



ASTRAGALS & MEETING STILES

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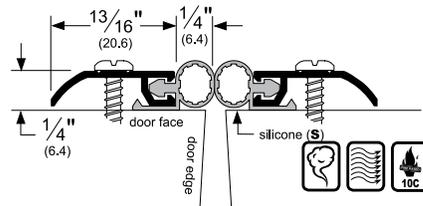
Astragal and Meeting Stile Gasketing - Split Astragals

- Astragals and meeting stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of **NFPA 80, 2-3.1.7** "The clearance between the meeting edges of doors swinging in pairs on the pull side shall be $\frac{1}{8}'' \pm \frac{1}{16}''$ (3.18mm \pm 1.59mm) for steel doors and shall not exceed $\frac{1}{8}''$ (3.18mm) for wood doors"

- Order split astragals at two (2) pieces by door height per set of double doors
- Punched with slotted holes for adjustment
- All clear anodized brush products are supplied with gray brush (available with black brush upon request). Other finishes supplied with black brush

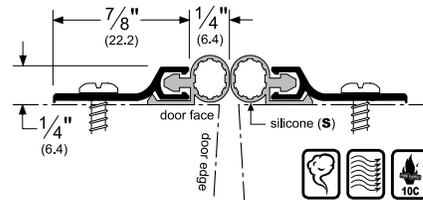
297_S

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN



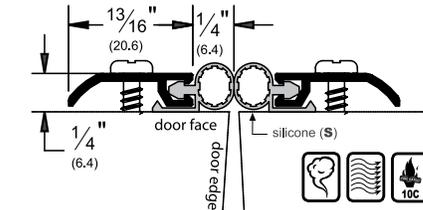
303_S

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN



316_S

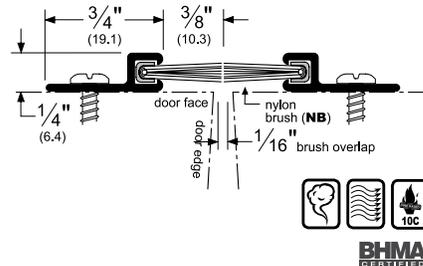
AVAILABLE FINISHES:
A, BDG, D, G



18041_NB

AVAILABLE FINISHES:
C, D, G, SN

NOTE: Brush should mesh from $\frac{1}{32}''$ to $\frac{1}{16}''$.



Alternate Inserts For 297

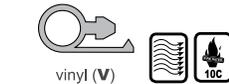
297_PK

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN



297_V

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN



Alternate Inserts For 303

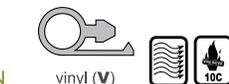
303_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN



303_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN



Alternate Inserts For 316

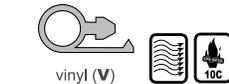
316_PK

AVAILABLE FINISHES:
A, BDG, D, G



316_V

AVAILABLE FINISHES:
A, BDG, D, G



Alternate Inserts For 18041

18041_SB

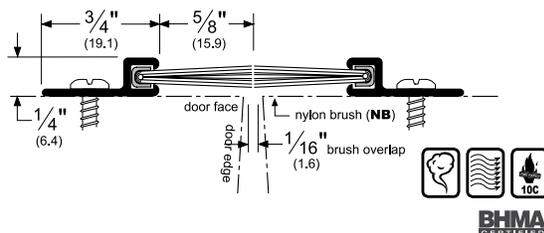
AVAILABLE FINISHES:
C, D, G, SN



18061_NB

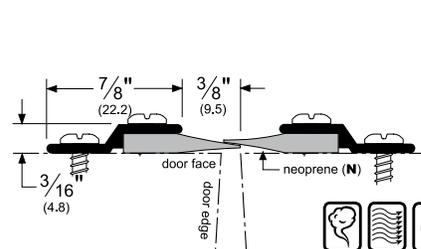
AVAILABLE FINISHES:
C, D, G, SN

NOTE: Brush should mesh from $\frac{1}{32}''$ to $\frac{1}{16}''$.



305_N

AVAILABLE FINISHES:
B, C, D, G



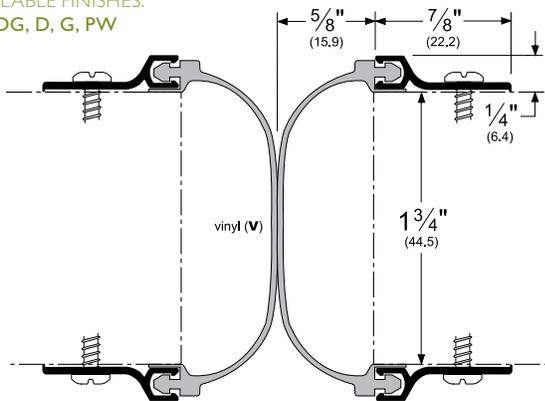
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

A (Mill Finish Aluminum) BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized) Special finishes available upon request

Astragal and Meeting Stile Gasketing - Split Astragals (Cont.)

318_V

AVAILABLE FINISHES:
A, BDG, D, G, PW



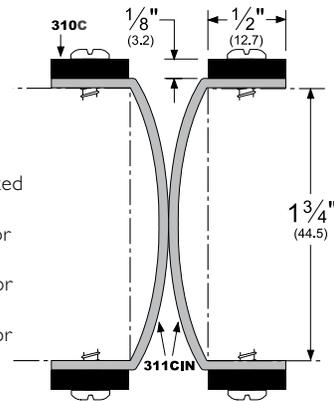
310_*

311CIN

AVAILABLE FINISHES:
C, D, G

- Material required for one pair of doors:
 - 4 ea. 310 bars and
 - 2 ea. 311CIN cloth inserted rubber pieces
 - Specify 311CIN3.75 for 1 3/4" thick doors
 - Specify 311CIN4.00 for 2" thick doors
 - Specify 311CIN4.25 for 2 1/4" thick doors

* Sold individually

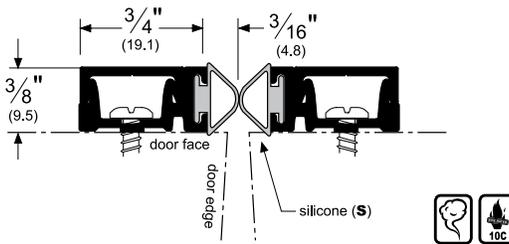


Split Astragals with Snap Covers – Concealed Fasteners

- Snap cover helps prevent vandalism and adds an attractive finished look by concealing the fasteners

29310_S

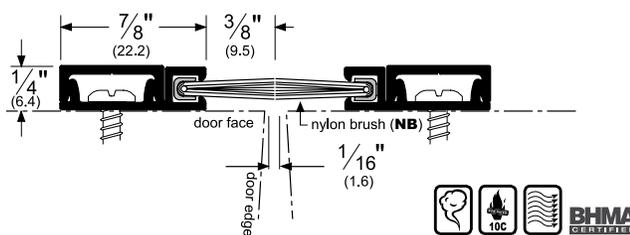
AVAILABLE FINISHES:
C, D, G



29324_NB

AVAILABLE FINISHES:
C, D, G

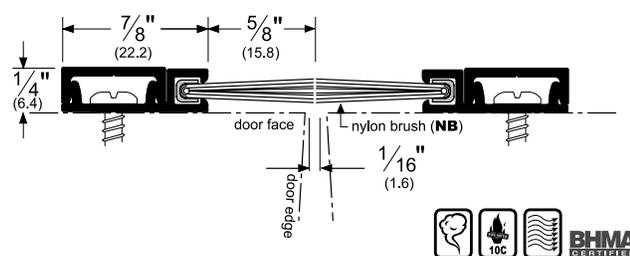
NOTE: Brush should mesh from 1/32" to 1/16".



29326_NB

AVAILABLE FINISHES:
C, D, G

NOTE: Brush should mesh from 1/32" to 1/16".



Alternate Inserts For 29310

29310_PK

AVAILABLE FINISHES:
C, D, G



29310_P

AVAILABLE FINISHES:
C, D, G



29310_V

AVAILABLE FINISHES:
C, D, G



Alternate Inserts For 29324

29324_SB

AVAILABLE FINISHES:
C, D



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized) Special finishes available upon request

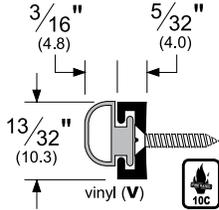
Meeting Stile Gasketing

- Astragals / Meeting Stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of NFPA 80, 2-5.4

- These products (except _71) do not work well on beveled-edge pairs of doors

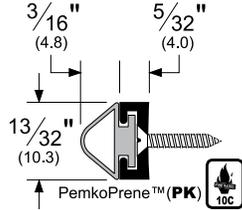
369_V

AVAILABLE FINISHES:
A, D, G



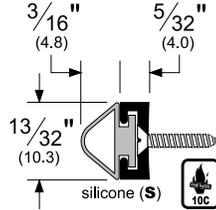
369_PK

AVAILABLE FINISHES:
A, D, G



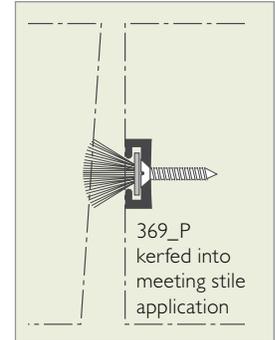
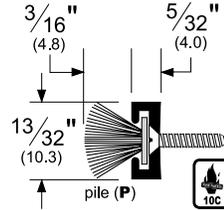
369_S

AVAILABLE FINISHES:
A, D, G



369_P

AVAILABLE FINISHES:
A, D, G



A371P

A372P

- Available in 84" and 96" lengths
- Available in gray pile only
- Fasten with nails or staples through pile and backing, or use adhesive. Fasteners not supplied
- Pile and backing do not separate

300_P

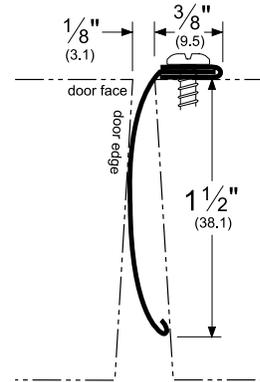
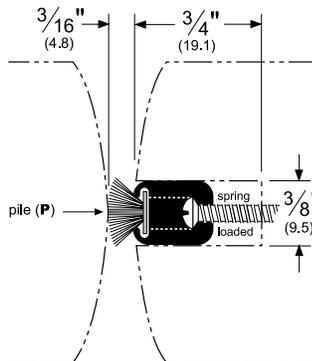
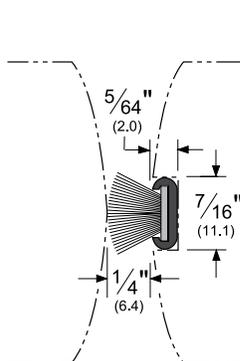
AVAILABLE FINISHES:
B, C, D, G

- For a 3/8" gap (or smaller) between doors
- Spring-loaded from back side

B71

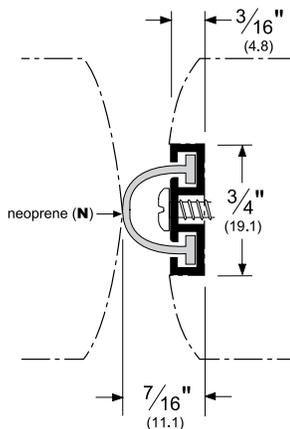
SS71

- .008 gauge hemmed spring bronze with .015 gauge brass retainer
- .008 gauge hemmed stainless steel with .020 gauge stainless steel retainer
- Available in 96" length only



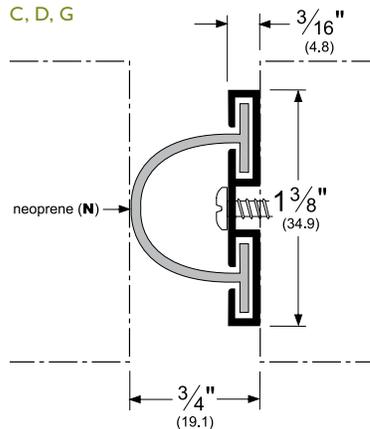
313_N

AVAILABLE FINISHES:
A, D, G



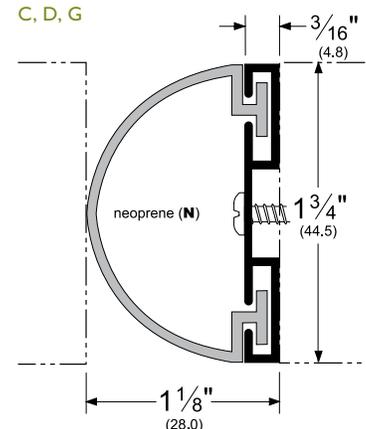
314_N

AVAILABLE FINISHES:
C, D, G



358_N

AVAILABLE FINISHES:
C, D, G



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

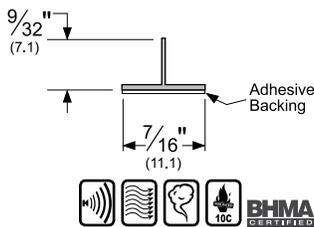
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) B (Hemmed Spring Bronze) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) SS (Stainless Steel) Special finishes available upon request

Adhesive Astragal/Meeting Stile Seals

- The **S771** and **S772** astragal/meeting stile seals can be installed on virtually any pair of doors where sound attenuation is required. These products seal the opening to prevent heat loss, retard the passage of smoke, and act as a weatherization product
- Excellent resistance to compression set, particularly at elevated temperatures and for extended periods of time
- Stays flexible between -58°F and 450°F with very high resistance to flex fatigue
- Maintains a low closing force
- Easy installation requires no mechanical fasteners; can be cut to size in the field

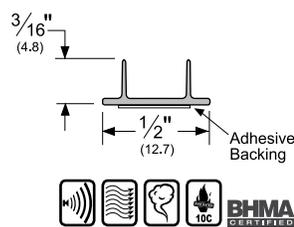
S771_

AVAILABLE FINISHES: **C, D, W**
AVAILABLE LENGTHS: 7', 8', 9', 10'



S772_

AVAILABLE FINISHES: **D, W**
AVAILABLE LENGTHS: 7', 8', 10'



Notes For All Adhesive Gasketing:

Storage and shelf life: All adhesive gaskets have a limited shelf life. This product must be installed within 6 months of purchase and must be stored between 50°F and 100°F.

For further notes/details, please see Adhesive Gasketing section.

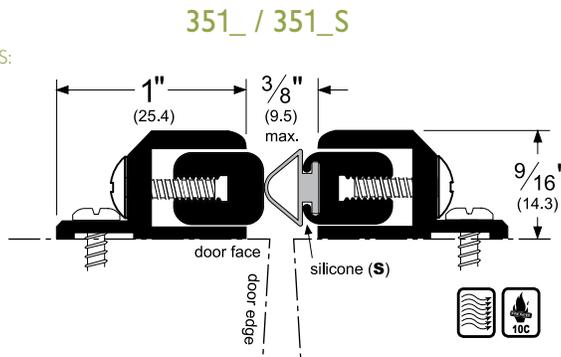
Adjustable Astragals

- Available in 84", 96" and 120" lengths
- When used as split astragals on double doors, two lengths must be ordered: one for each door

351_S

AVAILABLE FINISHES:
B, C, D, G

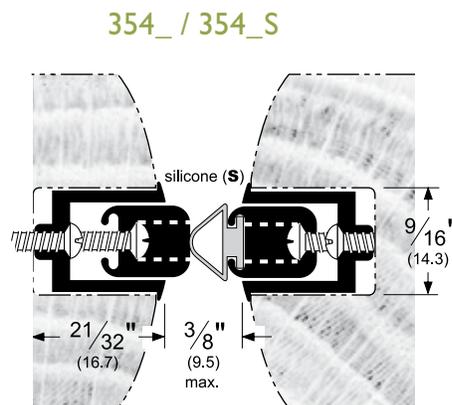
- Surface applied



354_S

AVAILABLE FINISHES:
B, C, D, G

- Fully mortised



NOTE: If you require split astragals in a metal to gasket configuration, you must order each leaf separately with your choice of insert in the tables below

Alternate Inserts For 351

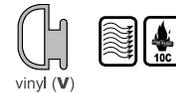
351_PK

AVAILABLE FINISHES:
B, C, D, G



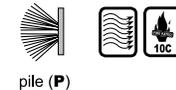
351_V

AVAILABLE FINISHES:
B, C, D, G



351_P

AVAILABLE FINISHES:
B, C, D, G



Alternate Inserts For 354

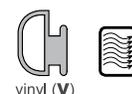
354_PK

AVAILABLE FINISHES:
B, C, D, G



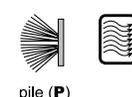
354_V

AVAILABLE FINISHES:
B, C, D, G



354_P

AVAILABLE FINISHES:
B, C, D, G

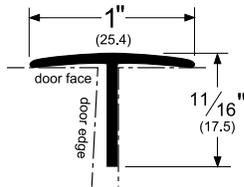


AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
Special finishes available upon request

"T" and Overlapping Astragals

359_

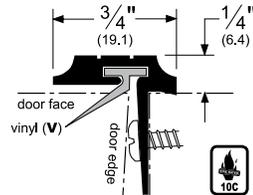
AVAILABLE FINISHES:
A, B, BDG, DW



356_V

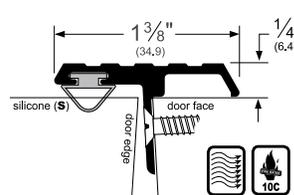
AVAILABLE FINISHES:
A, BDG, D, PW, SN

- Countersink drilling with countersunk flathead screws also available upon request at no extra charge



355_S

AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN



Alternate Inserts For 355

355_V

AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN



355_P

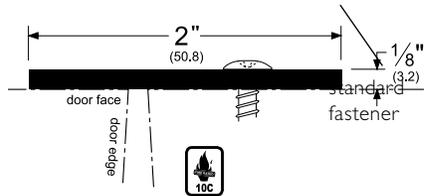
AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN



357_ 357_ND

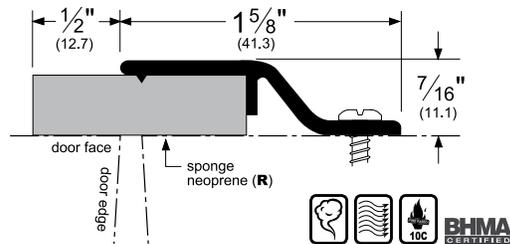
AVAILABLE FINISHES:
C, D, G, SP, SS (#4 Finish & #4 Edge)

- "ND" denotes "no drill" (unless specified "ND", astragals are drilled)
- Standard fastener is #10 x 1" Truss Head SMS



375_R

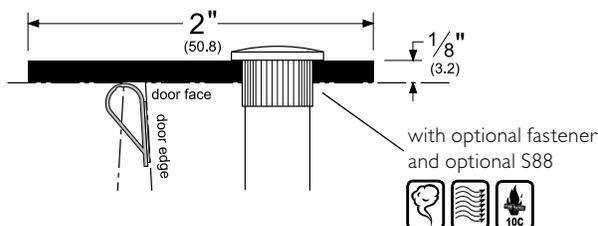
AVAILABLE FINISHES:
B, C, D, G



357_ with S88

AVAILABLE FINISHES:
SP, SS (#4 Finish & #4 Edge)

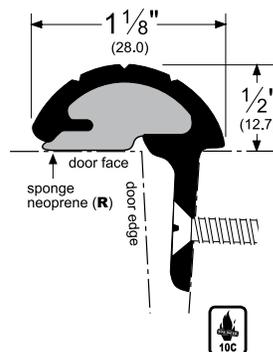
- 1/4" - 20 machine screws and thru-bolts must be ordered separately at additional cost
- Standard fastener is #10 x 1" Truss Head SMS
- S88 (see Adhesive Gasketing section) must be ordered separately at an additional cost, if required



352_R

AVAILABLE FINISHES:
C, D, G

For reverse bevel doors



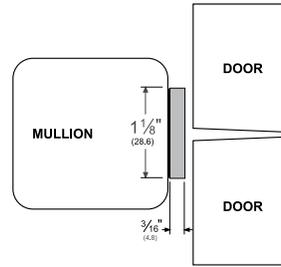
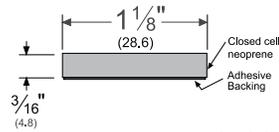
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized) SP (Galvannealed Steel) SS (See Individual Part) Special finishes available upon request

Adhesive-Backed Mullion Gasketing

5110_

AVAILABLE FINISH: **BL**
AVAILABLE LENGTHS: 120"



Offset Security Bar

- For use on single outswing wood or metal doors
- Covers gap between the door and jamb for the full door height, preventing prying and manipulation

- 3572_ supplied drilled 12" on center with 1/4" holes; "ND" denotes "no drill"

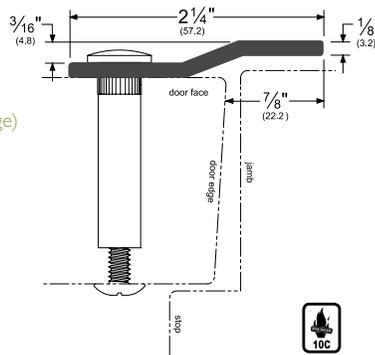
3572_

3572_ND

AVAILABLE FINISHES:
SP, SS (#4 Finish & #4 Edge)

AVAILABLE LENGTHS:
80", 84" and 96"

10 GAUGE

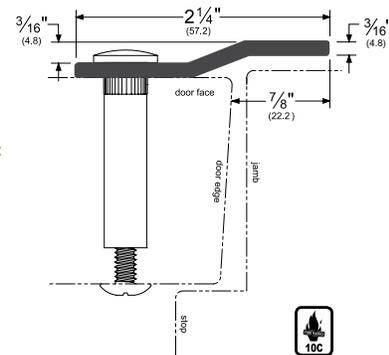


3572PP7

3572PP7ND
AVAILABLE FINISHES:
PP

AVAILABLE LENGTHS:
84"

7 GAUGE



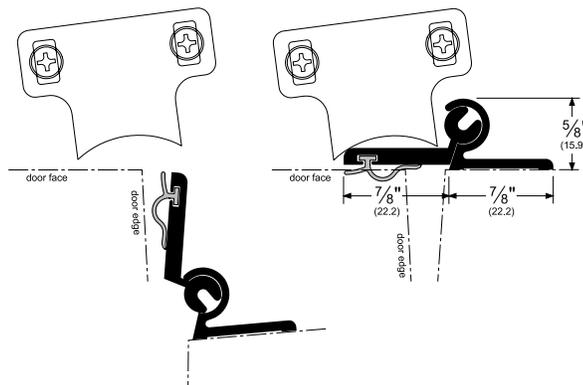
Security Astragal

- Automatic security astragal for outswing pairs of wood and metal doors
- Discourages manipulation of panic-type hardware
- Astragal is held flush against other door by 1/2" thick cam (cam and mounting screws included)
- Anodized aluminum with vinyl seal and stainless steel operating spring

- Either door may be active without requiring a coordinator
- Only available in 86" and 96" lengths. Parts can be trimmed 12" maximum from each end
- Should be mounted prior to attaching panic hardware to eliminate the problem of interference
- Must be installed on the inside and top of a pair of outswing doors

378_

AVAILABLE FINISHES:
C, D, G



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze [Brass]) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PP** (Prime Painted)
Special finishes available upon request

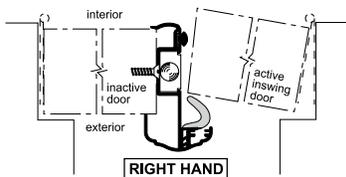
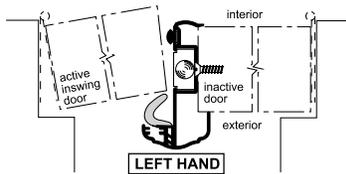
Locking Astragals

- Weatherstripped astragals with locking spring bolts or slide bolts for 1¾" inswing double doors
- Odd numbered astragals have econ-omical smooth acting slide bolts. Slide bolts are 18" from the top/bottom for easier access. Even numbered astragals have locking spring bolts. Both have full ¾" diameter steel bolts with 1½" throw. In the extended and locked position, locking spring bolts cannot be easily retracted by tampering. In the retracted position, the spring loaded bolts latch firmly, preventing marking of the floor and door header trim when opening or closing the inactive door
- Styles 3493 thru 3498 come with a molded sponge neoprene bottom seal
- All feature four-way adjustable strike plate mounting for latchbolt and deadbolt
- All come with a vinyl snap-in cover strip to conceal the cutout and cover the mounting screws
- Astragal stock lengths are 80", 84", 96" and 120"
- A standard deadbolt punchout is ¾" x 4" at 40" on center. Punchout supplied on request only
- Punchout supplied on request only
- For non-stock astragals, specify deadbolt punchout size and center distance from top end
- Specify handing using the handing chart on page AM-8 or AM-11

Handing Chart For Astragals

(For pages AM-8 thru AM-10)

An astragal is handed by the hand of the active door. The hand of the active door is determined by the position of the hinges on the door, when viewed from the outside (the key side)



Slimline style with slide bolt

3493_S

3493_V

AVAILABLE FINISHES:
BDG, C, D, G, PW, SN

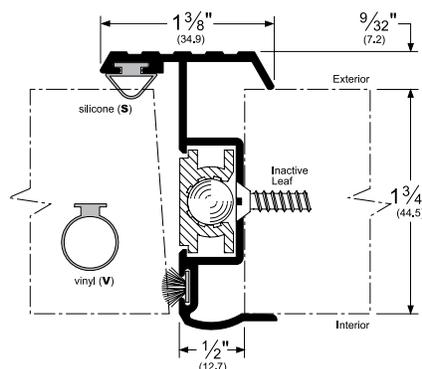
3493 also available with 18" slide bolt (at additional cost) for easier access (specify "L" at the end of the product number for this option i.e. **3493_VL**)

Slimline style with locking spring bolt

3494_S

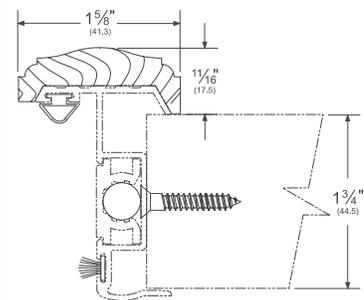
AVAILABLE FINISHES:
BDG, C, D, G, PW, SN

Slimline Style



Oak Fascia

OAK349-96



- Available in 96" length only
- The oak fascia is attached to the face of 3493/3494 locking metal astragals, providing a aesthetic appearance while utilizing the mechanical advantages of the locking metal astragals
- The oak fascia is supplied unfinished to allow for custom matching

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

BDG (Bright Dip Gold Anodized) **C** (Clear Anodized) **BL** (Black) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)
Special finishes available upon request

Locking Astragals Colonial Style

Colonial style with slide bolt

3495_M

3495_Q

AVAILABLE FINISHES:
BDG, C, D, PW, SN

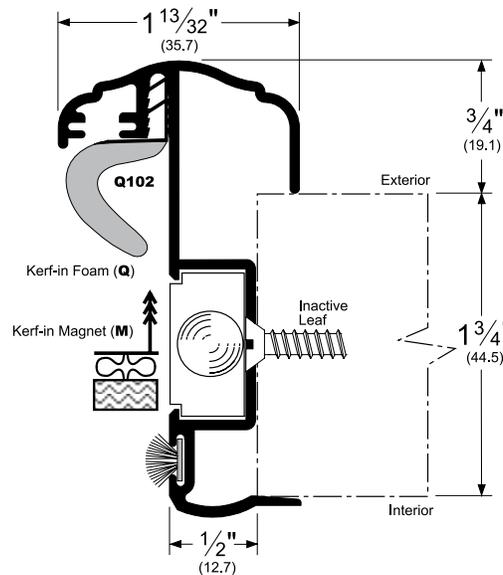
- 3495 available with 18" aluminum bar; specify "L" at the end of product number (i.e. 3498_Q96L)

Colonial style with locking spring bolt

3496_M

3496_Q

AVAILABLE FINISHES:
BDG, C, D, G, PW, SN

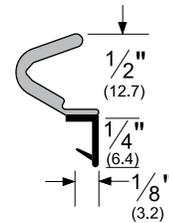


Q108_

AVAILABLE FINISHES:

BL, W

Available with Q108 insert only upon request



Colonial Style with Thermal Break

Colonial style with slide bolt and thermal break

3497_M

3497_Q

AVAILABLE FINISHES:
BDG, C, D, PW

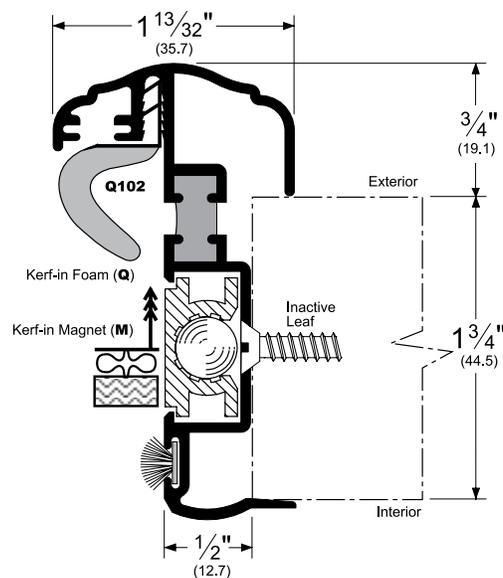
- 3497 available with 18" aluminum bar; specify "L" at the end of product number (i.e. 3497_M96L)

Colonial style with locking spring bolt and thermal break

3498_M

3498_Q

AVAILABLE FINISHES:
BDG, C, D, PW



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

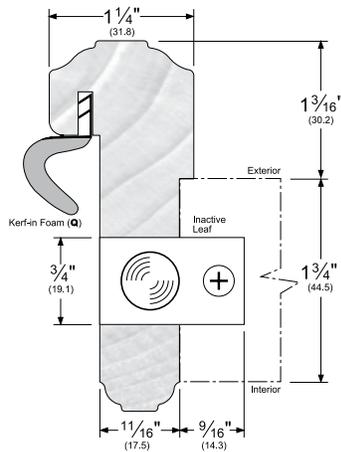
BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (White) SN (Satin Nickel Anodized)
Special finishes available upon request Kerf Colors: BL (Black) W (White)

Locking Wood Astragals

- Fir and Oak are clear, stain grade with no knots on visible surfaces
- **3481's** are supplied with a hardware kit including:
Two (2) bright brass sliding type flush bolt assemblies

3481_Q

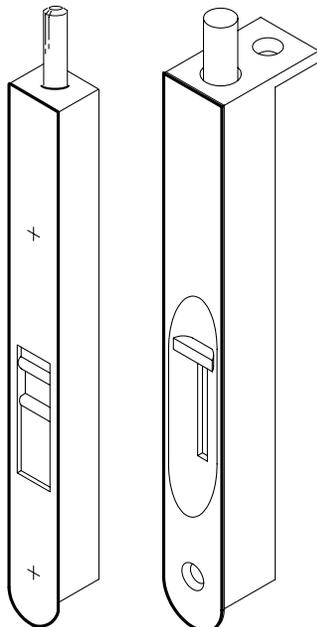
AVAILABLE FINISHES:
FIR , OAK



3483FB

3481FB

- Flush bolt face plates for 3483FB are 3/4" x 7".
Face plates for 3481FB are 3/4" x 6"
- A 3/4" x 9/16" x 1/8" notch at the top of the door is required for the flush bolt mounting flange on 3481FB
- Flush bolt assemblies for locking wood astragals can be purchased separately

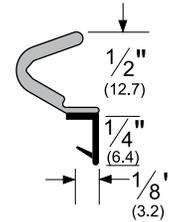


Illustrations not to scale.

(5/16" diameter x 1" long throw bolt) and one 1/2" thick sponge neoprene bottom seal with double faced adhesive for attachment (non-handed)

Q108_

AVAILABLE FINISHES:
D, W
3481 available with **Q108**
insert only upon request

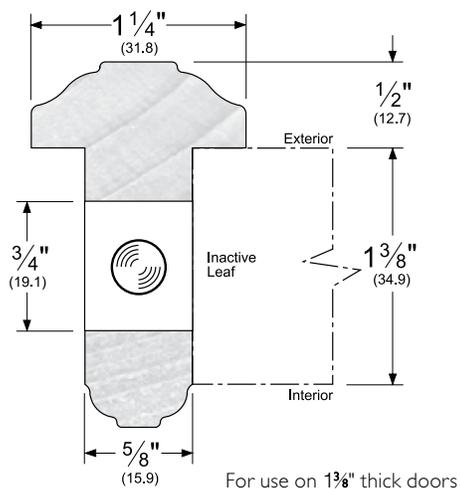


3483_ (0 flush bolts)

34831_ (1 flush bolt)

34832_ (2 flush bolts)

AVAILABLE FINISHES:
FIR , OAK



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

BDG (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (White) **SN** (Satin Nickel Anodized)
Kerf Colors: **BL** (Black) **W** (White)

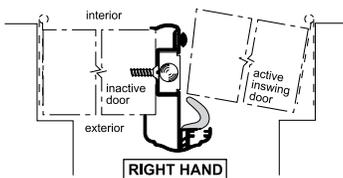
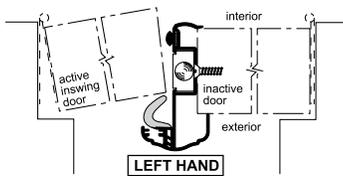
Outswing Locking Astragals

- Weatherstripped astragals with locking spring bolts or slide bolts for 1 $\frac{3}{4}$ " outswing double doors. Slide bolts are 18" from the top/bottom for easier access
- Odd numbered astragals have economical smooth acting slide bolts. Even numbered astragals have locking spring bolts. Both have full $\frac{3}{8}$ " diameter steel bolts with 1 $\frac{1}{16}$ " throw for improved locking strength. In the extended and locked position, locking spring bolts cannot be easily retracted by tampering. In the retracted position, the spring loaded bolts latch firmly, thus preventing marking of the floor and door header trim when opening or closing the inactive door
- All come with a vinyl snap-in cover strip to conceal the cutout and to cover the mounting screws
- All feature four-way adjustable strike plate mounting for latchbolt and deadbolt
- All styles come with a molded sponge neoprene bottom seal
- Each astragal comes complete with an installation kit and detailed instructions
- Specify punchout locations with your order
- Specify handing using the handing chart below

Handing Chart For Astragals

(For pages AM-11 thru AM-12)

An astragal is handed by the hand of the active door. The hand of the active door is determined by the position of the hinges on the door, when viewed from the outside (the key side)



Slimline Style

Slimline style with slide bolt

3443_S

AVAILABLE FINISHES:

C, D, PW

3443 available with 18" aluminum bar; specify "L" at the end of product number (i.e. 3443_S96L)

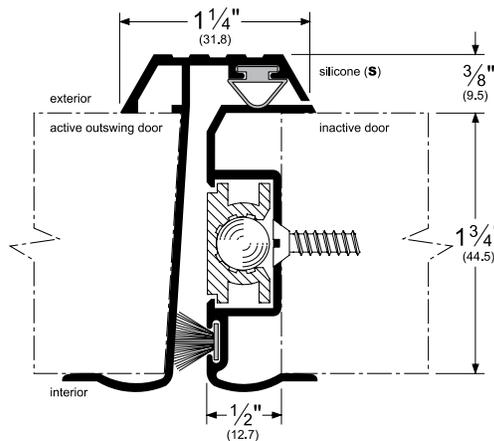
Slimline style with locking spring bolt

3444_S

AVAILABLE FINISHES:

C, D, PW

Slimline Style



Outswing Locking Astragals (Cont.)

Colonial Style

- Can be used when the active outswing door leaf has a square edge

Colonial style with slide bolt

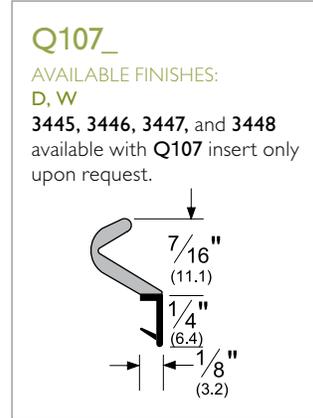
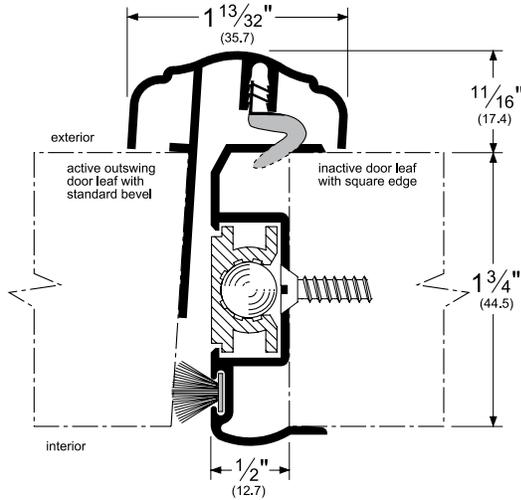
3445_Q

AVAILABLE FINISH:
PW

Colonial style with locking spring bolt

3446_Q

AVAILABLE FINISH:
PW



Colonial Style with Thermal Break

- Can be used when the active outswing door leaf has a square edge

Colonial style with slide bolt and thermal break

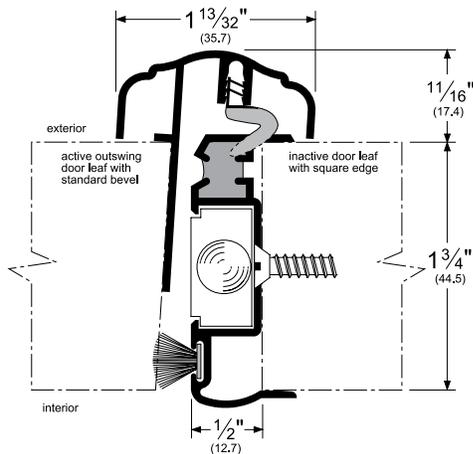
3447_Q

AVAILABLE FINISH:
PW

Colonial style with locking spring bolt and thermal break

3448_Q

AVAILABLE FINISH:
PW



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BDG (Bright Dip Gold Anodized) **PW** (Painted White) Special finishes available upon request
Kerf Colors: **D** (Dark Brown) **W** (White)