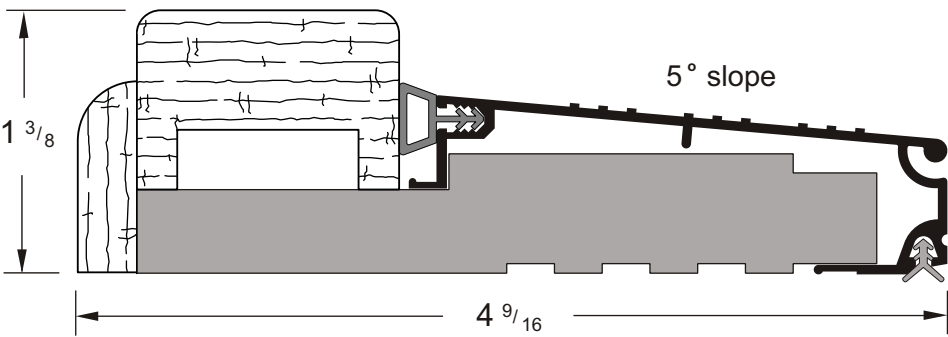
A, B



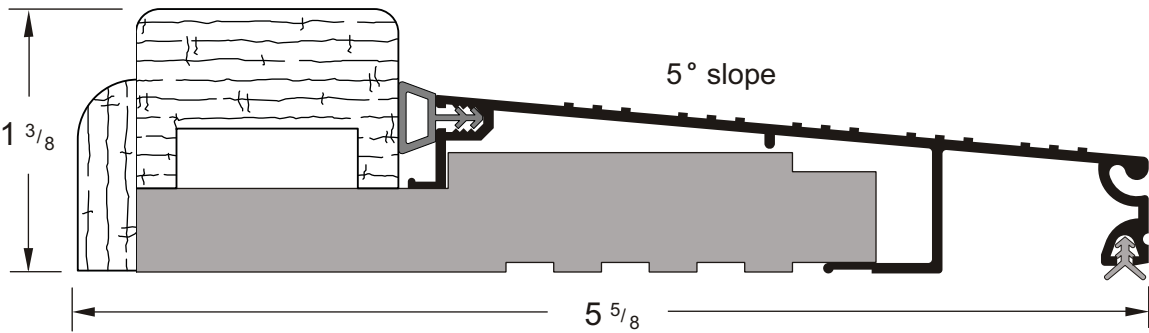
THIS DRAWING NOT TO SCALE

Available extenders shown on page 27.

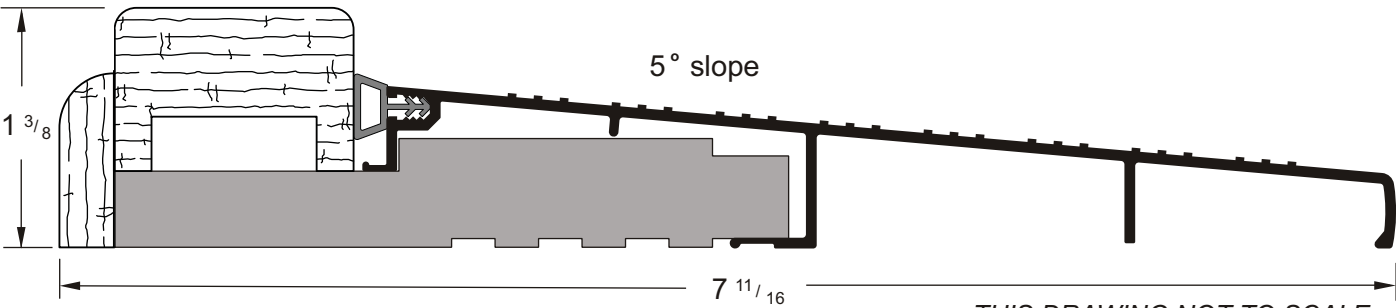
**841**  
A, B,



**842**  
A, B



**843**  
A, B



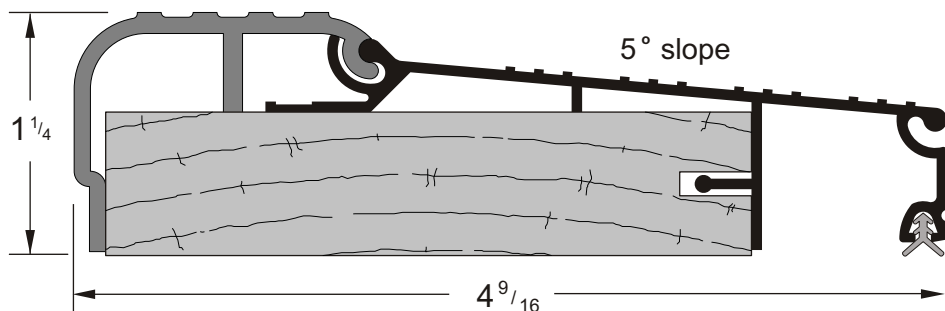
THIS DRAWING NOT TO SCALE.

Available extenders shown on page 27.

**FIXED ABS CAP**

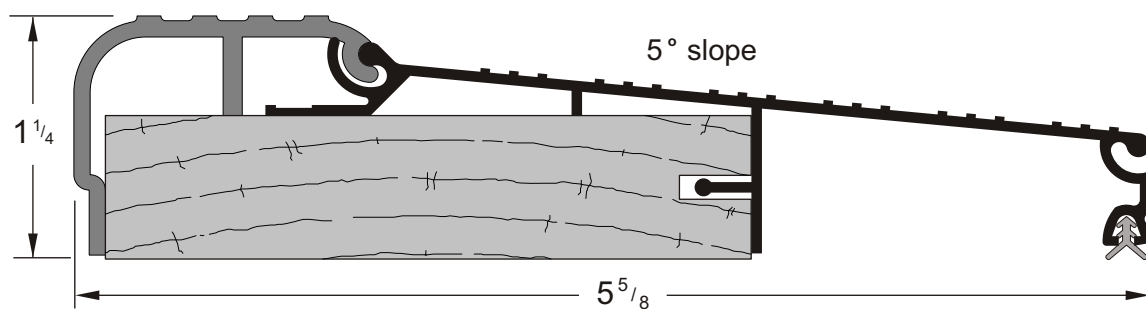
**850**

A, B



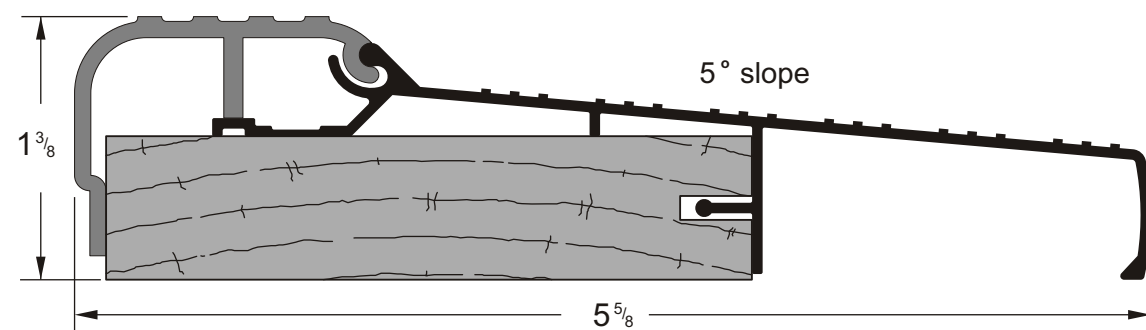
**852**

A, B



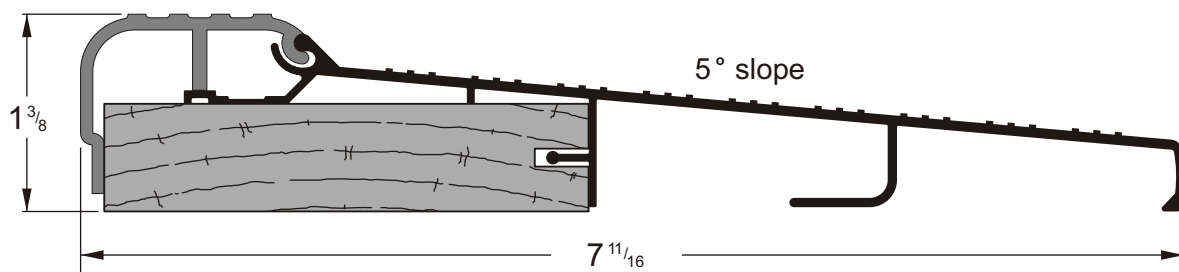
**854**

A, B



**855**

A, B



THIS DRAWING NOT TO SCALE.

Available extenders shown on page 27.

▽ Indicates location of standard fastener hole.



## ADJUSTABLE HARDWOOD THRESHOLDS

COMPOSITE & WOOD SUBSTRATE AVAILABLE

### Components:

**HARDWOOD TRIM** - Stapled, replaceable.

**HARDWOOD CAP** - Has maximum cross section (over 11/16") to resist bending and deflection. Adjustable from 1-1/8" to 1-3/8" in height or 1-3/8" to 1-5/8".

**FASTENERS** - color coated zinc plated steel fastener engages in zinc plated steel, rivet-type T-nut. T-nut is locked into substrate by a flaring operation.

**SANTOPRENE® By Monsanto** - dual durometer rubber seal retains memory for a better, longer lasting seal.

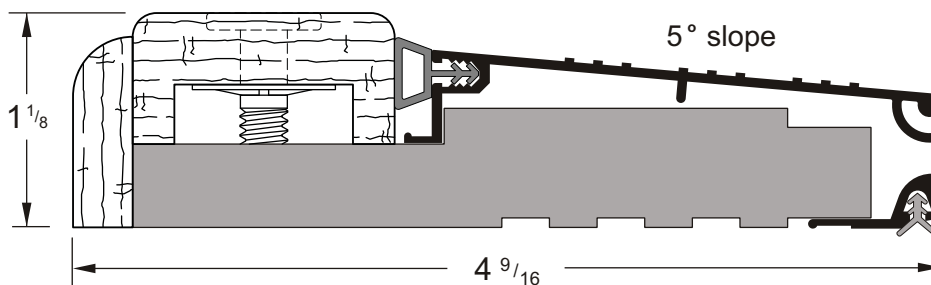
**LEG VINYL** - provides additional moisture barrier.

**SUBSTRATE** - Selected products use a dimensionally stable wood product or stable composite material product.

**SIZES** - Up to 144" length (1-1/8" high only).

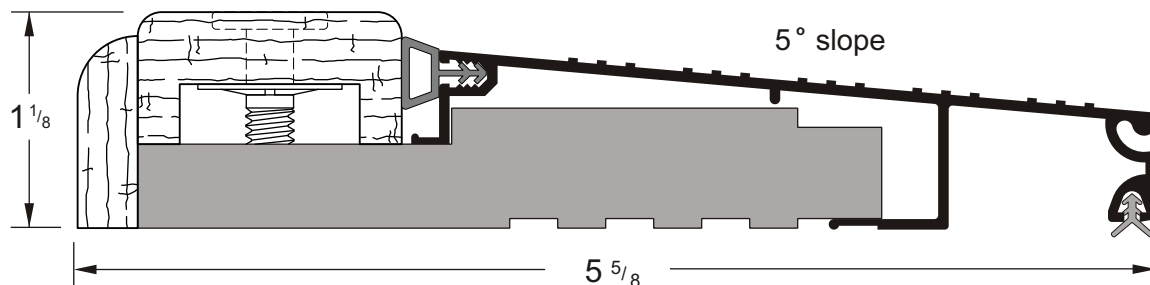
**830**

A, B, PG



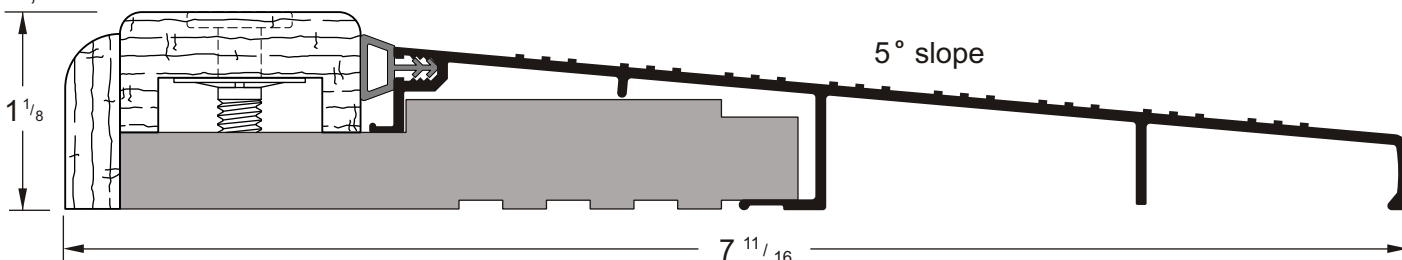
**835**

A, B



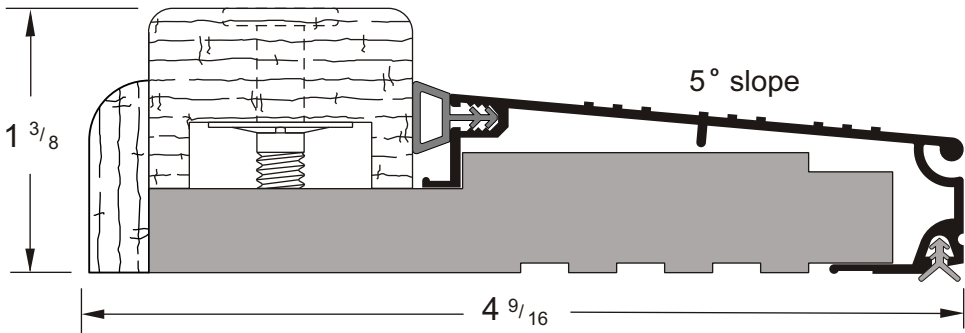
**839**

A, B

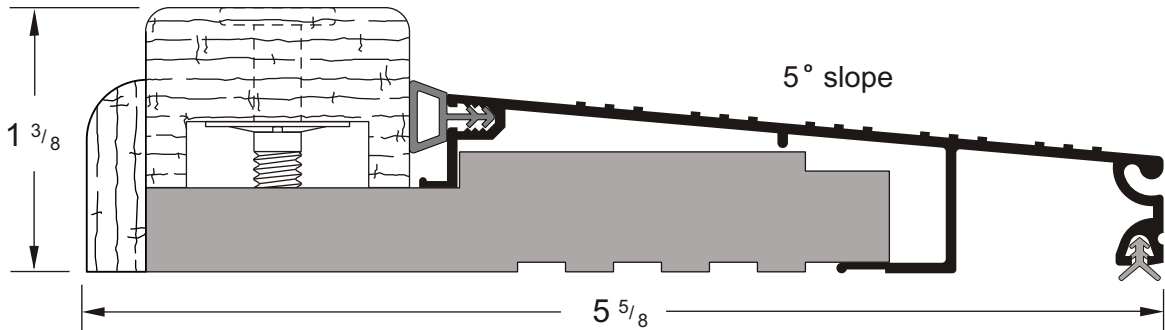


Available extenders shown on page 27. THIS DRAWING NOT TO SCALE

**840**  
A, B, PG

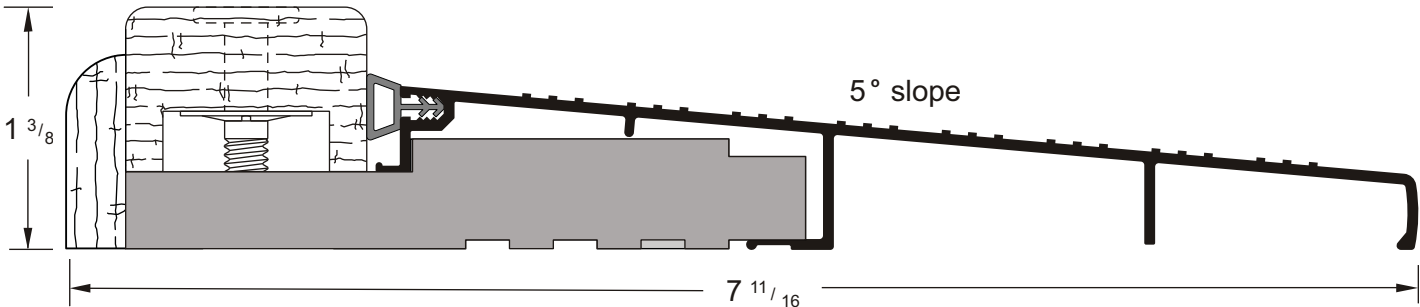


**845**  
A, B



Available extenders shown on page 27.

**849**  
A, B

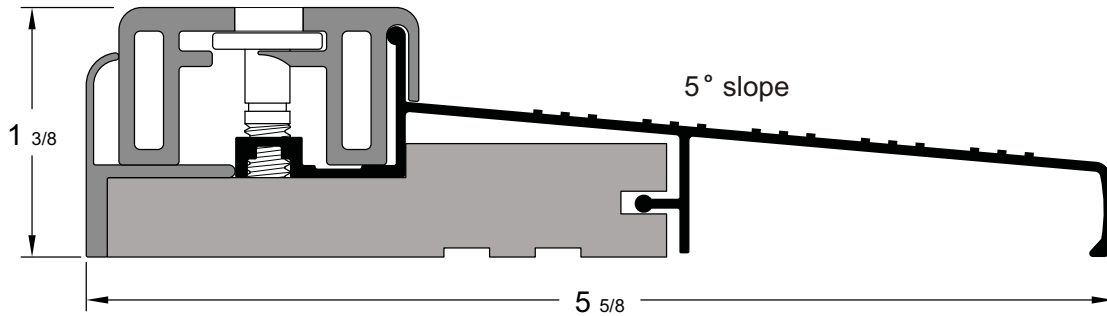


THIS DRAWING NOT TO SCALE

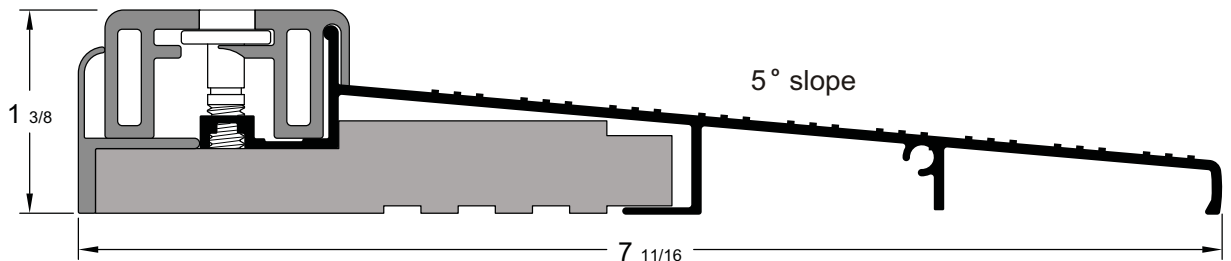
## ADJUSTABLE FROM 1-3/8" TO 1-5/8"

**COMPOSITE CAP / ALUMINUM BODY ADJUSTABLE** thresholds designed as a thermal-break. Height adjusts from 1-3/8" to 1-5/8" (1/4").

**757**  
A, B



**777**  
A, B



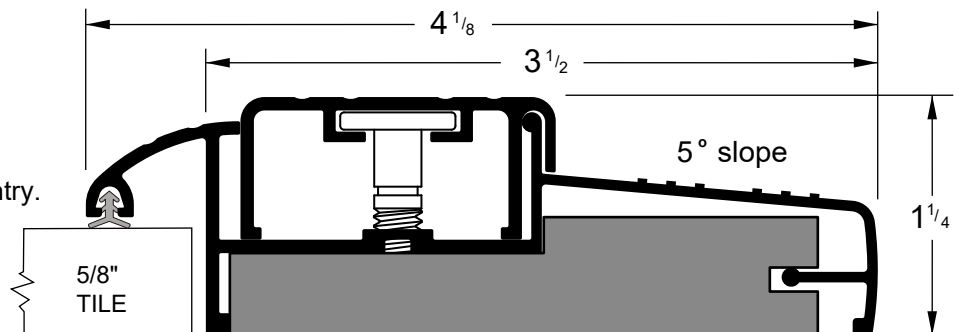
THIS DRAWING NOT TO SCALE

## ADJUSTABLE ALL ALUMINUM THRESHOLDS

COMPOSITE OR WOOD SUBSTRATE AVAILABLE  
Adjustable from 1-1/4" to 1-1/2" in height.

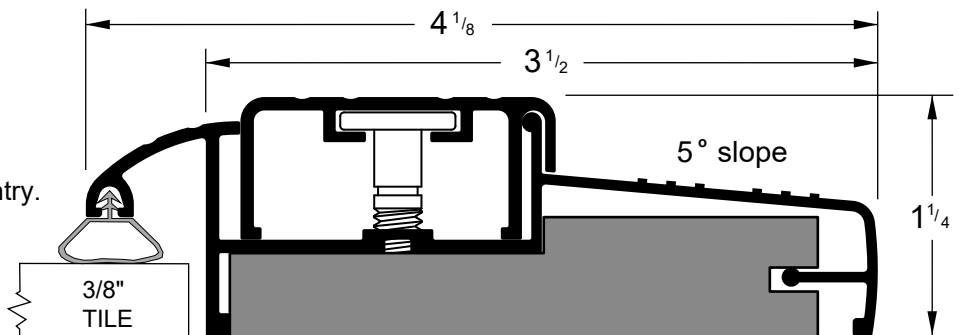
**804**  
A, B

Designed specifically for 5/8" tile entry.



**805**  
A, B

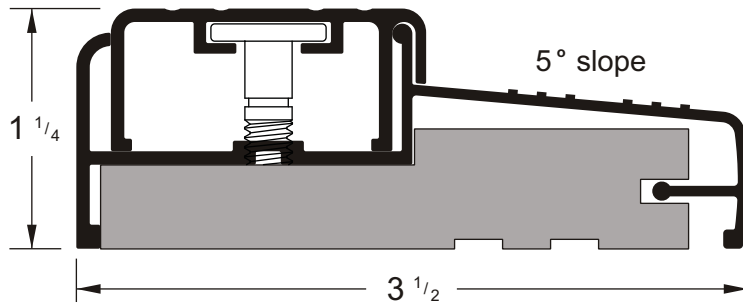
Designed specifically for 3/8" tile entry.



NOTE: Parts 804 & 805 are available in a tall cap version. Order as 904 & 905; which adjust from 1-3/8" to 1-5/8" in height.

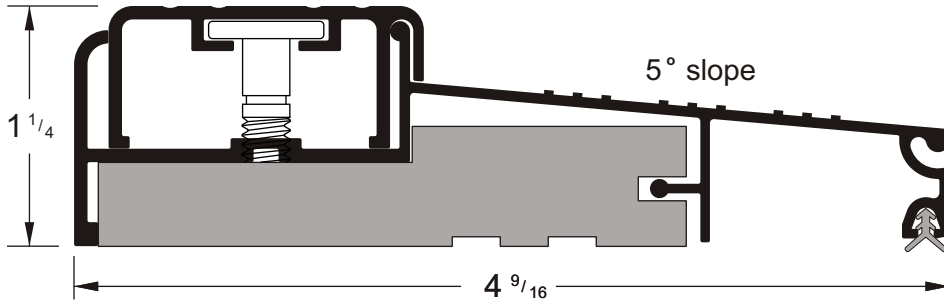
**827**

B, S



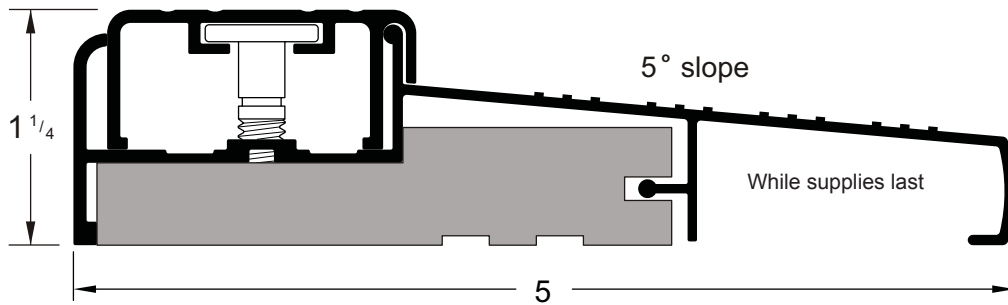
**847**

B, S



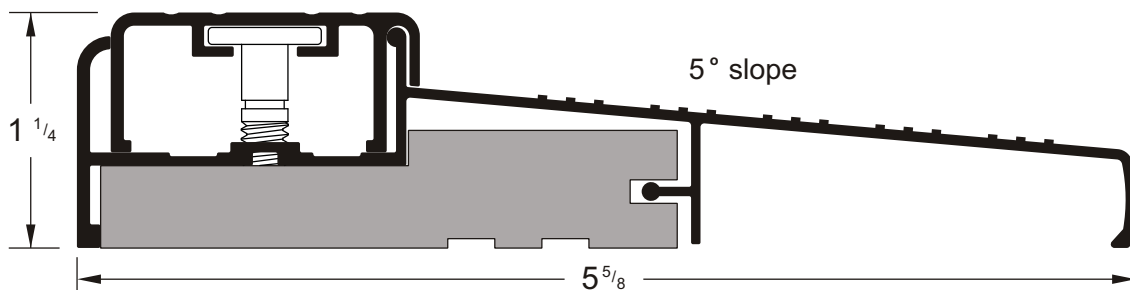
**856**

S



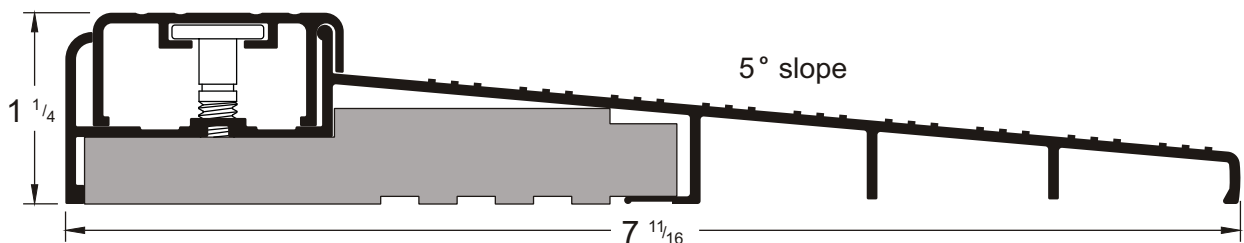
**857**

B, S



**877**

B, S



Available extenders shown on page 27.

THIS DRAWING NOT TO SCALE

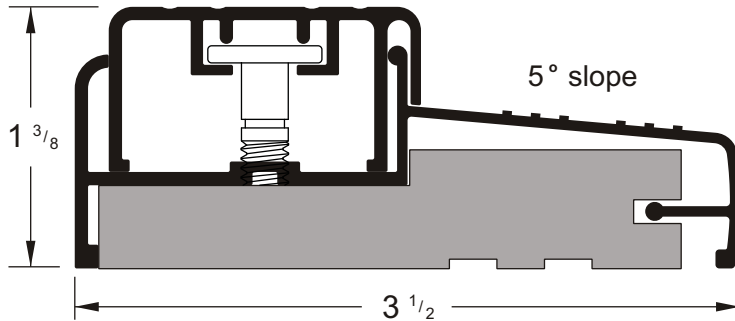
# TALL CAP ADJUSTABLE ALL ALUMINUM THRESHOLDS

COMPOSITE OR WOOD SUBSTRATE AVAILABLE

Adjustable from 1-3/8" to 1-5/8" in height.

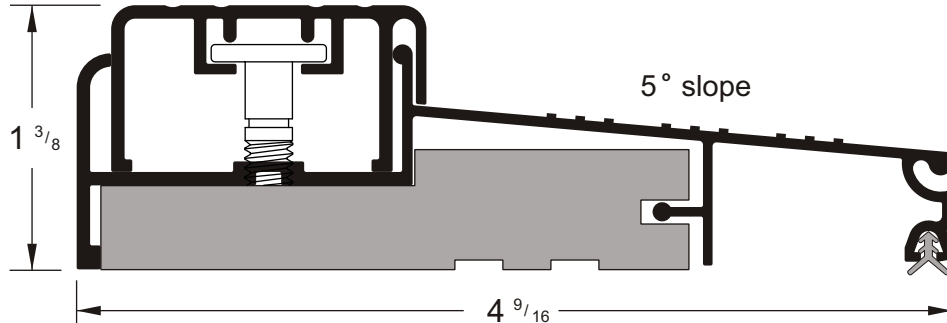
**927**

B, S



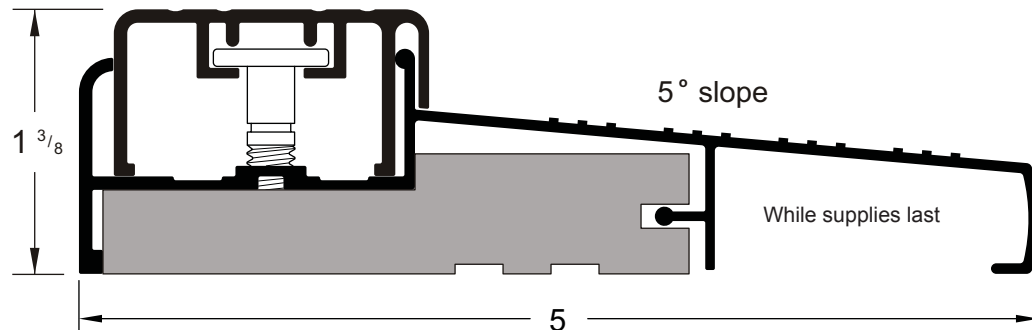
**947**

B, S



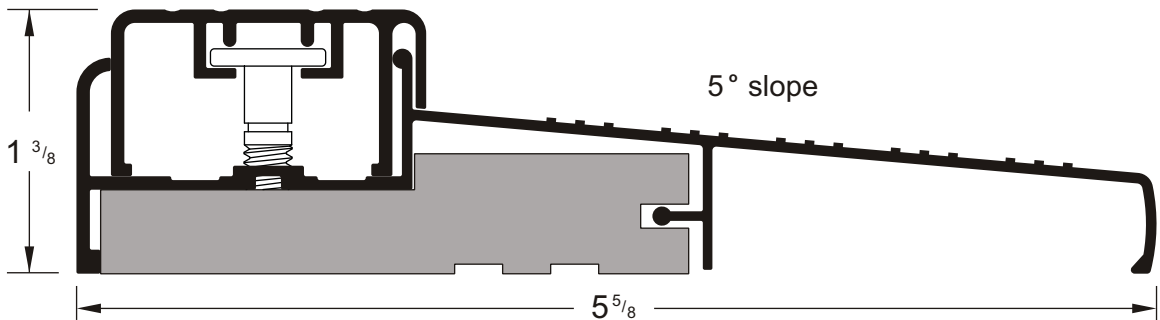
**956**

S



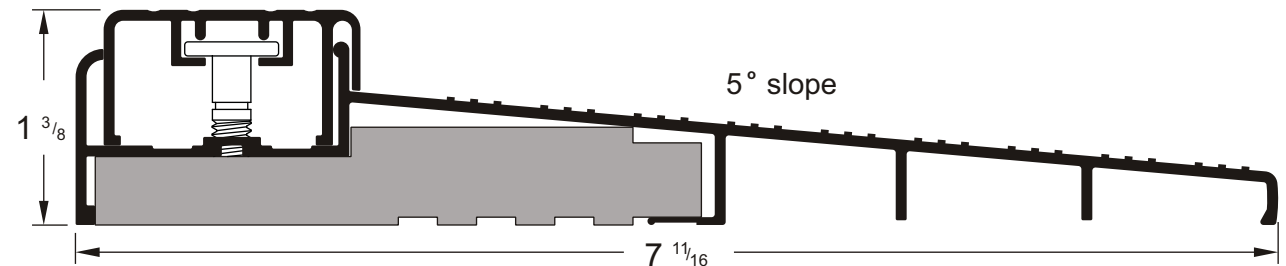
**957**

B, S



**977**

B, S



Available extenders shown on page 27.

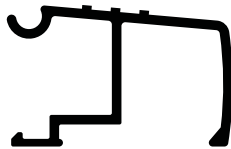
THIS DRAWING NOT TO SCALE

## SILL EXTENDERS

Only for use with parts # 820, 830, 840, 841, & 850.

**832 1"**

A, PG



**831 2"**

A, B, PG



**853 3"**

A, B, PG

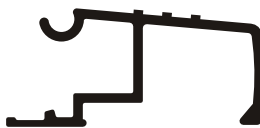


Only for use with parts # 542, 822, 835, 842, 845, 847, 852, & 947.

**834 1"**

B, S

While supplies last



**836 2"**

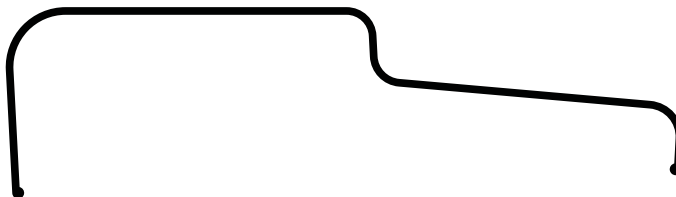
A, B



## RE-USABLE PVC PROTECTIVE COVERS

**3727**

For 3-1/2"  
Thresholds



# Section 7 OUT-SWING DOOR THRESHOLDS

Standard Sizes (Product is cut oversize to allow "cutting in"): 30", 32", 36", 42", 48" (cut 3/8" over); 60", 64", 72" (cut 1" over).  
Other lengths are available.  
(Extra cost over 73")  
Routed thresholds (page 14)

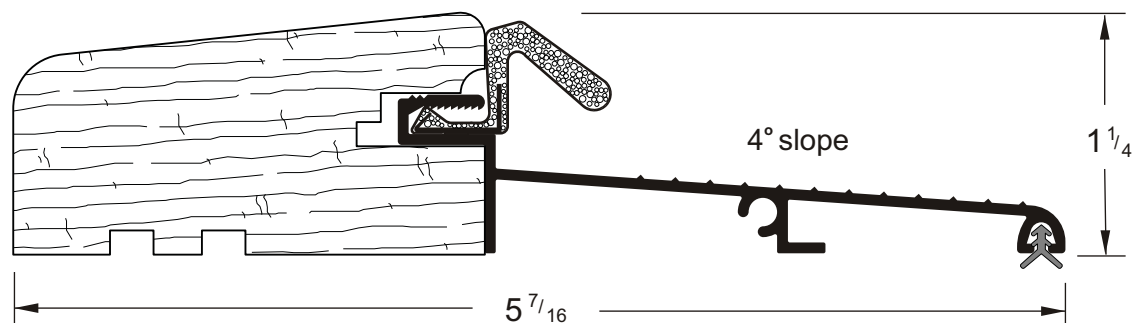
and specified lengths are cut exact.  
Center holes are counter-sunk.  
#10 phillips flathead screws of appropriate length are included.  
▽ Indicates location of standard fastener hole.

Special anchors may be required on concrete slab construction and are available at extra cost, (see page 34).  
Standard bumper seal is Santoprene® (#9032T).  
Optional seals (see page 44).

## HARDWOOD & ALUMINUM OUTSWING

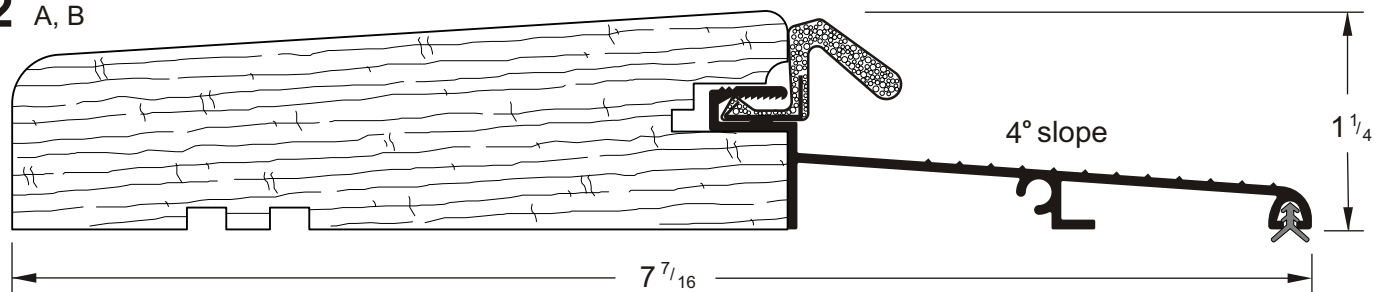
PLEASE NOTE:  
"Outswing" Astra-Bolt on page 42

**410** A, B



For glue-down or nail-on applications.

**412** A, B



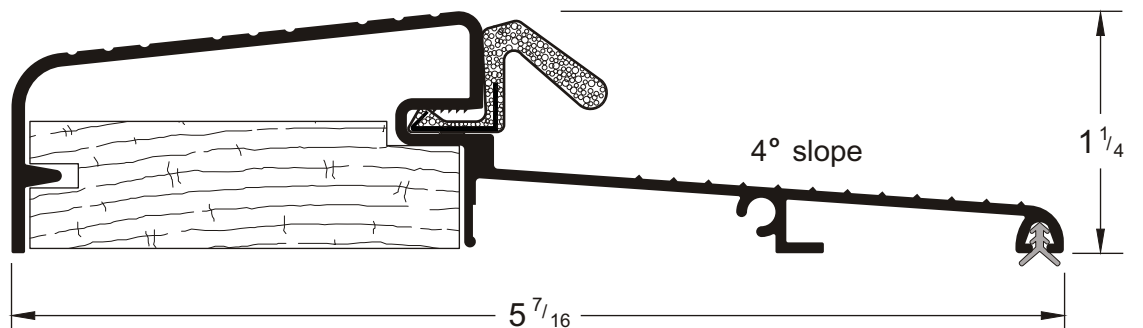
For glue-down or nail-on applications.

THIS DRAWING NOT TO SCALE

## ALL ALUMINUM OUTSWING

**415** A, B

Wood substrate only.

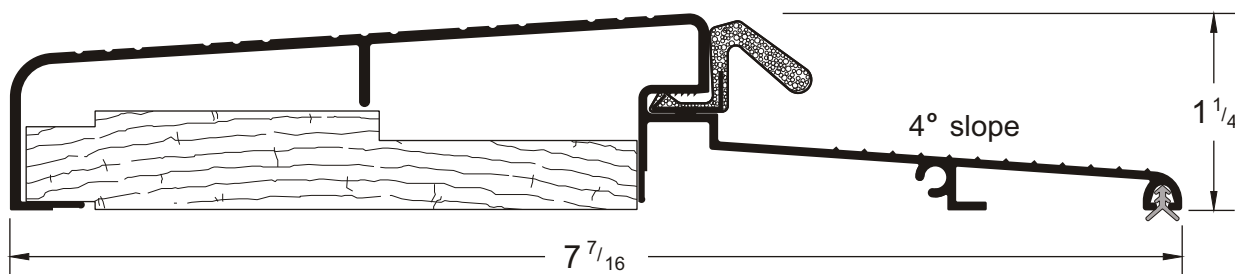


Full length insert for glue-down or nail-on applications.



# 417 A, B

Wood or  
Composite  
substrate.



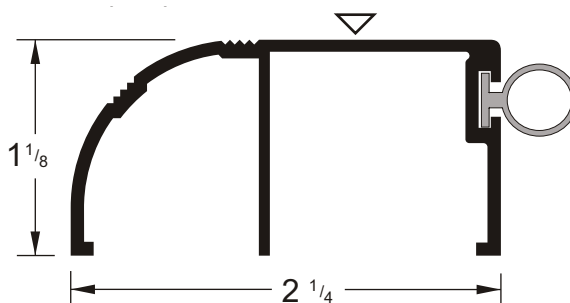
Full length insert for glue-down or nail-on applications.

THIS DRAWING NOT TO SCALE

## OUTSWING BUMPER THRESHOLDS

# 428 A, B

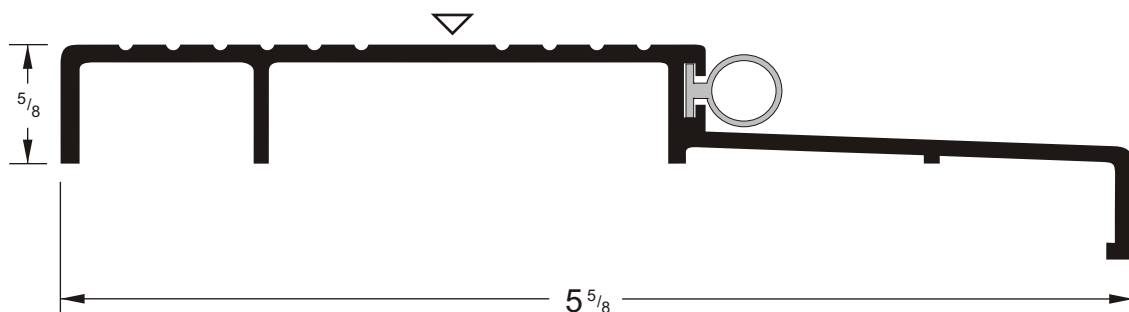
Extra high bumper threshold.  
10 x 2" phillips flathead  
screws are included.



# 470 A, B

Bumper threshold.

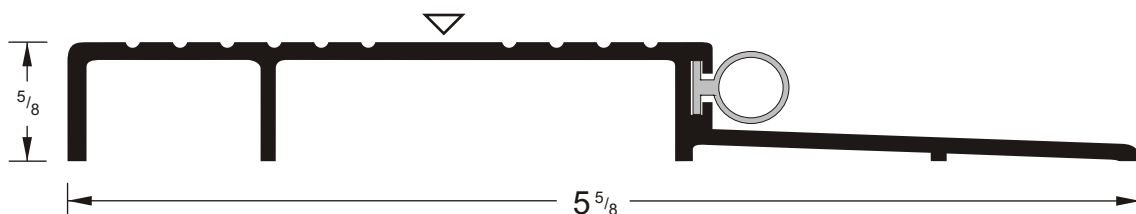
10 x 1-1/2" phillips  
flathead screws are  
included.



# 471 A, B

Bumper threshold for  
continuous level floor

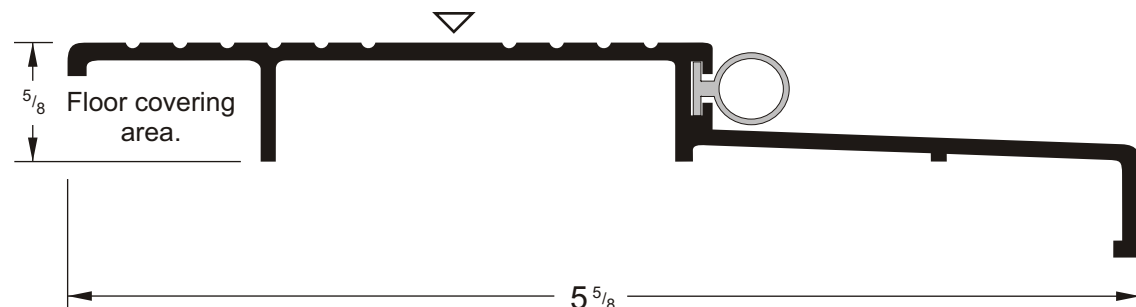
10 x 1-1/2" phillips  
flathead screws are  
included.



# 472 A, B

Bumper threshold  
will allow for floor  
covering.

10 x 1-1/2" phillips  
flathead screws are  
included.



## Section 8 COMMERCIAL SADDLE THRESHOLDS

Standard Sizes (Product is cut oversize to allow "cutting in"): 30", 32", 36", 42", 48" (**cut 3/8" over**); 60", 64", 72" (**cut 1" over**).  
**Other lengths are available** (Extra cost over 73").

**Routed thresholds (page 33) and specified lengths are cut exact.**  
 Center holes are counter-sunk.  
**#10 phillips flathead screws of appropriate length are included.**  
 Nominal min. wall thickness 1/8"  
 Tabs avail. for 1/2" saddles. (page 33)

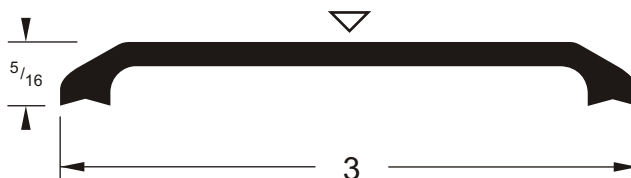
Special anchors may be required on concrete slab construction & are available at extra cost, see page 34.



Barrier free design meets ADA requirements.

### 1503 A, B

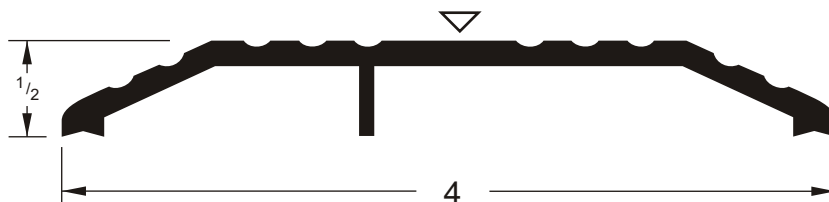
10 x 1" phillips flathead screws are included.



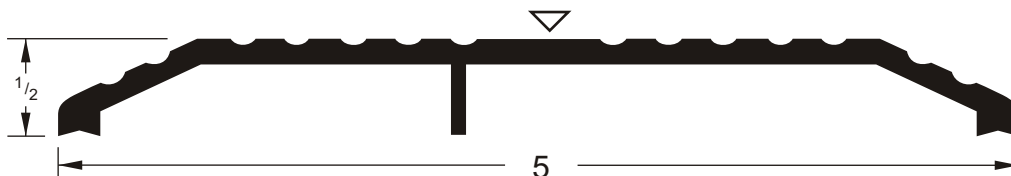
### 1/2" COMMERCIAL SADDLE THRESHOLDS

10 X 1-1/2" phillips flathead screws are included with parts 1504 - 1507

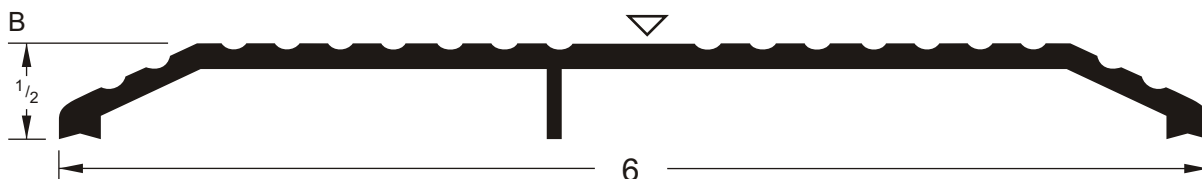
### 1504 A, B



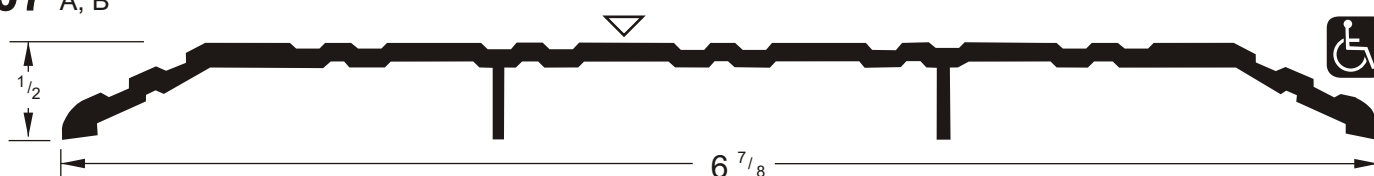
### 1505 A, B



### 1506 A, B



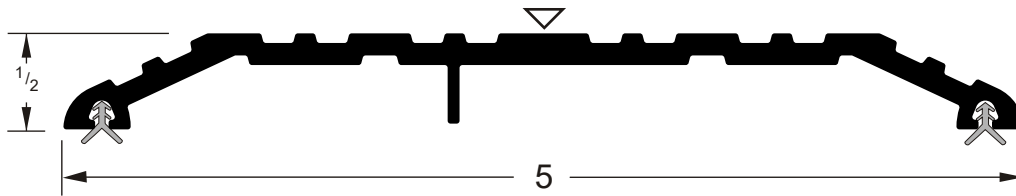
### 1507 A, B



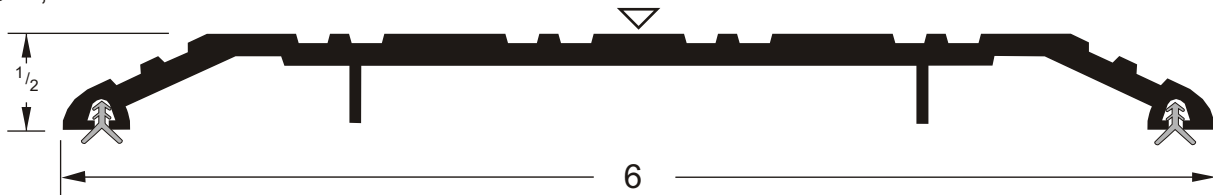
## HEAVY DUTY COMMERCIAL SADDLE THRESHOLDS

10 x 1-1/2" phillips flathead screws are included.

**1525** A, B



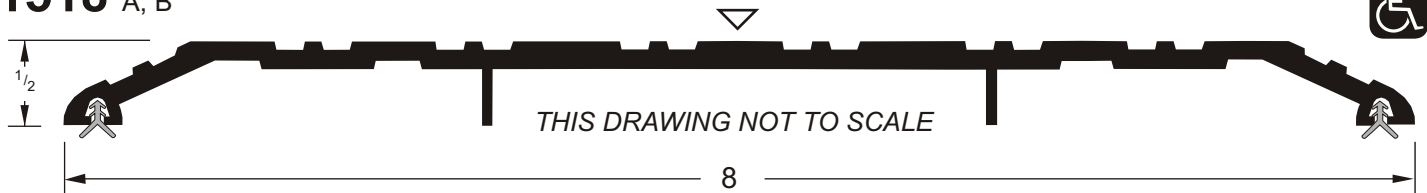
**1516** A, B



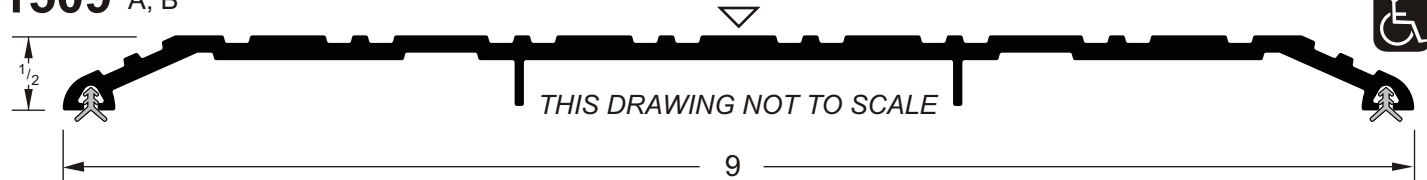
**1517** A, B



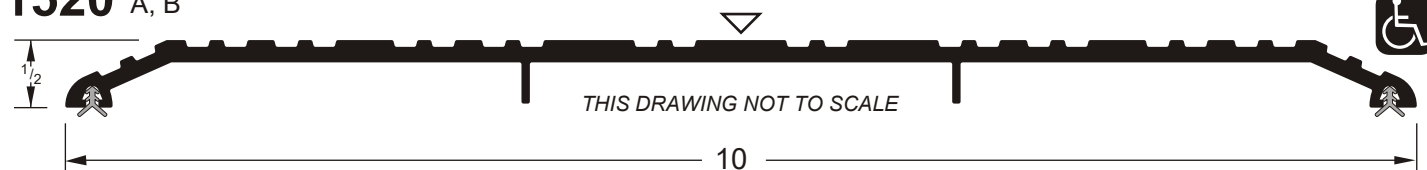
**1518** A, B



**1509** A, B

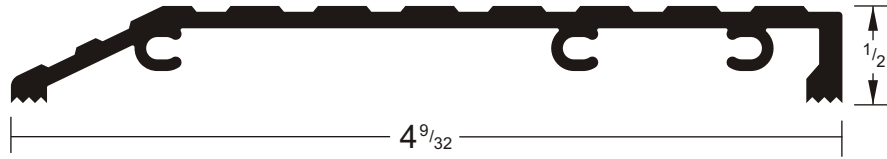


**1520** A, B

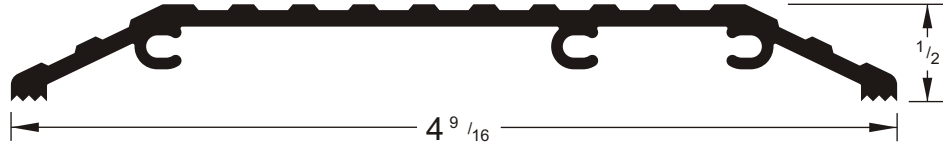


## SADDLE THRESHOLDS WITH SCREW BOSS

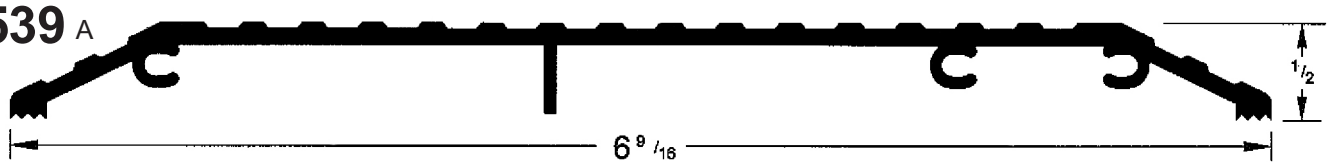
**1519** A, B



**1529** A, B



**1539** A



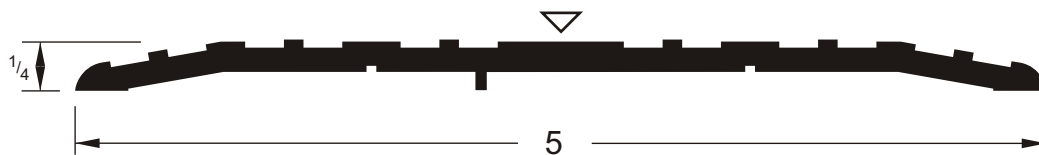
## 1/4" COMMERCIAL SADDLE THRESHOLDS

10 X 1" phillips flathead screws are included.

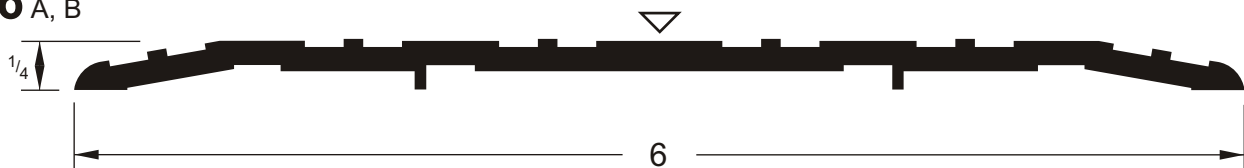
**1544** A, B



**1545** A, B



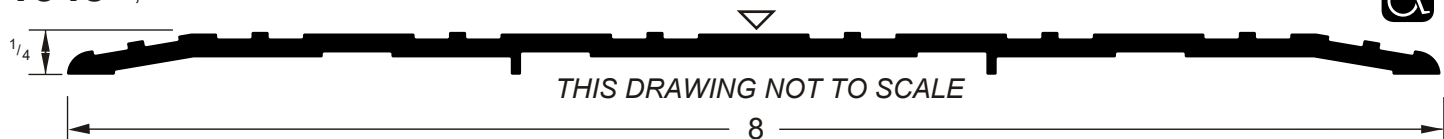
**1546** A, B



**1547** A, B



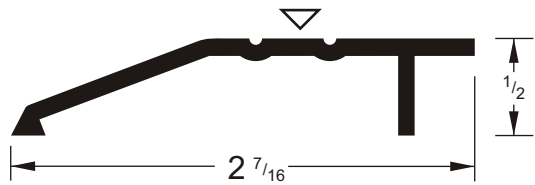
**1548** A, B



**THERMAL BREAK SADDLE THRESHOLDS**

10 x 1-1/2" phillips flathead screws are included.

**1512** A, B



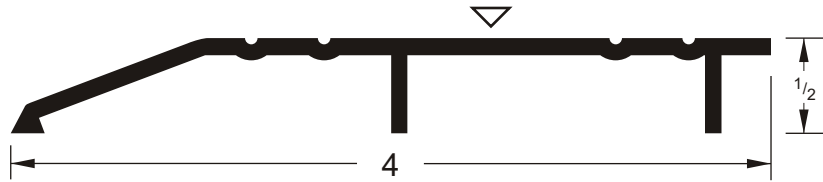
**1511** P



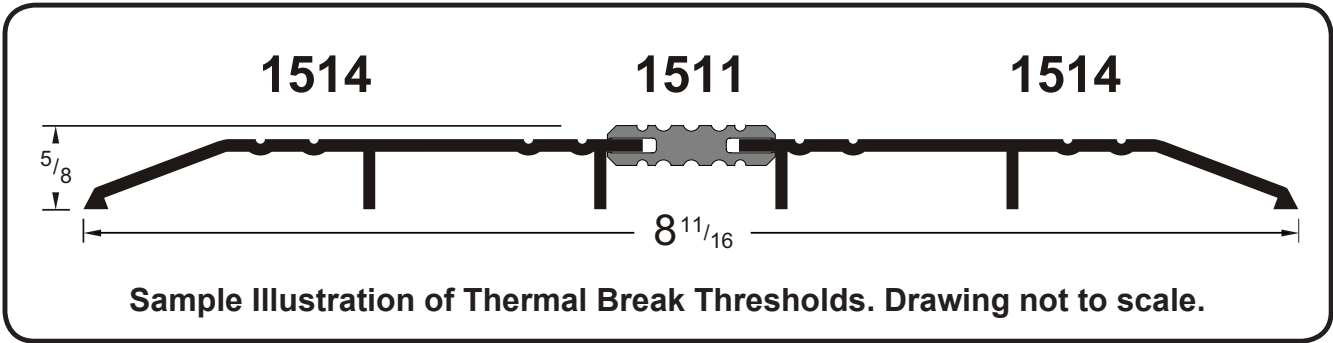
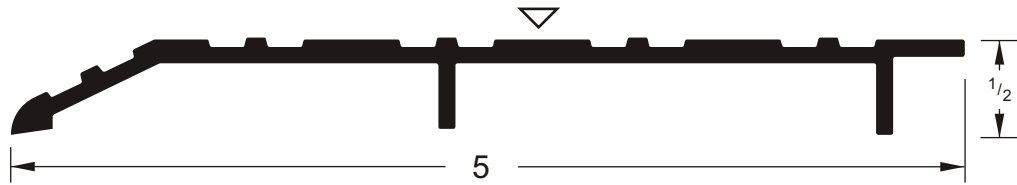
Black rigid vinyl thermal break connector to join saddles.



**1514** A, B



**1515** A, B



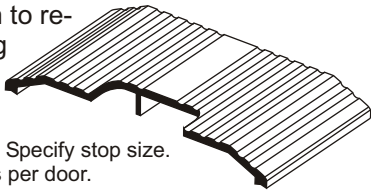
**ELEVATORS**

**3105** B While supplies last  
1/4" Elevator for increasing height of saddle thresholds.



**ROUT FOR METAL/MORTISED FRAMES**

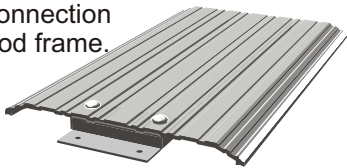
(RMF) A milling operation to remove aluminum, enabling the threshold to be "dropped" into place.



**Order:** Exact length required. Specify stop size.  
**Holes:** Three (3) center holes per door.

**TABS**

Tabs can be attached to 1/2" commercial saddle thresholds to facilitate the connection between thresholds and wood frame.

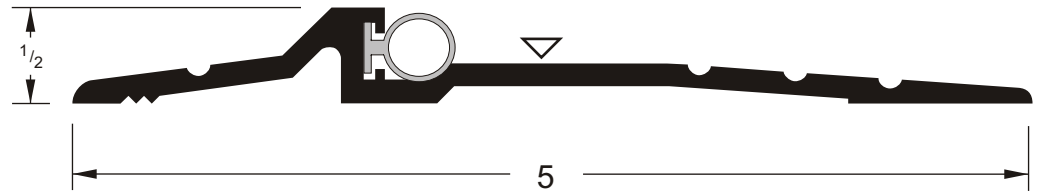


**Order:** Exact length required.  
**Holes:** No center hole.

## 1522 A, B

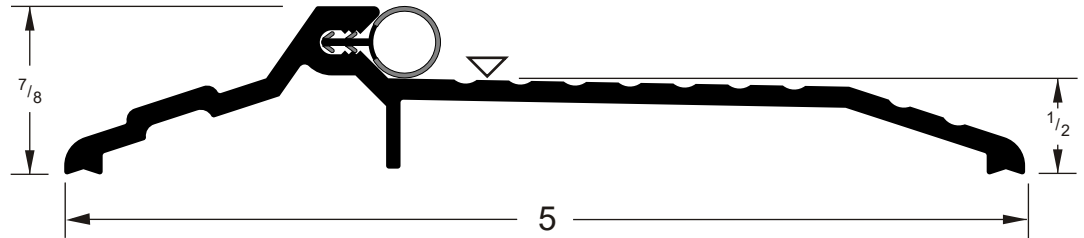
PANIC exit bumper threshold. Handicapped barrier-free design.

10 x 1" phillips flathead screws are included.



## 1523 A, B

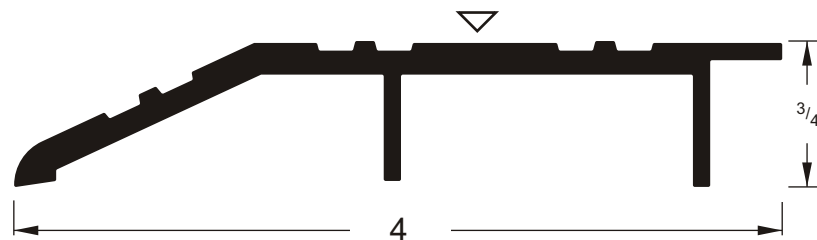
10 X 1 1/2" phillips flathead screws are included.



### HALF SADDLE

## 1564 A, B

10 x 2" phillips flathead screws are included.



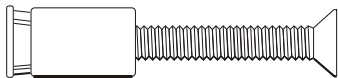
▽ Indicates location of standard fastener hole.

### SPECIAL ANCHORS

(NOT TO SCALE)

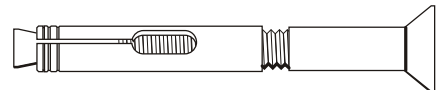
Fasteners other than standard may be substituted at the time of ordering at additional cost. Bulk fasteners are available per hundred or per pound.

### 9100



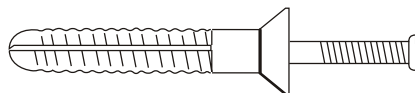
Machine screw with **lead anchor**.  
10-24 x 2", 3/8" hole required.  
Zinc & bronze.

### 9101



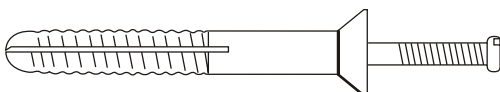
**Lock anchor**, zinc plated only.  
1/4" x 2", 1/4" hole required.

### 9102



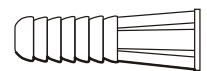
**Nylon drive anchor**. 1/4" x 1-1/2", 1/4" hole required.

### 9103



**Nylon drive anchor**. 1/4" x 2",  
1/4" hole required.

### 9104



**Plastic screw anchor**. 1/4" x 1",  
1/4" hole required.

## Section 9 JAMB WEATHERSTRIP

Standard Sizes 30", 32", 36", 60", 72", 80", 84". Aluminum weatherstrip is cut **1/4" over**.

**Other lengths are available and cut exact** (Extra cost over 84").

Standard Sets: 32" x 80", 36" x 80", 72" x 80", 32" x 84", 36" x 84",

and 72" x 84". **Jamb-type weatherstrip may be ordered in three piece sets or individual lengths.**

**Fasteners holes are slotted for close adjustment in most styles.** #6 phillips, stainless steel sheet metal screws are provided with these products.

Self drilling sheet metal screws are available at extra cost.

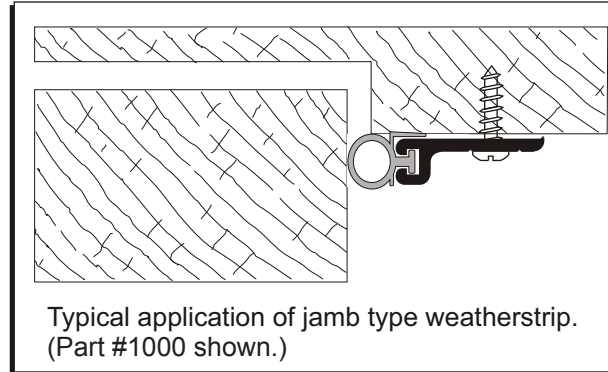
### JAMB-TYPE WEATHERSTRIP

#### NOTE:

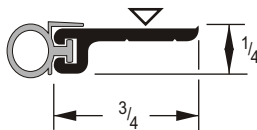
Santoprene® bulb seal (black) is available as an option for vinyl on parts **1000 & 3212**.

Special requirements on the job may call for this advanced seal.

Some problems regarding a sticking reaction between certain paints and vinyl have been eliminated with the use of Santoprene®.

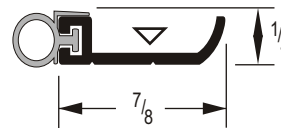


#### 1000 A, B, PG, W



Jamb-type weatherstrip, notched corners for continuous appearance. Extruded aluminum carrier with black vinyl bulb seal. Slotted holes for ease in adjustment. #6 X 5/8" SMS provided.

#### 3212 A, B, W



Jamb-type weatherstrip, with black vinyl bulb seal, slotted holes. #6 X 5/8" SMS provided.

▽ Indicates location of standard fastener hole.

### ADHESIVE BACKED DOOR SEAL

#### 1830

500 ft. rolls:

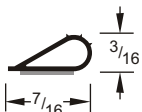
**1830D** Black  
**1830W** White

17 ft. packages:

**1430D** Black  
**1430W** White

#### SANTOPRENE® RUBBER

For use with either 1/2" or 5/8" stop. Adhesive backed, extruded Santoprene® rubber, an advanced product from Monsanto. Provides outstanding engineering properties in UV stability and flame retardance. Service temperature from -81 to +275 degrees F.



### WOODSTOP GASKETING AND SOUND SEALS

Installs into saw kerf in applied wood stops or center kerfed mortised jambs.

#### 9021

**Schlegel AP-412 Aptus® TPE**  
bulb 5/16" dia.  
dual durometer with slipcoat bulb surface.  
1000' / roll  
Color: Beige  
Kerf: 5/64" x 5/16"



#### 9024

Vinyl bulb  
1/4" dia.  
600' / roll  
Colors:  
Black and White  
Kerf: 1/8" x 5/16"



#### 9023

Vinyl  
three finger  
5/16" wide  
500' / roll  
Color: Gray  
Kerf: 1/8" x 5/16"



PRODUCTS ARE SHOWN ACTUAL SIZE  
(EXCEPT AS NOTED)

COMBO ALUMINUM PRODUCTS, EL CAJON, CA  
Tel (619) 447-9200 (800) 457-7500 Fax (619) 442-4558



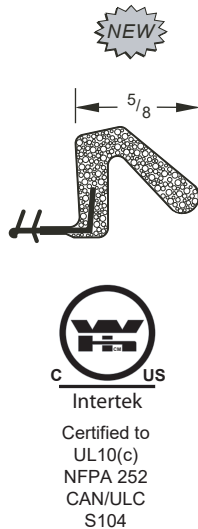
## FOAM WEATHERSTRIP

### 1650

			Box Qty.
1650B	82"	Brown	125
1650D	82"	Black	125
1650W	82"	White	125
1651B	97"	Brown	125
1651D	97"	Black	125
1651W	97"	White	125
1652B	120"	Brown	125
1652W	120"	White	125
1656B	250'	RL Brown	
1656D	250'	RL Black	

Tolerance +/- 1"

(Sold by full box or by piece, broken box premium applies).



#### FenSeal DSFC-650K126 FenShield KERF TYPE DOOR SEAL

Certified fire rated for 20 minutes by Intertek Services.

**Inserts easily to seal the strike side, hinge side, and header.**

**FenShield** door seal is made of resilient urethane foam core, clad in a durable polyethylene skin, with a structural polypropylene spine.

Has 5/8" reach. Resilient characteristics conform seal to warped doors. Consistently returns back to its original shape after compression.

Width of barb - .162"

**Requires 1/8" x 7/16" kerf in stop. (If rabbeted jamb is used, allow for depth of 2-1/8". If applied stop is used, adjust for compression of seal.)**

### 1657

			Box Qty.
1657B	82"	Brown	125
1657D	82"	Black	125

Tolerance +/- 1"

(Sold by full box or by piece, broken box premium applies).



#### FenSeal DSFC-650K126 FenShield KERF TYPE DOOR SEAL

Certified fire rated for 20 minutes by Intertek Services.

**Inserts easily to seal the strike side, hinge side, and header.**

**FenShield** door seal is made of resilient urethane foam core, clad in a durable polyethylene skin, with a structural polypropylene spine.

Has 3/4" reach. Resilient characteristics conform seal to warped doors. Consistently returns back to its original shape after compression.

Width of barb - .162"

**Requires 1/8" x 7/16" kerf in stop. (If rabbeted jamb is used, allow for depth of 2-1/8". If applied stop is used, adjust for compression of seal.)**

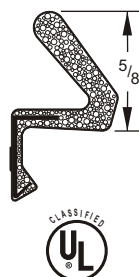
Schlegel limited to quantity on hand

### 1783

			Box Qty.
1783B	82"	Brown	150
1783W	82"	White	150
1784B	97"	Brown	125
1784W	97"	White	125
1786W	500'	RL White	

Tolerance +/- 1"

(Sold by full box or by piece, broken box premium applies).



#### SCHLEGEL QDS 650 Q-LON ® KERF TYPE DOOR SEAL.

Fire rated by Underwriters Laboratory for 90 minutes in accordance with UL QVWZ file #R14384.

Cellular modified foam core, cladding is an embossed, non-vinyl, U.V. stabilized, paint-resistant liner. Has 5/8" reach. Will allow for as much as 3/16" movement with no loss of sealing performance.

Air infiltration tested within ASTM, NWWDA, ANSI and ISDSI standard.

**Requires 1/8" x 3/8" kerf in stop. (If rabbeted jamb is used, allow for depth of 2-1/8". If applied stop is used, adjust for compression of seal.)**

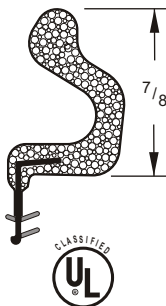
**SCHLEGEL LIMITED TO QUANTITIES ON HAND**

**1788**

Box  
Qty.

**1788B** 97" Brown 125  
Tolerance +/- 1"

(Sold by full box or by piece,  
broken box premium applies).



**SCHLEGEL QEBD 875 Q-LON® KERF TYPE DOOR SEAL.  
EXTENDED REACH.**

Fire rated by Underwriters Laboratory for 20 minutes.

**Inserts easily to seal the strike side, hinge side and header.**

**A Q-LON®** Door seal made of an open-cell urethane foam core and clad in an embossed polyethylene, U.V. stabilized paint-resistant liner for kerf applications.

**QEBD 875 contains no plasticizers to cause deterioration over time.**

Has 7/8" reach. Resilient reach characteristics conform seal to warped doors. Width of barb - 5/32" (.155")

**Requires 1/8" x 7/16" kerf in stop.**

**1810**

Box  
Qty.

**1810B** 82" Brown 175  
**1811B** 96" Brown 150  
Tolerance +/- 1"

(Sold by full box or by piece,  
broken box premium applies).



**SCHLEGEL QEBD 500 Q-LON® KERF TYPE DOOR SEAL.**

Fire rated by Underwriter Laboratory for 180 minutes in accordance with UL QVWZ file #R14384.

Cellular modified foam core, cladding is an embossed, non-vinyl, U.V. stabilized, paint-resistant liner. Has 1/2" reach. Will allow for as much as 3/16" movement with no loss of sealing performance.

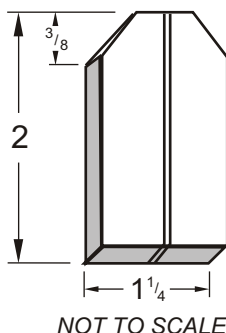
Cellular core stays soft at low temperatures. Contains no plasticizers to cause deterioration over time.

Air infiltration certified by Pittsburgh Testing Laboratories to as low as .01 cfm/fcp; well within ASTM, NWWDA, ANSI and ISDSI standards. **Requires 1/8" x 3/8" kerf in stop. (If rabbeted jamb is used, allow for depth of 1-15/16". If applied stop is used, adjust for compression of seal.)**

**1825**

**1825D** Black

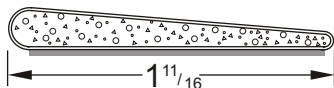
**Corner Seal-**  
Adhesive backed,  
pile corner seal  
with fin seal.  
Effective against  
water infiltration.



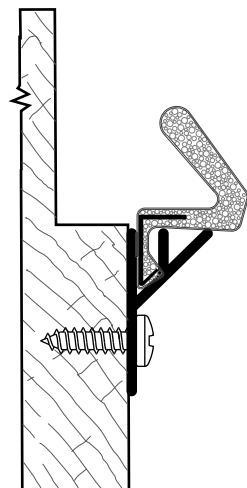
**1826** B, W

**Compression  
Corner Seal-**

For installation on strike jamb  
and hinge jamb sill corners.



**1835** B, W



**SPECIAL ORDER**

**ALUMINUM EXTRUSION  
JAMB SEAL SET (36" X 84")**

**Features:**

Weatherstrip can be replaced  
without removing holder from the jamb.

Slotted mounting holes allow for  
easy adjustment.

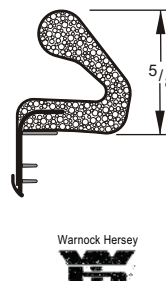
Color-matched mounting screws provided.

**1951**

Box  
Qty.

**1951B** 97" Brown 125  
**1951W** 97" White 125  
Tolerance +/- 1"

(Sold by full box or by piece,  
broken box premium applies).



**LOXSCREEN 9650 LOXSEAL® HIGH PERFORMANCE WEATHERSTRIP**

Fire rated by Warnock Hersey, Inc. for 90 minutes (per **ASTM E-152**).

**Inserts easily to seal the strike side, hinge side, and header.**

**LoxSeal®** weatherstrip made of polyethylene clad urethane foam.

**Requires 1/8" X 7/16" kerf in stop.**

Passed air infiltration test at 25 mph (per **ASTM E-283**).

Passed water penetration resistance (per **ASTM E-331**).

## Section 10 ASTRAGALS & MEETING STILES

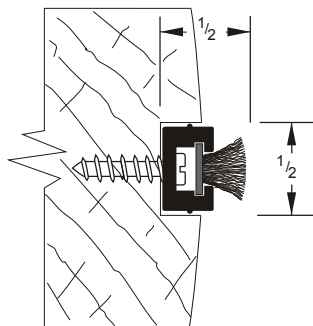
**All Astragals and Meeting Stiles are cut exact.**  
Standard Sizes: 80" and 84" (Except as noted).

Other lengths are available and are cut exact as ordered (Extra cost over 84").

Steel Meeting Stiles are furnished with countersunk holes.

Vinyl seal is black; fasteners are provided.

### 1130 P



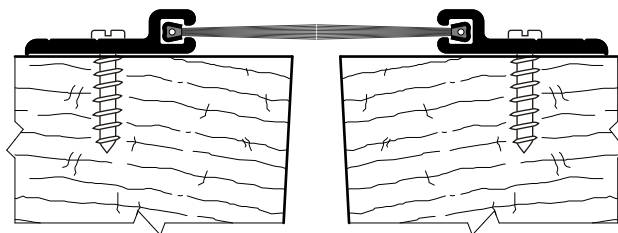
Black rigid vinyl retainer. Mortised or surface mounted for proper sealing pressure. Black pile seal (#9082) shown. Optional seals available. SMS 4 x 5/8" phillips panhead screws are provided. **84" Length.**

#### Optional seals:

9032T Bulb  
9082 Pile (Black)  
9088 Finned Pile (Black)  
(See seal profiles on page 44)

### 309 A, B

2 pieces in illustration

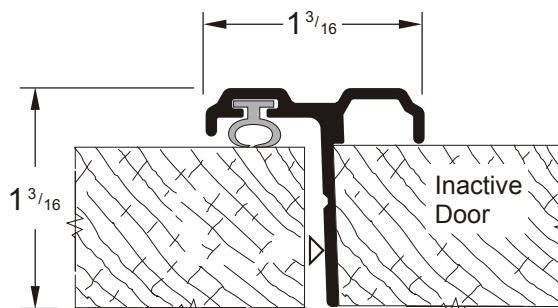


### 1152 P (Primed) 96" Length only

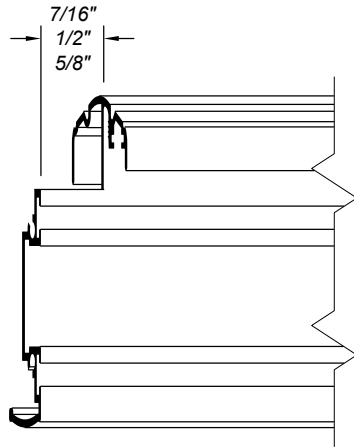


Steel meeting stile with countersunk holes. Primed finish. SMS 10 x 1" phillips flathead screws are provided.

### 1201 A, B, PG, W



Extruded aluminum T-Astragal.  
Screw nails provided.



## ASTRAGAL STOP CUT OPTION

### ASTRAGAL STOP CUT (ASC)

(for Parts 5000, 5400, 5450, 5475, & 5500)

Available Sizes: **7/16"**, **1/2"**, & **5/8"**

## ASTRAGAL PRODUCTS FOR 1-3/4" IN-SWING DOORS

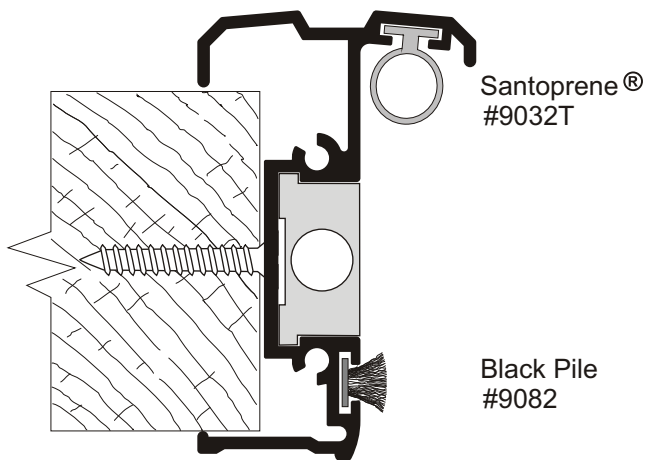
### Standard Features for Astra-Bolts ®

- 1) Hardware pack includes steel strike plate, installation spacers, neoprene bottom seal, escutcheon plate for header, fasteners and full instructions.
- 2) Seal materials of Santoprene®, Q-Lon®, vinyl, or pile as noted.
- 3) Steel bolts 5/16" diameter.
- 4) All astragals are field handed and can be field trimmed to size.
- 5) Dead bolt punch out and trim plate with spacers are available or included, as noted.
- 6) Trim strips, trim plates, strike plates and accessories in black color or black finish.
- 7) Accommodates heavy reveal on newer doors.
- 8) Special sizes available.

Astra-Bolt ® is a registered trade name for Combo Aluminum Product's Double Door Astragals.

## 5000 ASTRA-BOLT

B, S, W



This astragal has all of the standard features of other Combo Astra-Bolts, plus the C-index plate. This plate is an integral part of the lock mechanism which enables the bolt to function correctly when the astragal length has been field trimmed.

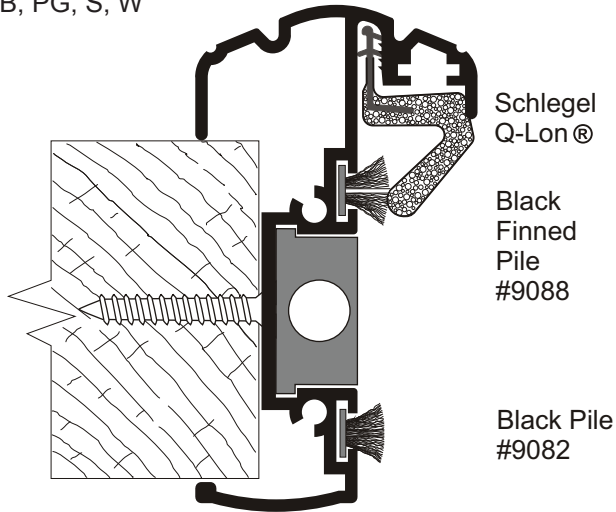
### Specific Features:

- 1) **22" bolt units** with spring detent,
- 2) Double seal at exterior and interior location,
- 3) Requires **1/2"** space between doors (plus clearance),
- 4) Surface mount,
- 5) Includes bottom seal and top escutcheon plate.

**Options:** 8" Dead bolt punch out  
Dead bolt trim pack (trim plate and spacers)  
Pile seals (#'s 9082 and 9088)

## 5400 ASTRA-BOLT

B, PG, S, W



**TRIPLE WEATHERSTRIP SEAL  
and  
22" LOCKING BOLTS**

### Features:

- 1) Accepts doors with heavy reveal,
- 2) Field handed, can be field trimmed,
- 3) Full strike plate & dead bolt trim plate,
- 4) Dead bolt punch out for ease of installation,
- 5) Escutcheon plate for head,
- 6) Thermoplastic bottom seal.

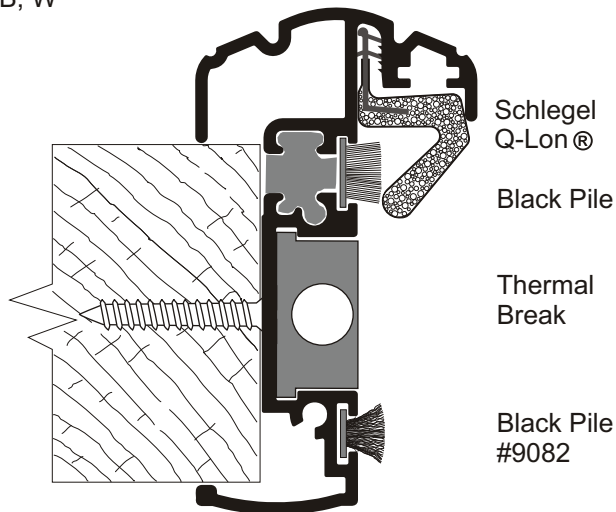
### For in-swing doors only

1/2" space between doors plus clearance.

## 5450

### THERMAL-BREAK ASTRA-BOLT

B, W



THIS DRAWING NOT TO SCALE

**PATENT 6457751**  
(Bolt Assembly)

22 INCH SPRING  
DETENT POSITIVE  
ACTION BOLT UNIT  
TOP & BOTTOM

QUARTER-TURN  
RED KNOB FOR  
ADDED SECURITY

SCHLEGEL  
Q-LON®  
DOOR SEAL

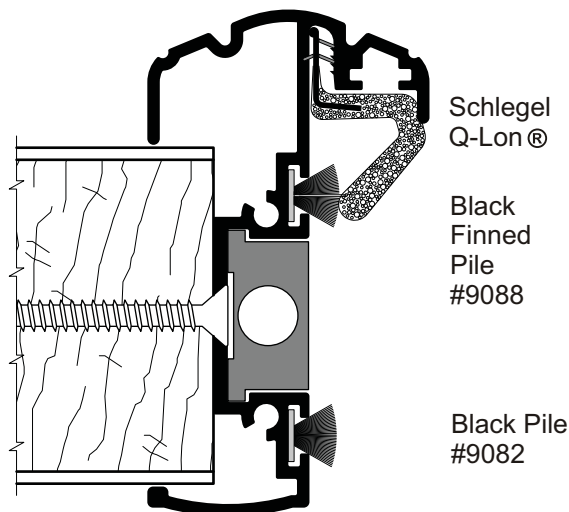
INCLUDES 8"  
PUNCH OUTS FOR  
DEAD BOLT  
(TWO ON 96"+)

DEAD BOLT TRIM  
PLATE

FULL STRIKE  
PLATE

# 5475 HURRICANE-RATED ASTRA-BOLT

B, PG, S, W



## Features:

- 1) 5/16" dia hardened steel pin,
- 2) 22" spring detent positive action bolt unit top & bottom (Patent #6457751),
- 3) 2 heavy duty escutcheon plates for top and bottom.

## Additionally:

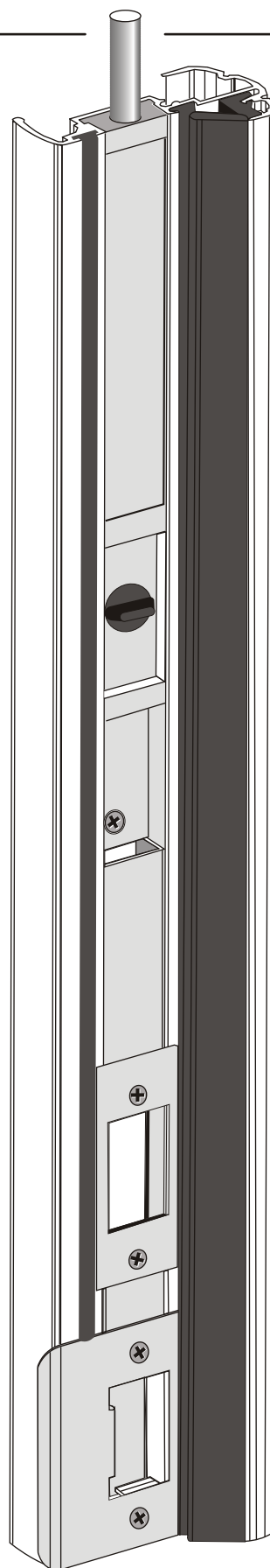
Field handed, can be field trimmed,  
Thermoplastic bottom seal provided,  
Fasteners included.

## For in-swing doors only

1/2" space between doors  
plus clearance.



THIS DRAWING NOT TO SCALE



**PATENT 6457751**  
(Bolt Assembly)

5/16" DIAMETER  
HARDENED  
STEEL PIN

22 INCH SPRING  
DETENT POSITIVE  
ACTION BOLT UNIT  
TOP & BOTTOM

QUARTER-TURN  
RED KNOB FOR  
ADDED SECURITY

SCHLEGEL  
Q-LON®  
DOOR SEAL

DEAD BOLT TRIM  
PLATE

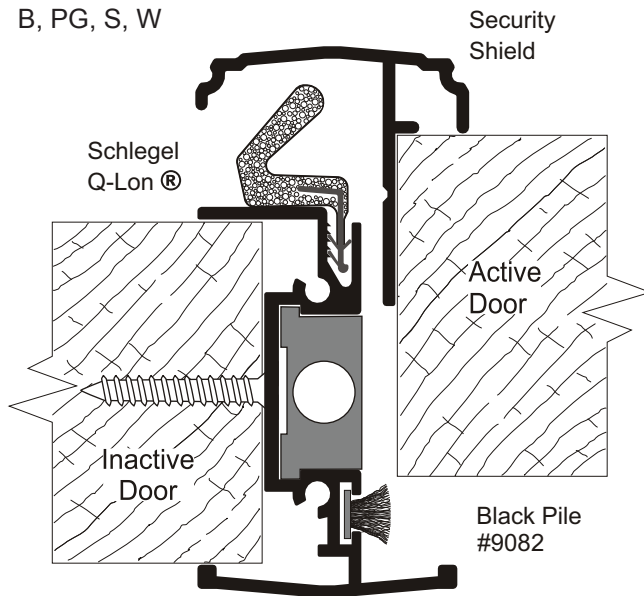
FULL STRIKE  
PLATE



## ASTRA-BOLT FOR OUT-SWING DOORS

# 5500

B, PG, S, W



This COMBO two piece astragal is for:  
**1-3/4" OUT-SWING DOORS**

### Features:

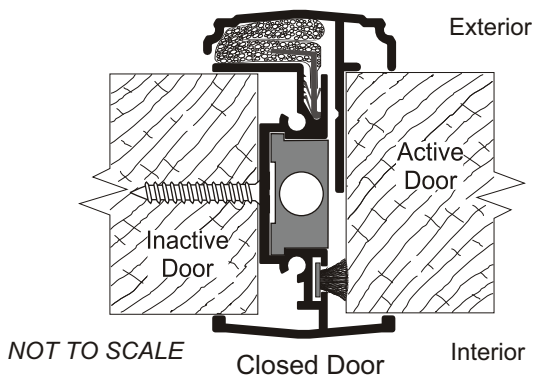
#### For The Active Door:

Extruded aluminum Security Shield (screw nails provided).

**Option:** Drill and countersink holes on shield with screws provided.

#### For The Inactive Door:

Field handed, can be field trimmed,  
Full strike plate & dead bolt trim plate,  
Dead bolt punch out for ease of installation,  
Escutcheon plate for head,  
Spacing requirements: 1/2" for astragal and 1/16" for security shield, plus clearance.



NOT TO SCALE

Closed Door

Interior

22 INCH SPRING  
DETENT POSITIVE  
ACTION BOLT UNIT  
TOP & BOTTOM

QUARTER-TURN  
RED KNOB FOR  
ADDED SECURITY

SCHLEGEL  
Q-LON®  
DOOR SEAL

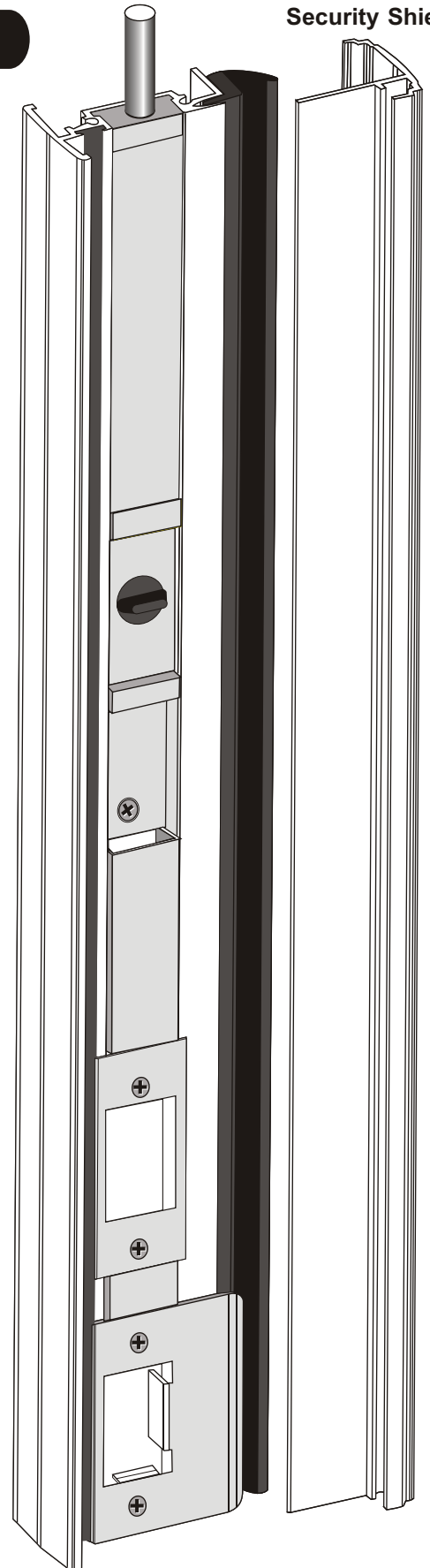
INCLUDES 8"  
PUNCH OUTS  
FOR DEAD BOLT  
(TWO ON 96"+)

DEAD BOLT  
TRIM PLATE

FULL STRIKE  
PLATE

**PATENT 6457751**  
(Bolt Assembly)

Security Shield



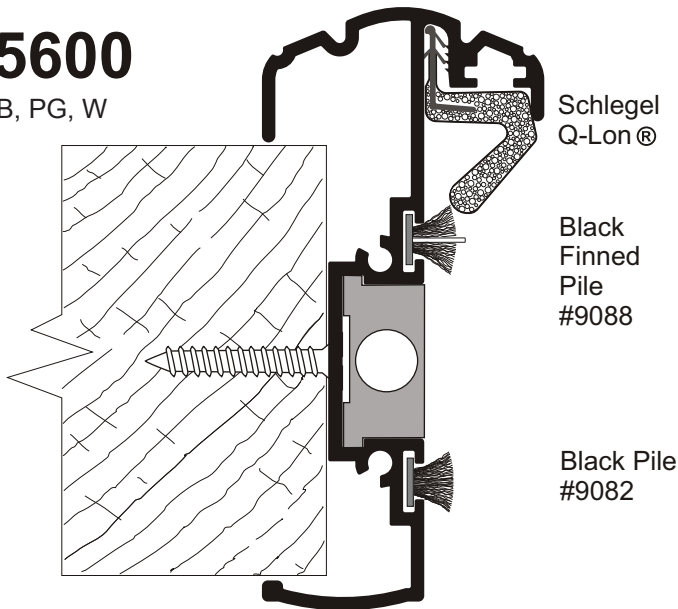
THIS DRAWING NOT TO SCALE



## ASTRA-BOLT FOR 2-1/4" IN-SWING DOORS

**5600**

B, PG, W



**Features:**

- 1) Accepts doors with heavy reveal,
- 2) Field handed, can be field trimmed,
- 3) Full strike plate & dead bolt trim plate,
- 4) Dead bolt punch out for ease of installation,
- 5) Escutcheon plate for head,
- 6) Thermoplastic bottom seal.

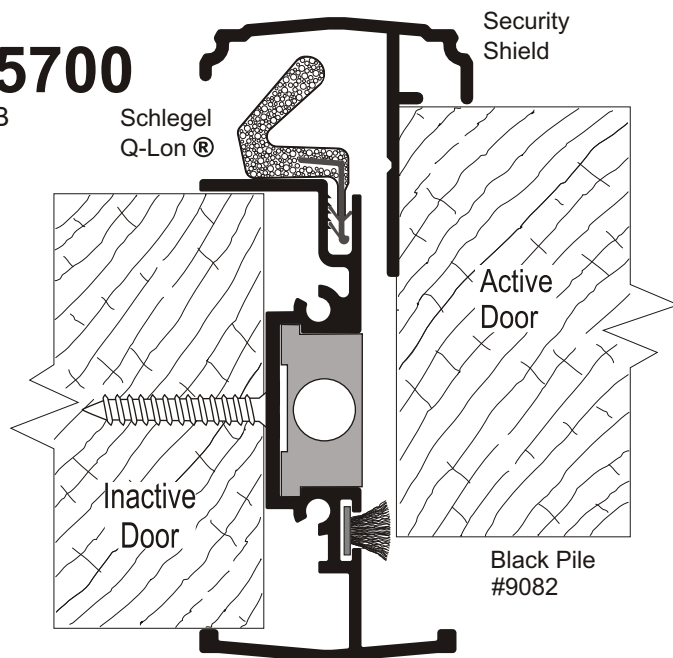
**For in-swing doors only**

1/2" space between doors plus clearance.

## ASTRA-BOLT FOR 2-1/4" OUT-SWING DOORS

**5700**

B



**PATENT 6457751**  
(Bolt Assembly)

22 INCH SPRING  
DETENT POSITIVE  
ACTION BOLT UNIT  
TOP & BOTTOM

QUARTER-TURN  
RED KNOB FOR  
ADDED SECURITY

SCHLEGEL  
Q-LON®  
DOOR SEAL

INCLUDES 8"  
PUNCH OUTS FOR  
DEAD BOLT  
(TWO ON 96"+)

DEAD BOLT TRIM  
TRIM PLATE

FULL STRIKE  
PLATE

THESE DRAWINGS NOT TO SCALE

22 INCH SPRING  
DETENT POSITIVE  
ACTION BOLT UNIT  
TOP & BOTTOM

SCHLEGEL  
Q-LON®  
DOOR SEAL

QUARTER-TURN  
RED KNOB FOR  
ADDED SECURITY

INCLUDES 8"  
PUNCH OUTS FOR  
DEAD BOLT  
(TWO ON 96"+)

DEAD BOLT TRIM  
TRIM PLATE

FULL STRIKE  
PLATE







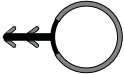



**PATENT 6457751**  
(Bolt Assembly)



**Security  
Shield**

# Section 11 REPLACEMENT SEAL INSERTS

## IDENTIFICATION GUIDE

INSERT	SEAL PART #	PRODUCT USE / #
 THIS DRAWING NOT TO SCALE	<b>9009V- PVC Seal</b> (Dual-Durometer)	<b>DOOR BOTTOMS</b> 249 All 1-3/4" Door Bottoms (except 255) All 2-1/4" Door Bottoms
	<b>9010V- Double vinyl</b> (2 pieces / door bottom)	<b>DOOR BOTTOMS / T-ASTRAGALS</b> 100 150 200 220 222 224 226 250 255 256 260 280 1201
	<b>9011V- Wide Finger vinyl</b>	101 151 201 221 223 225 227 251 257 261 281
	<b>9012V- Leg Vinyl</b>	<b>THRESHOLDS</b> 300 304 305 322 332 341 410 412 542 820 822 830 835 836 840 841 842 845 850 852 1509 1516 1517 1518 1520 1525 3007 3008 3017
  	<b>9032T- Bumper Seal</b> (Santoprene ®) standard  <b>Pile inserts:</b> <b>9082</b> .290 Hght. Black  <b>9088</b> Fin .360 Hght. Black  <b>9034T- Bulb Seal</b>	<b>OUT-SWING DOOR THRESHOLDS</b> 428 470 471 472 1522  (Also #1130 & Astragals)  <b>341 345 1523</b>
	<b>9017V - Bulb Seal</b>  <b>9017T - Bulb Seal (Santoprene®)</b>	<b>JAMB-TYPE WEATHERSTRIP</b> 1000 3212
 	<b>9008V- Finger Vinyl</b>  <b>9050R- TPR</b>	<b>CONCEALED SEAL / VINYL INSERT</b>  205, 322  213

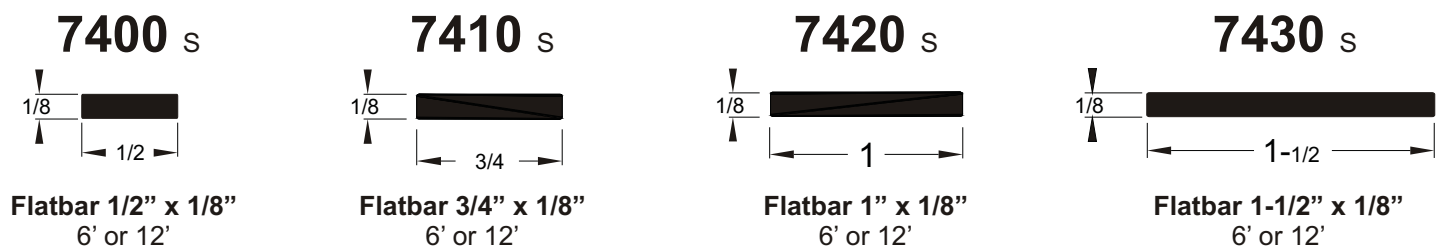
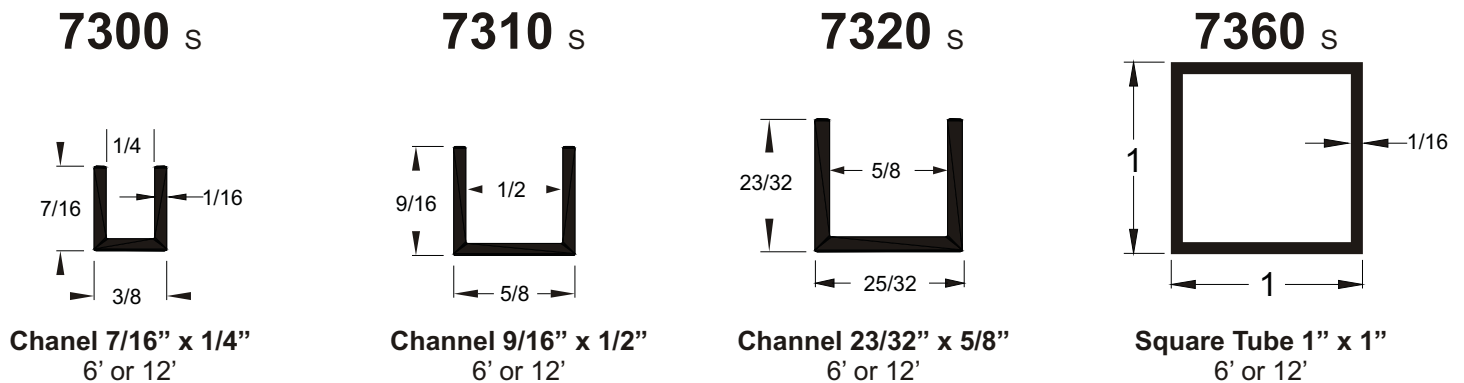
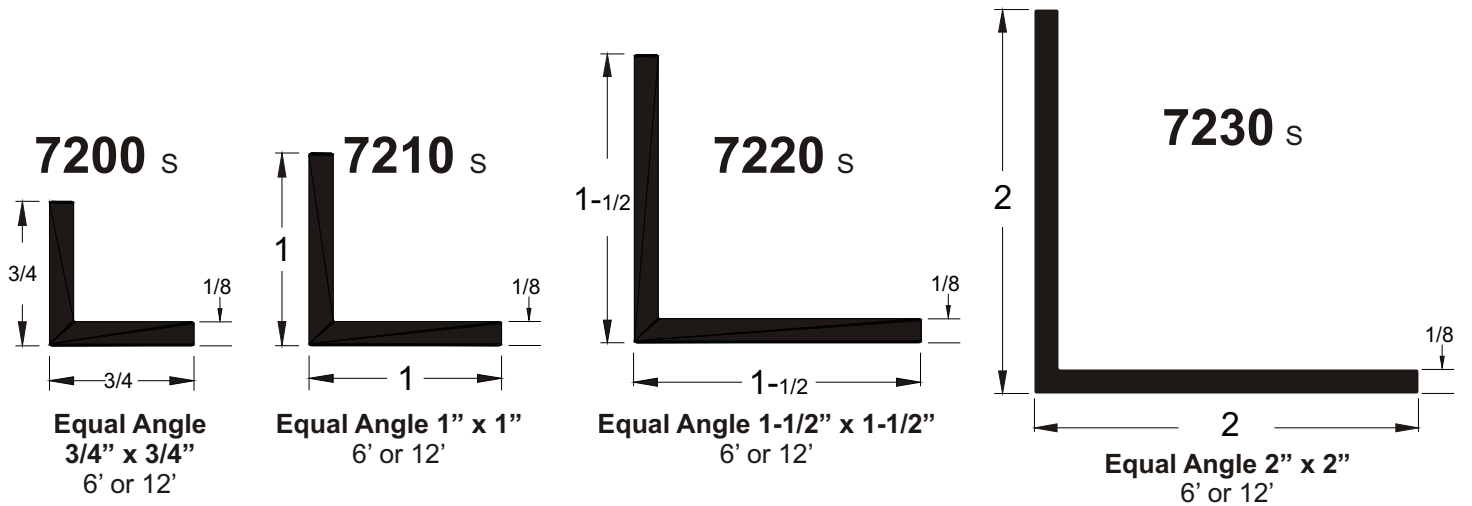
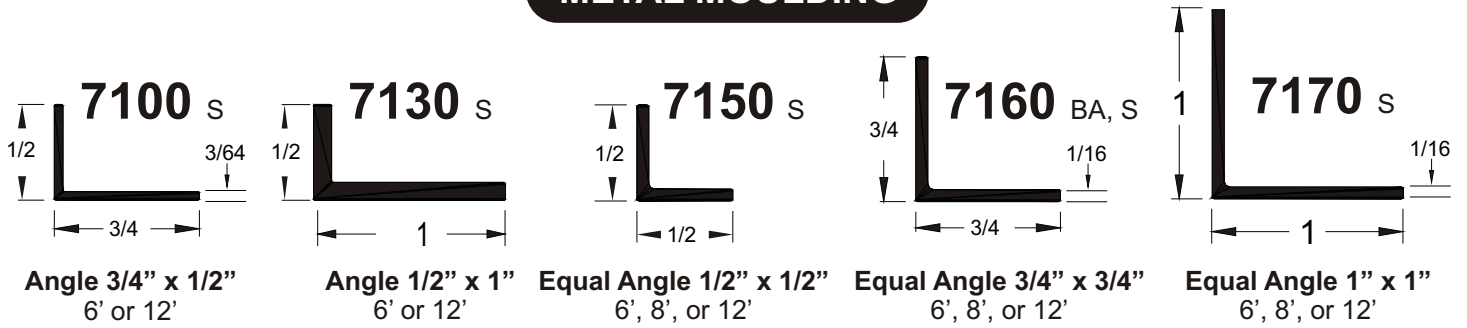
ASTRA-BOLT seals are described on pages 39 – 43.

Replacement Seal for any product may be ordered by providing the product part number.

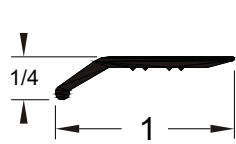
# Section 12 METAL MOULDINGS & FLOOR TRIM

By  **FUTURA INDUSTRIES**

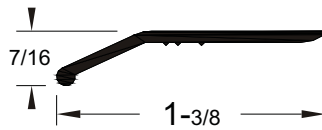
## METAL MOULDING



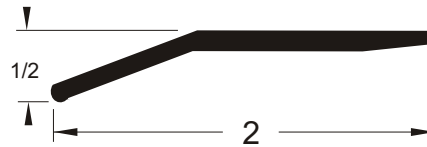
## FLOOR TRIM



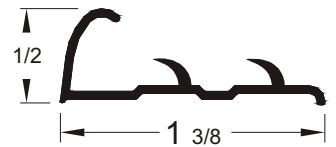
**7600** A,G  
Binder Bar  
3', 6', or 12'



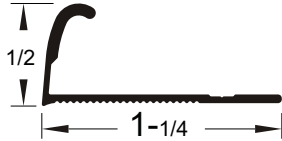
**7610** A, G  
Binder Bar  
3', 6', or 12'



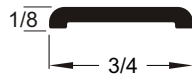
**7620** A,G  
Binder Bar  
3', 6', or 12'



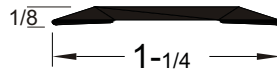
**7640** A,G  
Clampdown w/pins  
3', 6', or 12'



**7650** A,G  
Pinless Clampdown  
3', 6', or 12'



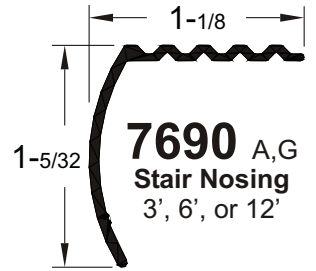
**7660** G  
Seam Cover  
3' or 6'



**7670** A  
Seam Cover  
3', 6', or 12'

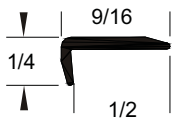


**7680** A  
Overlap Edging  
6' or 12'

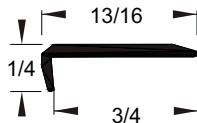


**7690** A,G  
Stair Nosing  
3', 6', or 12'

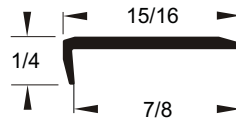
## EDGE FACING & WALL BOARD TRIM



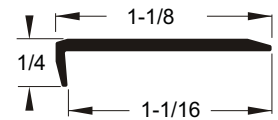
**7700** BA  
Plain Facing  
6' or 12'



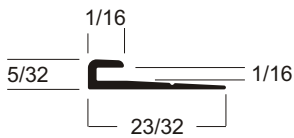
**7710** BA  
Plain Facing 3/4"  
6' or 12'



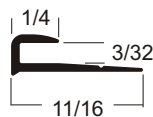
**7720** BA  
Plain Facing 7/8"  
6' or 12'



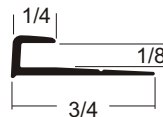
**7730** BA  
Plain Facing 1-1/16"  
6' or 12'



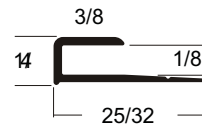
**7790** A  
1/16 Flat Back  
6' or 12'



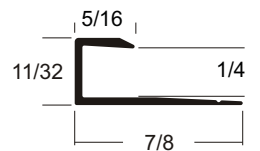
**7800** A  
Punched and slotted  
on 2" centers  
6' or 12'



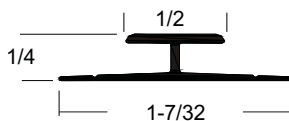
**7810** A  
Punched and slotted  
on 2" centers  
6' or 12'



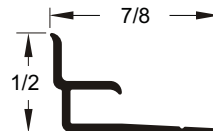
**7820** BA  
1/8" Cap  
8'



**7830** BA  
1/4" Coving Cap  
8'



**7850** BA  
1/8" Divider  
8'



**7880** BA  
Inside Corner Cove  
8'

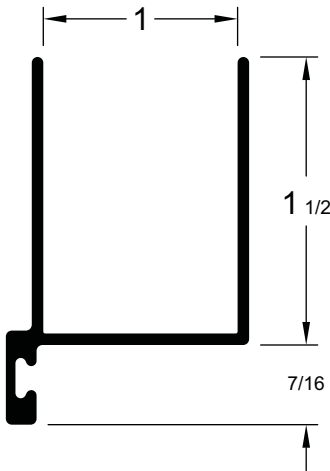
Section **13** SECURITY DOOR COMPONENTS

**ALUMINUM COMPONENTS FOR STEEL SECURITY DOORS**

All parts sold at specified lengths and in box quantities only, as indicated below.  
No mounting holes or fasteners provided.

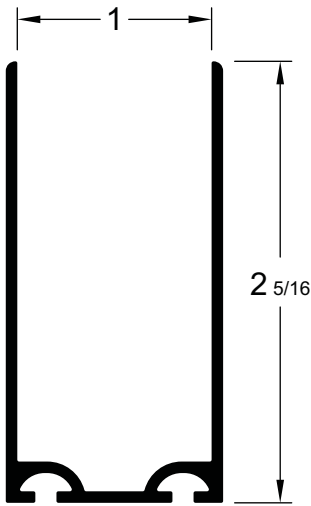
**ASTRAGAL**

PART NO	LENGTH	BOX QTY
6100	100"	10
6104	85"	10



**EXPANDER**

PART NO	LENGTH	BOX QTY
6116	52"	20
6118	38"	20



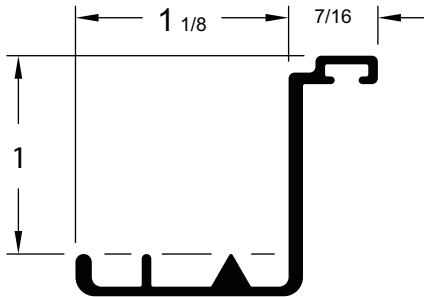
**9060V**  
(FOR EXPANDER)



Extruded Vinyl  
Fin Seal,  
3/8" Reach,  
1000'/roll,  
Color: Black

**Z-BAR**

PART NO	LENGTH	BOX QTY
6134	100"	25
6138	85"	25
6148	52"	25
6146	34-1/8"	25





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The background is split diagonally from the bottom-left to the top-right. The upper-left portion is dark blue with a series of parallel, slightly curved lines running diagonally. The lower-right portion is a solid, vibrant red. Four silver, metallic-looking teardrop-shaped objects, resembling rivets or bolts, are arranged diagonally across the image, from the top-left towards the bottom-right. They have a reflective surface with highlights and shadows, giving them a three-dimensional appearance. The largest one is in the foreground, partially overlapping the red section, while the others are progressively smaller and further back.

**Quality Weatherstrip Products Since 1959**

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