

LESSER SCAUPS -

also known as Bluebills

These are the most common Scaup... The other Greater Scaup much less common and only slightly different. For all intents and purposes these are the "Bluebills" hunters prize... Tough targets, cold weather prizes!

ACOUSTICAL



ACOUSTICAL

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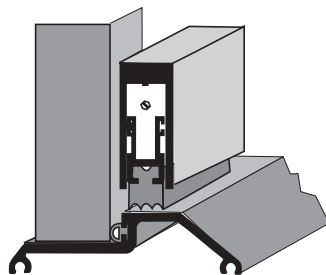
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Sound Transmission Class (STC) Rated Single Door Assemblies

The chart below indicates the STC rating of specially made acoustic doors using various applications of gasketing. The first column is the rating of the door panel only; tested in a static inoperable condition to determine the sound transmission through the door. The second column is the rating of the operable door installed with hardware and gasketing which provides the STC rating of the door assembly.

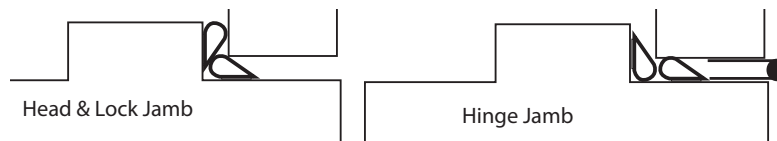
Acoustical testing to ASTM E90 Standard Test Method for Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods, and ASTM E1332 Standard Classification for Rating Outdoor - Indoor Sound Attenuation. The sound transmission class (STC) was calculated in accordance with ASTM E413 Classification for Rating Sound Insulation.



897N x 420N

STC Rating Static Door Panel	STC Rating Operable Door w/ Gasketing	Perimeter Seals	Door Bottom	Threshold
30	30	103N, 107N, 120N, 122N 127N, 133N, 134N, 137N 137S, 303N, 700N, 700S	420N	897N
30	30	130S	225S	896S
30	30	107S	220S	950S
33	31	5020	780S	513
35	33	5025	780S	513
36	33	5050	335N	513
35	34	5020, 5075	780S	513
35	35	5070, 9750, 9850	335S	896S
40	37	5020, 5025	780S	513
40	37	5075	12T	513
40	37	103N, 107N, 303N	420N	897N
40	38	•(2) 5050	335N	896S
40	39	120N, 122N, 133N, 134N 137N, 137S, 700N, 700S	420N	897N
40	39	107S	220S	950S
44	39	1038N, 3038N	423N	896S
43	39	•(2) 5050	420N	412
42	40	•(2) 5050	Mortise 312V	896S
43	40	•(2) 5050	423N	896S
44	40	131N	335N	896S
47	41	103NFS	422N	897N
45	42	•(2) 5050	335N	896S
47	43	•(2) 5050	423N	896S
50	43	103N, 134N	420N	897N
50	43	107S	220S	950S
51	43	159M	420N	897N
48	44	•(2) 5050	423N	896S
49	44	103NFS	422N	8434S
52	44	107N, 131N, 1038N, 3038N	420N	897N

• Indicates 2 rows of 5050 installed as follows:



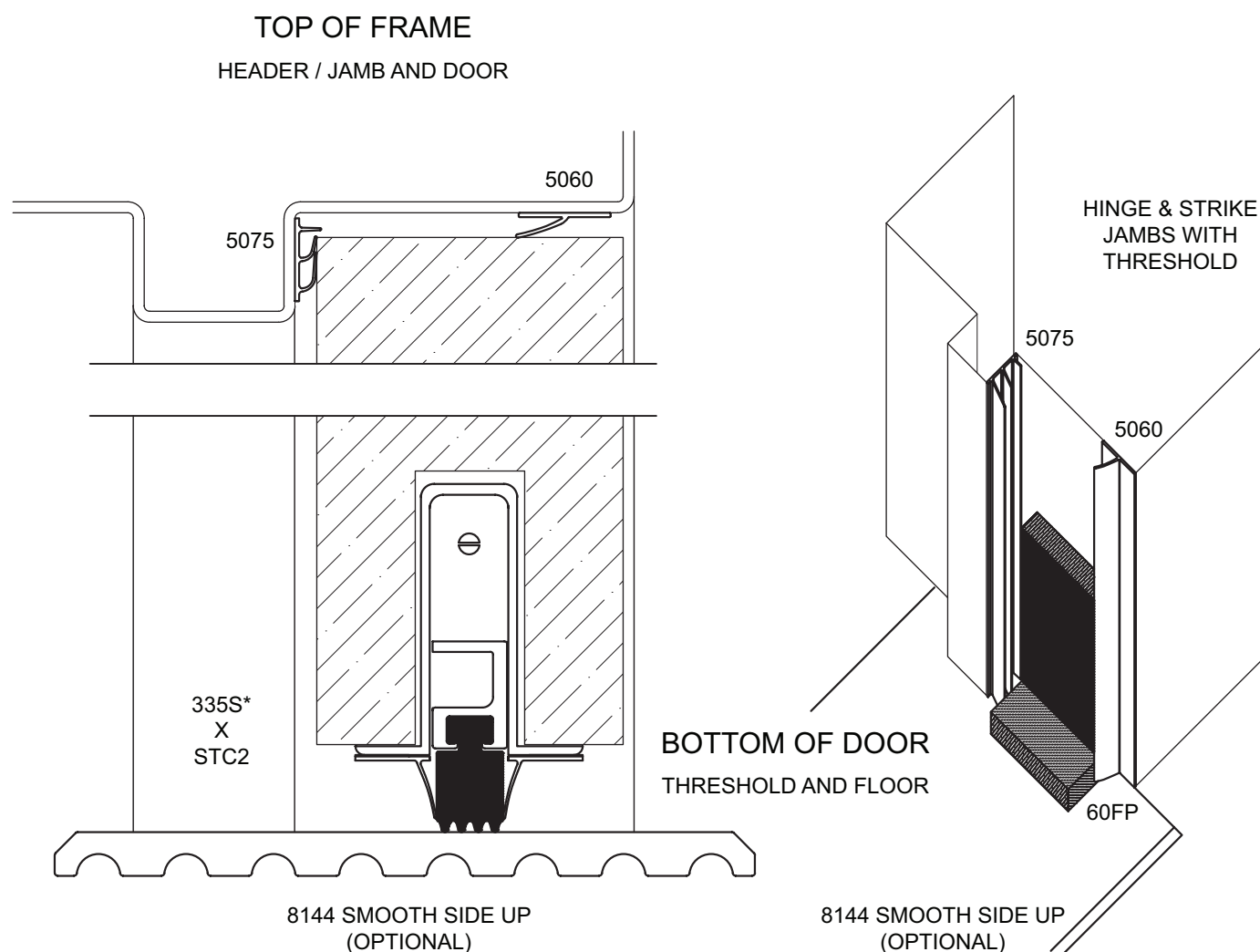
STC Seal Sets - Single Doors

NGP Seal Sets maintain the static door panel STC with NO DROP OFF in an operable condition, up to the STC rating indicated.

STC Seal Set	STC Rating	Perimeter Seals at Heads & Jambs	Door Bottom	Corner Pads	Threshold
1	33	5050 & 2525	312V X 131N	60FP (2 req.)	8144S*
2	45	5075 & 5060	312V X 131N	60FP (2 req.)	8144S*
3	52	5075 & 5060	335S X STC2	60FP (2 req.)	8144S*
4	52	5075 & 5060	12T6 X STC-FH	60FP (2 req.)	8144S*
5	52	5075 & 5060	225S X STC2	60FP (2 req.)	8144S*
6	52	5075 & 5060	None	None	896S-ADJ

*optional

STC #3 Illustration



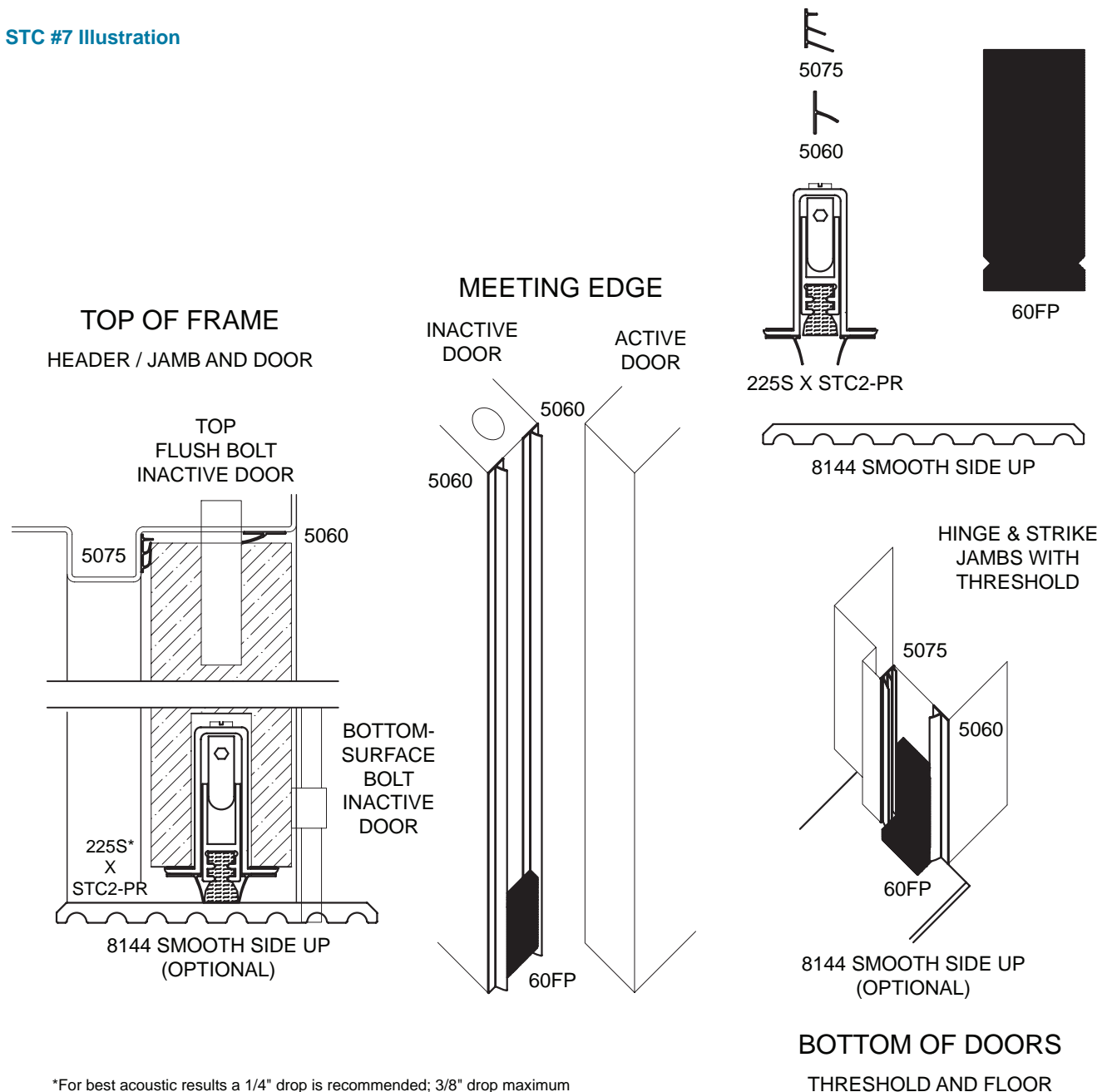
*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

STC Seal Sets - Pairs of Doors

STC Seal Set	STC Rating	Perimeter Seals at Heads & Jambs	Door Bottom	Corner Pads	Meeting Edge Seals	Threshold
7	45	5075 & 5060	225S X STC2-PR	60FP (3 req.)	5060 (2 req.)	8144S*
8	45	5075 & 5060	12T6 X STC-FH	60FP (3 req.)	5060 (2 req.)	8144S*
9	45	5075 & 5060	335S X STC2-PR	60FP (3 req.)	5060 (2 req.)	8144S*

*optional

STC #7 Illustration



*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

Sound Transmission Class (STC) Rated Pairs of Doors

Pairs of doors are intrinsically more difficult to control sound transmission through. Sealing the gap between the meeting edges under the doors is challenging, requiring a combination of properly coordinated and installed gasketing to seal all gaps.

STC Rating Static Door Panel	STC Rating Operable Door w/ Gasketing	Perimeter Seals	Door Bottom	Threshold	Astragal
35	35	5020		896S	5070
35	35	5070		896S	5070
35	34	5020	780S	512	5070
35	33	5025		896S	5070

Standard Doors without Special Acoustic Cores

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

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

PERIMETER AND DOOR BOTTOMS

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

MEETING EDGE of PAIRS

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

School Classroom Door STC Requirements

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

NGP STC SEAL SET #1 FOR USE WITH STC 33 AND BELOW

LIST OF MATERIALS	
ITEMS	LOCATION
5050	JAMBS & HEADER
2525	JAMBS & HEADER
60FP (2 req.)	FRAME, LOWER CORNERS
312V X 131N	DOOR BOTTOM
8144S	THRESHOLD (OPTIONAL)

5050

2525

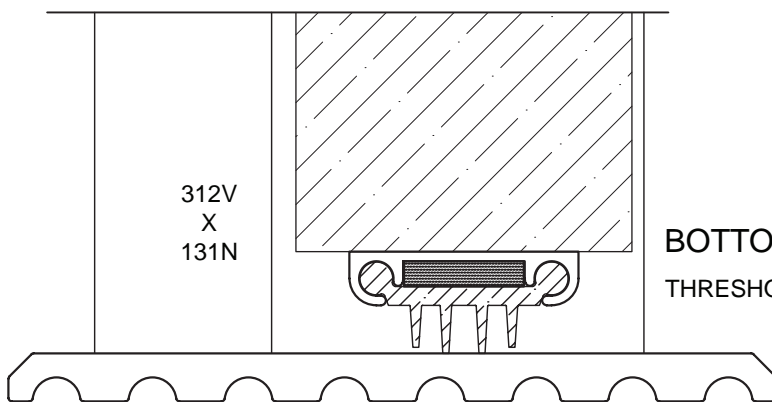
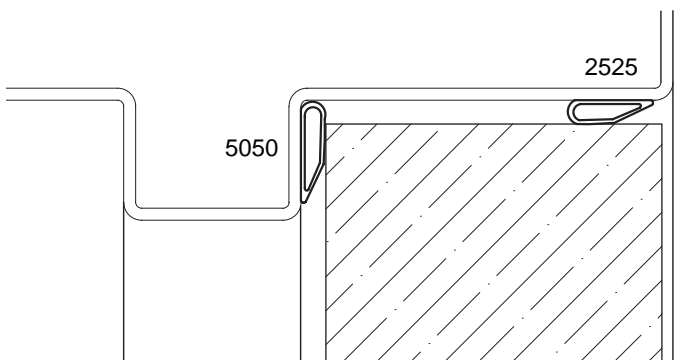
312V X 131N

60FP



8144 SMOOTH SIDE UP

TOP OF FRAME
HEADER / JAMB AND DOOR



8144 SMOOTH SIDE UP
(OPTIONAL)

HINGE & STRIKE
JAMBS WITH
THRESHOLD

5050

2525

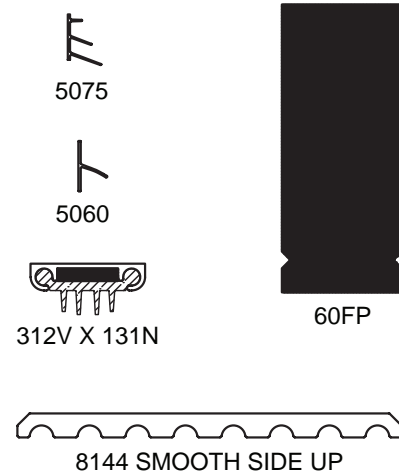
60FP

BOTTOM OF DOOR
THRESHOLD AND FLOOR

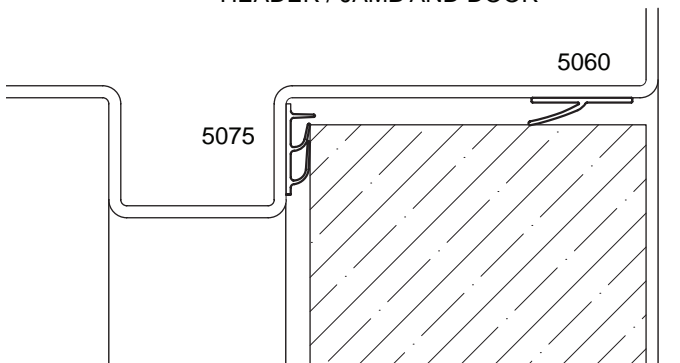
8144 SMOOTH SIDE UP
(OPTIONAL)

NGP STC SEAL SET #2 FOR USE WITH STC 45 AND BELOW

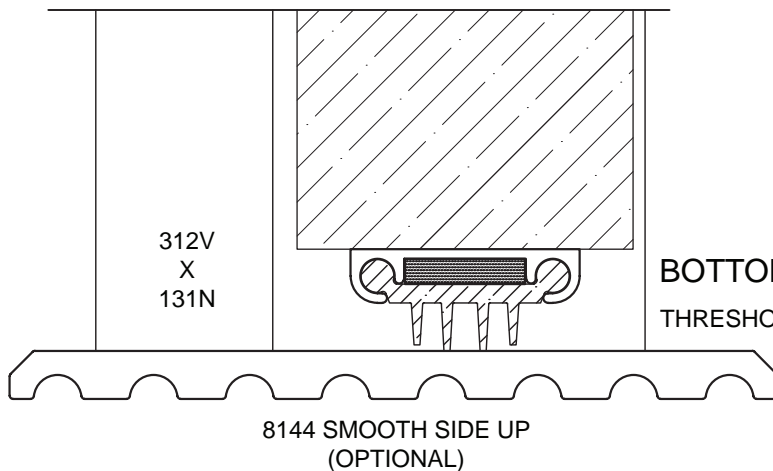
LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.)	FRAME, LOWER CORNERS
312V X 131N	DOOR BOTTOM
8144S	THRESHOLD (OPTIONAL)



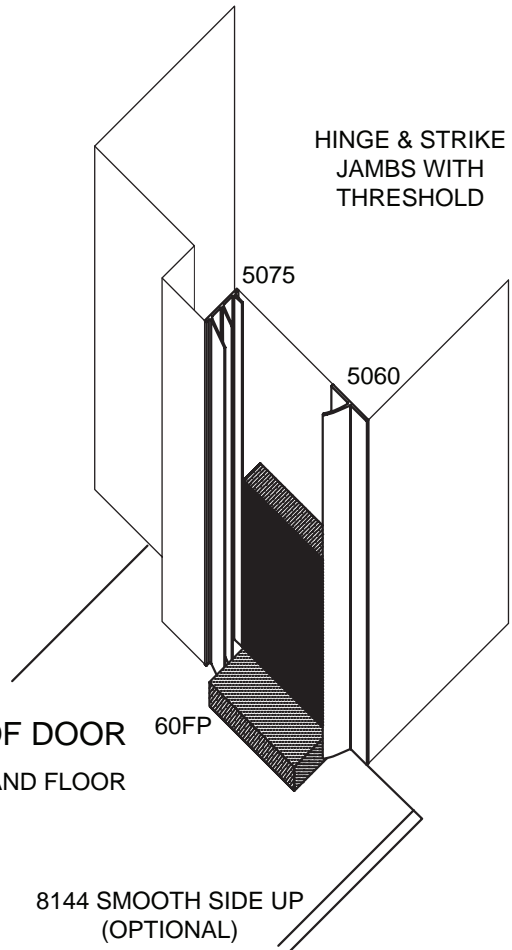
TOP OF FRAME
HEADER / JAMB AND DOOR



BOTTOM OF DOOR
THRESHOLD AND FLOOR



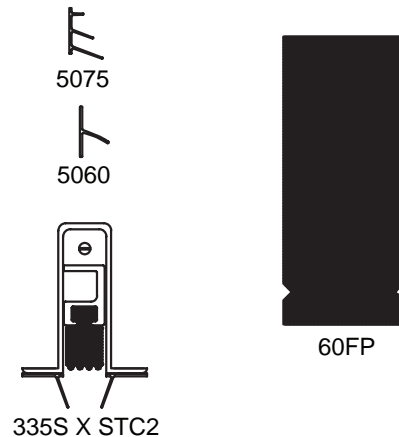
**HINGE & STRIKE
JAMBS WITH
THRESHOLD**



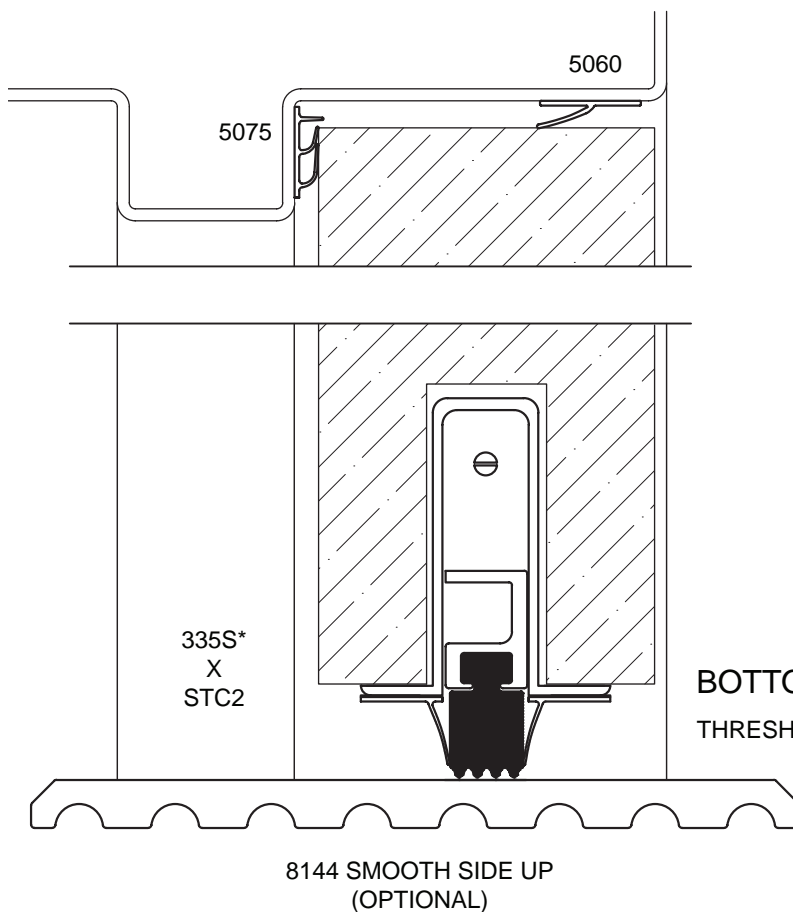


NGP STC SEAL SET #3 FOR USE WITH STC 52 AND BELOW

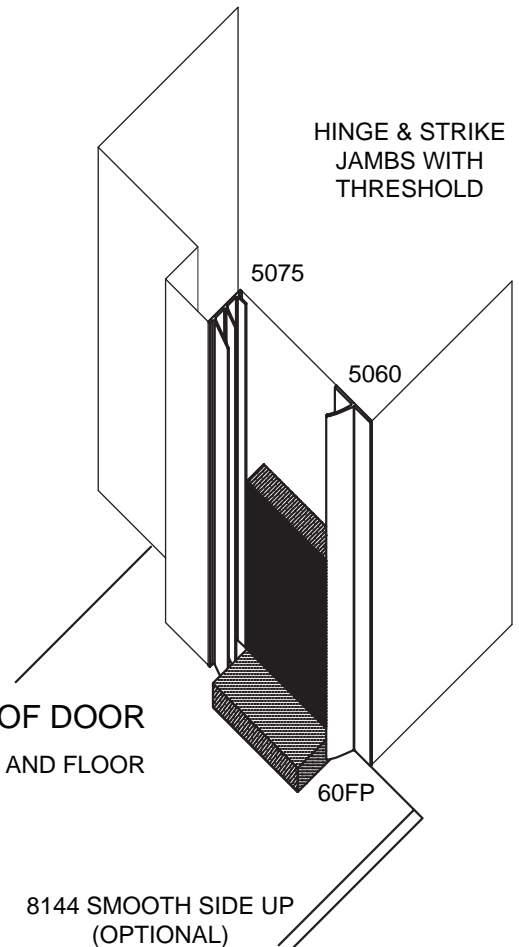
LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.)	FRAME, LOWER CORNERS
335S X STC2	DOOR, MORTISE ADB
8144S	THRESHOLD (OPTIONAL)



TOP OF FRAME
HEADER / JAMB AND DOOR



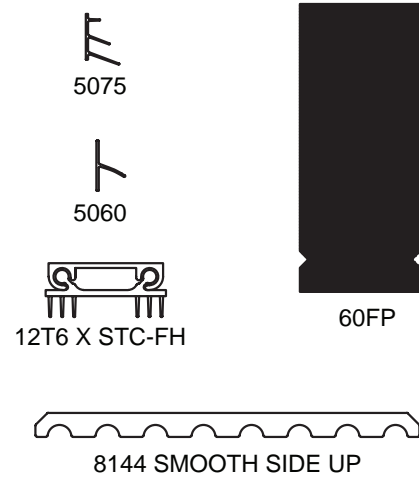
BOTTOM OF DOOR
THRESHOLD AND FLOOR



*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

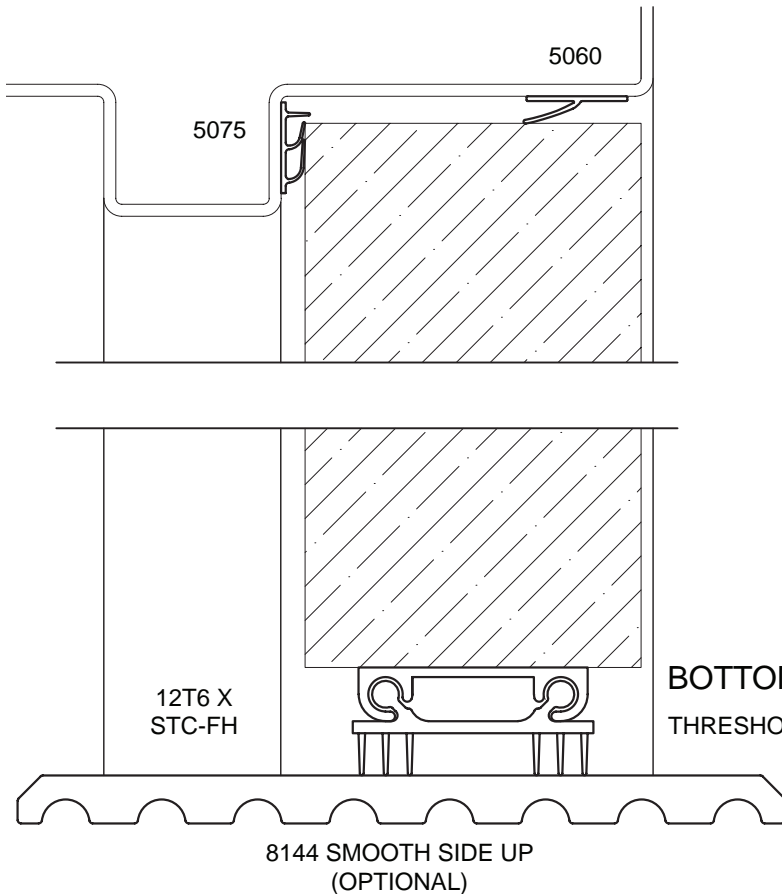
NGP STC SEAL SET #4 FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.)	FRAME, LOWER CORNERS
12T6 X STC-FH	DOOR SHOE WITH STC FASTENER HOLES
8144S	THRESHOLD (OPTIONAL)



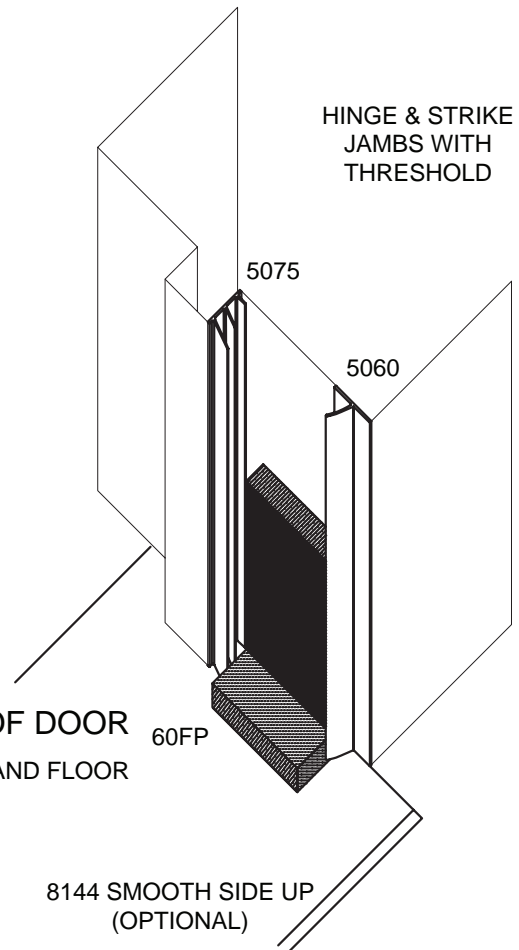
TOP OF FRAME

HEADER / JAMB AND DOOR



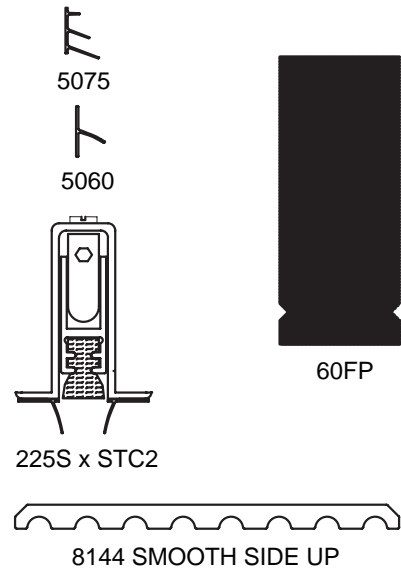
HINGE & STRIKE
JAMBS WITH
THRESHOLD

BOTTOM OF DOOR
THRESHOLD AND FLOOR

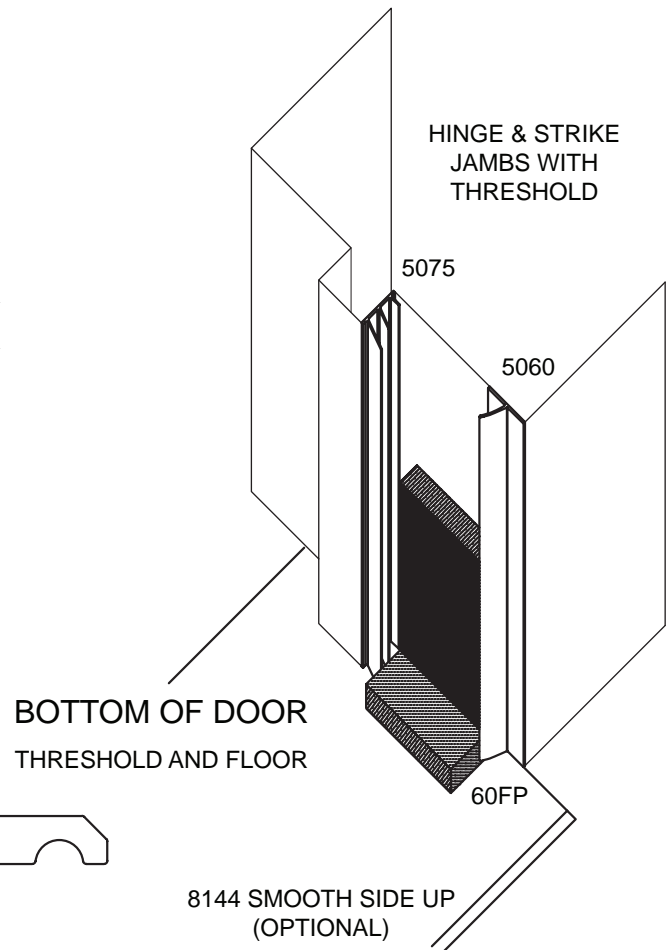
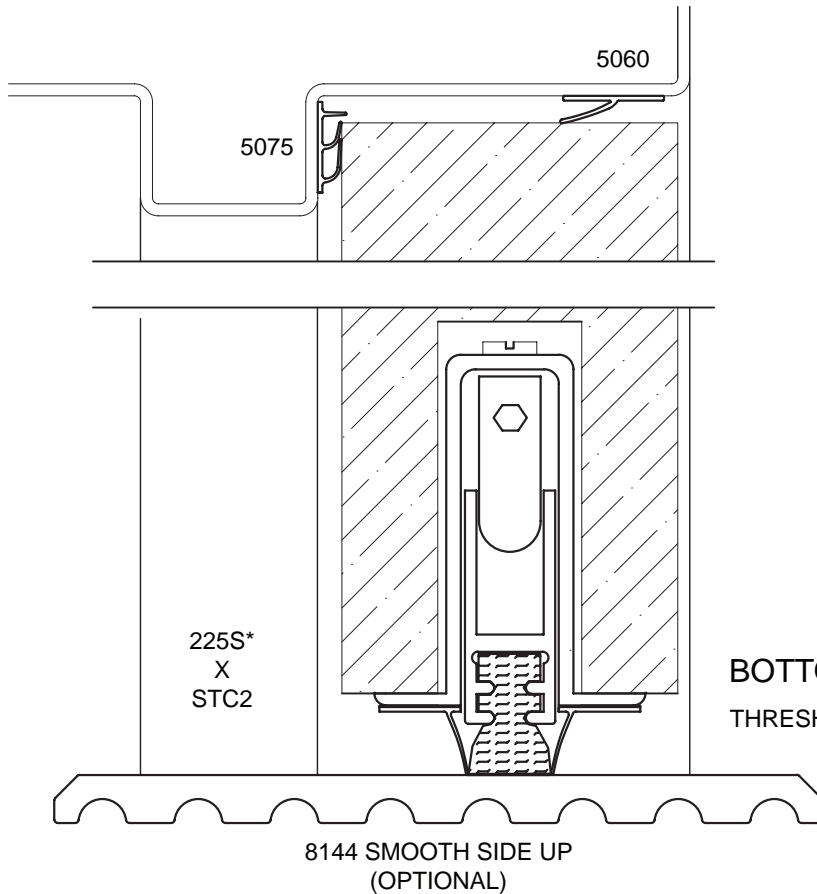


NGP STC SEAL SET #5 FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.)	FRAME, LOWER CORNERS
225S X STC2	DOOR, MORTISE ADB
8144S	THRESHOLD (OPTIONAL)



TOP OF FRAME
HEADER / JAMB AND DOOR



BOTTOM OF DOOR
THRESHOLD AND FLOOR

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

NGP STC SEAL SET #6 FOR USE WITH STC 52 AND BELOW

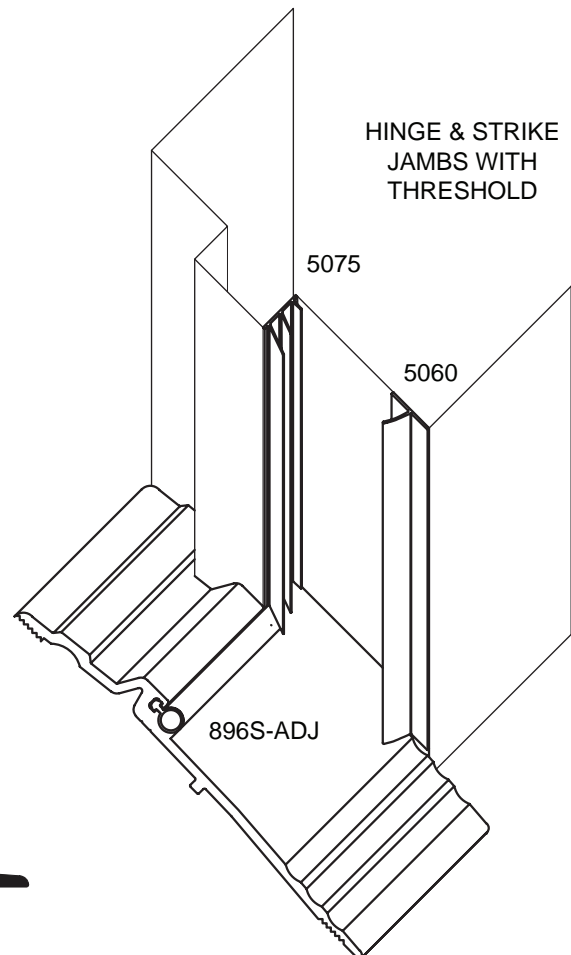
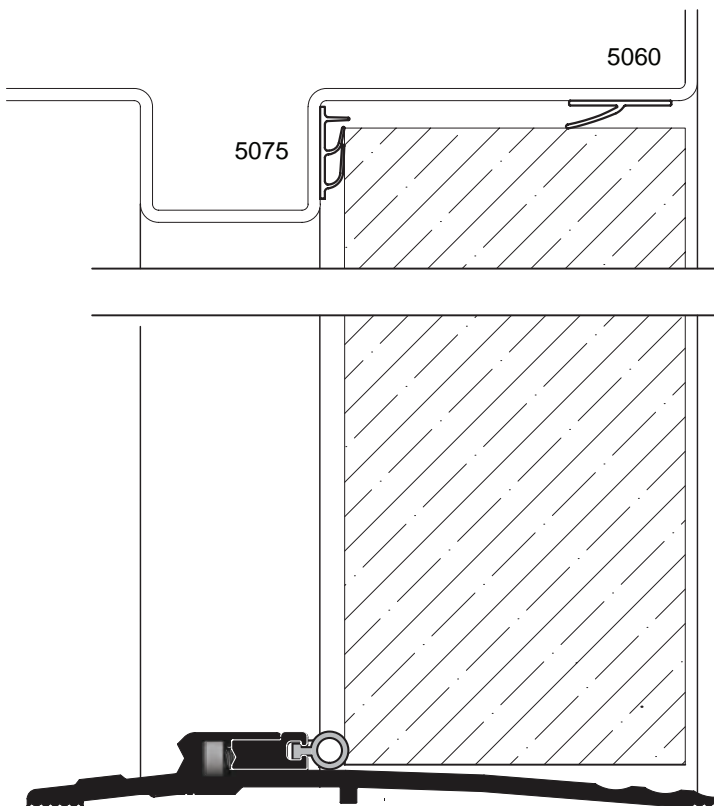
LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
896S-ADJ	ADJUSTABLE BUMPER THRESHOLD

5075

5060

896S-ADJ

TOP OF FRAME
HEADER / JAMB AND DOOR

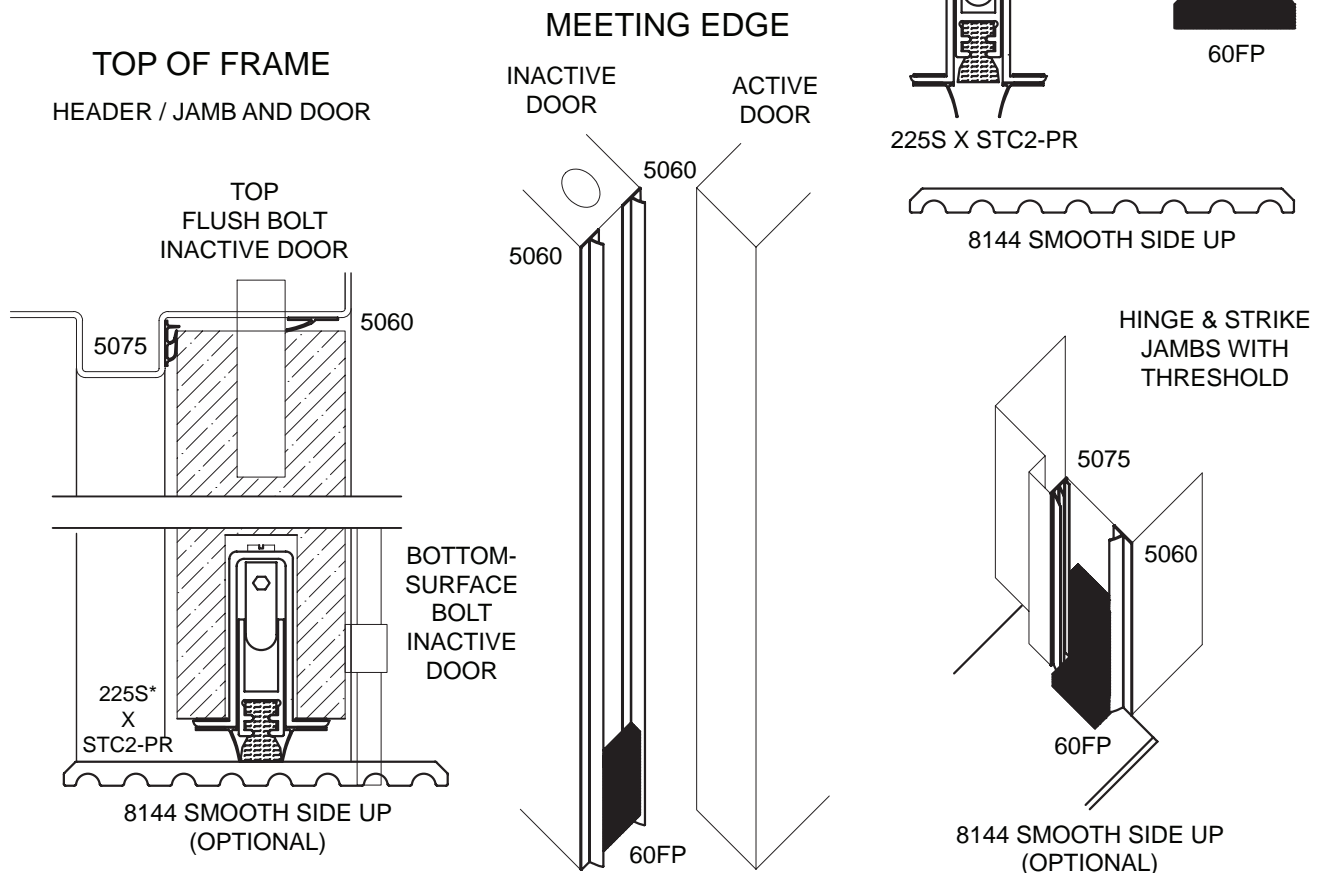


896S-ADJ* BUMPER THRESHOLD

*ADA bumper style threshold, requires 3/8" undercut on doors

NGP STC SEAL SET #7 FOR USE WITH PAIRS OF DOORS STC 45 AND BELOW

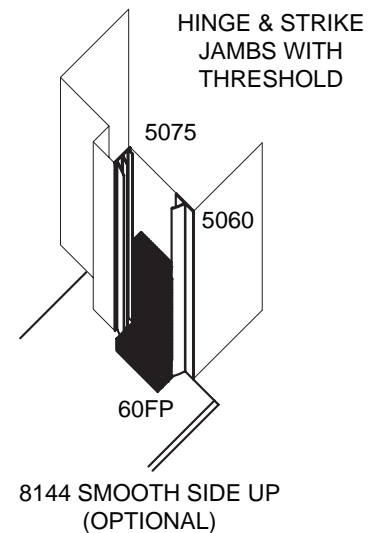
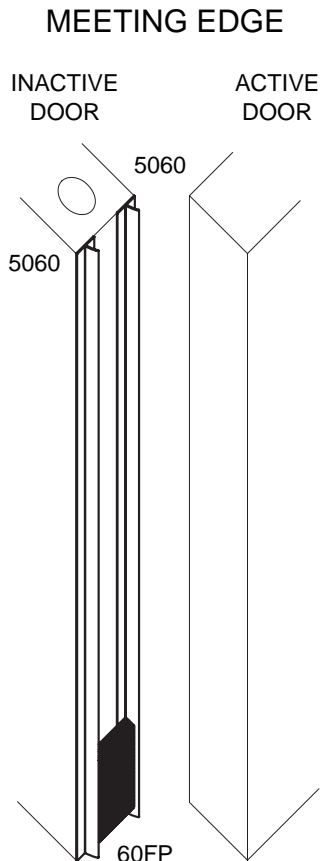
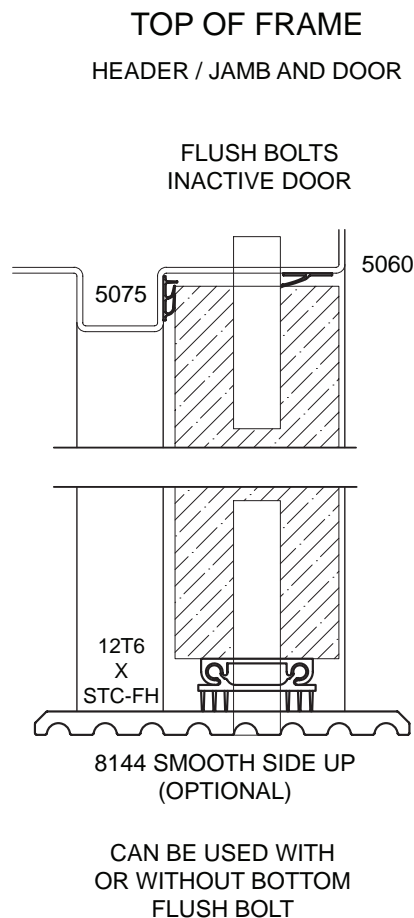
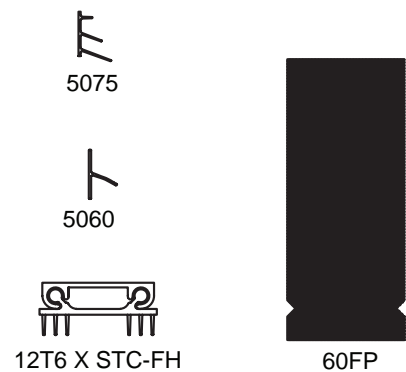
LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.) 60FP (1 req.)	FRAME, LOWER CORNERS INACTIVE DOOR, LOWER
225S X STC2-PR	DOOR, MORTISE ADB WITH STC2 & FLANGE SEAL
5060	INACTIVE DOOR, 2 ROWS
8144S	THRESHOLD (OPTIONAL)



*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

NGP STC SEAL SET #8 FOR USE WITH PAIRS OF DOORS STC 45 AND BELOW

LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.) 60FP (1 req.)	FRAME, LOWER CORNERS INACTIVE DOOR, LOWER
12T6 X STC-FH	DOOR SHOE WITH STC FASTENER HOLES
5060	INACTIVE DOOR, 2 ROWS
8144S	THRESHOLD (OPTIONAL)



BOTTOM OF DOORS
THRESHOLD AND FLOOR

NGP STC SEAL SET #9 FOR USE WITH PAIRS OF DOORS STC 45 AND BELOW

LIST OF MATERIALS	
ITEMS	LOCATION
5075	JAMBS & HEADER
5060	JAMBS & HEADER
60FP (2 req.) 60FP (1 req.)	FRAME, LOWER CORNERS INACTIVE DOOR, LOWER
335S X STC2-PR	DOOR, MORTISE ADB WITH STC2 & FLANGE SEAL
5060	INACTIVE DOOR, 2 ROWS
8144S	THRESHOLD (OPTIONAL)



5075



5060



335S X STC2-PR

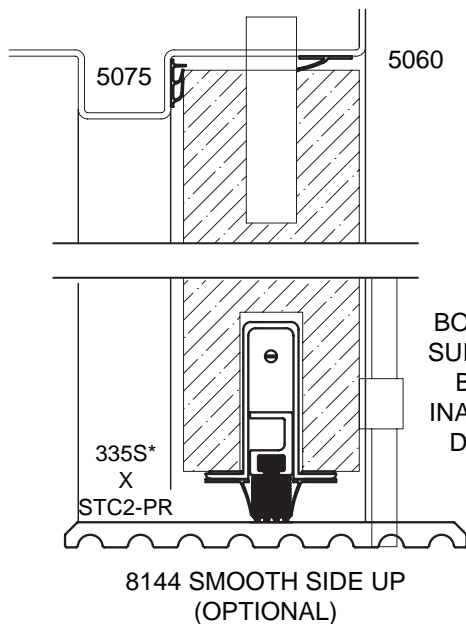


60FP

TOP OF FRAME

HEADER / JAMB AND DOOR

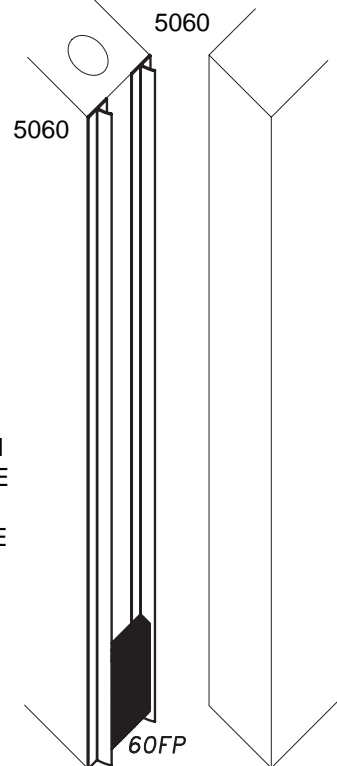
TOP FLUSH BOLT
INACTIVE DOOR



MEETING EDGE

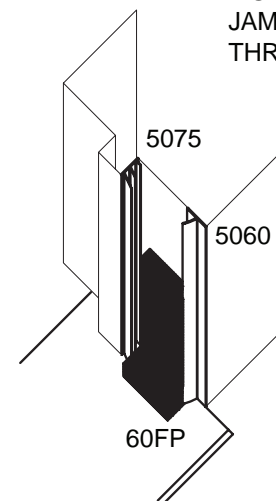
INACTIVE
DOOR

ACTIVE
DOOR



8144 SMOOTH SIDE UP

HINGE & STRIKE
JAMBS WITH
THRESHOLD



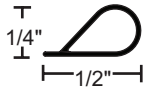
8144 SMOOTH SIDE UP
(OPTIONAL)

BOTTOM OF DOORS

THRESHOLD AND FLOOR

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

Self-Adhesive Silicone Gasketing



5050B Brown
5050C Charcoal
5050W White
5050T Tan
5050CL Clear

Available in 17', 20', 21', 25' and 300' rolls.

Silicone Bulb Fire and Smoke Seal



Edge Sealing System - Category "G" for 20 minute rated category B wood doors perimeter application up to:

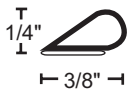
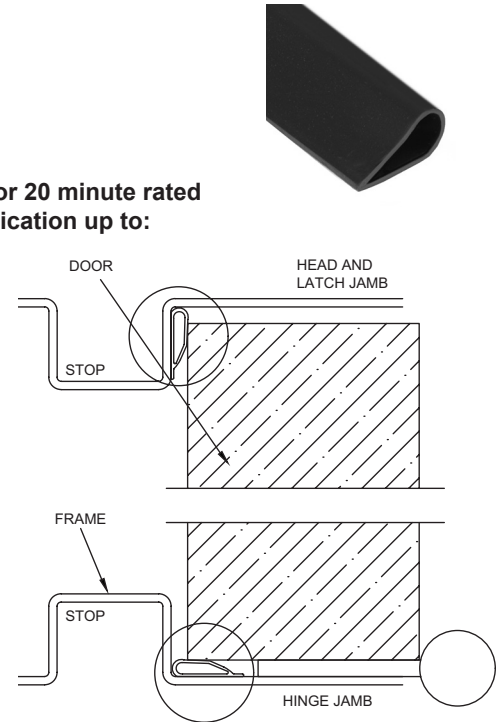
single swing 4'0 x 8'0
 pairs 8'0 x 8'0
 use 9550 at the meeting edge of pairs



Smoke and Draft Control - Category "H"
 Up to 3 hours Hollow Metal fire doors
 Up to 90 minutes Wood fire doors



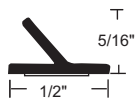
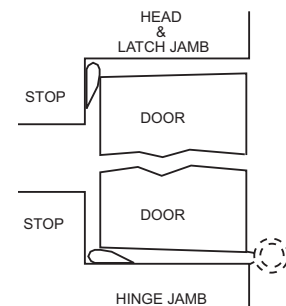
Meets requirements of RoHS Directive



2525B Brown
2525C Charcoal
2525W White

Silicone Bulb Smoke Seal

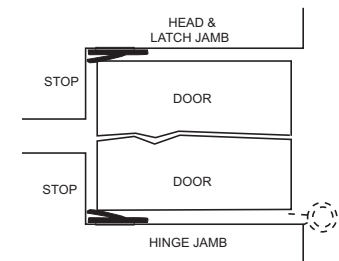
Available in 17', 20', 21', 25' and 300' rolls.



5060B Brown
5060C Charcoal
5060CL Clear

Silicone Fin Smoke Seal

Available in 17' and 21' rolls.

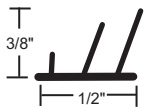


Adhesive specifications: Modified acrylic pressure sensitive adhesive protected by release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence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

Self-Adhesive TPE Gasketing

Properties:

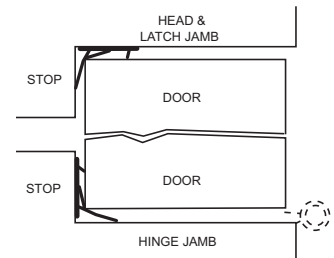
- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and smoke infiltration
- Rigid base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
- REACH and RoHS compliant



5075B Brown
5075C Charcoal
5075CL Clear



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



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

Acoustical Door Shoe

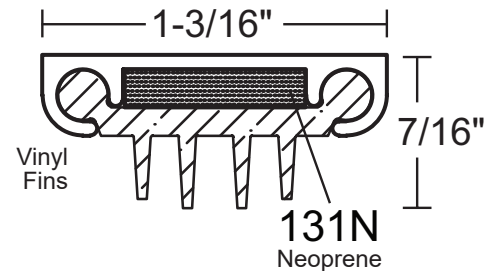
Aluminum alloy 6063, T5 temper
Thermoplastic polymer: Polyvinyl Chloride formulated with an environmentally friendly Bio-based plasticizer

- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to cold, heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration
- #6 x 3/4" stainless steel SMS furnished
- Screw holes slotted for adjustment



MATERIALS & FINISHES
no suffix - mill aluminum
DKB - dark bronze

vinyl is gray



STC Rated Acoustical Foam Pad

Foam seal self adhesive

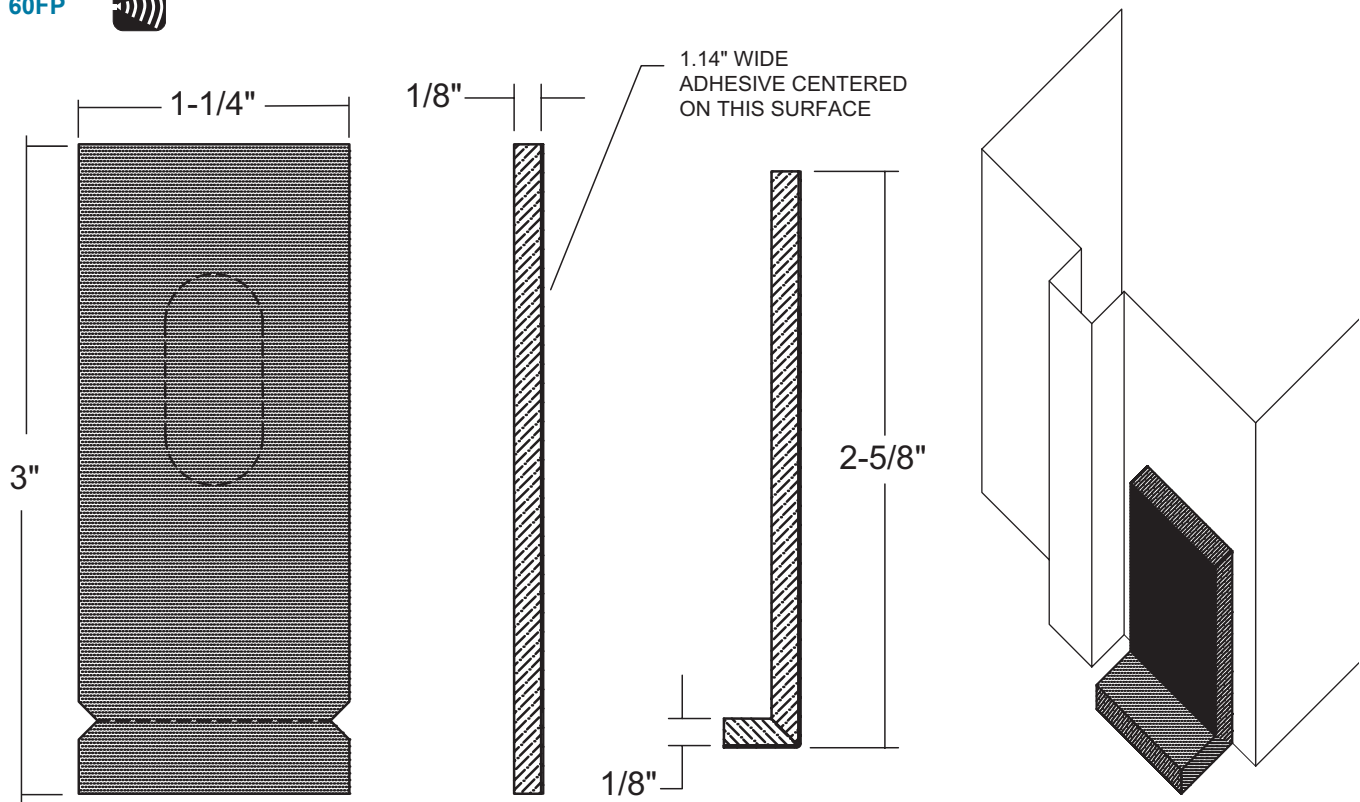
- Helps acoustics and seals at corner gap
- Apply to jambs on hinge and strike side
- Color is black

312V X 131N
312VDKB X 131N

 **STC 45**

60FP

 **STC 45**



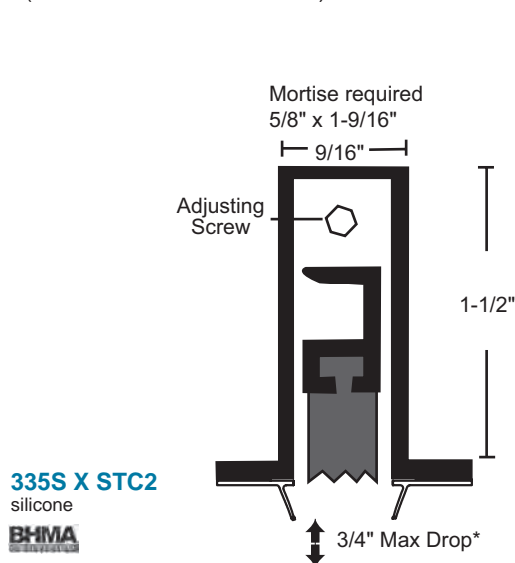
Automatic Door Bottoms - Mortise

- Use with a threshold for maximum sealing capability
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field, under 36" should not be cut in the field, order net length
- End caps furnished standard
- Furnished 1/2" shorter than ordered to fit within net door size.
(i.e. 36" is furnished 35-1/2").

All products this page



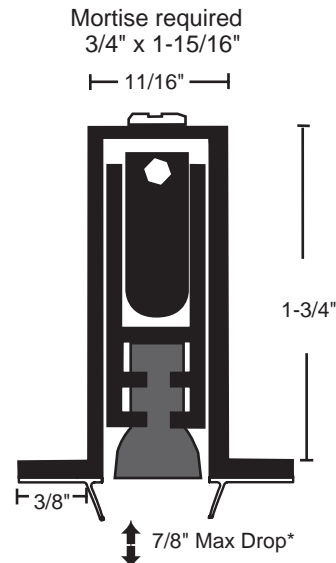
Silicone is gray



335S X STC2
silicone



Available 23-1/4" net to 48" in length
Fits wood fire door mortise restrictions



225S X STC2
silicone



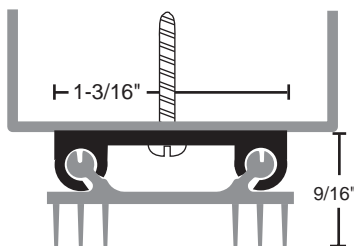
Available 11" to 60" in length
Available with lead insert for radiation shield - specify "lead-lined"

*For best acoustic results a 1/4" drop is recommended, 3/8" drop maximum.

Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins.

12T6
12T6DKB



Material Finishes:

A - anodized aluminum

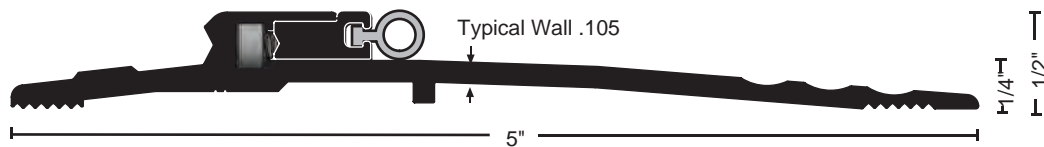
DKB - dark bronze

no suffix = mill aluminum
thermoplastic is dark brown

#6 x 3/4" stainless steel
SMS furnished

Adjustable ADA Compliant Bumper Seal Threshold

- Stainless steel adjustment screws on 10" centers allow adjustment without re-positioning mounting location.
- Adjusting range 1/4"



896-ADJ .78 lbs./ft.



MATERIALS & FINISHES

- Aluminum mill finish



- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished.



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")



STC 52

Thresholds



8144S 1.00 lbs./ft 8144SDKB 1.00 lbs./ft



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

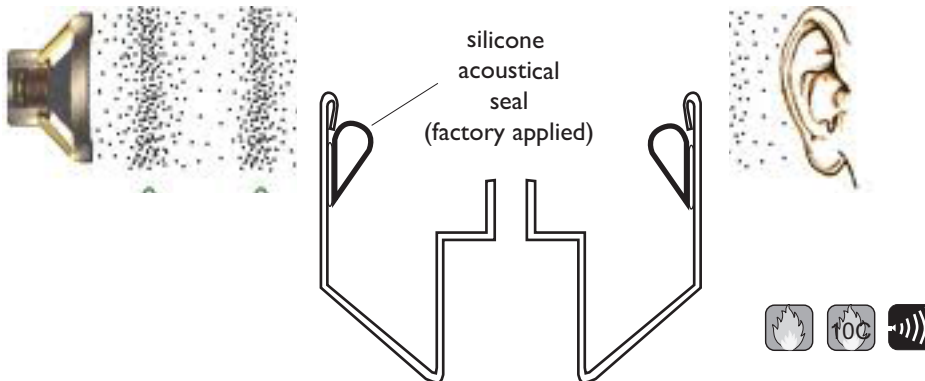
FASTENERS

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

L-FRA100 STC & L-FRA100-SP STC

Low Profile Sound Rated Lite Kit Option - Suffix “STC”

Silicone acoustical seal applied to reduce sound transmission



Acoustical Testing performed at Intertek Testing, Inc. to:

ASTM E 90, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.*

ASTM E 413, *Classification for Rating Sound Insulation.*

ASTM E 1332, *Standard Classification for Rating Outdoor-Indoor Sound Attenuation.*

ASTM E 2235, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.*

STC Ratings:

• Protect3™	STC 28
• TEMP20™	STC 28
• Wired	STC 28
• Polycarbonate 1/4"	STC 29
• Pyran Platinum F	STC 31
• Tempered 1/4"	STC 31
• Polycarbonate 1/2"	STC 34
• Insulated Tempered 1"	STC 35
• Laminated 1/4"	STC 35
• Pyran Platinum L	STC 36
• SuperLite X-90	STC 38
• Laminated 5/8"	STC 40



CONTINUOUS

— HINGES —





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CONTINUOUS GEARED HINGES

FASTENERS, RATINGS, SYMBOLS, REQUIREMENTS

FASTENERS



#12 x 1 1/16"
FH U/C TEK MS



#12 x 3/4"
PH TEK MS



Phillips
Head



Torx Head
(optional)

FH = Flat Head
PH = Pan Head
U/C = Undercut



#12 x 1 1/2" Wood Screw



1/4"-20 Thru-Bolt



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal and Wood Fire Doors rated up to to 90 minutes. See individual products for maximum door size.



ANSI/BHMA Certified. Certified hinges comply with American National Standard for Continuous Hinges ANSI/BHMA A156.26 and are listed in the BHMA Certified Products Directory.

ANSI/BHMA

The following explains ANSI/BHMA numbers which identify material and type of products. Look for the BHMA certified logo next to the product in our catalog. For a complete listing refer to the BHMA Certified Products Directory online at www.buildershardware.com.

ANSI/BHMA A156.26 American National Standard for Continuous Hinges

1 Product Section	2 Material	3 Product Type	4 Electrical Modifications	5 Door Weight (lbs.)	6 Grade	7 Hinge Type
"A" designates Hinges	1. Brass Bronze 3. Aluminum 5. Stainless Steel 8. Steel	1. Edge Mounted 2. Half Edge Mounted 3. Full Surface 4. Half Surface 5. Swing Clear 6. Raised Barrel 7. Wide Throw 0. Other	0. None 1. Concealed Wire Transfer 2. Monitor 3. Power Transfer 4. Other	1. 150 2. 300 3. 600 4. 1200	1. Grade 1 2. Grade 2 3. Grade 3	B. Barrel G. Geared

LEED GREEN BUILDING

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council. Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com.

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products and Health Product Declarations (HPD) may be viewed on our website, www.ngp.com.

National Guard Products sustainability report may be viewed on our website, <https://www.ngp.com/report/>.

Contact us regarding our end of use product recycling program.

BUY AMERICAN REQUIREMENTS

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American Certificate may be obtained on our website, www.ngp.com.

CONTINUOUS GEARED HINGE

CONCEALED

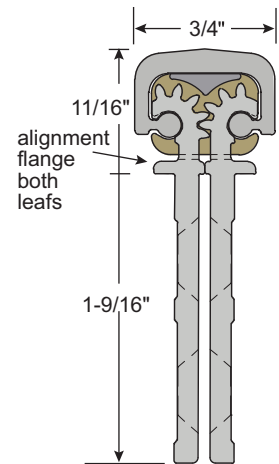
NO DOOR INSET, FLUSH MOUNT FOR 1 3/4" DOORS

HD1100

HD1100-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ #12-24 TEK MS
- ▶ "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- ▶ Standard lengths: 83", 85", 95", 119"



Available Options:

- ▶ #12 x 1 1/2" Wood Screws
- ▶ Torx Security TEK Screws
- ▶ 1 1/2" Torx Security Wood Screws
- ▶ Cut to Net Length
- ▶ Anti-Ligature Hospital Tip - Specify "ALHT"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door

CONTINUOUS GEARED HINGE

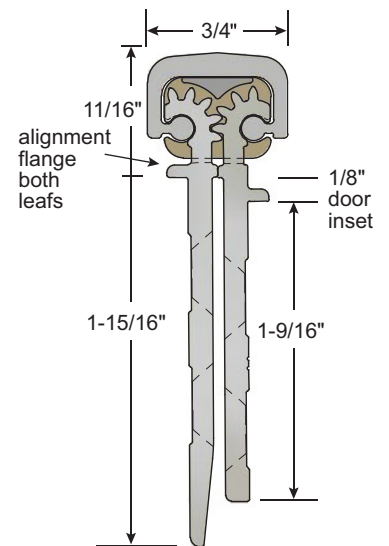
CONCEALED

1/8" DOOR INSET, FOR 1 3/4" DOORS

HD1800 HD1800-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Aluminum alloy 6063-T6; Anodized after machining
- Specially designed involute intermeshing gears
- Proprietary Teflon infused self-lubricating wear resistant bearings
- No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- Lifetime of the door opening warranty
- #12-24 TEK MS
- "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- Standard lengths: 83", 85", 95", 119"



Frame leaf covers butt hinge preps

Available Options:

- #12 x 1 1/2" Wood Screws
- Torx Security TEK Screws
- 1 1/2" Torx Security Wood Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Hospital Tip - Specify "ALHT" and Door Handing
- Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



CONTINUOUS GEARED HINGE

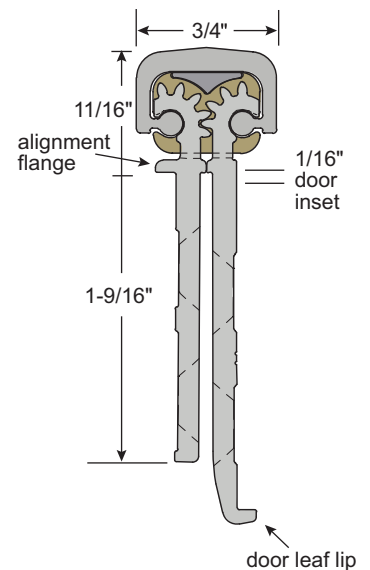
CONCEALED

1/16" DOOR INSET, FOR 1 3/4" DOORS

HD1400 HD1400-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Aluminum alloy 6063-T6; Anodized after machining
- Specially designed involute intermeshing gears
- Proprietary Teflon infused self-lubricating wear resistant bearings
- No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- Lifetime of the door opening warranty
- #12-24 TEK MS
- "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- Standard lengths: 83", 85", 95", 119"



Narrow frame leaf allows
NGP 2525 bulb seal

Available Options:

- #12 x 1 1/2" Wood Screws
- Torx Security TEK Screws
- 1 1/2" Torx Security Wood Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Hospital Tip - Specify "ALHT" and Door Handing
- Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leaves up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



CONTINUOUS GEARED HINGE

CONCEALED

1/16" DOOR INSET, FOR 1 3/4" DOORS

HD2400 HD2400-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

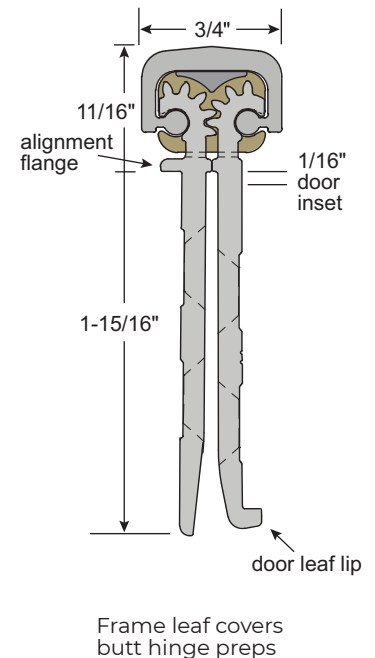
- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ #12-24 TEK MS
- ▶ "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- ▶ Standard lengths: 83", 85", 95", 119"

Available Options:

- ▶ #12 x 1 1/2" Wood Screws
- ▶ Torx Security TEK Screws
- ▶ 1 1/2" Torx Security Wood Screws
- ▶ Cut to Net Length - Specify Door Handing
- ▶ Anti-Ligature Hospital Tip - Specify "ALHT" and Door Handing
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door

CONTINUOUS GEARED HINGE

CONCEALED

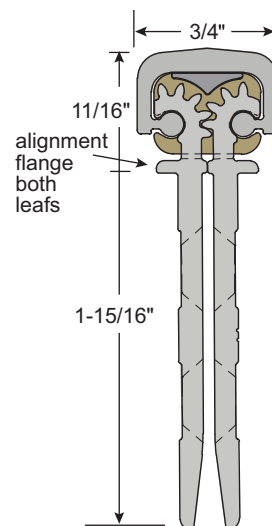
NO DOOR INSET, FLUSH MOUNT FOR 2" TO 2 1/4" DOORS

HD2700

HD2700-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ #12-24 TEK MS
- ▶ "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- ▶ Standard lengths: 83", 85", 95", 119"



Frame leaf covers butt hinge preps

Available Options:

- ▶ #12 x 1 1/2" Wood Screws
- ▶ Torx Security TEK Screws
- ▶ 1 1/2" Torx Security Wood Screws
- ▶ Cut to Net Length
- ▶ Anti-Ligature Hospital Tip - specify "ALHT"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



CONTINUOUS GEARED HINGE

CONCEALED SWING CLEAR

1/16" DOOR INSET FOR 1 3/4" DOORS

HD4100

HD4100-LL

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ #12-24 TEK MS
- ▶ "LL" model for doors up to 1,000 lbs. features lead-lined dual row hole pattern
- ▶ Standard lengths: 83", 85", 95", 119"

Available Options:

- ▶ #12 x 1 1/2" Wood Screws
- ▶ Torx Security TEK Screws
- ▶ 1 1/2" Torx Security Wood Screws
- ▶ Cut to Net Length - Specify Door Handing
- ▶ Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

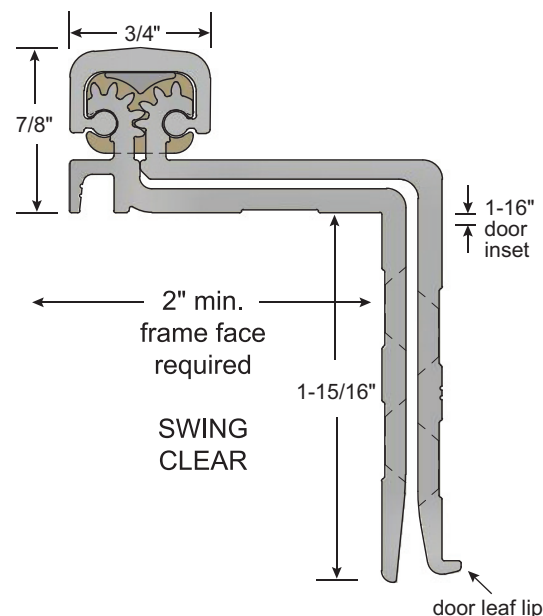
A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leaves up to 4'0" x 8'0" and steel stiffened doors up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



Frame leaf covers butt hinge preps



CONTINUOUS GEARED HINGE

FULL SURFACE

1/16" DOOR INSET FOR 1 3/4" TO 2 1/4" DOORS

HD5700

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Aluminum alloy 6063-T6; Anodized after machining
- Specially designed involute intermeshing gears
- Proprietary Teflon infused self-lubricating wear resistant bearings
- No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- Lifetime of the door opening warranty
- Frame leaf: #12-24 TEK flat head MS
- Door leaf: #12-24 TEK pan head MS and 1/4"-20 thru-bolts
- Standard lengths: 83", 85", 95", 119"

Available Options:

- #12 x 1 1/2" Wood Screws
- Torx Security TEK & T.B. M.S.
- 1 1/2" Torx Security Wood Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



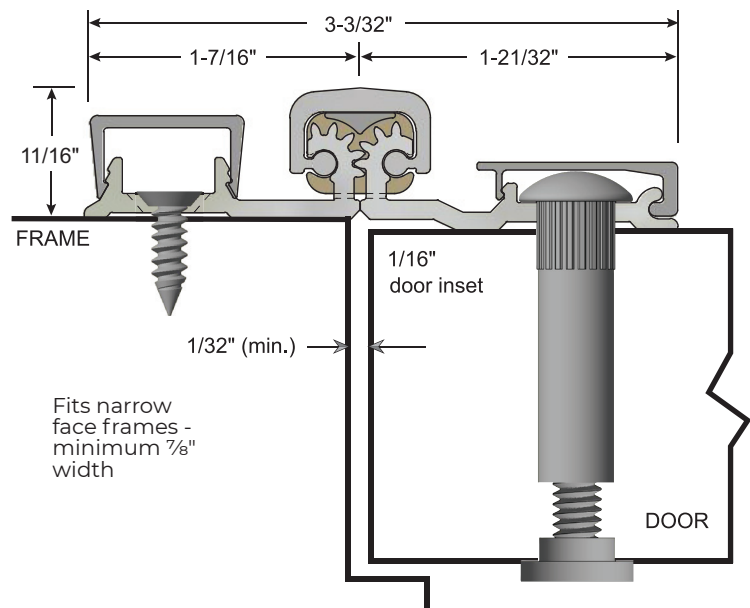
Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:

Grade 1 - 150 lb. Door

Grade 1 - 600 lb. Door



Concealed fastener covers on both leafs



CONTINUOUS GEARED HINGE

FULL SURFACE SWING CLEAR

1/32" DOOR INSET FOR 1 3/4" TO 2 1/4" DOORS

HD2100

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

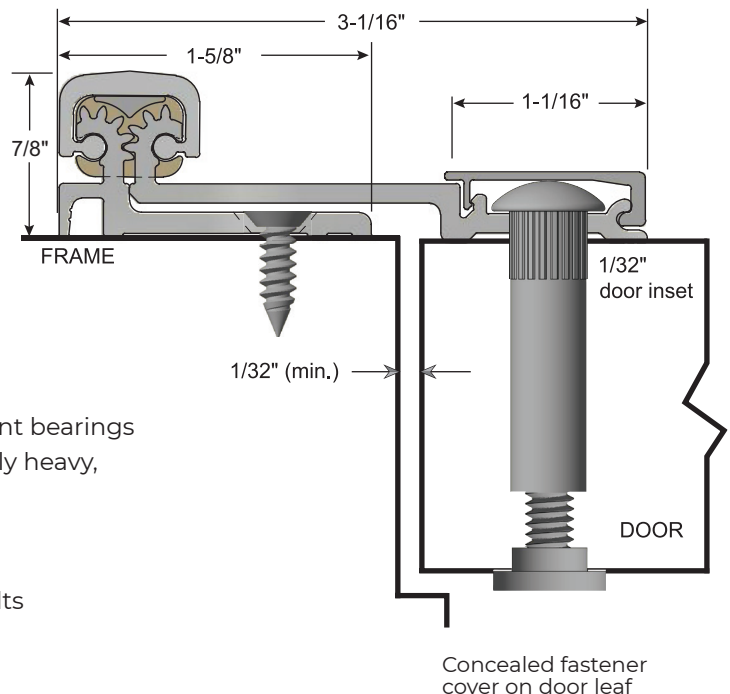
- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ Frame leaf: #12-24 TEK flat head MS
- ▶ Door leaf: #12-24 TEK pan head MS and 1/4"-20 thru-bolts
- ▶ Standard lengths: 83", 85", 95", 119"

Available Options:

- ▶ #12 x 1 1/2" Wood Screws
- ▶ Torx Security TEK & T.B. M.S.
- ▶ 1 1/2" Torx Security Wood Screws
- ▶ Cut to Net Length - Specify Door Handing
- ▶ Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door

CONTINUOUS GEARED HINGE

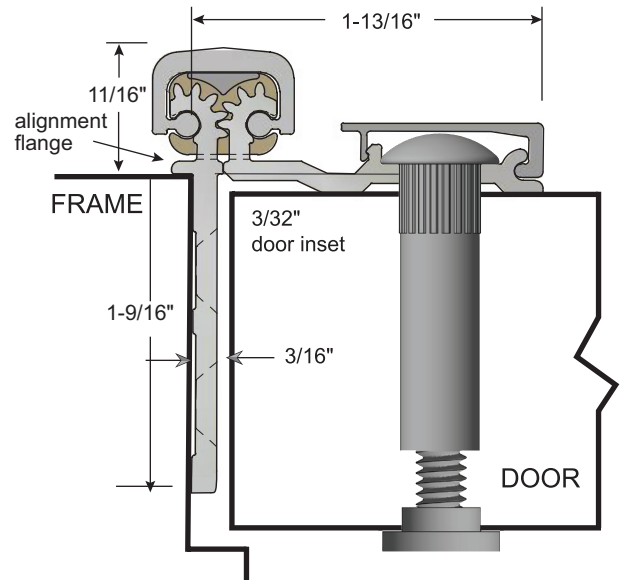
HALF SURFACE

$\frac{3}{32}$ " DOOR INSET FOR $1\frac{3}{4}$ " TO $2\frac{1}{4}$ " DOORS

HD5300

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ Frame leaf: #12-24 TEK flat head MS
- ▶ Door leaf: #12-24 TEK pan head MS and $\frac{1}{4}$ "-20 thru-bolts
- ▶ Standard lengths: 83", 85", 95", 119"



Narrow frame leaf allows NGP 2525 bulb seal
Concealed fastener cover on door leaf

Available Options:

- ▶ #12 x $1\frac{1}{2}$ " Wood Screws
- ▶ Torx Security TEK & T.B. M.S.
- ▶ $1\frac{1}{2}$ " Torx Security Wood Screws
- ▶ Cut to Net Length - Specify Door Handing
- ▶ Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



CONTINUOUS GEARED HINGE

HALF SURFACE

$\frac{3}{32}$ " DOOR INSET FOR $1\frac{3}{4}$ " TO $2\frac{1}{4}$ " DOORS

HD5400

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- ▶ Aluminum alloy 6063-T6; Anodized after machining
- ▶ Specially designed involute intermeshing gears
- ▶ Proprietary Teflon infused self-lubricating wear resistant bearings
- ▶ No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- ▶ Lifetime of the door opening warranty
- ▶ Frame leaf: #12-24 TEK flat head MS
- ▶ Door leaf: #12-24 TEK pan head MS and $\frac{1}{4}$ "-20 thru-bolts
- ▶ Standard lengths: 83", 85", 95", 119"

Available Options:

- ▶ #12 x $1\frac{1}{2}$ " Wood Screws
- ▶ Torx Security TEK & T.B. M.S.
- ▶ $1\frac{1}{2}$ " Torx Security Wood Screws
- ▶ Cut to Net Length - Specify Door Handing
- ▶ Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- ▶ Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

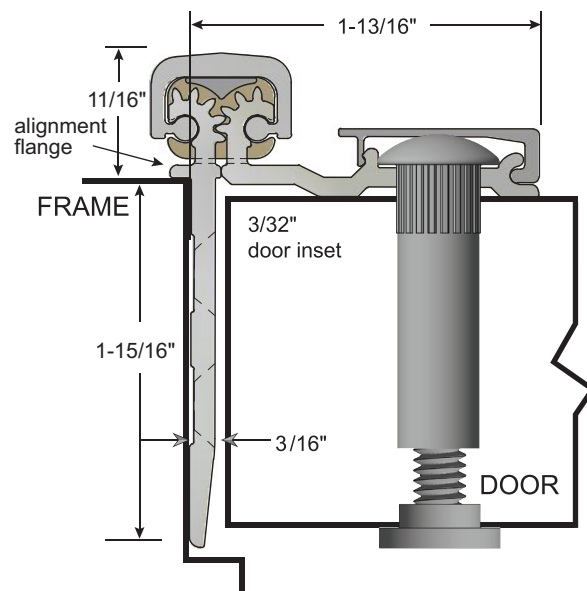
A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door



Frame leaf covers butt hinge preps
Concealed fastener cover on door leaf



CONTINUOUS GEARED HINGE

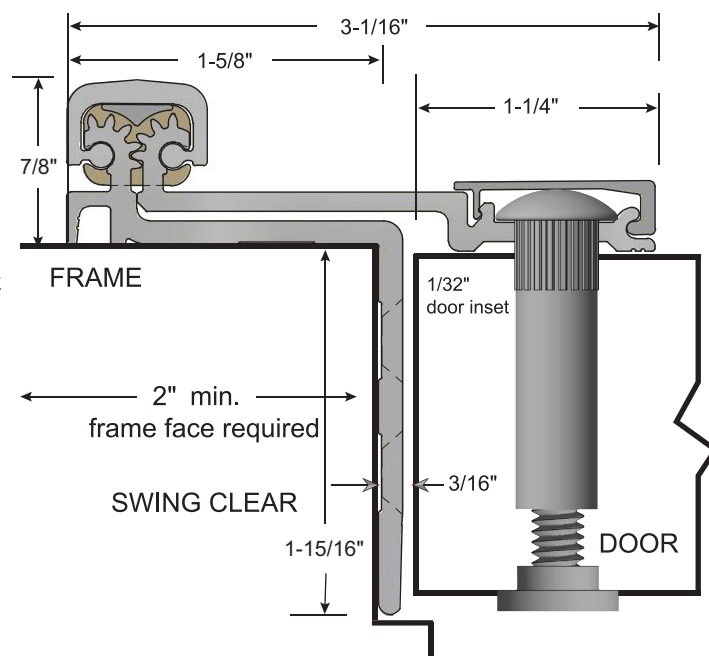
HALF SURFACE SWING CLEAR

1/32" DOOR INSET FOR 1 3/4" TO 2 1/4" DOORS

HD4200

Continuous geared aluminum hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Aluminum alloy 6063-T6; Anodized after machining
- Specially designed involute intermeshing gears
- Proprietary Teflon infused self-lubricating wear resistant bearings
- No hinge reinforcement necessary except on extremely heavy, extremely high-frequency or extra-wide doors
- Lifetime of the door opening warranty
- Frame leaf: #12-24 TEK flat head MS
- Door leaf: #12-24 TEK pan head MS and 1/4"-20 thru-bolts
- Standard lengths: 83", 85", 95", 119"



Frame leaf covers butt hinge preps
Concealed fastener cover on door leaf

Available Options:

- #12 x 1 1/2" Wood Screws
- Torx Security TEK & T.B. M.S.
- 1 1/2" Torx Security Wood Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Hospital Tip - Specify "TIPIT-LG"
- Dutch Door Prep - Specify Door Handing, Top Door Leaf Length, and Clearance Between Leafs

Finishes:

A - Anodized Aluminum
DKB - Dark Bronze Anodized



Fire-rated 90-minute on hollow metal (except steel stiffened) or wood door leafs up to 4'0" x 7'2".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door
Grade 1 - 600 lb. Door

ELECTRIC THRU-WIRE

ELECTRIC THRU-WIRE

ETW8

Transfers electric power through the hinge to power certain types of electronic builders hardware.

REMOVABLE ELECTRIC HINGE SECTION

- 8 wires, 28 AWG
- Each wire is rated 50V AC/DC at 3.5A (max.) continuous, or 16A (max.) pulse; maximum pulse width is 400 msec with 10 second minimum off time between pulses
- 12" minimum wire leads
- 5-year warranty

ETW8 - MOLEX

ELECTRIC THRU-WIRE WITH MOLEX CONNECTORS

- Same features as above with molex connectors installed on wires both sides

Available on Models

HD1100
HD2400 (Handed)
HD2700

Standard Locations

HINGE LENGTH	TOP OF HINGE TO CENTERLINE
83"	40 1/2"
85"	42 1/2"
95"	52 1/2"
119"	76 1/2"

All sizes located 42 1/2" centerline from bottom of hinge.



CONTINUOUS GEARED HINGE

ELECTRIC POWER TRANSFER (EPT) PREP

EPT PREP *(Option)*

Allows use of electric power transfer units required to power certain types of electronic builders hardware.

- ▶ Prep available for the following electric power transfer units
 - ▶ Von Duprin EPT-2, EPT-10, EPT-10C, PNT-1
 - ▶ Adams Rite 4612 (short version only)
 - ▶ Securitron EPT, EPT-SC, EL-EPT, EL-EPT-SC
 - ▶ Dorma ES105

Available on All Concealed and Half Surface Type Hinges.

Non-Handed Models:

HD1100 HD2700

Handed Models - Specify Door Hand

HD1400 HD1800 HD2400 HD4100
HD4200 HD5300 HD5400

Standard Locations:

HINGE LENGTH	TOP OF HINGE TO CENTERLINE OF PREP
83"	28 ⁷ / ₁₆ "
85"	30 ⁷ / ₁₆ "
95"	40 ¹ / ₂ "
119"	64 ³ / ₈ "



CONTINUOUS GEARED HINGE

ANTI-LIGATURE HOSPITAL TIP

TIPIT® LG

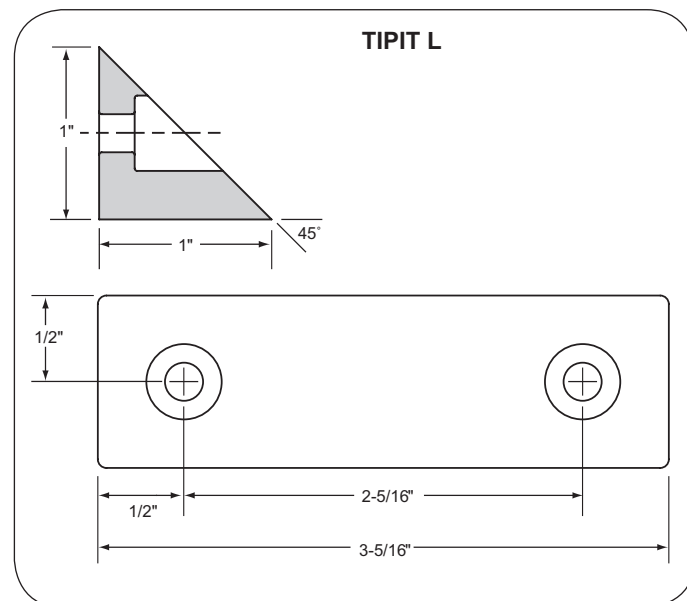
For Use in Hospitals, Correctional Facilities, Schools and Other Institutions.

Make rooms safer and meet legal requirements by retrofitting doors with the patented TIPIT® hospital tip. The tip deters patients or inmates from harming themselves by hanging objects from the hinge.

- Prevents objects from being attached to top of hinge (ligature-resistant)
- Made from durable, high-tech polymer
- Securely fastens to door frame header
- Works for retrofit or new applications
- Fits most other brands of geared continuous hinges
- Includes #10 Torx® SST security screws
- Color: Gray

TIPIT® hospital tip works with our geared continuous hinges to meet institutional requirements for preventing objects from being hung from the hinge.

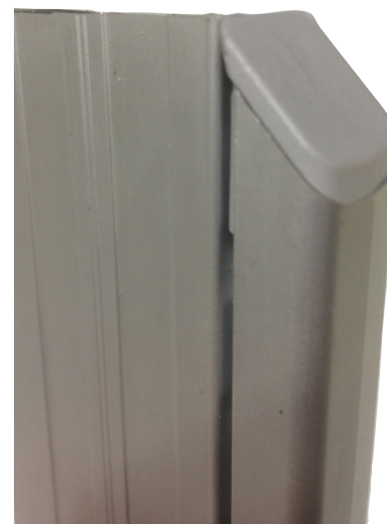
Order the TIPIT® hospital tip with any new geared continuous hinge, or add this safety feature to most other brands of full surface, half surface, concealed or swing clear geared continuous hinges (new or retrofit applications).



ALHT *(Option)*

For Use in Hospitals, Behavioral Health, Prisons and Anywhere Anti-Ligature Protection is Required.

Available on concealed model hinges only.



CONTINUOUS GEARED HINGE

STAINLESS STEEL CONTINUOUS HINGE

CONCEALED

UP TO 1/8" INSET, FOR 1 3/4" DOORS

SS300

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #10 x 1/2" TEK screws for metal doors and frames
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

Available Options:

- Torx Security TEK Screws
- Cut to Net Length
- Anti-Ligature Welded Hospital Tip - Specify "ALHT"
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- Electric Thru-Wire ETW8 - see page CH22
- Electric Power Transfer Prep - see page CH22
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins

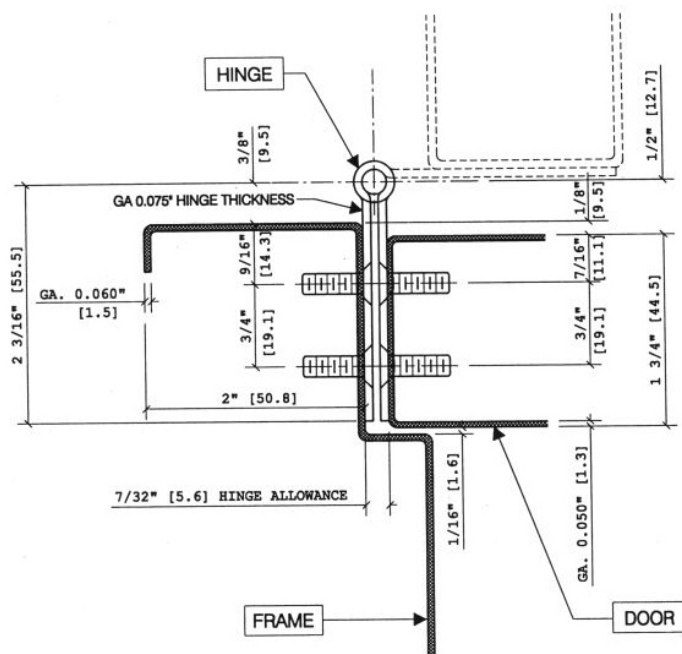


Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door

FULL MORTISE (EDGE MOUNT)



CONCEALED

SS305

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #10 x ½" TEK screws for metal doors and frames
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

- Torx Security TEK Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Welded Hospital Tip - Specify "ALHT"
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- Electric Thru-Wire ETW8 - see page CH22
- Electric Power Transfer Prep - see page CH22
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins



BHMA
CERTIFIED

Technical drawing of a Full Wrap Edge Guard (Edge Mount) showing dimensions and components. The drawing includes a HINGE, GA. 0.075" HINGE THICKNESS, GA. 0.0625", GA. 0.060" [1.5], 3/8" [9.5], 5/8" [15.9], 3/4" [19.1], 2" [50.8], 5/16" [7.9] HINGE ALLOWANCE, 1 3/4" [44.5], 1 1/2" [12.7], 3/4" [19.1], GA. .075", 0.750" [19.0], GA. 0.050" [1.3], and a NOTE: PROVIDE 0.125" ADJUSTMENT. The drawing also shows a FRAME and a DOOR.



STAINLESS STEEL CONTINUOUS HINGE

CONCEALED

HALF WRAP EDGE GUARD, FOR 1 3/4" DOORS

SS315

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #10 x 1/2" TEK screws for metal doors and frames
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

Available Options:

- Torx Security TEK Screws
- Cut to Net Length - Specify Door Handing
- Anti-Ligature Welded Hospital Tip - Specify "ALHT"
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- Electric Thru-Wire ETW8 - see page CH22
- Electric Power Transfer Prep - see page CH22
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins

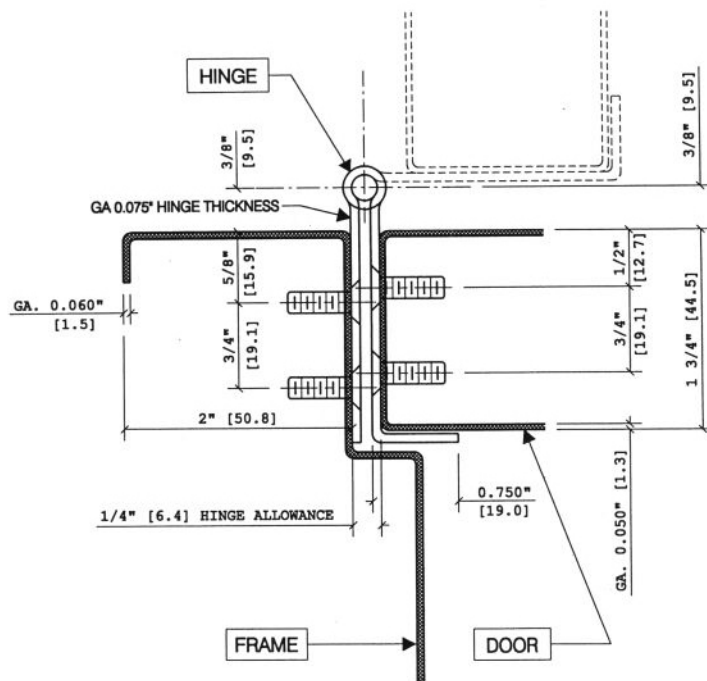


Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door

HALF WRAP EDGE GUARD (EDGE MOUNT)



STAINLESS STEEL CONTINUOUS HINGE

SWING CLEAR

WITH HALF WRAP EDGE GUARD, FOR 1 3/4" DOORS

SS311

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #10 x 1/2" TEK screws for metal doors and frames
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

Available Options:

- Torx Security TEK Screws
- Cut to Net Length - Specify Door Handing
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins

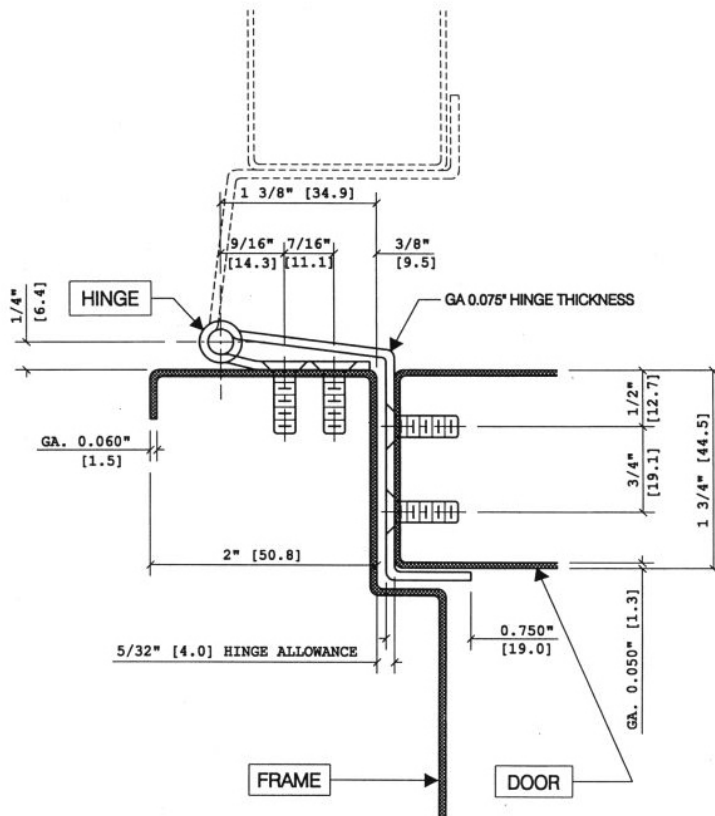


Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door

SWING CLEAR HINGE GUARD



STAINLESS STEEL CONTINUOUS HINGE

FULL SURFACE

SS302

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #1/4-20 x 3/4" TEK screws for metal doors and frames
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

Available Options:

- Torx Security TEK Screws
- Thru-Bolts for 1 3/4" doors – Specify "SSH-TB"
- Cut to Net Length - Specify Door Handing
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins

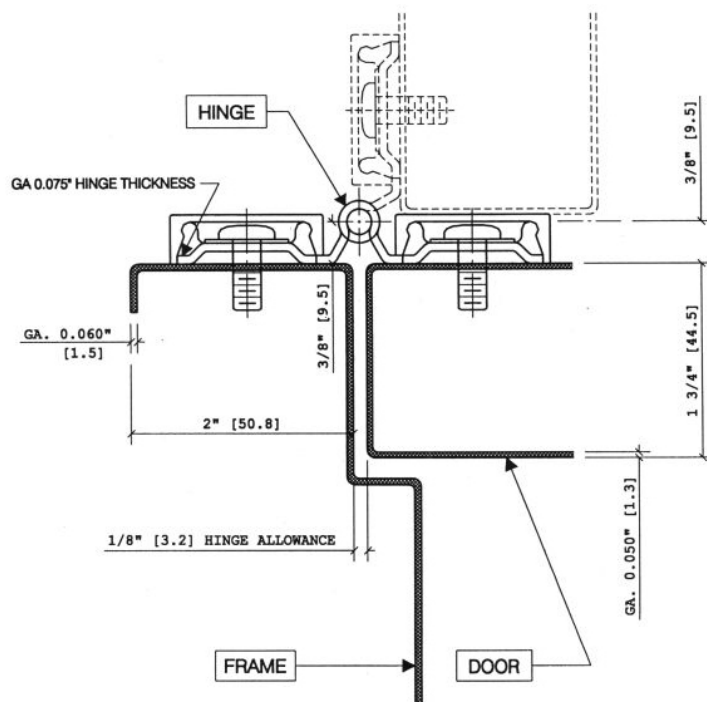


Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door

FULL SURFACE (FLUSH)



STAINLESS STEEL CONTINUOUS HINGE

HALF MORTISE

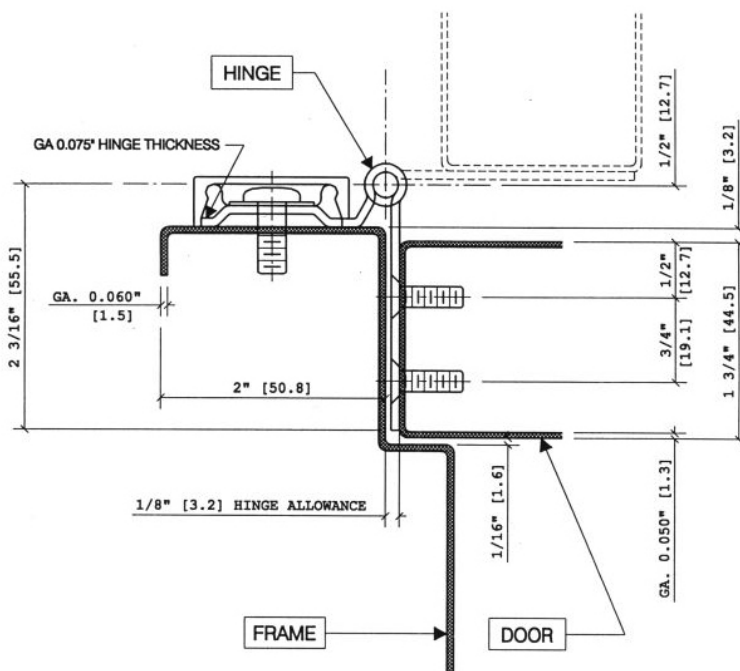
FOR 1 3/4" DOORS

SS304

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #1/4-20 x 3/4" TEK screws for metal frames
- #10 x 1/2" TEK screws for metal doors
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

HALF MORTISE (EDGE MOUNT)



Available Options:

- Torx Security TEK Screws
- Cut to Net Length - Specify Door Handing
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- Electric Power Transfer Prep - see page CH22
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins



Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".



ANSI/BHMA Certified to A156.26 American National Standard for Continuous Hinges:
Grade 1 - 150 lb. Door



STAINLESS STEEL CONTINUOUS HINGE

HALF MORTISE

WITH HALF WRAP EDGE GUARD, FOR 1 3/4" DOORS

SS306

Stainless steel continuous hinges run the full height of the door evenly distributing the weight of the door along the full height of the frame. Ideal for high-frequency and heavy-weight doors in new construction and retrofit applications.

- Heavy-duty Type 304, 14-gauge stainless steel
- Pin and barrel design
- Stainless steel hinge pins
- Medical type self-lubricating flanged bearings between each 2" knuckle provide dust-free quiet and smooth operation
- For doors weighing up to 600 lbs.
- 25-year warranty
- #1/4-20 x 3/4" TEK screws for metal frames
- #10 x 1/2" TEK screws for metal doors
- #10 x 1" wood screws for wood doors
- US32D (630) brushed finish
- Standard lengths: 83", 85", 95", 119"

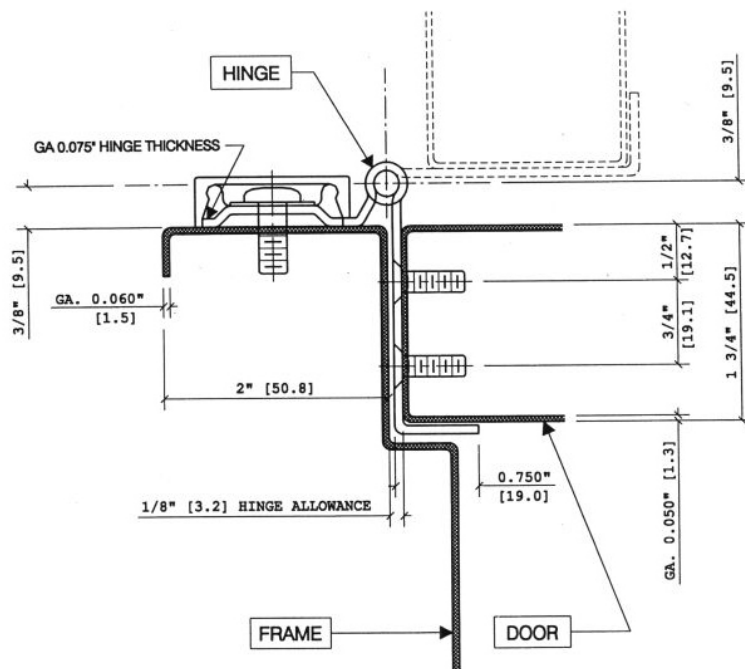
Available Options:

- Torx Security TEK Screws
- Cut to Net Length - Specify Door Handing
- Dutch Door Prep - Specify Door Handing, Bottom Door Leaf Length, and Clearance Between Leafs
- Electric Power Transfer Prep - see page CH22
- US32 (629) Polished Finish
- Welded Tips for Non-Rising Pins



Fire-rated 3 hours on hollow metal doors and 90-minute on wood doors. Maximum size 4'0" x 10'0".

HALF MORTISE/GUARD (EDGE MOUNT)



STAINLESS STEEL CONTINUOUS HINGE

ELECTRIC

ELECTRIC THRU-WIRE

ETW8

Transfers electric power through the hinge to power certain types of electronic builders hardware.

Removable Electric Hinge Section

- 8 wires, 26 AWG
- Each wire is rated 24V AC/DC at 0.5A (max.) continuous or pulse
- 12" wire leads
- 5-year warranty

Available on Models:

- SS300
- SS305 (Handed)
- SS315 (Handed)

Standard Location, All Sizes: 39 5/8" Centerline from Bottom of Hinge.

ELECTRIC POWER TRANSFER PREP

EPT PREP

Allows use of electric power transfer units required to power certain types of electronic builders hardware.

- Prep available for the following electric power transfer units
 - Von Duprin EPT-2, EPT-10, EPT-10C, PNT-1
 - Adams Rite 4612 (short version only)
 - Securitron EPT, EPT-SC, EL-EPT, EL-EPT-SC
 - Dorma ES105

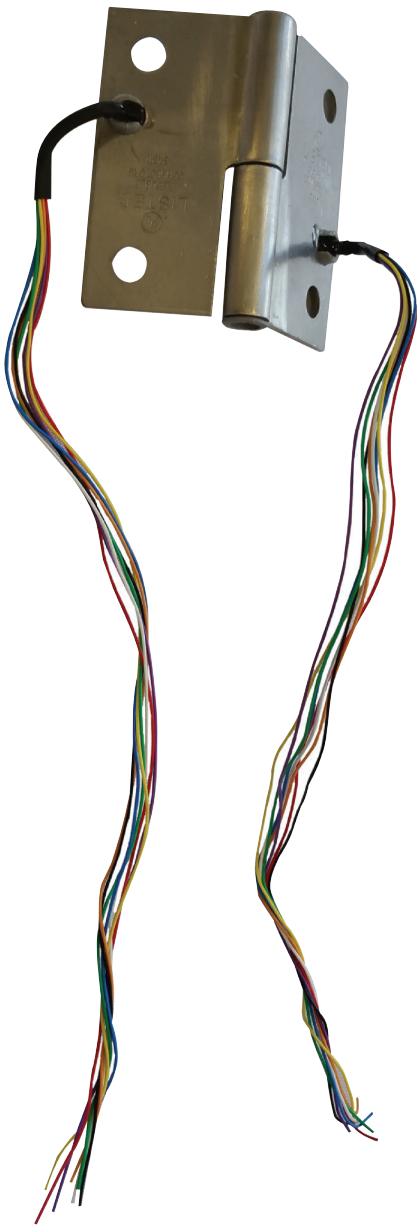
Available on All Concealed and Half Surface Type Hinges.

Non-Handed Models:

- SS300

Handed Models - Specify Door Hand

- SS304, SS305, SS306, SS315



Standard Locations:

HINGE LENGTH	TOP OF HINGE TO CENTERLINE OF PREP
83"	28 7/16"
85"	30 7/16"
95"	40 1/2"
119"	64 3/8"

PHEASANTS - Commonly referred to as “ring-necked” pheasants, these striking bird’s rooster-like crowing can be heard as far as a mile away. Male pheasants have become one of America’s most popular upland game birds. Their distinctive long, coppery tail feathers make quite an impression.

EDGES & ASTRAGALS



Edges & Astragals Product Index:

	Page
Door Aligning Astragals	EA4
Door Edges	EA2
Door Edges with Astragals	EA3
Double Egress Door Edges & Astragals	EA2
“Z” Astragals	EA2
Order Form	EA5



Numerical Index:

540	EA2	552	EA3	565	EA4
541	EA2	553	EA3	570	EA2
542	EA2	555	EA2	572	EA2
543	EA2	560	EA3	574	EA2
545	EA2	561	EA3	575	EA4
550	EA3	562	EA3		
551	EA3	563	EA3		

Rating Symbols Legend



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood Fire doors rated up to 90 minutes.



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes.

Powder Coat Finish

The standard finish for each product is indicated on the catalog page and in the price list and will be provided unless an optional finish is indicated. The following color options can be provided on any Door Edge & Astragal:

(GPZ) Gray Primer	(BPR) Beige Primer (matches Steelcraft)	(GBL) Gloss Black
(DKB) Dark Bronze	(PTY) Putty (matches Anemostat Beige)	(MBL) Matte Black
(T) Tan	(CAB) California Bronze (matches Anemostat)	(TBL) Textured Black
(ASL) Aluminum Silver	(WB) Walnut Brown (matches Timely Browntone)	(B) Brass (Gold)
(W) White	(MW) Magnolia White (matches Timely Western White)	

Custom colors and color matching available – Consult customer service for details

Corrosion Resistant Sealer: A polymeric green seal (non-chrome) corrosion resistance extender is applied under all NGP powder coat finishes. Laboratory salt spray tests prove a dramatic increase in corrosion resistance on steel products with this sealer applied to the metal prior to the powder coat finish.

Salt Spray Test Results: Steel door edges and astragals with NGP's corrosion resistant sealer and powder coat finish withstood 1,248 hours without failing. This is 2-1/2 times longer than the protection provided by powder coating only.

LEED Green Building

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council.

Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website www.ngp.com

Health Product Declarations (HPD) may be viewed on our website www.ngp.com

National Guard Products sustainability report may be viewed on our website www.ngp.com

Contact us regarding our end of use product recycling program.

Buy American Requirements

Refer to the information on page T-5



Door Edges and Astragals

NGP Order Form (Page EA5) indicating model number, hand, net length, hardware preps, and precise hardware locations must accompany all orders.

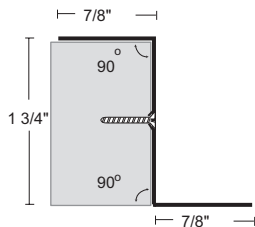
- 20 ga. cold rolled steel on edges and "Z" astragals
- 18 ga. cold rolled steel on astragal welded to edges
- For 1-3/4" thick doors (inside dim. 1-3/4" actual)
- #8 x 3/4" flat undercut Phillips head SMS
- Standard finish = Tan (T) powder coat



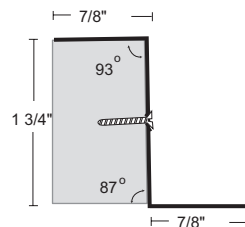
Available Options

- Powder coat color options - see page EA1
- Stainless Steel 20 ga., Type 304, #4 brushed finish - suffix SS"
- Galvanneal
- Torx Security Screws
- Special door thickness: 1-3/8", 2", 2-1/4"
- Lead lining .030" thick

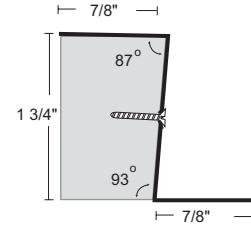
"Z" ASTRAGALS



570 SQUARE EDGE

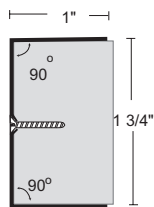


572 BEVELED EDGE ON ACTIVE LEAF

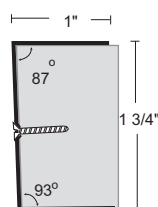


574 BEVELED EDGE ON INACTIVE LEAF

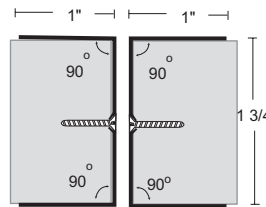
DOOR EDGES



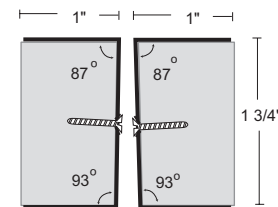
540 SINGLE SQUARE EDGE



542 SINGLE BEVELED EDGE

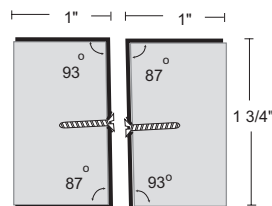


541 SQUARE EDGE SET

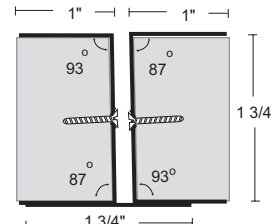


543 BEVELED EDGE SET

DOUBLE EGRESS



545 PARALLEL BEVEL EDGE SET FOR DOUBLE EGRESS DOORS



555 PARALLEL BEVEL ASTRAGAL SET FOR DOUBLE EGRESS DOORS

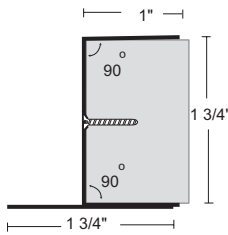
NGP Order Form (Page EA5) indicating model number, hand, net length, hardware preps, and precise hardware locations must accompany all orders.

- 20 ga. cold rolled steel on edges
- 18 ga. cold rolled steel on astragal welded to edges
- For 1-3/4" thick doors (inside dim. 1-3/4" actual)
- #8 x 3/4" flat undercut Phillips head SMS
- Standard finish = Tan (T) powder coat

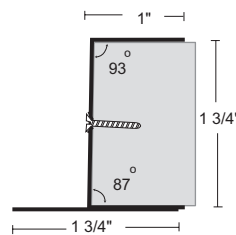
- Powder coat color options - see page EA1
- Stainless Steel 20 ga., Type #304, #4 brushed finish - suffix SS"
- Galvanneal
- Torx Security Screws
- Special door thickness: 1-3/8", 2", 2-1/4"
- Lead lining .030" thick



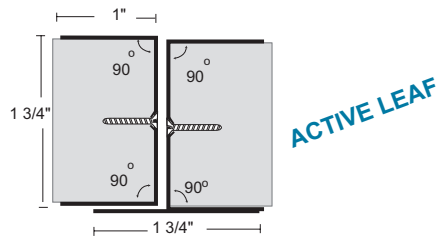
ASTRAGAL ON ACTIVE LEAF



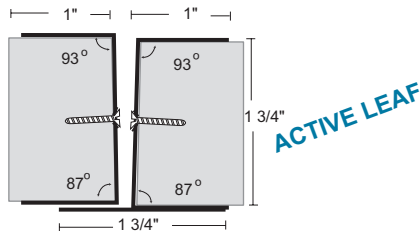
550 SINGLE ASTRAGAL
SQUARE EDGE



552 SINGLE ASTRAGAL
BEVELED EDGE



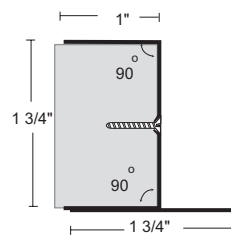
551 ASTRAGAL SET
SQUARE EDGE



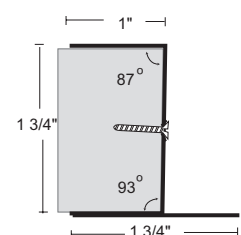
553 ASTRAGAL SET
BEVELED EDGE

Astragals mounted on active leaf that are prepped for a lockset will be notched for the strike lip, unless specified otherwise

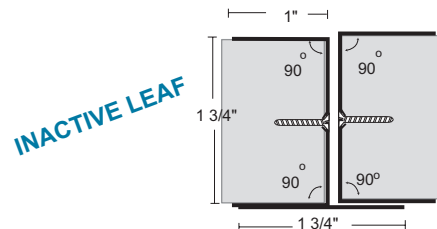
ASTRAGAL ON INACTIVE LEAF



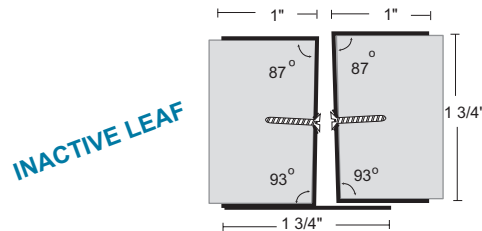
560 SINGLE ASTRAGAL
SQUARE EDGE



562 SINGLE ASTRAGAL
BEVELED EDGE



561 ASTRAGAL SET
SQUARE EDGE



563 ASTRAGAL SET
BEVELED EDGE



Door Aligning Astragals

- Keeps pairs of doors aligned properly
- Prevents over-swing of active leaf which may cause binding
- Allows latching and locking hardware to function properly
- Mounts neatly to edge of inactive leaf around the lock strike and/or flush bolts

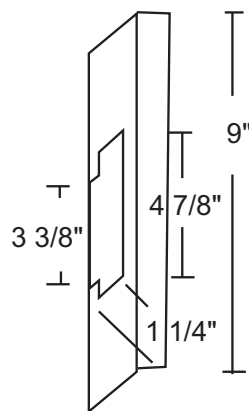
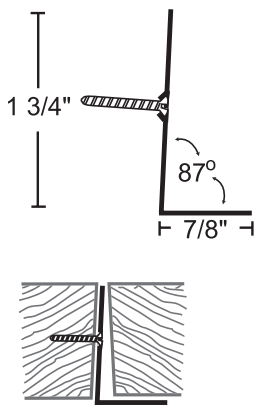
- 9" height
- For 1-3/4" beveled edge doors
- 1/4" radius corners
- 20 gauge cold rolled steel
- DKB powder coat finish standard

Available Options

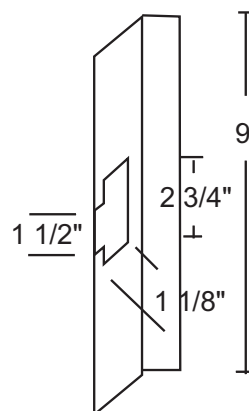
- Powder coat color options - see page EA1
- #304 Stainless Steel 20 ga., #4 brushed finish - suffix "SS"



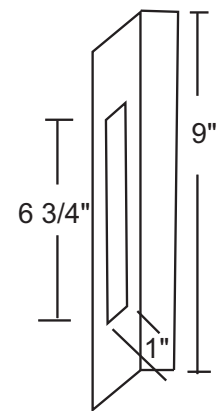
575-Blank
575-ASA
575-T
575-FB



575-ASA

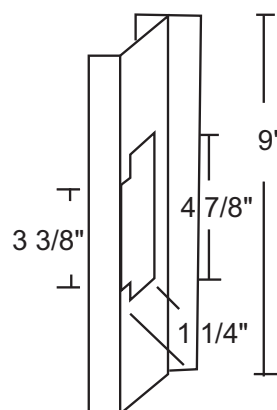
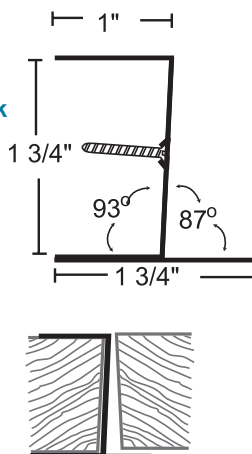


575-T

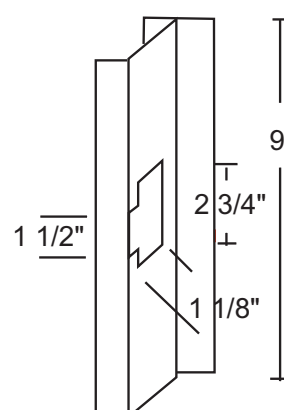


575-FB
Standard
Flush Bolt

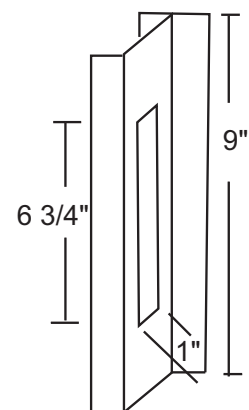
565-Blank
565-ASA
565-T
565-FB



565-ASA



565-T



565-FB
Standard
Flush Bolt

STEP 1

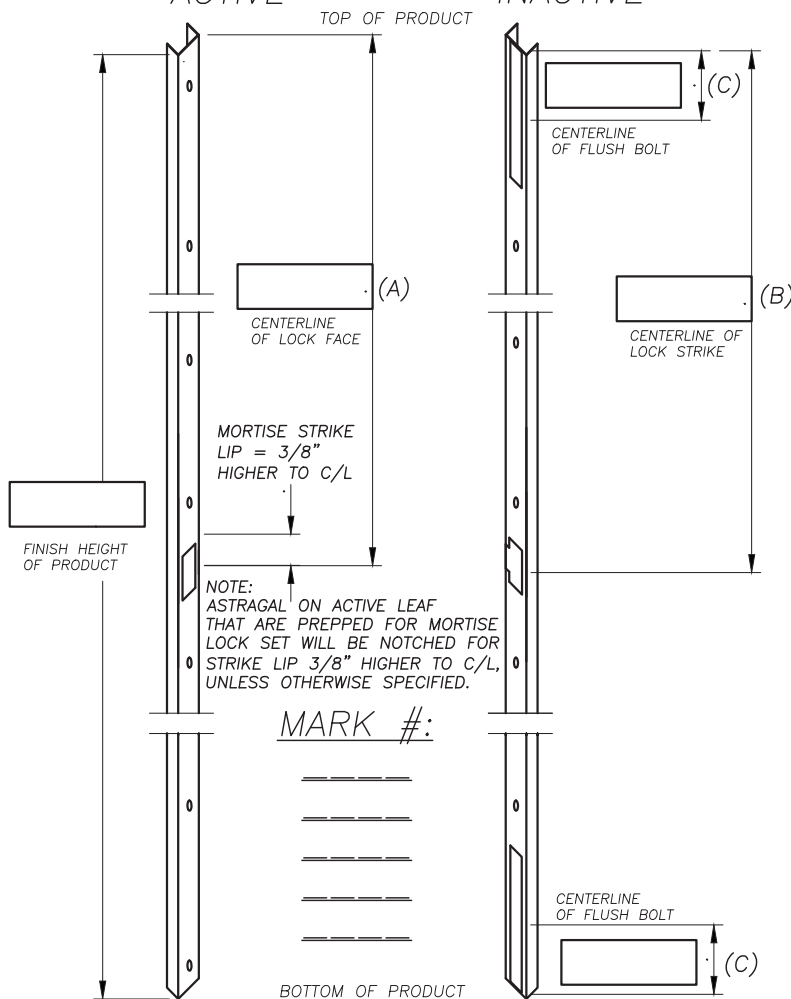
ORDER FORM FOR METAL EDGES/ASTRAGALS

ASTRAGAL ON ACTIVE DOOR		ASTRAGAL ON INACTIVE DOOR	
MODEL # 551 553 550 552 572	 (OUTSWING) QTY. RHR ACTIVE QTY. LHR ACTIVE LHR INACTIVE RHR INACTIVE	MODEL # 561 563 560 562 574	 (INSWING) QTY. RH ACTIVE QTY. LH ACTIVE LH INACTIVE RH INACTIVE
OTHER MODEL # _____	 (INSWING) QTY. LH ACTIVE QTY. RH ACTIVE RH INACTIVE LH INACTIVE	OTHER MODEL # _____	 (OUTSWING) QTY. LHR ACTIVE QTY. RHR ACTIVE RHR INACTIVE LHR INACTIVE

STEP 2

ACTIVE

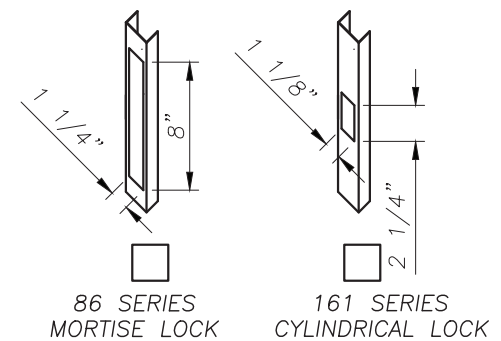
INACTIVE



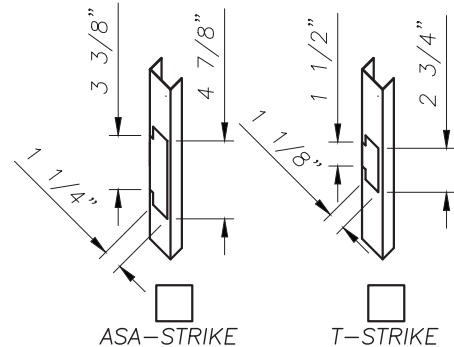
STEP 3

PREPS

(A) ACTIVE DOOR PREPS

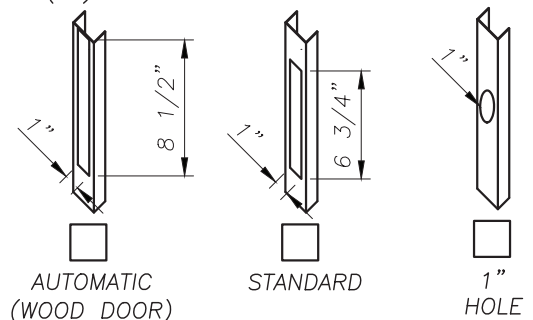


(B) INACTIVE DOOR PREPS



(C) FLUSH BOLT

FIREPIN



COMPANY:	
PO#:	DATE:
JOB NAME:	
MODEL #:	FINISH:
SIGNATURE:	

NOTE: SOME DEAD BOLT PREPS ARE AVAILABLE. PLEASE CONSULT FACTORY

PLEASE COMPLETE steps 1 thru 3:

1. Quantity for each hand
2. Hardware locations
3. Select hardware preps



FINGER GUARDS

PINTAILS - Pintails are a large duck, with their name coming from the male's long central tail feathers. Pintails are highly gregarious, often found in big flocks mixed with many other species. Pintails are comfortable walking on land, giving them an unusual waterfowl characteristic.

Finger Guard Product Index:

	Page
Finger Guard	FG2
Hinge side Finger Guard	FG3



Numerical Index:

	<u>Page</u>
2248	FG2
2252	FG3

Rating Symbols Legend



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to fire doors rated as indicated.



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to fire doors rated as indicated.

LEED Green Building

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council. Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website www.ngp.com

Health Product Declarations (HPD) may be viewed on our website www.ngp.com

National Guard Products sustainability report may be viewed on our website www.ngp.com

Contact us regarding our end of use product recycling program.

Buy American Requirements

Buy American Act

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American certificate may be obtained on our website, www.ngp.com.

Federal American Recovery and Reinvestment Act

More than 99% of our products qualify as manufactured products produced in the United States as manufactured goods, as defined in OMB Guidance (176.140; 176.70(a) (2) (ii); 176.160, complying with the Federal American Recovery Reinvestment Act, ARRA-2009. Contact us for a Buy America ARRA certificate for your project.

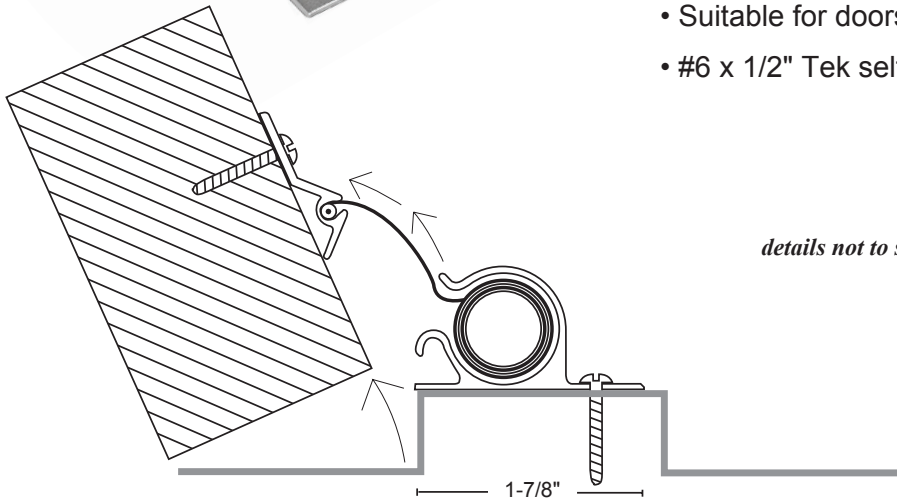
Buy America

More than 99% of our products comply with Buy America Requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661. Contact us for a Certificate of Compliance for your project.

Components of unknown origin are considered to have been produced or manufactured outside the United States.

Finger Guard

Finger Guard is designed to help prevent injury to fingers accidentally placed in the hinge area of a door. This unique product features an internal spring mechanism that maintains constant tension against the polyethylene fabric which helps prevent fingers from entering the dangerous area behind the edge of the door.



- Ideal for Senior & Childcare facilities
- Anodized Aluminum Housing
- Durable “endless cycle” Spring Mechanism
- Fire Resistant Woven Polyethylene Fabric
- 82" for 7' door opening
- 38" dutch door size
- Custom lengths 12" up to 86" available. Order 2" less than opening height to allow for the stop on the door frame head and door bottom undercut.
- Not field sizable
- Mounts on push side of door
- Suitable for doors swinging up to 180 degrees
- #6 x 1/2" Tek self-drilling screws furnished

door shown in open position



2248A Aluminum clear anodized w/ white polyethylene

2248DKB Dark Bronze anodized w/ black polyethylene

Available in 38", 76", 82" and 86" standard lengths

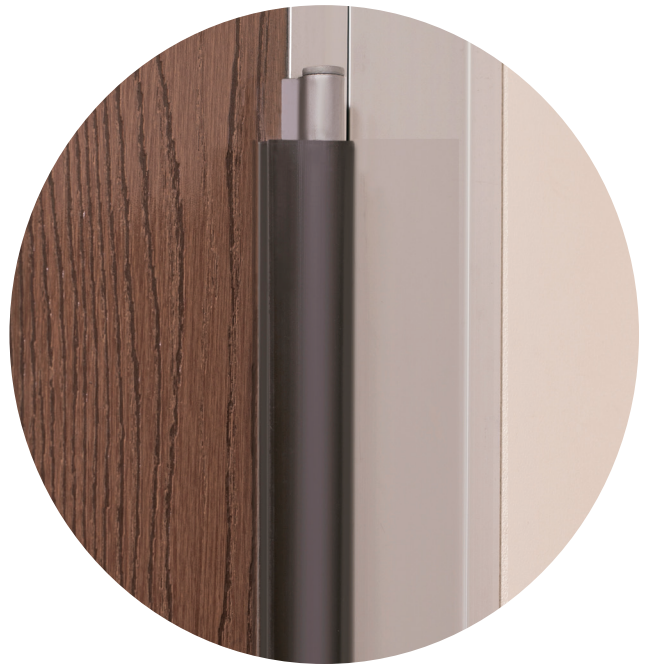
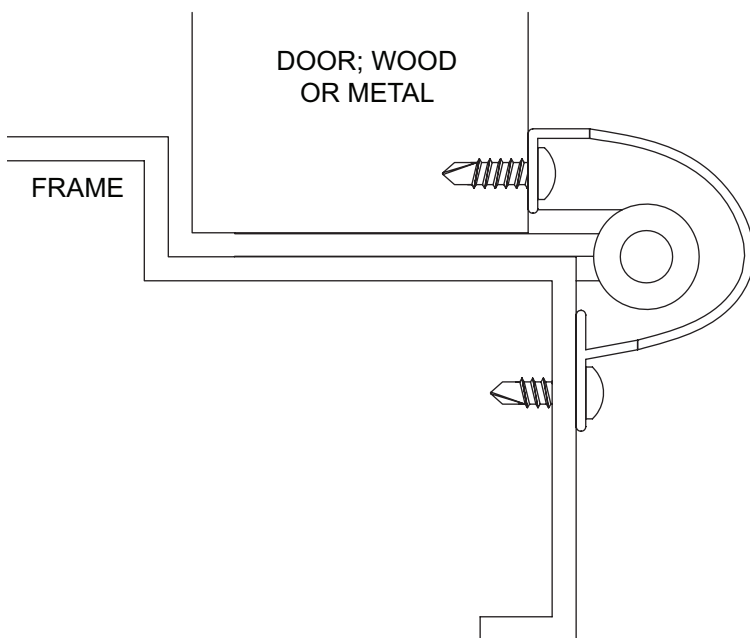
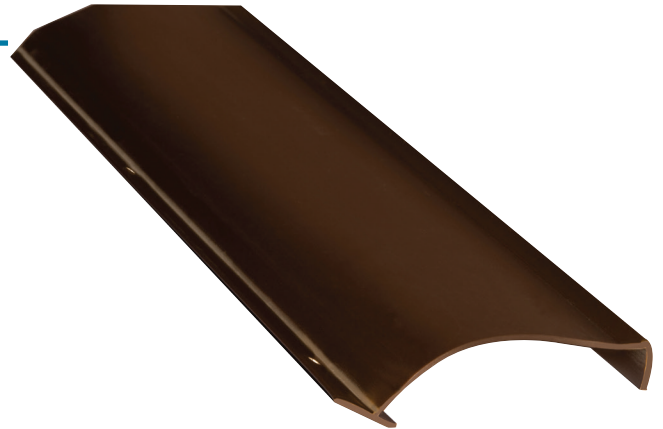


Rated up to 3 hours metal doors, 1 hour wood doors

Hinge Side Finger Guard

Designed to help prevent injury to fingers accidentally placed in the hinge area of a door.

- Flexible Vinyl with rigid Thermoplastic base
- Available in Brown, Charcoal and White
- 83" length
- Can be cut in the field
- Mounts on pull side of door
- #6 x 1/2" Tek self-drilling screws



2252B Brown
2252C Charcoal
2252W White



Rated up to 3 hours metal doors, 1-1/2 hours wood doors



FLOOD SHIELD





FLOOD SHIELD INDEX:

FS10.....FS1, FS2

FS22.....FS1, FS2

FS34.....FS1, FS2



FLOOD SHIELD

DROP IN AND GO!

Flood Shield is Designed to Help Protect Door Openings and Building Contents from Flood Water. This Unique Product Features a Spring Mechanism that Maintains Constant Tension Against the Gasketing to Create a Solid Flood Barrier.

- ▶ Stainless Steel Springs Provide Constant Seal Compression.
- ▶ ¼" Marine Grade Aluminum Shield with Handle Cutouts.
- ▶ Closed Cell Neoprene Rubber Gaskets Installed on Bottom and Sides of Shield.

SKU	HEIGHT
FS10	10" high
FS22	22" high
FS34	34" high

* Up to 96" wide

* Over 50" support post recommended.

* Complies with guidelines of the Federal Emergency Management Agency (FEMA) and Federal Insurance and Mitigation Administration (FIMA) for use on doors in flood prone areas.

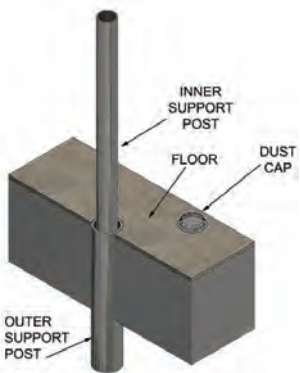
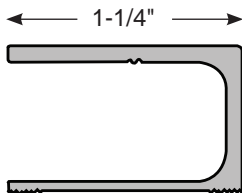


FLOOD SHIELD

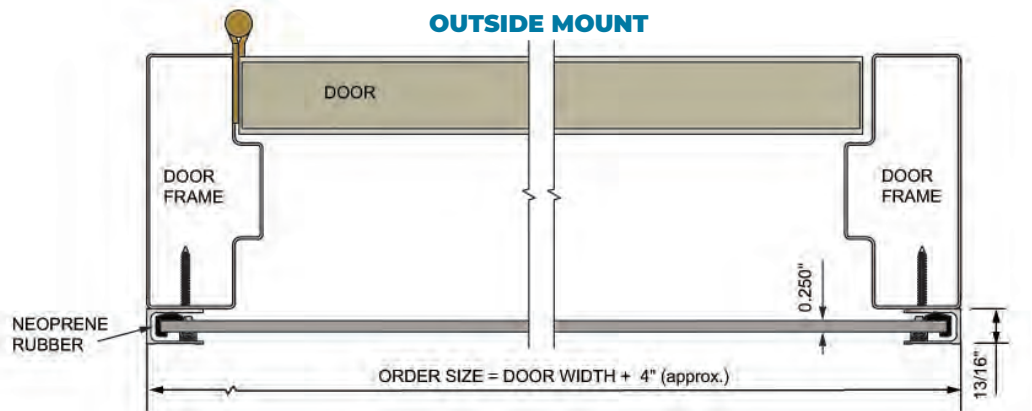
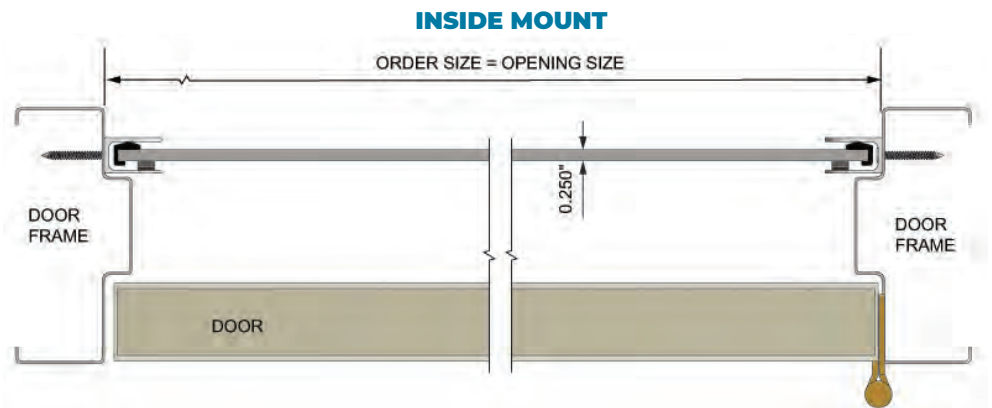
- ▶ 1/4" Marine Grade Aluminum Shield with Handle Cutouts.
- ▶ Closed Cell Neoprene Rubber Gaskets Installed on Bottom and Sides of Shield.
- ▶ Anodized Aluminum Mounting Channels.
- ▶ Universal Channels can Install Inside or Outside Mount.
- ▶ Dark Bronze Mounting Channels Available (Specify).
- ▶ Stainless Steel Springs Provide Seal Compression.
- ▶ #10 x 1 1/2" Stainless Steel Sheet Metal Screws.
- ▶ Complies with Guidelines of the Federal Emergency Management Agency (FEMA) and Federal Insurance and Mitigation Administration (FIMA) for Use on Doors in Flood Prone Areas.
- ▶ Lengths up to 96" Available.
- ▶ A Center Support Post is Recommended for Installations Over 50".
- ▶ A Threshold is Recommended if Sill is Not Smooth and Clean.
- ▶ Orders for this Product are Non-Changeable and Non-Cancellable.

SKU	HEIGHT
FS10	10" high
FS22	22" high
FS34	34" high

MOUNTING CHANNEL



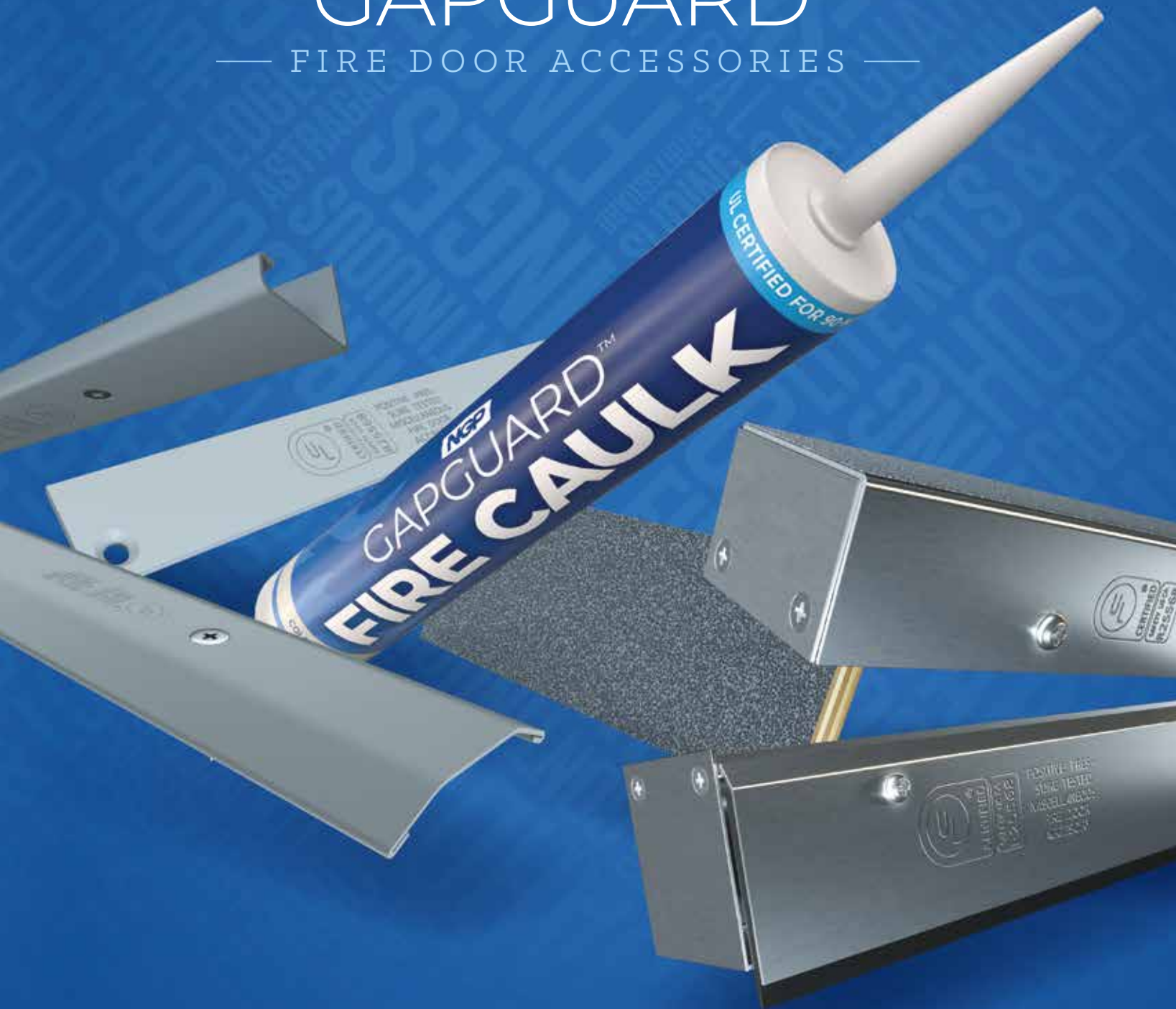
FSSP Optional Center Support & Cap





GAPGUARD™

— FIRE DOOR ACCESSORIES —





GAPGUARD™ INDEX:

	Page
Cylindrical Hardware Prep Filler.....	GAP10
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End Caps	GAP13
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Fire Door Head and Jamb Gap Solution for Narrow Soffit.....	GAP3
Fire Door Top Gap Solution.....	GAP4
Flush Bolt Hardware Prep Filler.....	GAP8
GAPGUARD™ 90 Minute Strike Shims.....	GAP12
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FIRE CAULK	GAP11	HP90-CYL	GAP10	9595.....	GAP7
GAP90™	GAP2	HP90-FB	GAP8	9990.....	GAP4
GAP90DKB™	GAP2	HP90-MORT.....	GAP9	9945EC.....	GAP13
GAP90-ME.....	GAP5	HS-1.....	GAP13	9945NEC.....	GAP13
GAP90N™	GAP3	5075.....	GAP3		
GAP90NDKB™	GAP3	600D-28.....	GAP9		

RATINGS AND LEED

RATING SYMBOLS LEGEND



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B, complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



SMOKE & DRAFT CONTROL GASKETING, Certified by UL to ANSI/UL10C and ANSI/UL1784 Category 'H'; complies with IBC and NFPA 105 for use on 'S' labeled Positive Pressure Hollow Metal fire doors rated up to 3 hours, and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



ACOUSTICAL TESTED to ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, and ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods. Refer to information on pages G4 and G5 of our full catalog for test result data.



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



ANTI-MICROBIAL Treated with an anti-microbial additive to prohibit the growth of microorganisms.



ANSI/BHMA CERTIFIED Certified gasketing complies with American National Standard for Door Gasketing and Edge Seal Systems ANSI/BHMA A156.22, and is listed in the BHMA Certified Products Directory.



Online product listings: www.ul.com/database



LEED GREEN BUILDING

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council.

Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website, www.ngp.com

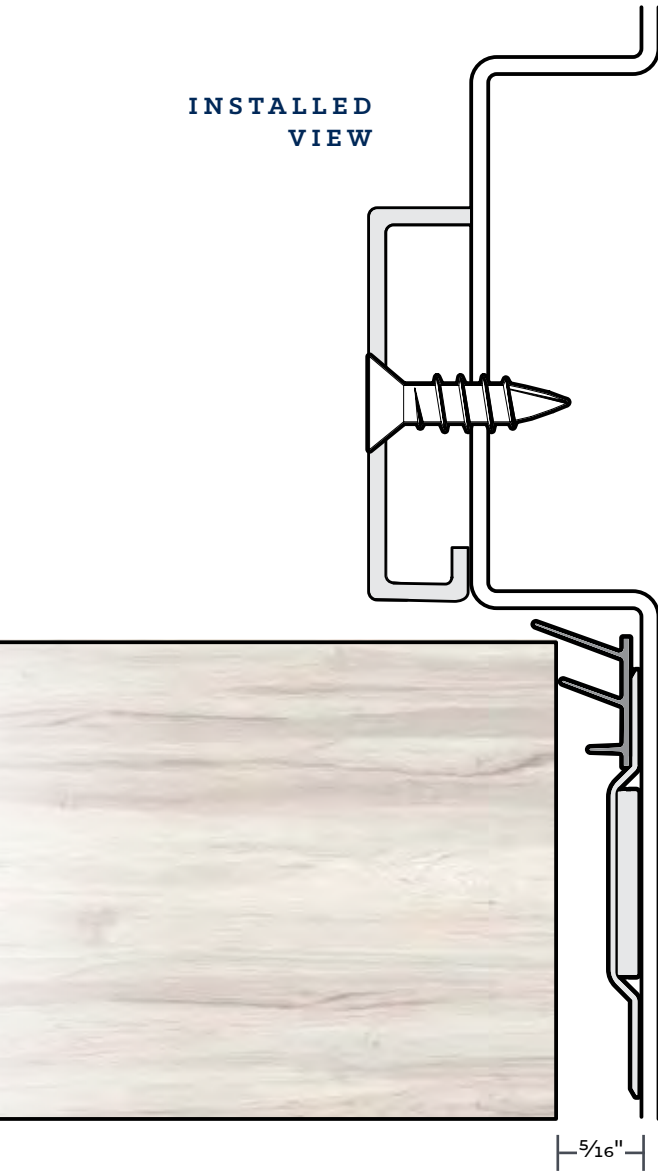
Health Product Declarations (HPD) may be viewed on our website, www.ngp.com

National Guard Products sustainability report may be viewed on our website, <https://www.ngp.com/report/>

Contact us regarding our end of use product recycling program.

UL Certified Solution for Fire Doors with Excessive Clearance Between Door and Frame Over $\frac{1}{8}$ ", up to $\frac{5}{16}$ ".

INSTALLED
VIEW

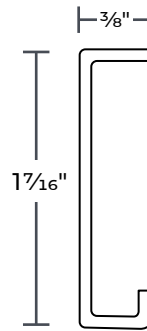


PRODUCT CONSISTS OF:

9945

Steel Stop Extender

- 16-Gauge, Gray Primer Finish
- Furnished with #10 X 1" TEK SMS
- Patent No.: US9,273,510B2
- Embossed with **UL Mark**



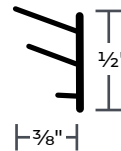
5075

Self-Adhesive TPE Seal

5075B BROWN

5075CL CLEAR*

5075W WHITE



9400

NGP-Edge® Intumescent Seal with PVC Cover

9400 GRAY

9400DKB BROWN

9400W WHITE



90-Minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors.

An NGP Strike Shim 9275 or 9225 may also be required for proper latchbolt engagement.

Doors with parallel arm closers — use 9990 Fire Door Top Gap Solution.

GAP90™ INCLUDES 9945, 9400, 5075CL

GAP90DKB™ INCLUDES 9945, 9400DKB, 5075B

GAP90W™ INCLUDES 9945, 9400W, 5075W

Available in 36", 48", 84" and 96" Lengths

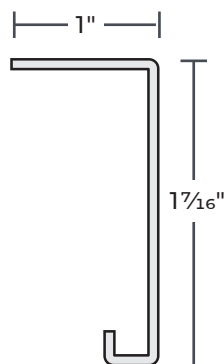
GAP90N™

FIRE DOOR HEAD AND JAMB GAP SOLUTION FOR NARROW SOFFIT



UL Certified Solution for Fire Doors with Excessive Clearance Between Door and Frame Over $\frac{1}{8}$ ", up to $\frac{5}{16}$ " and a Soffit Measuring $\frac{1}{2}$ " to $1\frac{1}{2}$ ".

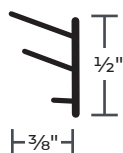
PRODUCT CONSISTS OF:



9945N

Steel Stop Extender

- 16-Gauge, Gray Primer Finish
- Furnished with #10 X 1" TEK SMS
- Patent No.: US9,273,510B2
- Embossed with **UL Mark**



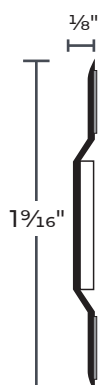
5075

Self-Adhesive TPE Seal

5075B BROWN

5075CL CLEAR*

5075W WHITE



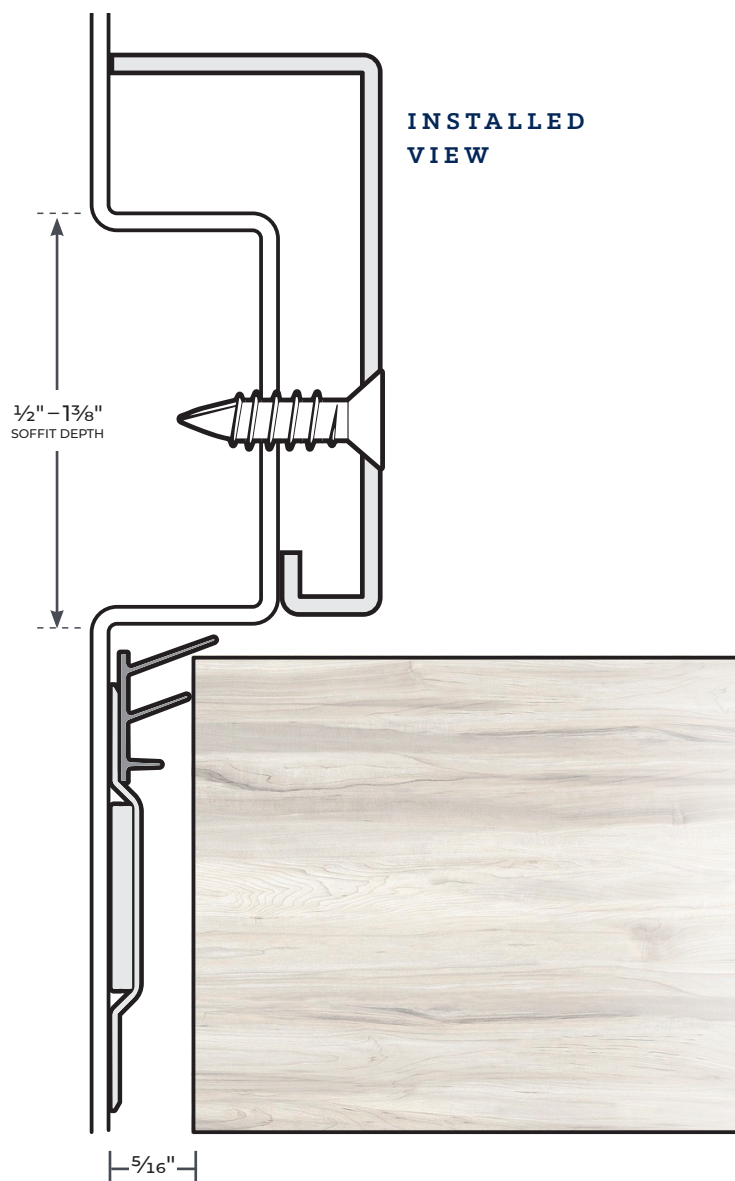
9400

NGP-Edge® Intumescent Seal with PVC Cover

9400 GRAY

9400DKB BROWN

9400W WHITE



90-Minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors.

An NGP Strike Shim 9275 or 9225 may also be required for proper latchbolt engagement.

Doors with parallel arm closers — use 9990 Fire Door Top Gap Solution.

GAP90N™ INCLUDES 9945N, 9400, 5075CL

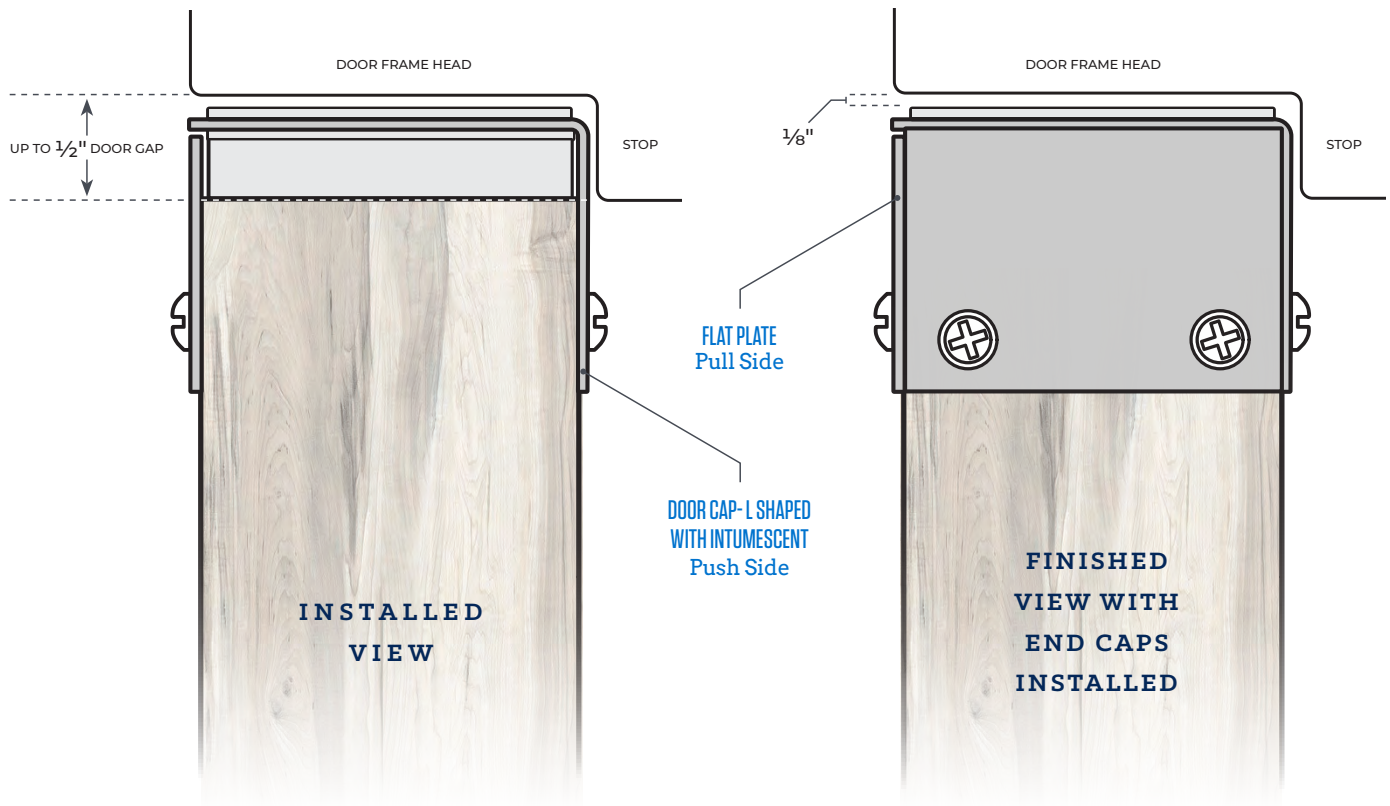
GAP90NDKB™ INCLUDES 9945N, 9400DKB, 5075B

GAP90NW™ INCLUDES 9945N, 9400W, 5075W

Available in 36", 48", 84" and 96" Lengths

9990

FIRE DOOR TOP GAP SOLUTION



PRODUCT INFORMATION

UL Certified for Door Top Gaps — Measuring up to $\frac{1}{2}$ ".

- ▶ 90-Minute Rated — for use on UL10B and UL10C wood or hollow metal fire doors
- ▶ Recommended for doors with parallel arm closers
- ▶ Patent Pending
- ▶ Available in 36" and 48" lengths
- ▶ Brushed stainless steel
- ▶ Non-handed

PRODUCT CONSISTS OF:

- + #304 Brushed Stainless Steel Flat Plate - Pull Side
- + #304 Brushed Stainless Steel Intumescent Cap—Push Side
- + #304 Brushed Stainless Steel End Caps
- + #6 x $\frac{3}{4}$ " Stainless Steel SMS Furnished

GAP90-ME

MEETING EDGE GAP SOLUTION



UL Certified Solution for Fire Doors with Excessive Clearance Between the Meeting Edges of a Pair of Doors, up to $\frac{3}{8}$ ".

- Application Certified on both Hollow Metal and Wood Fire-Rated Doors, up to 90-Minute
- Patent Pending
- Non-Handed
- Certified for use on Doors with Surface/ Concealed Vertical Rod Exit Devices or Manual/Automatic Flush Bolts (see *Installation Instructions*)
- Can be Installed with the Door on the Hinges
- Can be Field-Modified to Match-Fit Varying Width Gap Along Height of the Door (see *installation instructions*)

PRODUCT CONSISTS OF:

- + Formed Metal Edge, 20-Gauge Steel, Embossed With UL Mark
- + Powder Coated, Primer Gray
- + Hardware Pack
 - #10 x $\frac{3}{4}$ " FHPH SS TEK
 - #10 x $2\frac{1}{2}$ " FHPH SS SMS
- + GapGuard™ Fire Caulk (see *Installation Instructions*)



SPECIAL NOTES:

- 90-minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors
- An NGP Strike Shim 9275 or 9225 may also be required for proper latchbolt engagement
- Certified for on-site modifications around strike location
- If fire pins are used, it is recommended to apply metal edge to door with fire pin receiver, ensuring receiver is flush with metal edge
- To retain UL Certification, the Gap90-ME must be installed using GapGuard™ Fire Caulk

Formed Metal Edge

Formed Metal Edge

$\frac{1}{2}$ " x $1\frac{1}{2}$ " Cylindrical Anchoring Bore Filled With Gapguard™ Fire Caulk (wood door application only)

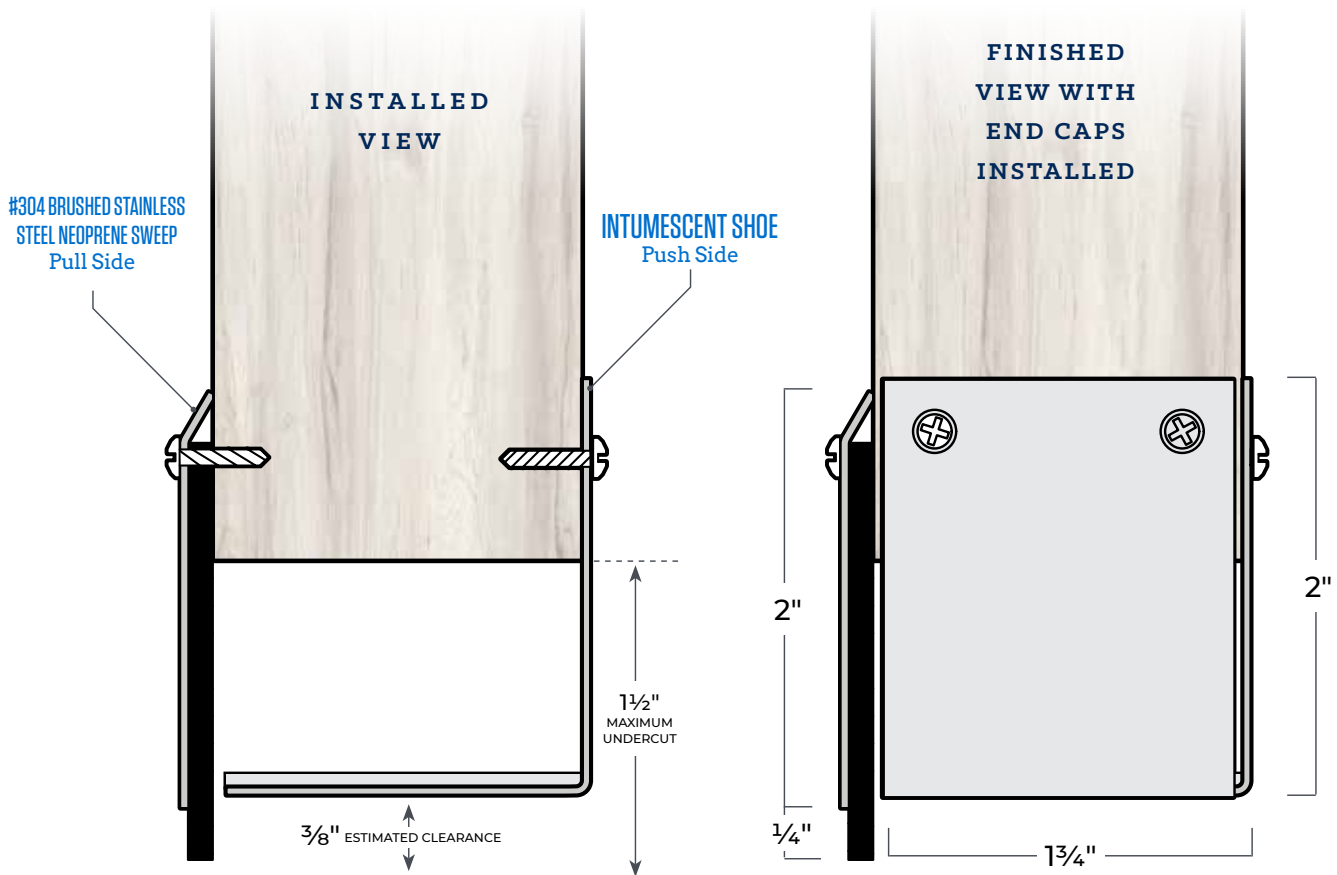
$\frac{1}{2}$ " x $1\frac{1}{2}$ " Cylindrical Anchoring Bore Filled With Gapguard™ Fire Caulk (wood door application only)

$\frac{1}{2}$ " x $1\frac{1}{2}$ " Cylindrical Anchoring Bore Filled With Gapguard™ Fire Caulk (wood door application only)

**WOOD DOOR
INSTALLATION SHOWN**

9590

DOOR BOTTOM GAP SOLUTION



PRODUCT INFORMATION

UL Certified for Door Bottom Gaps — Measuring up to 1 1/2".

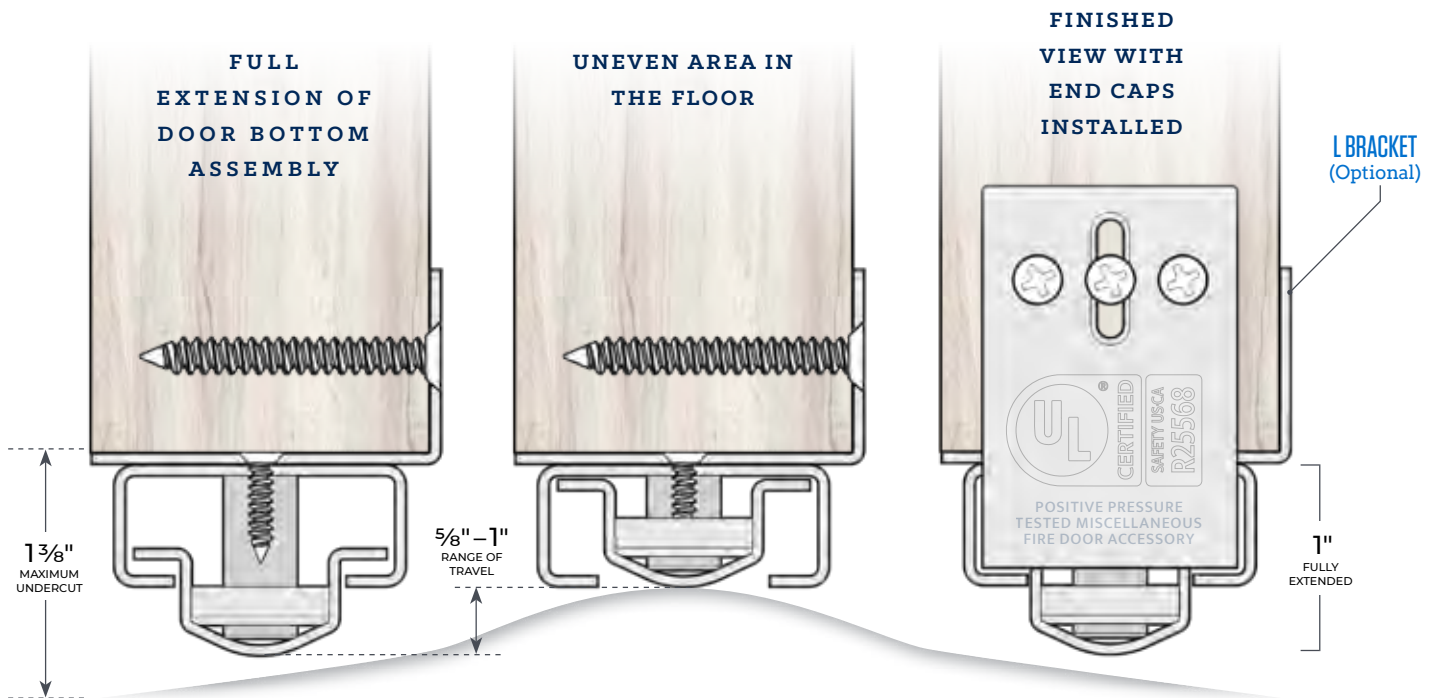
- Restricts the passage of smoke
- 90-Minute Rated — for use on UL10B and UL10C wood or hollow metal fire doors
- Patent Pending
- Available in 36" and 48" Lengths
- Non-Handed

PRODUCT CONSISTS OF:

- + #304 Brushed Stainless Steel Neoprene Sweep — Pull Side
 - + #304 Brushed Stainless Steel Intumescent Shoe — Push Side
 - + #304 Brushed Stainless Steel End Caps
 - + #6 × 3/4" Stainless Steel SMS Furnished
- Brushed stainless steel
Neoprene is black*

9595DKB

DOOR BOTTOM GAP SOLUTION



PRODUCT INFORMATION

UL Certified Solution for Fire Doors With Excessive Clearance Between the Bottom of the Door and Finished Floor, up to 1 3/8".

- Application Certified on both Hollow Metal and Wood Fire-Rated Doors, up to 90-Minutes
- Patent Pending
- Non-Handed
- L-bracket allows Installation while Door Remains on Hinges
- Field Trim to Fit: up to 1 1/2" per side, 3" total
- Designed to Travel Over Uneven Floors, with a range of 3/8"
- May be Fastened to the Underside of the Door's Bottom Rail to Minimize Visibility.
- End Caps Set Height Position and Provide a Finished Look
- Sizes: 36", 42" and 48"

PRODUCT CONSISTS OF:

- + L-Bracket, 16-Gauge Steel, Embossed with UL Mark
- + Door Bottom Assembly, 18-Gauge Steel
- + End Caps, 18-Gauge Steel, Embossed With UL Mark
- + Hardware Pack
 - #10 x 1 1/2" PHPH SS SMS (DKB)
 - #8-32 x 1 3/4" PHP SS Thru-Bolt (DKB)
 - #6 x 3/8" SS TEK
 - #10 x 2" PHPH SS SMS
 - #6 x 3/4" FHPH SS SMS (DKB)

Powder Coated, DKB

HP90-FB

FLUSH BOLT HARDWARE PREP FILLER



UL Certified Solution for Fire Doors When Either Removing Existing Hardware and/or Using a New Hardware Type Over Existing Hardware Prep's.

PRODUCT INFORMATION

- ▶ Application Certified On Both Hollow Metal And Wood Fire Rated Doors Up To 90-Minutes
- ▶ Patent Pending
- ▶ Certified for Filling Manual or Automatic Flush Bolt Cavities

PRODUCT CONSISTS OF:

- + HP90 – 2" x 6" Rectangular Fire-Rated Panel
- + HP90 – 0.5 Cylindrical Fire-Rated Panel
- + Steel Filler Plates: (*Powder Coated Primer Gray, Embossed With UL Mark*)
 - HP90-FBE6750, Edge Filler Plate
 - HP90-FBE8500, Edge Filler Plate
 - HP90-FBL2000, Latch Bolt Filler Plate
 - HP90-FBL2500, Latch Bolt Filler Plate
 - HP90-FBL3875, Latch Bolt Filler Plate
 - HP90-SF2250, Strike Filler Plate
- + Hardware Pack
 - #10-32 x 1-3/4" FHPH SS machine screw
 - #8 x 3/4" FHPH SS combo screw
 - #12 x 1" FHPH SS combo screw
 - #8 x 3/4" FHPH SS SMS
 - #12 x 1" FHPH SS SMS
- + GapGuard™ Fire Caulk (*see Installation Instructions*)



SPECIAL NOTES:

- 90-minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors
- To retain UL Certification, the HP90-MORT must be installed using GapGuard™ Fire Caulk

HP90-MORT

MORTISE HARDWARE PREP FILLER



UL Certified Solution for Fire Doors When Either Removing Existing Hardware and/or Using a New Hardware Type Over Existing Hardware Prep's.

PRODUCT INFORMATION

- Application Certified on Both Hollow Metal and Wood Fire-Rated Doors – up to 90-Minute
- Patent Pending
- Certified for Filling Mortise Lockset Cavities

PRODUCT CONSISTS OF:

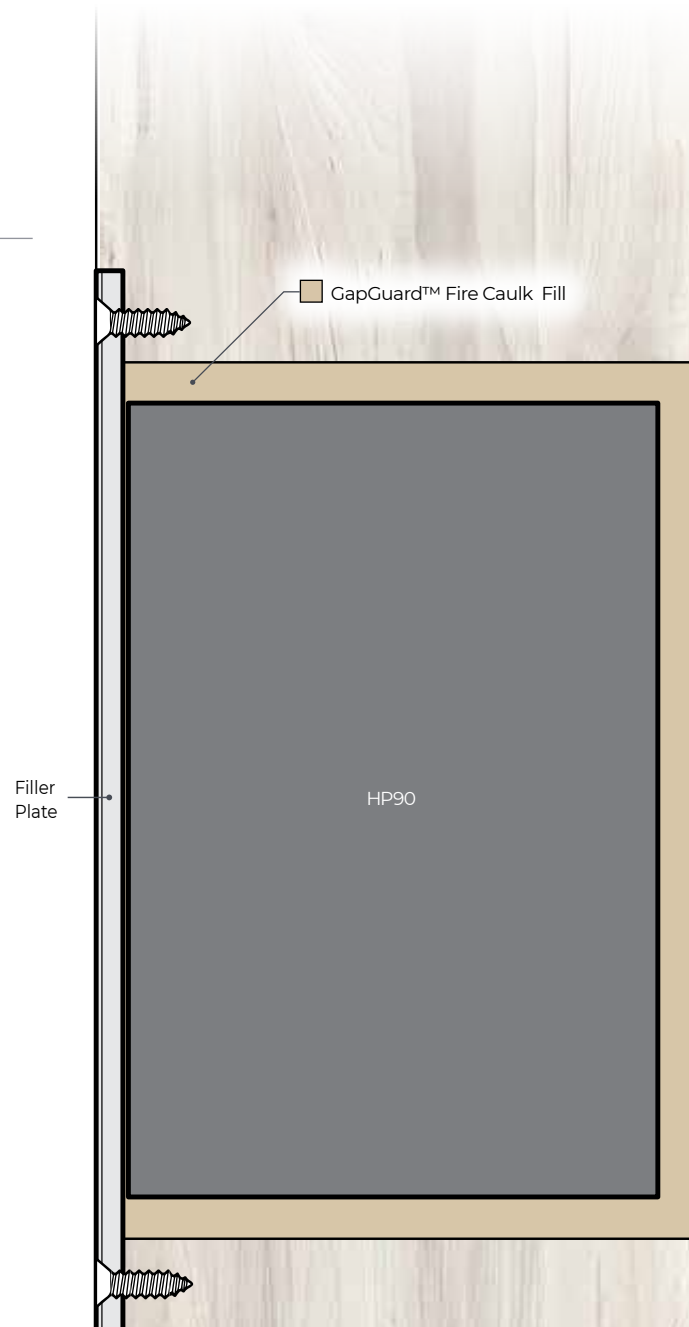
- + HP90 – 4"×6" Fire-Rated Panel
- + Steel Filler Plates: *(Powder Coated Primer Gray, Embossed With UL Mark)*
 - HP90-MEF1258, Edge Filler Plate
 - HP90-SF4875, Strike Filler Plate
- + Hardware Pack
 - #10-32×1-3/4" FHPH SS machine screw
 - #8×3/4" FHPH SS combo screw
 - #12×1" FHPH SS combo screw
 - #8×3/4" FHPH SS SMS
 - #12×1" FHPH SS SMS
- + GapGuard™ Fire Caulk
(see Installation Instructions)



SPECIAL NOTES:

- 90-minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors

- To retain UL Certification, the HP90-MORT must be installed using GapGuard™ Fire Caulk



WOOD DOOR INSTALLATION SHOWN

HP90-CYL

CYLINDRICAL HARDWARE PREP FILLER



UL Certified Solution for Fire Doors When Either Removing Existing Hardware and/or Using a New Hardware Type Over Existing Hardware Prep's.

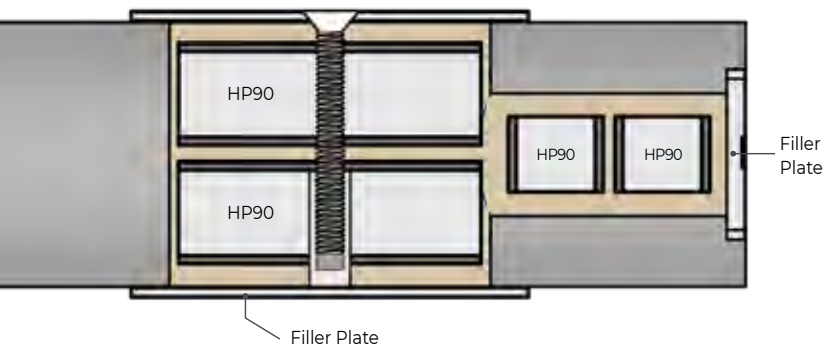
- Application Certified on both Hollow Metal and Wood Fire Rated Doors, up to 90 Minutes
- Patent Pending
- Certified for Filling Cylindrical Lockset Cavities

WOOD DOOR: INSTALLED VIEW



GapGuard™ Fire Caulk Fill

STEEL DOOR: INSTALLED VIEW



GapGuard™ Fire Caulk Fill

PRODUCT CONSISTS OF:

- + Fire-Rated Panels:
 - HP90 – 2.0
 - HP90 – 1.0
 - HP90 – 0.5
- + Steel Filler Plates, powder coated, primer gray, embossed with UL Mark
 - HP90-RDCP, Filler Plate
 - HP90-CEF1000, Edge Filler Plate
 - HP90-SF2750, Strike Filler Plate
 - HP90-SF4875, Strike Filler Plate
- + Hardware Pack
 - #10-32 x 1 3/4" FHPH SS machine screw
 - #8 x 3/4" FHPH SS combo screw
 - #12 x 1" FHPH SS combo screw
 - #8 x 3/4" FHPH SS SMS
 - #12 x 1" FHPH SS SMS
- + GapGuard™ Fire Caulk
(see *Installation Instructions*)



SPECIAL NOTES:

- 90-minute rated UL Certified Miscellaneous Fire Door Accessory on UL10B and UL10C wood or hollow metal fire doors
- To retain UL Certification, the HP90-MORT must be installed using GapGuard™ Fire Caulk

HP90

HARDWARE PREP FILLERS



UL Certified Solution for Fire Doors When Either Removing Existing Hardware and/or Using a New Hardware Type Over Existing Hardware Prep's.



- Application Certified on both Hollow Metal and Wood Fire Rated Doors, up to 90 Minutes
- Certified for Use in Combination With Gap Guard™ Fire Caulk to Fill Thru-Holes Between ½" Diameter and 2 ½" Diameter

PART NO.	DESCRIPTION
HP90 - 0.5	½" diameter hardware prep filler (10 Pack)
HP90 - 1.0	1" diameter hardware prep filler (10 Pack)
HP90 - 1.5	1½" diameter hardware prep filler (10 Pack)
HP90 - 2.0	2" diameter hardware prep filler (10 Pack)

GAPGUARD™ FIRE CAULK



UL Certified Solution for Fire Doors and Frames to Seal Thru-Holes as well as in Combination With Other Hardware Prep Filler Solutions.

PRODUCT INFORMATION

- Application Certified on both Hollow Metal and Wood Fire-Rated Doors, up to 90-Minutes
- Can be used to fill up to a ½" Diameter Thru-Hole
- Fully Cured in 24 Hours
- Can be Sanded and Painted after Full Cure
- Indoor Use Only
- Shelf Life is 12 Months
- 10.3 fl. oz. Cartridge
- 10 Tubes per Box

Color: Tan



GAPGUARD™ STRIKES

90 MINUTE STRIKE SHIMS



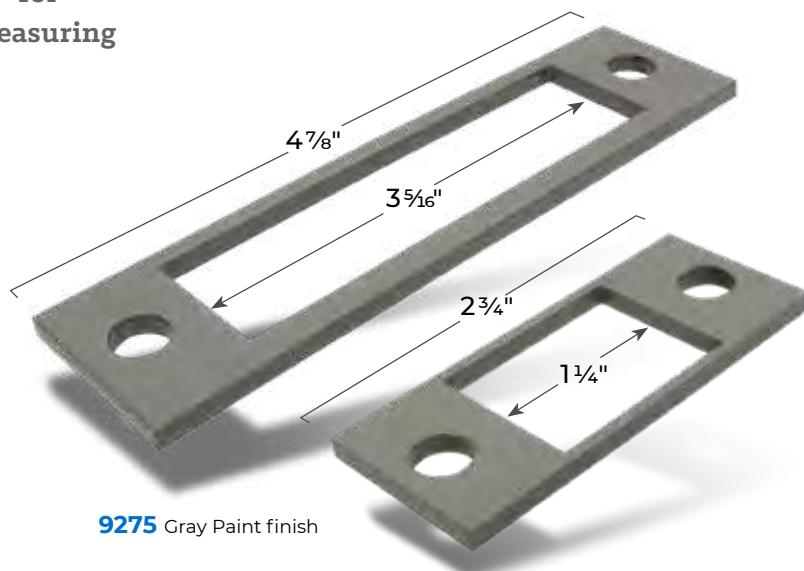
UL Certified Miscellaneous GAPGUARD™ for Excessive Door and Frame Clearances, Measuring up to 5/16".

9275 - Fits 4 7/8" 'ASA' Strike Plate

9225 - Fits 2 3/4" 'T' Strike Plate

UL Certified Miscellaneous Fire Door Accessory for Excessive Door and Frame Clearances, Measuring Up To 5/16"

Required for Proper Latchbolt Engagement
90-Minute Rated UL10B and UL10C Wood or Hollow Metal Fire Doors



9275 Gray Paint finish

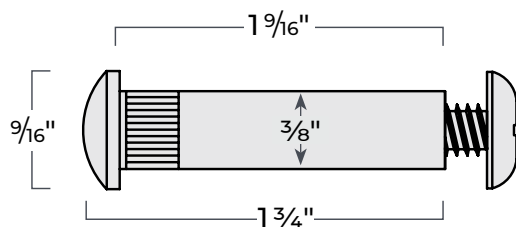
9225 Gray, Paint finish

GAPGUARD™ THRU-BOLTS

90 MINUTE THRU-BOLTS

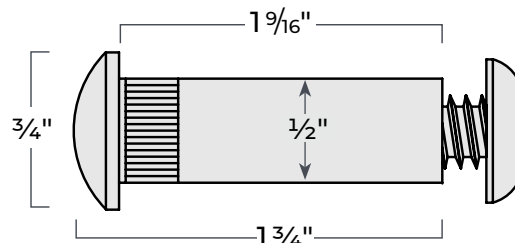


- ▶ Fits 1 3/4" to 2" Thick Doors
- ▶ Zinc-Plated Steel Sleeve with Machine Screws
- ▶ Meets Requirements of NFPA 80 for Use on Fire Doors
- ▶ Use to Fill Holes in Wood or Steel Fire Doors to Protect Label Compliance
- ▶ Available in Boxes of Twenty



FDTB 3/8"

Thread Size 3/4-20



FDTB 1/2"

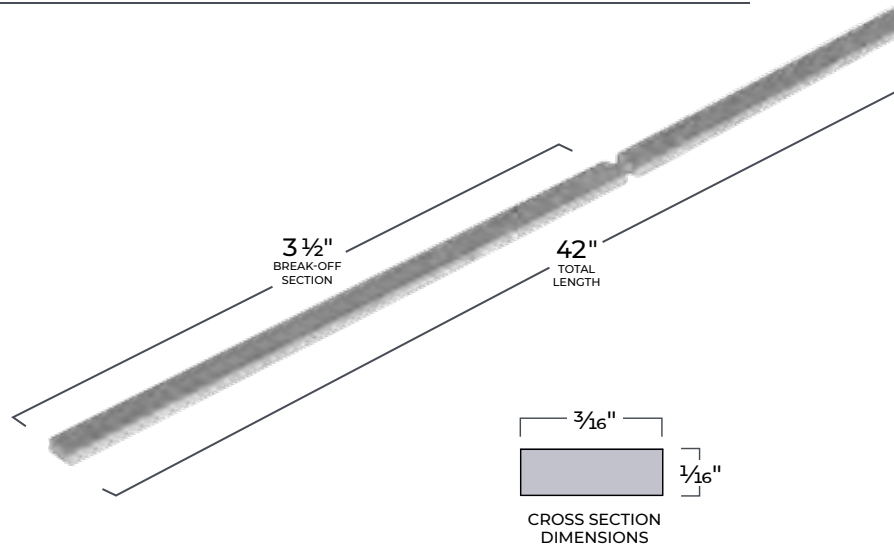
Thread Size 5/16-18

STEEL HINGE SHIMS



HS-1

- ▶ Use to Shim Hinges to Achieve Required Clearances Between Door and Frame
- ▶ Dual Purpose Shim
 - Use Full 42" Length for Continuous Hinges
 - Break-Off 3 1/2" Sections for Butt Hinges
- ▶ Steel Fire-Rated Shims
- ▶ Pressure Sensitive Adhesive Pads Included for Holding in Place During Installation
- ▶ Removable, Re-Stickable, and Stackable
- ▶ Available in Boxes of Ten



UL Certified Miscellaneous Fire Door Accessory

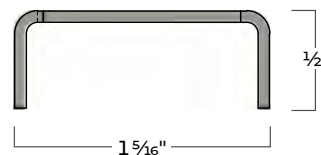
9945EC & 9945NEC END CAPS



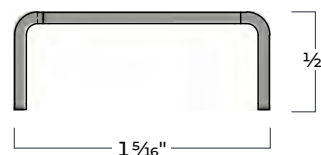
For Use on GAP90 and GAP90N Steel Stop Extender Components 9945 and 9945N.

- ▶ Use to Cap the Exposed Open End of the Steel Stop Extender When Cut at Rim Panic Strike or Other Hardware
- ▶ Sold in 10 packs

Sold flat, tabs must be formed prior to use.



9945EC



9945NEC



DOORGAP GAUGE®

The Only Gauge You Will Need to Check Fire Door Assembly Clearance Requirements

Patented Tool Easily Measures Gap for Fire Door Inspections.

Installers

- ▶ A Sure Way to Check Fire Door Clearance Requirements Before Inspection

Inspectors

- ▶ Will Speed Up Your Inspections
- ▶ More Accurate Than a Tape Measure
- ▶ Compact and Easy to Use

Distributors

- ▶ Supply With Job to Ensure Fire Assemblies Are Installed Per Fire Door Requirements

The Doorgap Gauge® Can Also Be Used To:

Check Life Safety Egress Assemblies

Check Other Construction Assemblies Requiring Specific Clearances and Operational Tolerances.

Common Questions

Gaps - Perimeter vs. Door Bottom?

Perimeter gaps in doors are the distance between the edge of the door and door frame as measured on the pull side of the opening. Door bottom gaps are the distance between the bottom of the door and the finish floor.

Gaps - Why Are They Important?

Proper gap tolerances ensure that the door will perform as it is intended. Gaps that are outside of tolerance can lead to compromised fire door integrity in a fire situation as well as not allowing

the fire door latching mechanism to engage fully as it is required to do by code.

Gaps - What Does the Code Say?

NFPA 80 (the code standard for fire doors) states that fire doors must be inspected on an annual basis. Maximum allowable perimeter gap is $\frac{1}{8}$ " for wood doors, $\frac{1}{8}$ " \pm $\frac{1}{16}$ " for metal doors. Maximum allowable door bottom gap is $\frac{3}{4}$ ". Gaps that exceed these maximum allowable tolerances result in a non-compliant fire door that needs to be repaired.



GAP GAUGE

(US Patent #7591073)



Gasketing

WOOD DUCKS - Wood ducks are one of the most stunningly pretty of all waterfowl. They live in wooden swamps and nest in holes in trees or “wood duck boxes” erected in their living areas. Wood ducks are equipped with strong claws which allow them to perch on branches.

Gasketing Product Index



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7	G32A	134N	G18	319V	G42	1038N	G32
12T	G43	134S	G20	320	G36	1390SP	G52
12V	G40	135N	G19	331	G41	1392SP	G52
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101V	G45	164V	G17	OV634	G23, 46	9706E	G24
102V	G45	165N	G18	A635	G53	9750	G15
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109SS	G28	189M	G50	679	G45		
110N	G18	197N	G44	680	G35		
110S	G20	198	G44	682	G37		
112N	G41	199N	G44	683	G37		
113N	G41	200	G44	D690	G46A		
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115N	G48	200SS	G29	D698	G46A		
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119N	G41	203N	G44	700E	G24		
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127SS	G28	284Q	G21	781S	G37		
129N	G19	303N	G33	816N	G38A		
129U	G19	304N	G33	816T	G38A		
129SS	G28	310	G34	816T6	G38A		
130N	G18	312V	G42	816V	G38A		
130BR	G30	312V X 131N	G38B	819N	G38A		
130S	G20	313V	G42	819T	G38A		
130SS	G28	318V	G42	819T6	G38A		

Rating Symbols Legend



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



NGP-EDGE® SEALING SYSTEM, Certified by UL to ANSI/UL10C Category 'G'; required for Category B wood fire doors to meet positive pressure requirements complying with IBC, and NFPA 252. See individual products for maximum door size and ratings.



SMOKE & DRAFT CONTROL GASKETING, Certified by UL to ANSI/UL10C and ANSI/UL 1784 Category 'H'; complies with IBC and NFPA 105 for use on 'S' labeled Positive Pressure Hollow Metal fire doors rated up to 3 hours, and Wood fire doors rated up to 90 minutes (some ratings vary as noted).



ACOUSTICAL TESTED to ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, and ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods. Refer to information on pages G4 and G5 for test result data.



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



ANTI-MICROBIAL. Treated with an anti-microbial additive to inhibit the growth of microorganisms.



ANSI/BHMA CERTIFIED. Certified gasketing complies with American National Standard for Door Gasketing and Edge Seal Systems ANSI/BHMA A156.22, and is listed in the BHMA Certified Products Directory.



Online product listings: www.ul.com/database



LEED Green Building

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council.

Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website, www.ngp.com

Health Product Declarations (HPD) may be viewed on our website, www.ngp.com

National Guard Products sustainability report may be viewed on our website, www.ngp.com

Contact us regarding our end of use product recycling program.

Materials

Metal retainers for gasketing are Aluminum Alloy 6063, T5 temper, unless noted.

Architectural Bronze gasketing is Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.

Stainless steel gasketing is Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

NGP utilizes a variety of gasketing materials including Vinyl, Neoprene, Silicone, Nylon Brush, Thermo-Plastic Elastomers (TPE), Thermo-Plastic Vulcanizates (TPV), Polypropylene Pile, Ethylene-Propylene-Diene-Monomer (EPDM), Polyurethane, and Intumescent Fire Seals. Product Illustrations indicate the Gasketing material. Properties of many primary gasket materials are listed on the perimeter seal catalog pages.

Adhesive mounted gasketing utilizes a pressure sensitive modified acrylic adhesive protected by a release liner. Once installed it provides a permanent bond in exterior or interior locations. End use temperature range is -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.

Gasketing Finishes

				<u>NGP Suffix:</u>
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Anodized Aluminum	ANSI/BHMA 628	US28	A
	Dark Bronze			DKB
	Gold Powder Coat			B
	Polished	ANSI/BHMA 717		POL
	Powder Coated Colors – See Page L2 for details			
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
Stainless Steel:	Brushed (#4)	ANSI/BHMA 630	US32D	None
Gasket Materials:	Neoprene is Black			N
	NGP-TPV is Black			N
	Polyurethane is Black			U
	Vinyl is Gray, except where noted as Black			V
	Silicone colors: Black, Brown, Clear, Gray, Tan, White			S
	Thermoplastic is Brown			T, T6
	Nylon Brush colors: Black, Gray			
	TPE colors: Brown, Charcoal, Clear, White			
	Polypropylene Pile is Gray			
	EPDM is Gray			

Powder Coat Finish

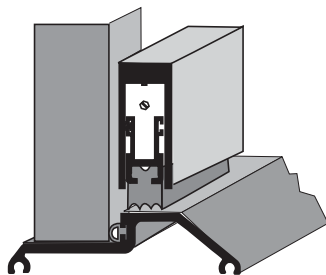
Powder Coat finish is available on most metal gasketing retainers upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.



Sound Transmission Class (STC) Rated Single Door Assemblies

The chart below indicates the STC rating of specially made acoustic doors using various applications of gasketing. The first column is the rating of the door panel only; tested in a static inoperable condition to determine the sound transmission through the door. The second column is the rating of the operable door installed with hardware and gasketing which provides the STC rating of the door assembly.

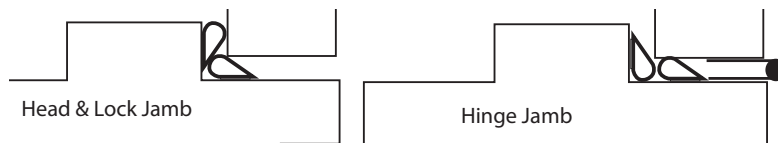
Acoustical testing to ASTM E90 Standard Test Method for Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods, and ASTM E1332 Standard Classification for Rating Outdoor - Indoor Sound Attenuation. The sound transmission class (STC) was calculated in accordance with ASTM E413 Classification for Rating Sound Insulation.



897N x 420N

STC Rating Static Door Panel	STC Rating Operable Door w/ Gasketing	Perimeter Seals	Door Bottom	Threshold
30	30	103N, 107N, 120N, 122N 127N, 133N, 134N, 137N 137S, 303N, 700N, 700S	420N	897N
30	30	130S	225S	896S
30	30	107S	220S	950S
33	31	5020	780S	513
35	33	5025	780S	513
36	33	5050	335N	513
35	34	5020, 5075	780S	513
35	35	5070, 9750, 9850	335S	896S
40	37	5020, 5025	780S	513
40	37	5075	12T	513
40	37	103N, 107N, 303N	420N	897N
40	38	•(2) 5050	335N	896S
40	39	120N, 122N, 133N, 134N 137N, 137S, 700N, 700S	420N	897N
40	39	107S	220S	950S
44	39	1038N, 3038N	423N	896S
43	39	•(2) 5050	420N	412
42	40	•(2) 5050	Mortise 312V	896S
43	40	•(2) 5050	423N	896S
44	40	131N	335N	896S
47	41	103NFS	422N	897N
45	42	•(2) 5050	335N	896S
47	43	•(2) 5050	423N	896S
50	43	103N, 134N	420N	897N
50	43	107S	220S	950S
51	43	159M	420N	897N
48	44	•(2) 5050	423N	896S
49	44	103NFS	422N	8434S
52	44	107N, 131N, 1038N, 3038N	420N	897N

• Indicates 2 rows of 5050 installed as follows:



STC Seal Sets - Single Doors

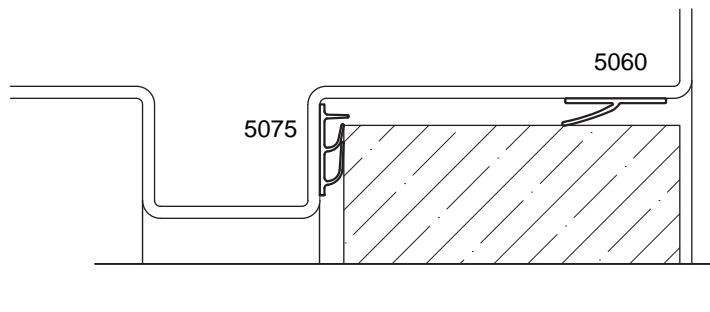
NGP Seal Sets maintain the static door panel STC with NO DROP OFF in an operable condition, up to the STC rating indicated.

STC Seal Set	STC Rating	Perimeter Seals at Heads & Jambs	Door Bottom	Corner Pads	Threshold
1	33	5050 & 2525	312V X 131N	60FP (2 req.)	8144S*
2	45	5075 & 5060	312V X 131N	60FP (2 req.)	8144S*
3	52	5075 & 5060	335S X STC2	60FP (2 req.)	8144S*
4	52	5075 & 5060	12T6 X STC-FH	60FP (2 req.)	8144S*
5	52	5075 & 5060	225S X STC2	60FP (2 req.)	8144S*
6	52	5075 & 5060	None	None	896S-ADJ

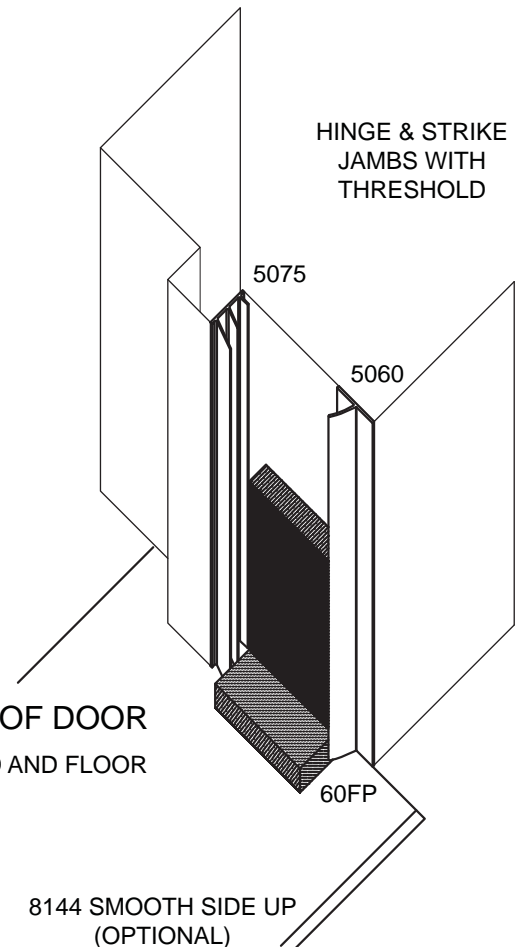
*optional

STC #3 Illustration

TOP OF FRAME
HEADER / JAMB AND DOOR

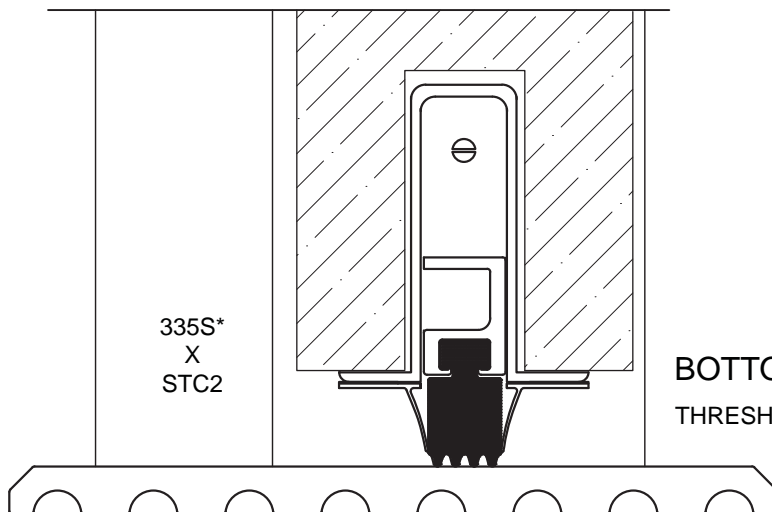


HINGE & STRIKE
JAMBS WITH
THRESHOLD



335S*
X
STC2

BOTTOM OF DOOR
THRESHOLD AND FLOOR



8144 SMOOTH SIDE UP
(OPTIONAL)

8144 SMOOTH SIDE UP
(OPTIONAL)

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum



NATIONAL GUARD PRODUCTS, INC. |

Phone 800-647-7874
Fax 800-255-7874

orders@ngp.com
quotes@ngp.com

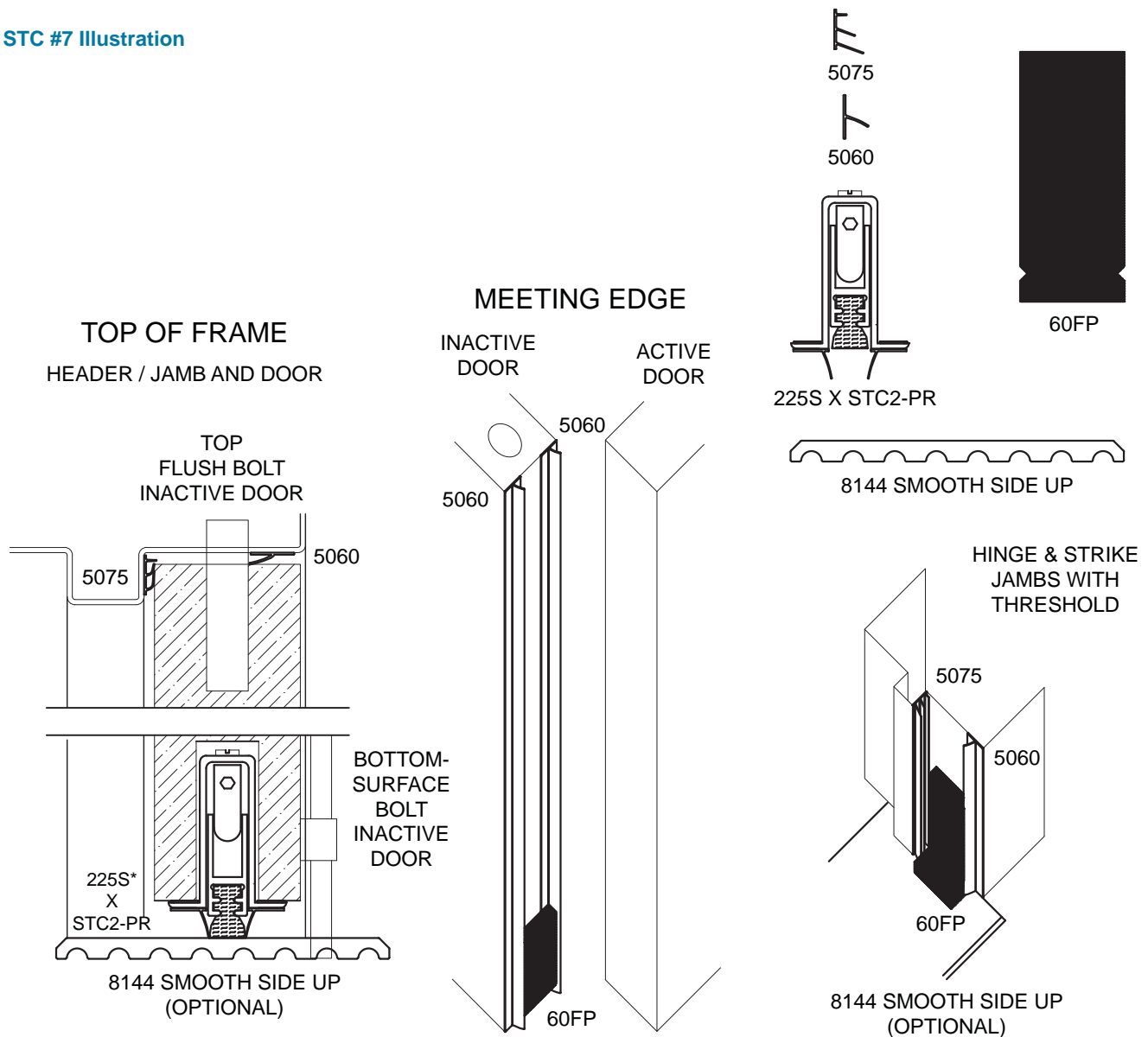
www.ngp.com

STC Seal Sets - Pairs of Doors

STC Seal Set	STC Rating	Perimeter Seals at Heads & Jambs	Door Bottom	Corner Pads	Meeting Edge Seals	Threshold
7	45	5075 & 5060	225S X STC2-PR	60FP (3 req.)	5060 (2 req.)	8144S*
8	45	5075 & 5060	12T6 X STC-FH	60FP (3 req.)	5060 (2 req.)	8144S*
9	45	5075 & 5060	335S X STC2-PR	60FP (3 req.)	5060 (2 req.)	8144S*

*optional

STC #7 Illustration



*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum

BOTTOM OF DOORS
THRESHOLD AND FLOOR

Sound Transmission Class (STC) Rated Pairs of Doors

Pairs of doors are intrinsically more difficult to control sound transmission through. Sealing the gap between the meeting edges under the doors is challenging, requiring a combination of properly coordinated and installed gasketing to seal all gaps.

STC Rating Static Door Panel	STC Rating Operable Door w/ Gasketing	Perimeter Seals	Door Bottom	Threshold	Astragal
35	35	5020		896S	5070
35	35	5070		896S	5070
35	34	5020	780S	512	5070
35	33	5025		896S	5070

Standard Doors without Special Acoustic Cores

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

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

PERIMETER AND DOOR BOTTOMS

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

MEETING EDGE of PAIRS

109N Overlapping Astragal
5070 Adhesive Astragal
115N Astragal Set

School Classroom Door STC Requirements

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

ANSI/BHMA



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

ANSI/BHMA A156.22

American National Standard for Door Gasketing and Edge Seal Systems

1 Product Section	2 Retainer Material	3 Gasketing Material	4 Product Type	5 Material Application	6 Gasketing Rating
"R" designates Gasketing	1. Brass or Bronze 3. Aluminum 5. Stainless Steel 0. Optional material or none used	A. Brush /Neoprene, solid B. Neoprene, solid S. Intumescent C. Neoprene, closed /Neoprene, closed cell cell D. Vinyl T. Intumescent/ Vinyl E. Silicone Rubber U. Intumescent F. Pile / Silicone Rubber G. Thermoplastic V. Intumescent/ Pile Elastomer (TPE) W. Intumescent H. Thermoplastic / Thermoplastic Urethane (TPU) Elastomer (TPE) J. Thermoplastic X. Intumescent Rubber / Thermoplastic K. Spring Metal Urethane (TPU) L. Magnetic Y. Optional material or M. Felt none used N. Rubber Fabric Z Intumescent P. Intumescent / Thermoplastic Q. Intumescent/Brush Rubber R. Intumescent	1. Head & Jamb 2. Head & Jamb, Adjustable 3. Automatic Door Bottom 4. Door Sweep or Shoe 5. Door Sweep or Shoe with Drip Cap 6. Astragal Overlapping 7. Astragal Split or Compensating 8. Astragal Adjustable 9. Rain Drip without gasket 0. Other	1. Door Edge 2. Door Edge, Mortise 3. Door Face 4. Door Face, Semi-Mortise 5. Frame Rabbet (surface or mortise) 6. Frame Soffit (H.M.) Frame Stop (WD) 7. Frame Face 8. Kerf 9. Stop (H.M.), Stop Face (WD) 0. Other	0. Smoke/Energy Performance/ Acoustic Rated 1. Smoke/Energy Performance rated. 2. Smoke/Acoustic Rated 3. Energy Performance/ Acoustic Rated 4. Smoke Rated 5. Energy perform- ance Rated 6. Items not rated. 7. Acoustic Rated

Buy American Requirements

Buy American Act

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American certificate may be obtained on our website www.ngp.com

Federal American Recovery and Reinvestment Act

More than 99% of our products qualify as manufactured products produced in the United States as manufactured goods, as defined in OMB Guidance (176.140; 176.70(a) (2) (ii); 176.160, complying with the Federal American Recovery Reinvestment Act, ARRA-2009. Contact us for a Buy America ARRA certificate for your project.

Buy America

More than 99% of our products comply with Buy America Requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661. Contact us for a Certificate of Compliance for your project.

Components of unknown origin are considered to have been produced or manufactured outside the United States.

The International Building Code (IBC)

The International Building Code (IBC) requires swinging fire doors to be tested in accordance with ANSI/UL 10C or NFPA 252, with the neutral pressure level established at 40 inches or less above the sill. This causes “positive pressure” forces against the door assembly above 40 inches.

The result is hot gases and smoke leak out between the door and frame above this level, posing a serious threat to life-safety; and on wood doors rapidly deteriorating the integrity of the door edges, requiring either a built-in or supplemental “edge sealing system” to pass the test.

Fire door assemblies in corridors and smoke barrier walls are required to be smoke and draft control assemblies tested in accord with UL1784 allowing a maximum air leakage of 3 cubic feet per minute per square foot of door opening at ambient temperature (75°F) and elevated temperature (400°F). These assemblies require the letter “S” on the fire rating label of the door indicating compliance “when listed or labeled gasketing is also installed.”

Fire doors are classified into category **A** or **B** based upon their construction and edge sealing system requirements. Fire-rated gasketing is classified as follows:



Category G - Edge Sealing Systems



Category H - Smoke and Draft Control Gasketing



Category J - Gaskets other than Category G or H.

Category A classified fire doors:

Hollow Metal Fire-Rated Doors

Wood Fire-Rated Doors constructed with edge seals built-in during the manufacturing process.

Require Category H – Smoke and Draft Control Gasketing at **perimeter** and at **meeting edge of pairs** of “S” label doors in corridor locations or smoke barrier walls.

Require Category H – Smoke and Draft Control **door bottom seals** on “S” label doors where pressurization is provided to restrict smoke movement (typically controlled by HVAC system).

The following products are recommended UL classified Category H for wood doors - 90 min. max., hollow metal doors - 3 hour max.



Perimeter: 2525, 5020, 5025, 5040, 5050, 5070, 5075



Meeting edge of pairs: 115N, 125N, 137N, 137S, 5070, 9115, 9125, 9600, 9605

Category B classified fire doors:

Wood Fire-Rated Doors that require the addition of a Category G classified edge sealing system in the field.

Require Category G – Edge Sealing System, at **perimeter** and at **meeting edge of Pairs**.

Require Category H – Smoke and Draft Control Gasketing at **perimeter** and at **meeting edge of pairs** of “S” label doors in corridor locations or smoke barrier walls.

Require Category H – Smoke and Draft Control **door bottom seals** on “S” label doors where pressurization is provided to restrict smoke movement (typically controlled by HVAC system).

The following products are recommended UL classified for both category G and H:



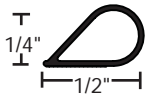
Perimeter 20 minute: 5050
Perimeter 45, 60, 90 minute: 9450, 9550, 9750, 9850



Meeting edge of pairs: 9550



Self-Adhesive Silicone Gasketing



5050B Brown
5050C Charcoal
5050W White
5050T Tan
5050CL Clear

Available in 17', 20',
21', 25' and 300' rolls

*Clear not available
in 21'

Silicone Bulb Fire and Smoke Seal



Edge Sealing System - Category "G" for 20 minute rated category B wood doors perimeter application up to:

single swing 4'0 x 8'0
pairs 8'0 x 8'0
use 9550 at the meeting edge of pairs

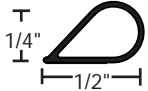
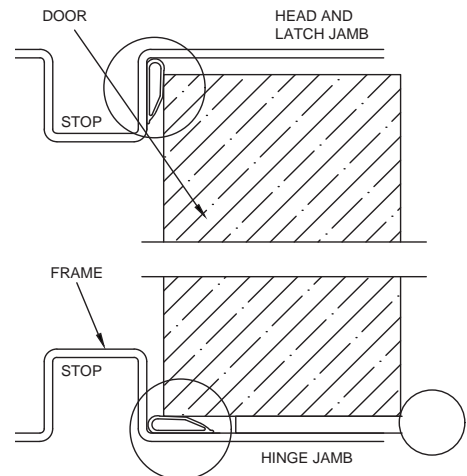


Smoke and Draft Control - Category "H"
Up to 3 hours Hollow Metal fire doors
Up to 90 minutes Wood fire doors



Meets requirements of RoHS Directive

See adhesive specifications on page G9



ANTI-LIG 5050B Brown
ANTI-LIG 5050C Charcoal
ANTI-LIG 5050W White
ANTI-LIG 5050CL Clear

Available per foot (bulk) or in
stock length 300' rolls.

Anti-ligature Silicone Bulb Fire and Smoke Seal

Anti-ligature feature has serrations every 8" designed to break apart preventing it from being used to hang or strangle.

Applications include psychiatric facilities, prisons and other treatment facilities.

Installs as a continuous length providing the same sealing properties for light, sound, air and smoke as our original 5050.



Edge Sealing System - Category "G" for 20 minute rated category B wood doors perimeter application up to:

single swing 4'0 x 8'0
pairs 8'0 x 8'0
use 9550 at the meeting edge of pairs

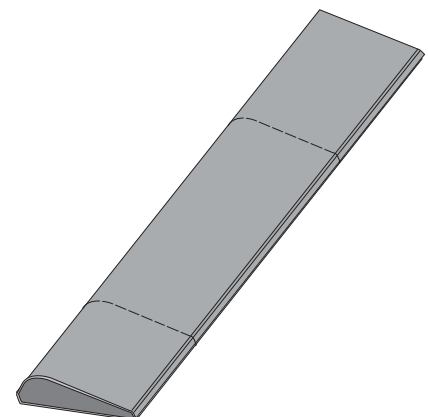


Smoke and Draft Control - Category "H"
Up to 3 hours Hollow Metal fire doors
Up to 90 minutes Wood fire doors

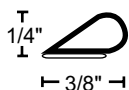


Meets requirements of RoHS Directive

See adhesive specifications on page G9



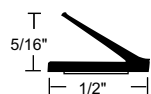
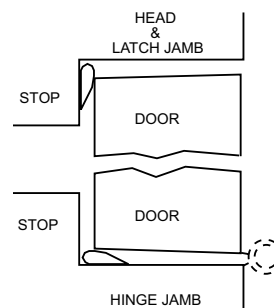
Self-Adhesive Silicone Gasketing



2525B Brown
2525C Charcoal
2525W White

Silicone Bulb Smoke Seal

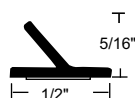
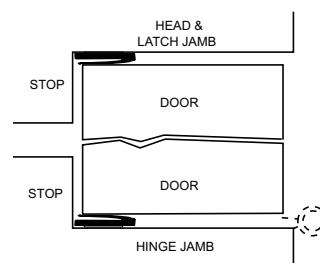
Available in 17', 20', 25' and 300' rolls.



5040B Brown

Silicone Fin Smoke Seal

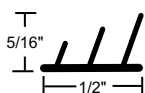
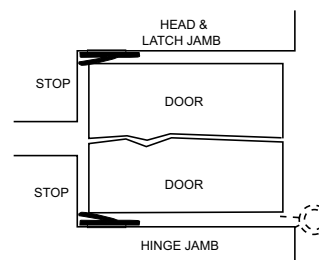
Available in 17', 20', 25', 300' rolls



5060B Brown
5060C Charcoal
5060CL Clear

Silicone Fin Smoke Seal

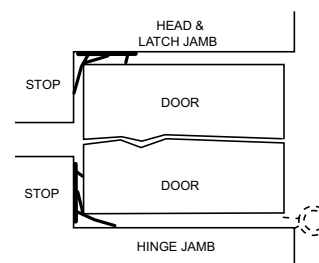
Available in 17' and 21' rolls.



5077B Brown

Self-Adhesive Silicone Seal

Available in 17', 21' and 25' rolls.



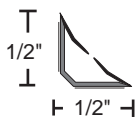
Adhesive specifications: Modified acrylic pressure sensitive adhesive protected by release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence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

Self-Adhesive TPE Gasketing

Properties:

- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and energy performance
- Adhesive specifications shown on page G9
- Rigid base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
 - REACH and RoHS compliant

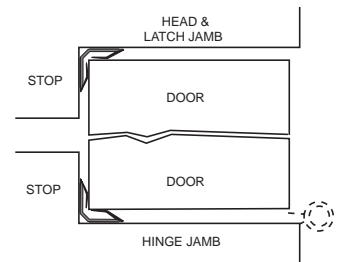
TPE Batwing Smoke Seal



5020B Brown
5020C Charcoal
5020W White
5020CL Clear

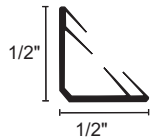


Available in 36", 48", 72", 84", 96" and 108" lengths



TPE Double Batwing Smoke Seal

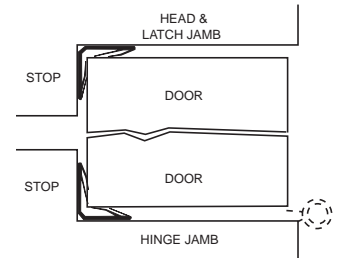
Superior sealing characteristics against smoke, air & sound



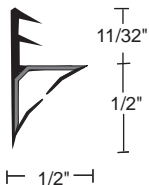
5025B Brown
5025C Charcoal
5025W White
5025CL Clear



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



TPE Batwing Smoke Seal (Kerf Press-in)

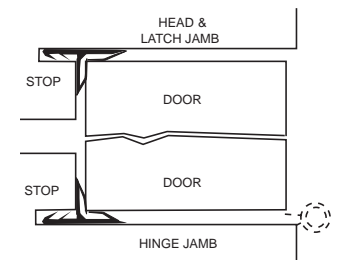


5021B Brown
5021C Charcoal
5021W White



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

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

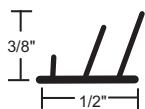


* Anti-microbial not available in clear

Self-Adhesive TPE Gasketing

Properties:

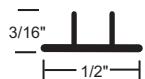
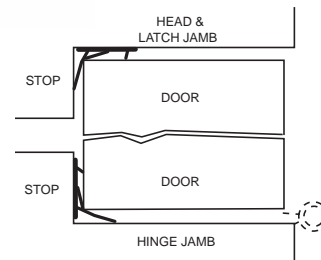
- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and energy performance
- Adhesive specifications shown on page G9
- Rigid base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
 - REACH and RoHS compliant



5075B Brown
5075C Charcoal
5075CL Clear
5075W White*



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



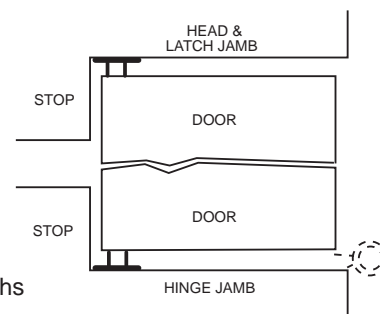
TPE Double Shark Fin Smoke Seal

Smoke rated for perimeter and/or meeting edge astragal applications

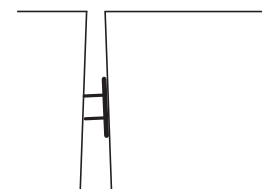
5070B Brown
5070CL Clear



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



* Anti-microbial not available in clear



Astragal application
pair of doors

Self-Adhesive Gasketing

Adhesive bonds for permanent mounting once installed

Shelf life of adhesive products prior to installation is one year

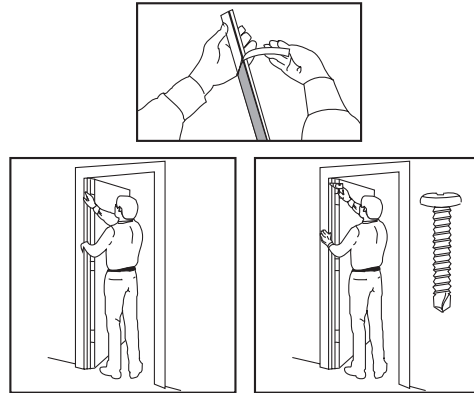
“FATT”

Fast Attach Two-Way Tape

Fast attach two way tape provides an easy and effective alternative for gasketing installation. Two way tape is applied to the metal housing insuring a quick and easy installation. Then for security, 3 tek-type self drilling screws are provided to further secure each piece of material to the frame stop. A no problem installation with no holes to drill.

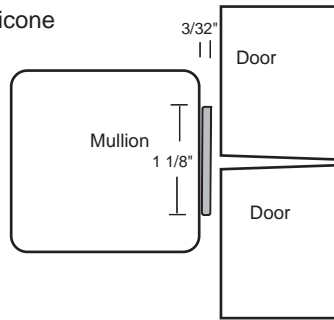
To order add suffix “FATT” to product number. See price list for products available with this feature.

FATT IS NOT CLASSIFIED FOR USE ON FIRE DOORS.



Seal for Mullion Applications

5100N Black Silicone
5100S Gray Silicone



Closed cell silicone sponge strip 1-1/8" wide x 3/32" thick with an adhesive strip for mounting directly to the face of the mullion that doors close against.



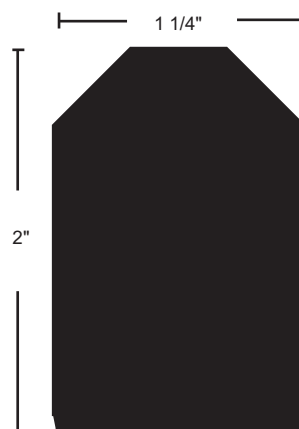
Available in 86" and 96" lengths

Self-Adhesive

See adhesive specifications on page G9

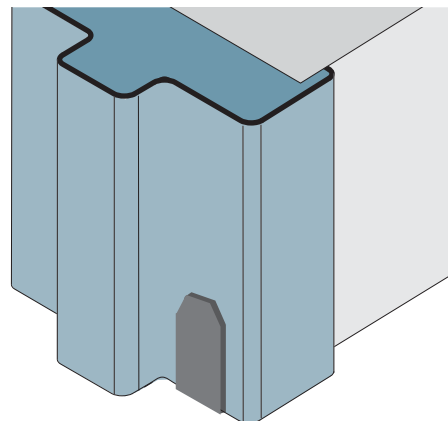
Corner Pad

54CP Black
polypropylene pile

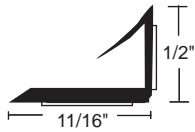


Helps acoustics and seals corner gap for air leakage control. Apply to jamb on hinge side, opposite bottom corner of door edge.

Self-Adhesive



NGP-Edge® Sealing System/Smoke and Draft Control Gasketing Category “G” and “H” Classified



9450B Brown
9450C Charcoal



Intumescent with TPE Fin Fire and Smoke Seal



20, 45, 60, 90 minute rated category B wood doors
 perimeter application up to:

single swing 4'0 x 9'0

standard pair 8'0 x 9'0 use 9550 at the meeting edge

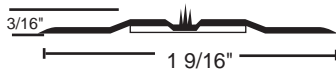
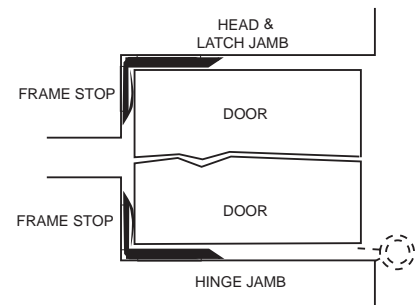


1/8" clearance required between door and frame

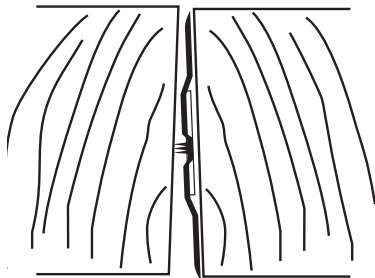
Available in 36", 48", 84", 96" and 108" lengths

Self-Adhesive

See adhesive specifications on page G9



9550 Gray
9550DKB Brown



NGP-Edge® Intumescent with TPE Fins Fire and Smoke Seal



20, 45, 60, 90 minute rated category B wood doors up to:

single swing 4'0 x 9'0, perimeter application

pairs 8'0 x 9'0, perimeter/meeting edge

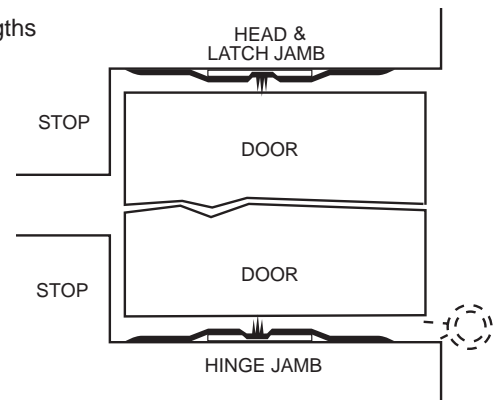


1/8" clearance required between doors and between door & frame

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

Self-Adhesive

See adhesive specifications on page G9



NGP-Edge® Sealing System/Smoke and Draft Control Gasketing Category 'G' and 'H' Classified



9850B Brown
9850C Charcoal



9750B Brown
9750C Charcoal

Intumescent with TPE Fire and Smoke Seal



20, 45, 60, 90 minute rated category B
wood doors perimeter application up to:

single swing 4'0 x 9'0
pairs 8'0 x 9'0

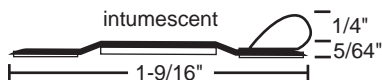


1/8" clearance required between door and frame

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

Self-Adhesive

See adhesive specifications on page G9



9500DKB x 2525B Brown
9500 x 2525B Gray x Brown
9500 x 2525W Gray x White



20, 45, 60, 90 minute rated category B
wood doors perimeter application up to:

single swing 4'0 x 9'0
pairs 8'0 x 9'0

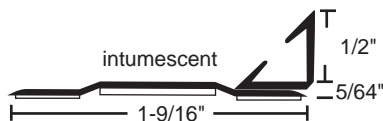


1/8" clearance required between door and frame

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

Self-Adhesive

See adhesive specifications on page G9



9500DKB x 5020B Brown
9500 x 5020B Gray x Brown



NGP-Edge® Sealing Systems - Category 'G' Classified

NGP Intumescent materials are formulated to expand at 375°F to 400°F up to 8-10 times their original thickness; completely sealing the gap around and between doors during a fire.



9800B Brown
9800C Charcoal
9800W White

Intumescent with Protective Skin

Available in 17', 21' and 150' rolls

Self-Adhesive

See adhesive specifications on page G9



Intumescent Fire Seal

Perimeter Application:



20, 45, 60, 90 minute rated category B wood doors up to

single swing 4'0 x 9'0
pairs 8'0 x 9'0

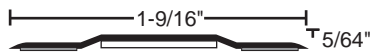
Meeting Edge Application up to 8'0 x 9'0 pairs of category B wood doors:



20 Minute rated with single strip installed



45, 60 Minute rated with two strips installed



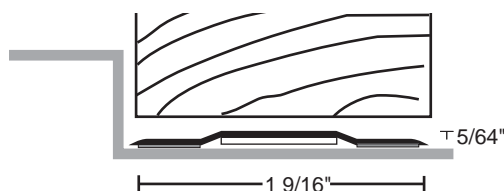
9500 Gray
9500DKB Brown

Intumescent with PVC cover

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

Self-Adhesive

See adhesive specifications on page G9



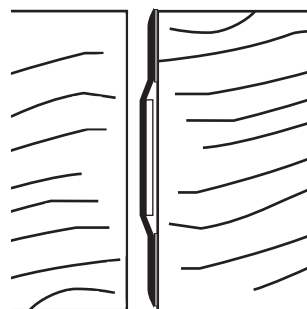
NGP-Edge® Intumescent Fire Seal



20, 45, 60, 90 minute rated category B wood doors up to:

single swing 4'0 x 9'0, perimeter application
pairs 8'0 x 9'0, perimeter/meeting edge

U.S. Pat. DES 417,739



1/8" clearance
required between
doors and between
door and frame

Vinyl Seals

Properties

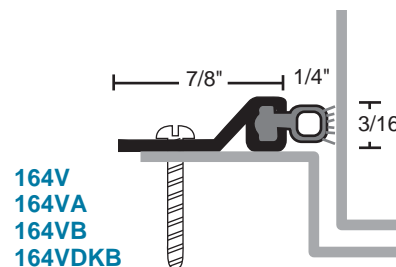
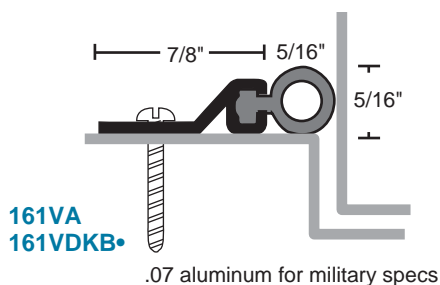
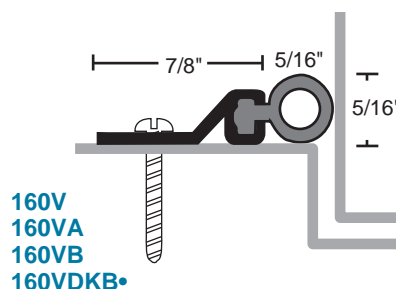
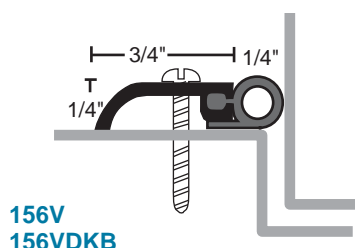
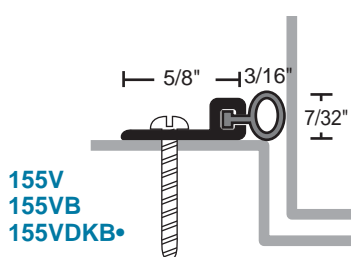
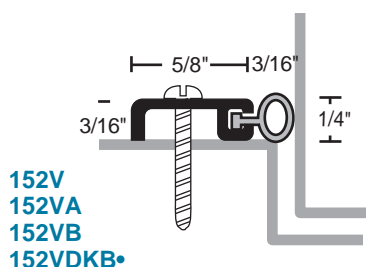
- Thermoplastic polymer: Polyvinyl Chloride formulated with an environmentally friendly Bio-based plasticizer
- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to Cold, Heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration

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

All vinyl seals this section

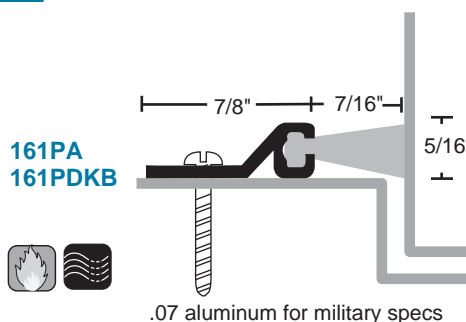
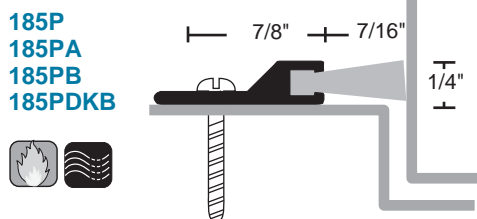


A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray
exception: •vinyl is black



Polypropylene Pile Seals

Temperature range 32°F to 275°F
Pile is gray





Neoprene Sponge Seals

Properties:

- Synthetic rubber polymer blend: PVC, Nitrile rubber (NBR), and Chloroprene closed cell advanced elastomeric foam
- Very good abrasion resistance, tensile strength and memory
- Flame resistant
- Moisture resistant
- Temperature range -20°F to 200°F
- Good resistance to ozone, sunlight and aging
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

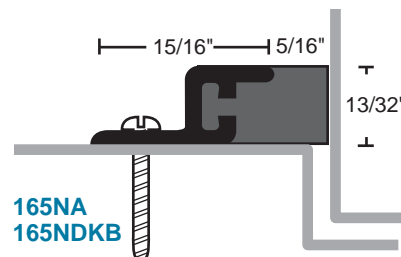
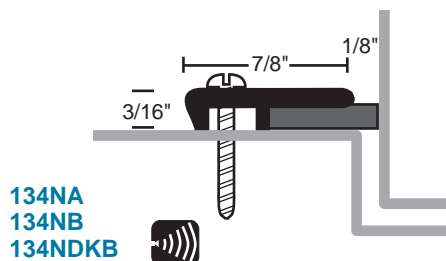
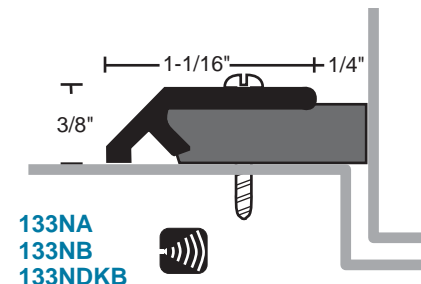
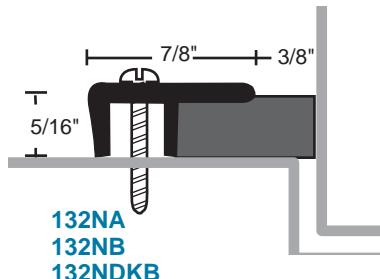
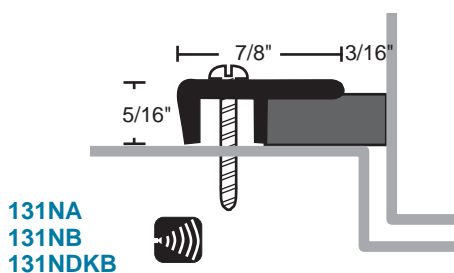
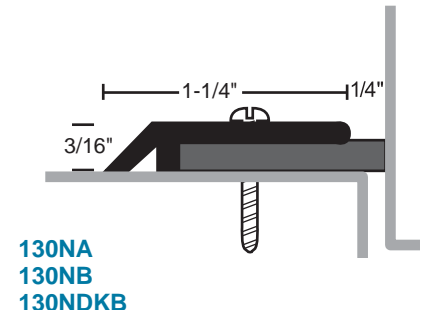
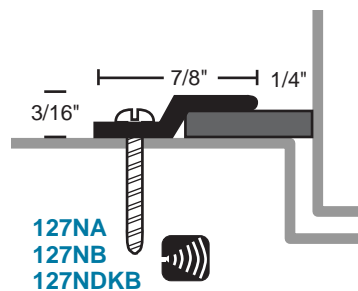
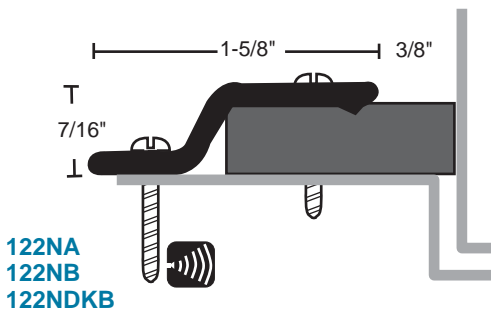
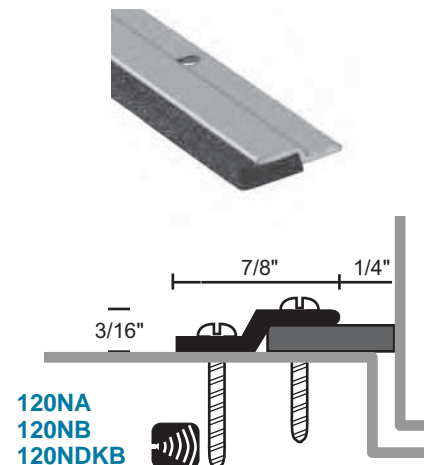
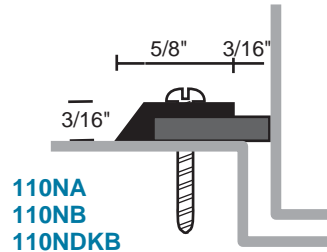
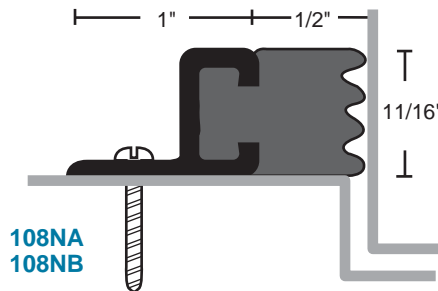
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished.
Screw holes slotted for adjustment

All products this page



A - anodized aluminum
B - gold
DKB - dark bronze
neoprene is black

Closed Cell Sponge



Neoprene Bulb Seals

Properties:

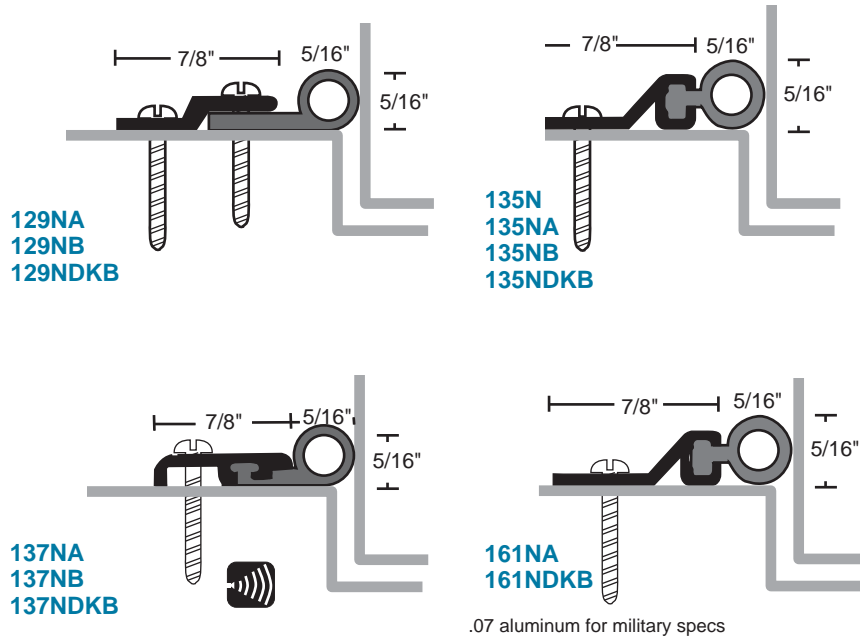
- Synthetic rubber polymer blend: Chloroprene and EPDM
- Very good abrasion resistance, tensile strength and memory
- Flame resistant
- Moisture resistant
- Temperature range -20°F to 200°F
- Good resistance to ozone, sunlight and aging
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

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

All neoprene seals this section



Dense Bulbs



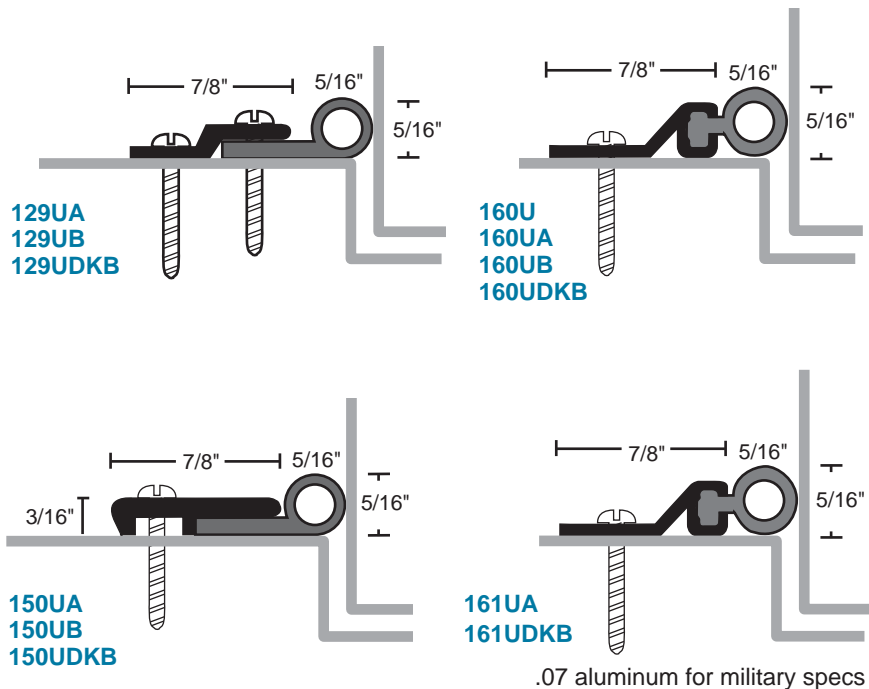
.07 aluminum for military specs

Polyurethane Seals

Properties:

- Very good abrasion resistance, tensile strength, memory and UV resistance
- Flame resistant
- Moisture resistant
- Temperature range -65°F to 175°F

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



.07 aluminum for military specs

All polyurethane seals this section



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

Silicone Seals

Properties:

- Synthetic rubber polymer: Siloxane closed cell sponge
- Excellent flexibility and memory
- Flame resistant
- Moisture resistant
- Temperature range -100°F to 500°F, remains flexible at extreme temperatures
- Excellent resistance to ozone, UV and aging
- Recommended for areas using FM200 or Halon Fire Suppression Systems
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat and Cold

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

All products this page



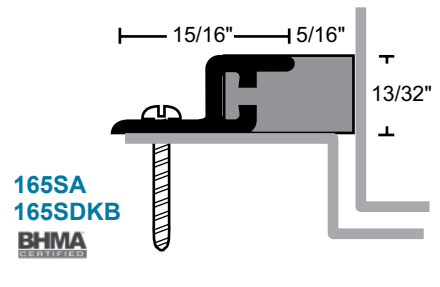
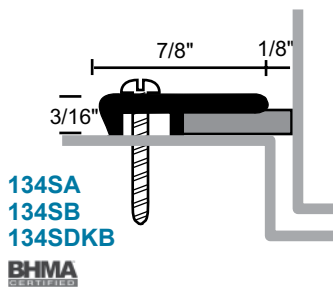
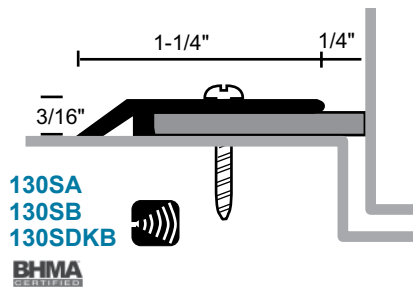
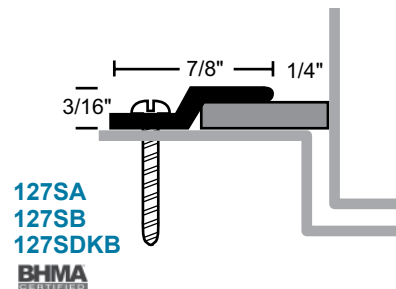
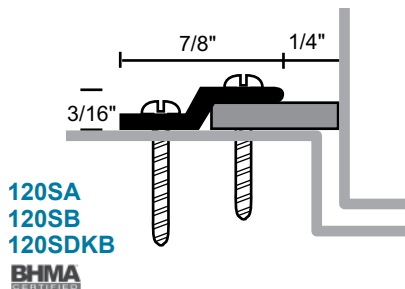
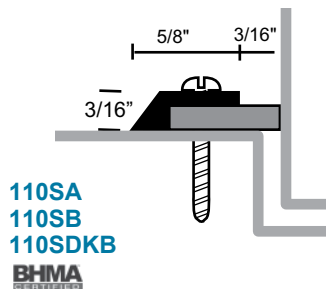
A - anodized aluminum

B - gold

DKB - dark bronze

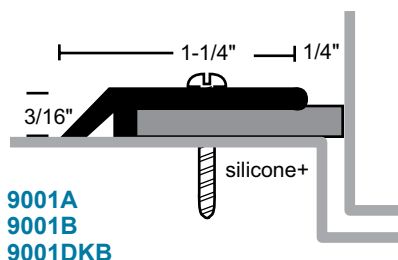
no suffix - mill aluminum
silicone sponge is gray

Closed Cell Sponge

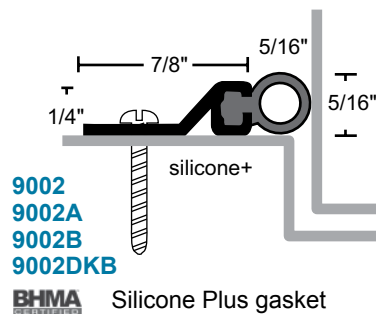


Silicone Plus

Specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.



Silicone Plus gasket
material is dark gray



Silicone Plus gasket
material is tan

Silicone Seals

Properties:

- Synthetic rubber polymer: Siloxane
- Excellent flexibility and memory
- Flame resistant
- Moisture resistant
- Temperature range -100°F to 500°F, remains flexible at extreme temperatures
- Excellent resistance to ozone, UV and aging
- Recommended for areas using FM200 or Halon Fire Suppression Systems
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat, Cold, Air Infiltration and Smoke Infiltration

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

All silicone seals this section



A - anodized aluminum

B - gold

DKB - dark bronze

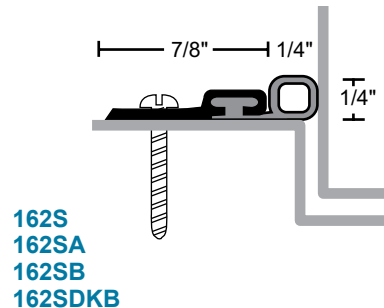
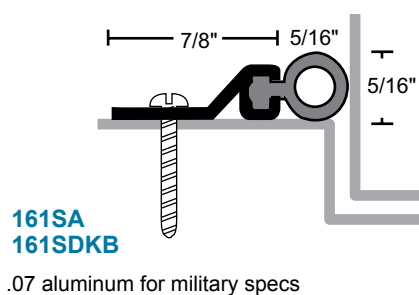
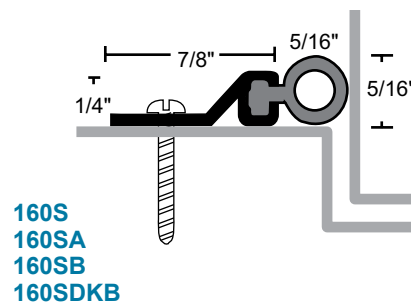
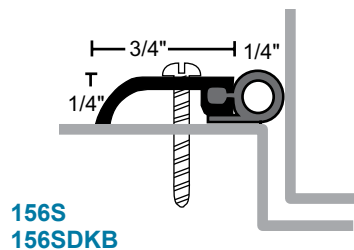
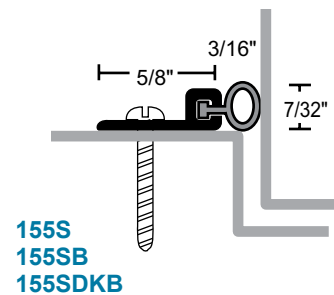
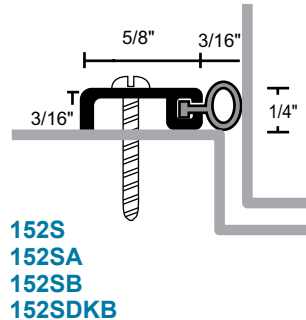
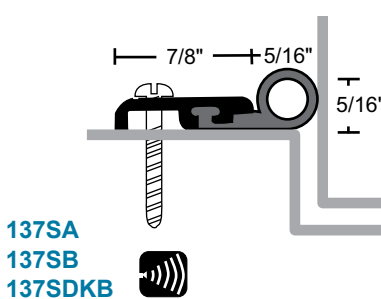
no suffix - mill aluminum

dense silicone is black

exception: 137 silicone is gray



Dense Bulbs



Nylon Brush Seals

Properties:

- Synthetic polymer: Polyamide
- Excellent abrasion resistance, flexibility and memory
- Moisture resistant
- Retains insecticides well
- Temperature range -70°F to 425°F
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat, Cold, Air Infiltration and Smoke Infiltration in most common profiles as indicated by BHMA Certified symbol
- REACH and RoHS compliant
- Not effective against water penetration

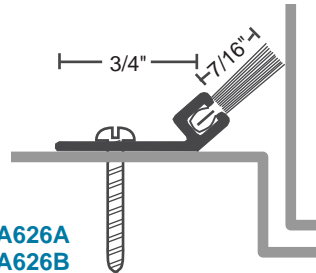
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
Screw holes slotted for adjustment

A - anodized aluminum with gray brush

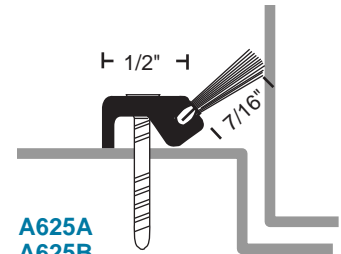
B - gold with black brush

DKB - dark bronze with black brush

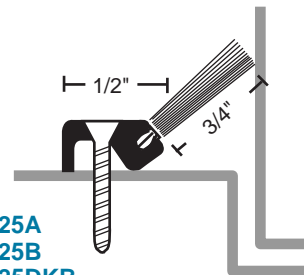
no suffix - mill aluminum with gray brush



A626A
A626B
A626DKB



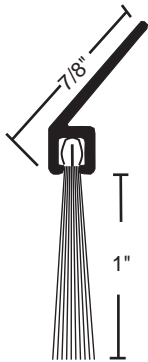
A625A
A625B
A625DKB



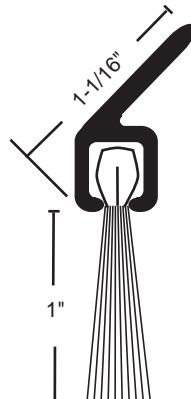
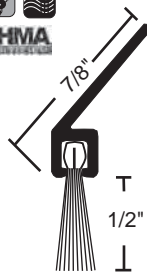
F625A
F625B
F625DKB



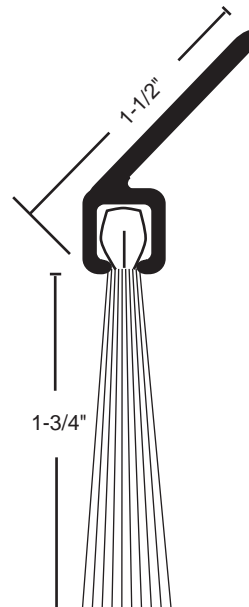
603A
603DKB



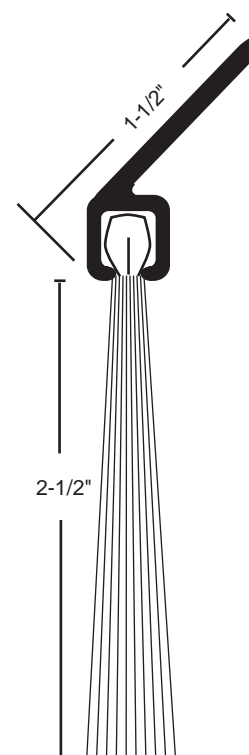
602A
602DKB



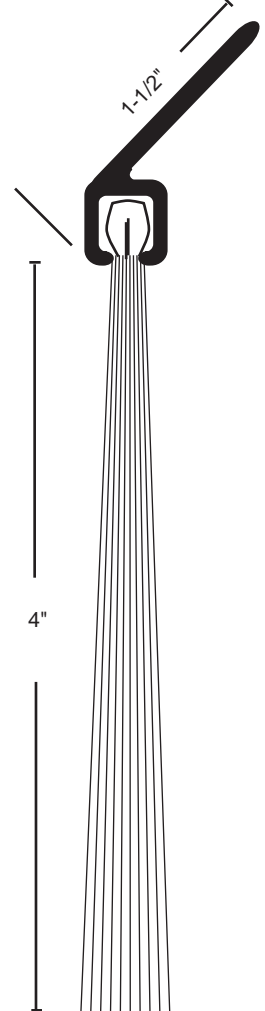
D620A
D620B
D620DKB



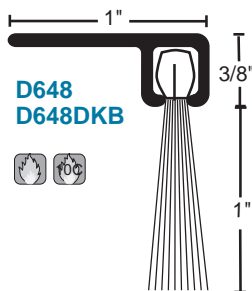
G622A
G622DKB



H623A
H623DKB



I-624A
I-624DKB



D648
D648DKB

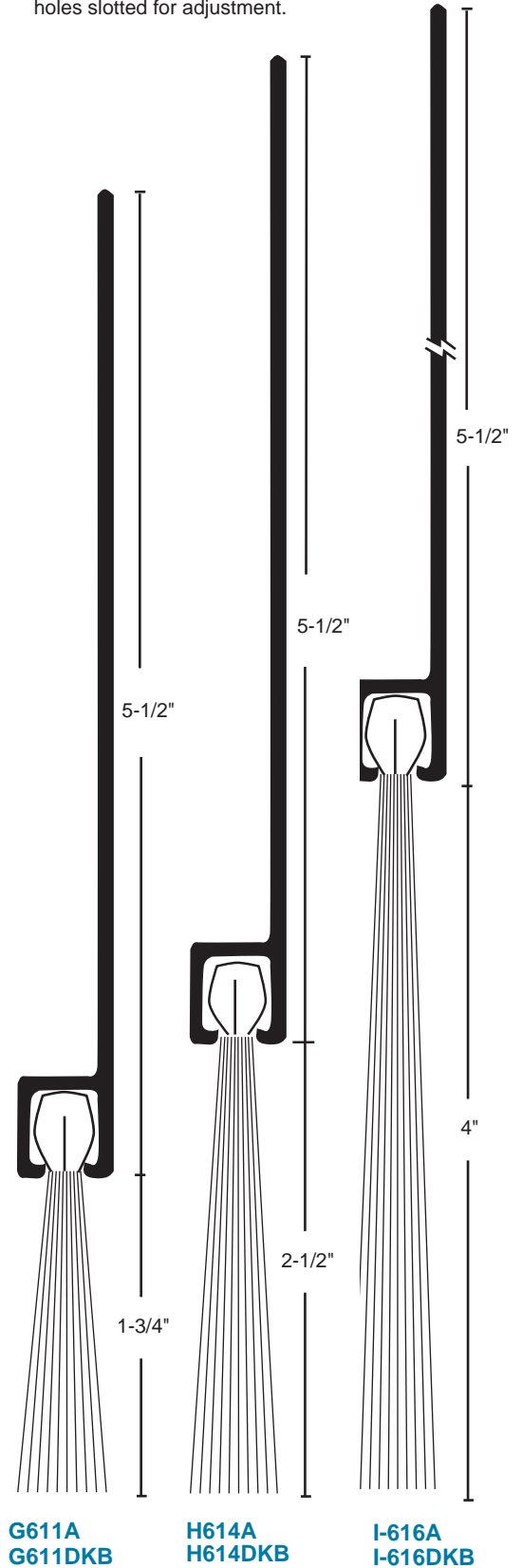
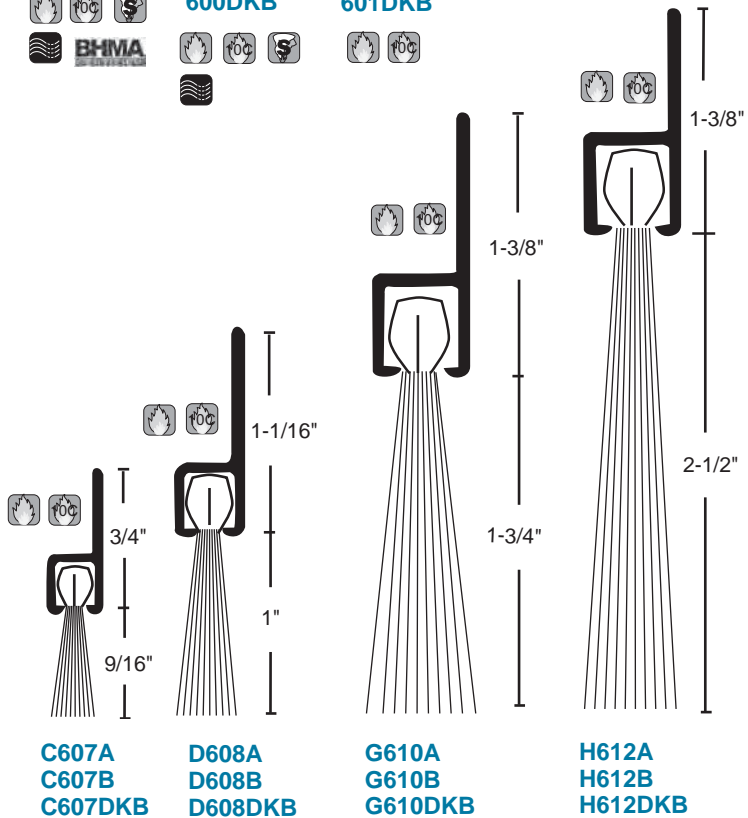
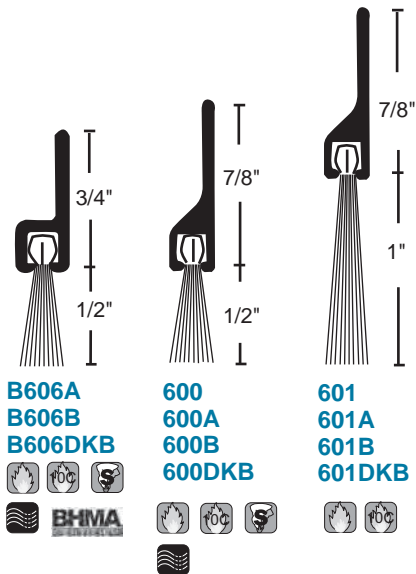
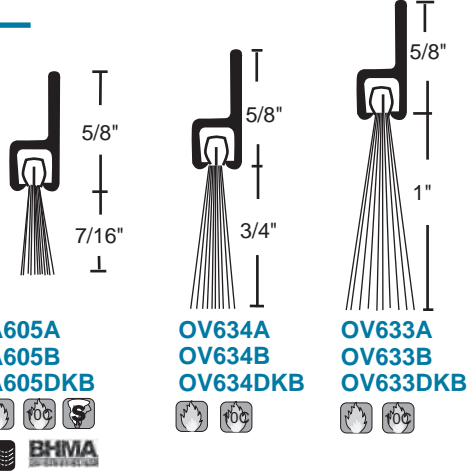


* up to 3 hours metal doors,
1 hour wood doors.

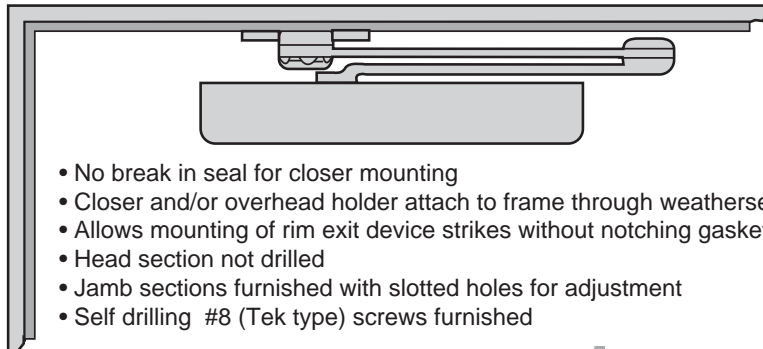
Nylon Brush Seals



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



Perimeter Seals Compatible with Parallel Arm Closers



- No break in seal for closer mounting
- Closer and/or overhead holder attach to frame through weatherseal section. Install seal first
- Allows mounting of rim exit device strikes without notching gasketing
- Head section not drilled
- Jamb sections furnished with slotted holes for adjustment
- Self drilling #8 (Tek type) screws furnished

A - anodized aluminum

B - gold

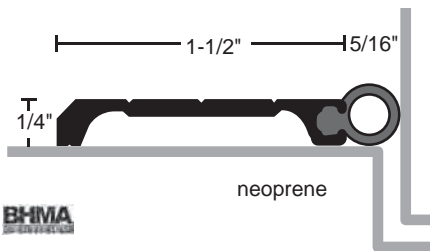
DKB - dark bronze

no suffix - mill aluminum

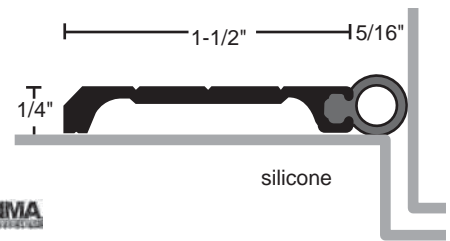
vinyl & pile are gray

neoprene, silicone, & polyurethane are black, silicone+ is tan

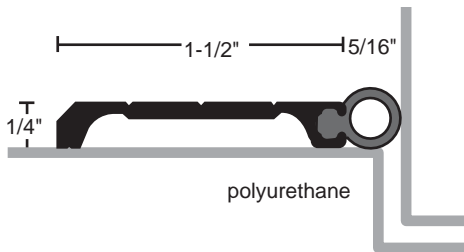
700EN
700ENDKB



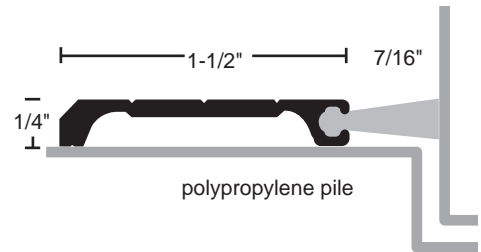
700ES
700ESDKB



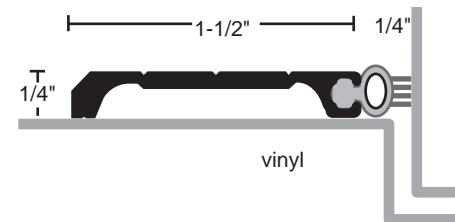
700EU
700EUDKB



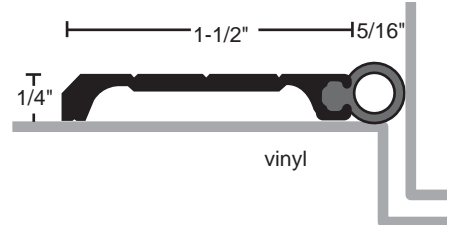
701EP
701EPDKB



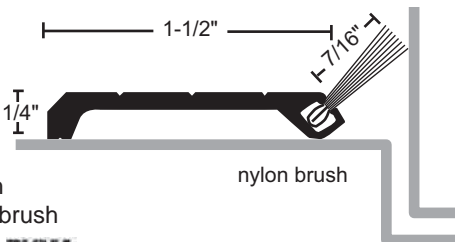
704EV
704EVDKB



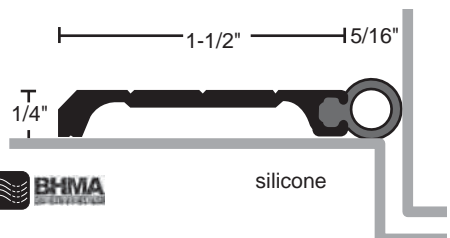
705EV
705EVDKB



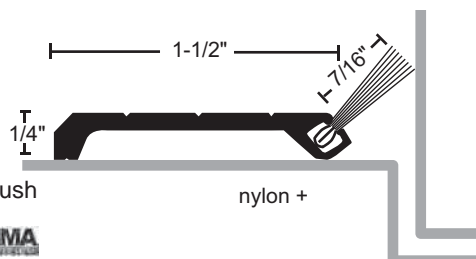
706E - gray brush
706EDKB - black brush



9700E
9700EDKB

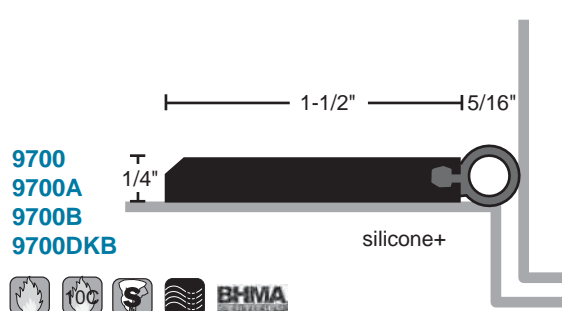
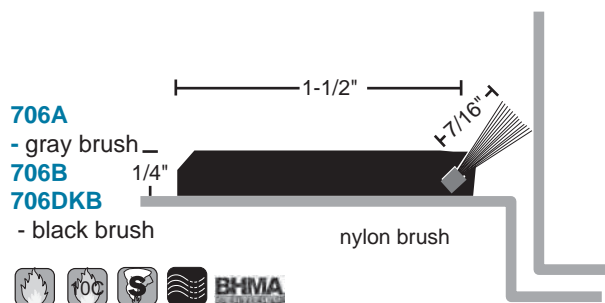
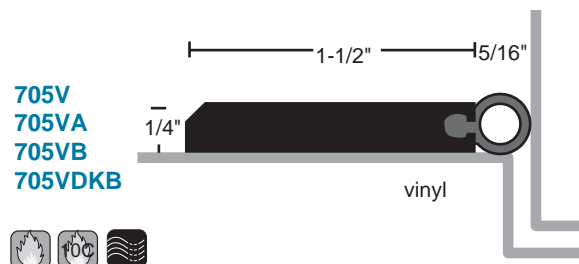
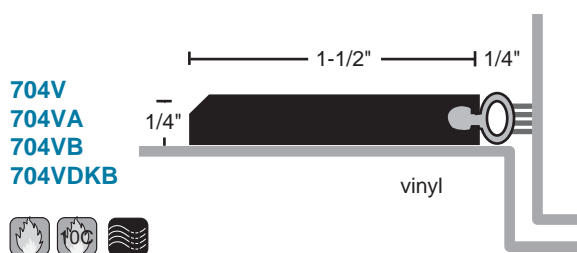
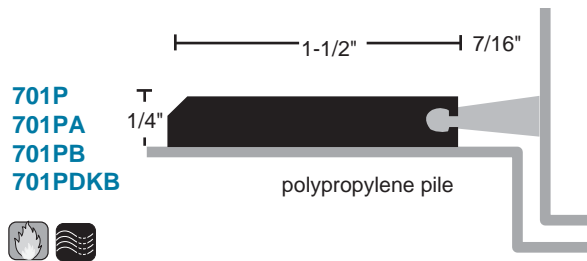
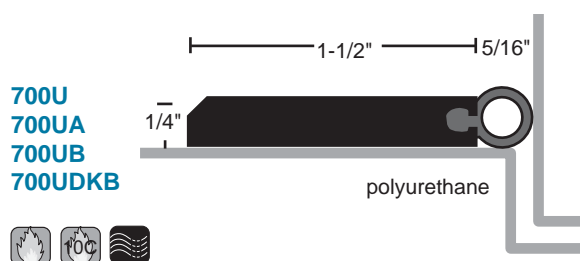
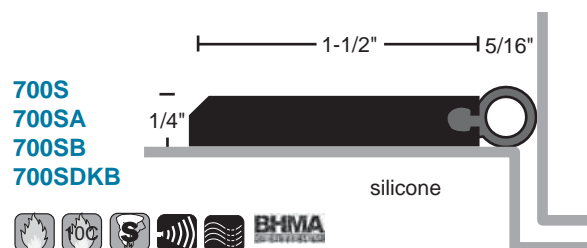
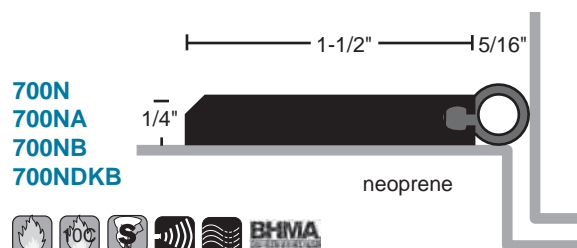


9706E - gray brush
9706EDKB - black brush



Perimeter Seals Compatible with Parallel Arm Closers

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



Concealed Fastener Seals

Snap-on cover conceals screw heads for clean appearance

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

A - anodized aluminum

B - gold

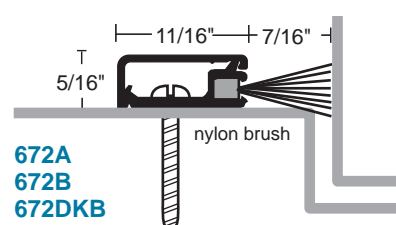
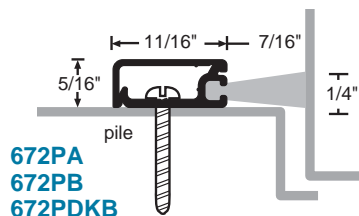
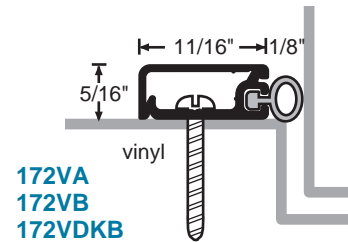
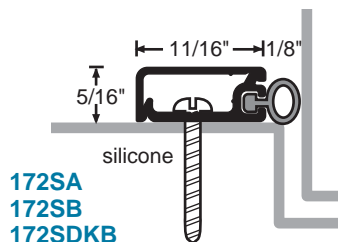
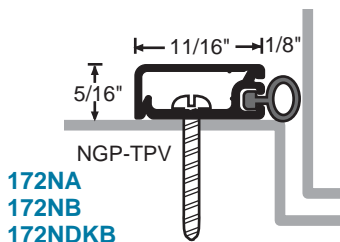
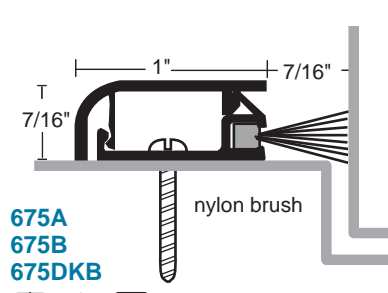
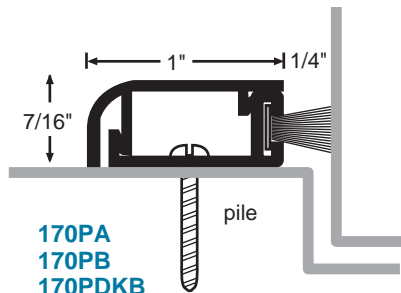
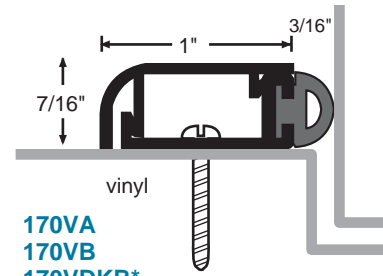
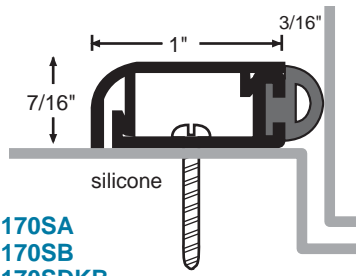
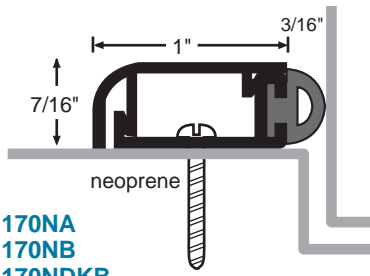
DKB - dark bronze

vinyl & pile are gray

*vinyl is black

neoprene, NGP-TPV & silicone are black

nylon brush is gray with anodized aluminum
 metal; black with gold and DKB metal



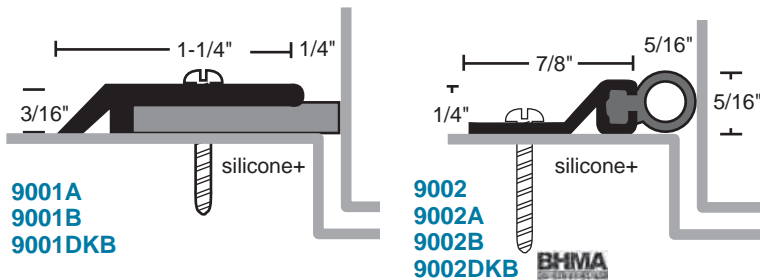
Allseal® Gasketing

Our exclusive line of premium grade seals specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.

All products this page



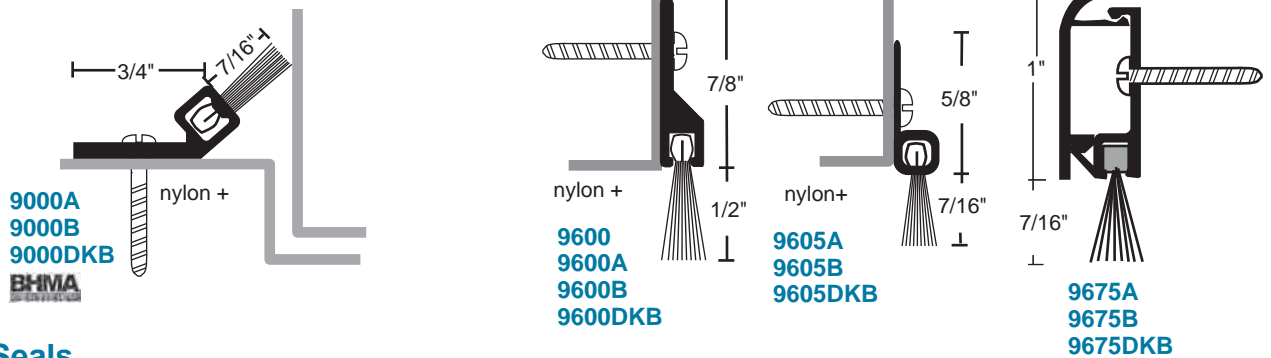
Perimeter Seals



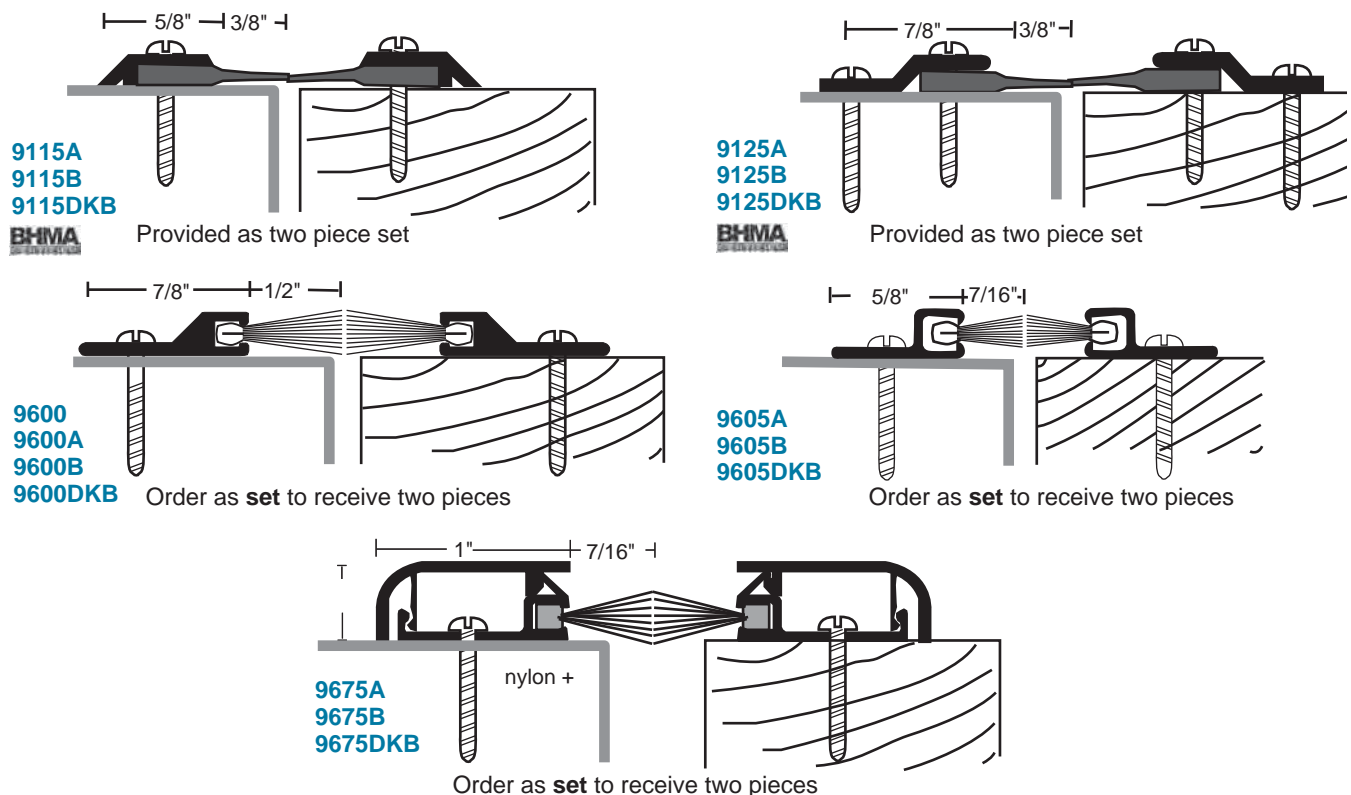
Metal	nylon+	silicone +
A - anodized aluminum	gray	tan
B - gold	black	tan
DKB - dark bronze	black	tan
no suffix - mill aluminum	gray	tan

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

Perimeter Seals or Sweeps



Astragal Seals



Stainless Steel

Stainless steel type 304 brushed #4 finish (US32D, 630)

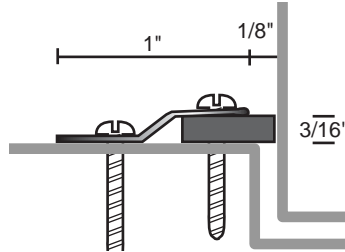
Neoprene & polyurethane are black, epdm & silicone are gray, silicone+ is tan

#6 X 3/4" stainless steel SMS furnished

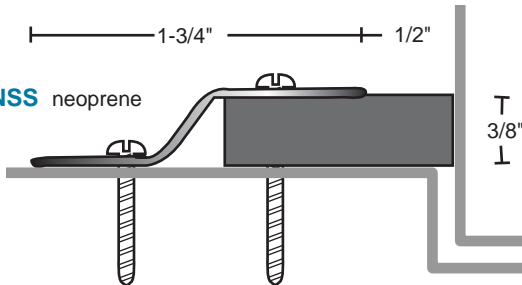
Screw holes slotted for adjustment

Perimeter Seals

120NSS neoprene
120SSS silicone

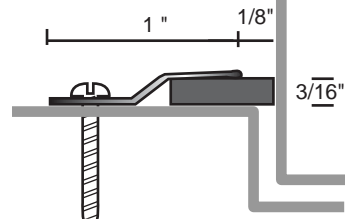


122NSS neoprene

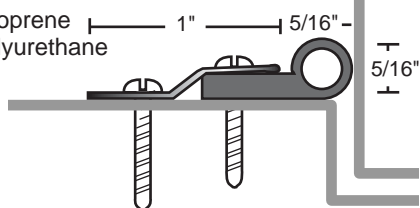


#6 X 3/4" and #6 x 1" stainless steel SMS furnished

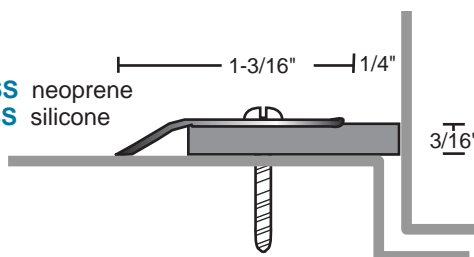
127NSS neoprene
127SSS silicone



129NSS neoprene
129USS polyurethane



130NSS neoprene
130SSS silicone



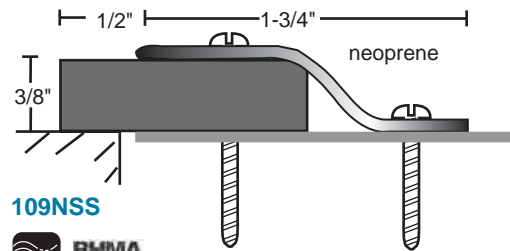
All perimeter seals this section



(Exception: 129USS not smoke rated and not BHMA certified)



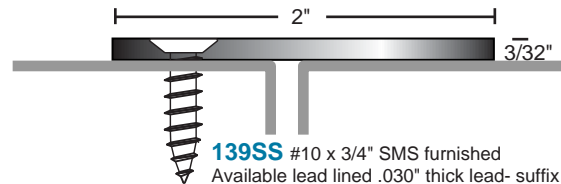
Astragal Seals



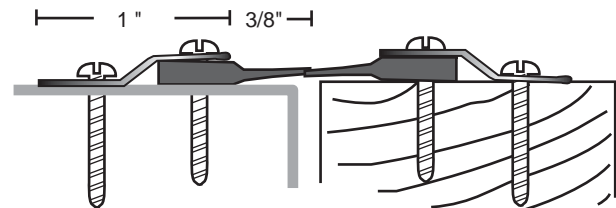
109NSS



#6 X 3/4" and #6 x 1" stainless steel SMS furnished



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



125NSS epdm
9125SS silicone+



Provided as two piece set

Stainless Steel

Stainless steel type 304 brushed #4 finish (US32D, 630)

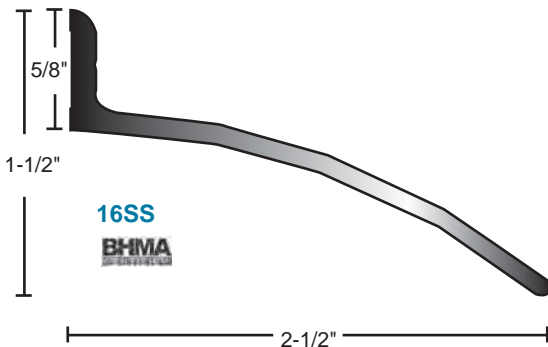
Neoprene & polyurethane are black, silicone and nylon brush are gray

#6 X 3/4" stainless steel SMS furnished
Screw holes slotted for adjustment

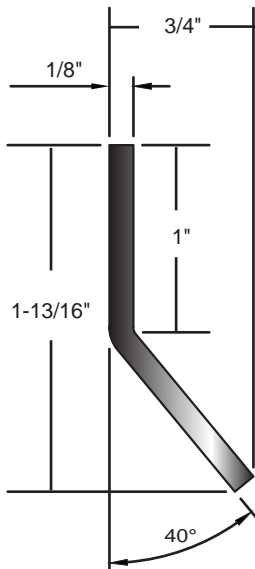
All automatic door bottoms this section



Rain Drip Guard



17SS

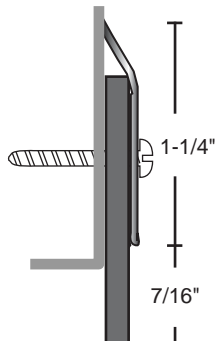


Door Sweep

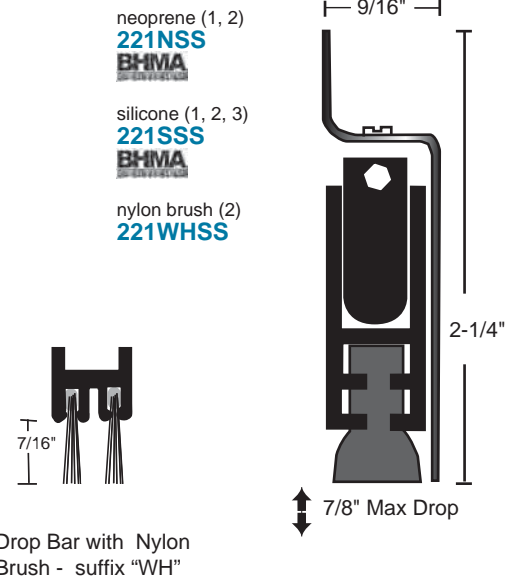
200NSS neoprene **BHMA**

200USS polyurethane

200SSS silicone **BHMA**



Automatic Door Bottom

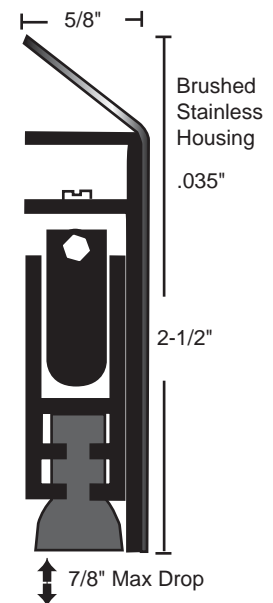


Drop Bar with Nylon
Brush - suffix "WH"

neoprene (1, 2)
229NSS
BHMA

silicone (1, 2, 3)
229SSS
BHMA

nylon brush (2)
229WHSS



1. Lead insert available for radiation shield - specify "lead-lined".
2. Door bottom is handed. Right hand supplied unless specified. Units under 36" not field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.

Architectural Bronze

Architectural bronze satin finish (728), similar to US4

Optional finishes: Polished (721), suffix "POL"

Dark Oxidized oil rubbed (722) similar to US10B, suffix DKB

neoprene is black

silicone is gray

#6 x 3/4" brass plated SMS furnished

screw holes slotted for adjustment

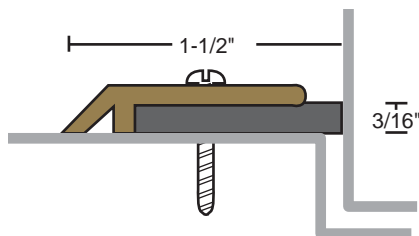
Perimeter Seals

130NBR neoprene

130SBR silicone



BHMA
2015-2019



Architectural Bronze

Architectural bronze satin finish (728), similar to US4
Optional finishes: Polished (721), suffix "POL"
Dark Oxidized oil rubbed (722) similar to US10B, suffix DKB

neoprene, polyurethane & nylon brush are black
silicone is gray

#6 x 3/4" brass plated SMS furnished
screw holes slotted for adjustment

Door Sweep



200NBR

neoprene



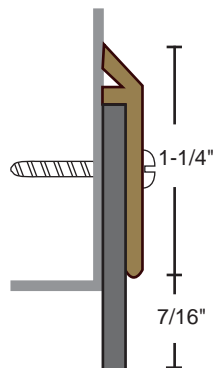
200SBR

silicone



200UBR

polyurethane



Automatic Door Bottoms

All automatic door bottoms this section



neoprene (1, 2, 3)

221NBR



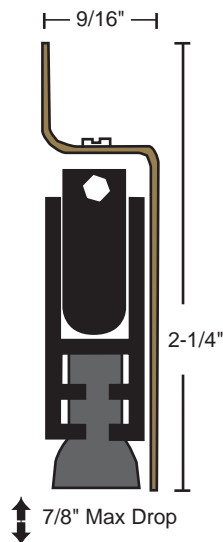
silicone (1, 2, 3)

221SBR



nylon brush (2)

221WHBR



neoprene (1, 2, 3)

229NBR



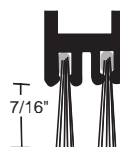
silicone (1, 2, 3)

229SBR

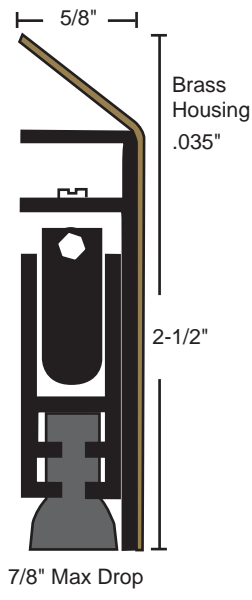


nylon brush (2)

229WHBR



Drop Bar with Nylon
Brush - suffix "WH"



1. Lead insert available for radiation shield - specify "lead-lined".
2. Door bottom is handed. Right hand supplied unless specified. Units under 36" not field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.

Adjustable Perimeter Seals

- Adjustment screws on 10" centers allow adjustment without re-positioning mounting location

#6 x 3/4" or #6 x 1-1/2" Stainless Steel SMS furnished

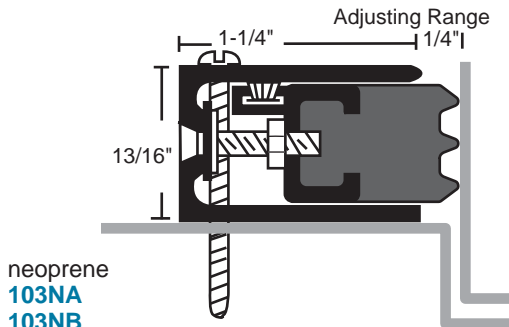
A - anodized aluminum

B - gold

DKB - dark bronze

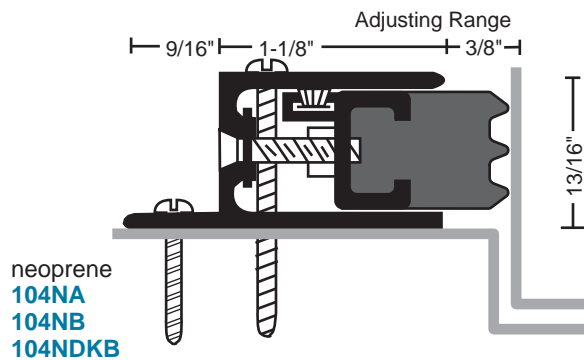
Neoprene & 106 silicone are black

107 silicone is gray

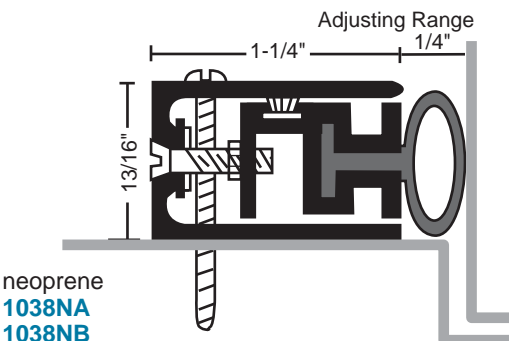


neoprene
103NA
103NB
103NDKB

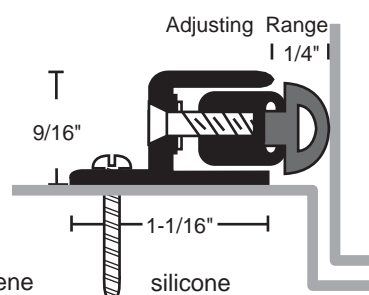
Option: Foam back seal - suffix 'FS'



neoprene
104NA
104NB
104NDKB

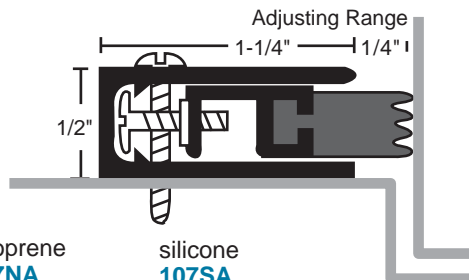


neoprene
1038NA
1038NB
1038NDKB



neoprene
106NA
106NB
106NDKB

silicone
106SA
106SDKB



neoprene
107NA
107NB
107NDKB

silicone
107SA
107SB
107SDKB

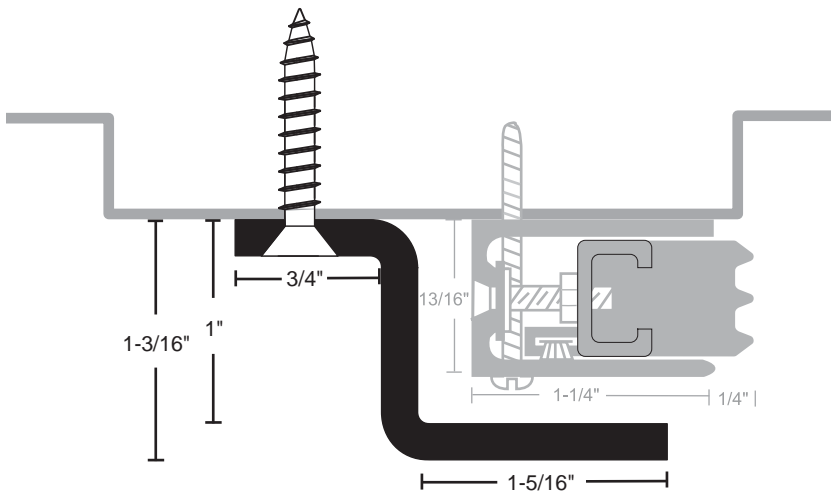
Option: Foam back seal - suffix 'FS'



Steel Mounting Brackets

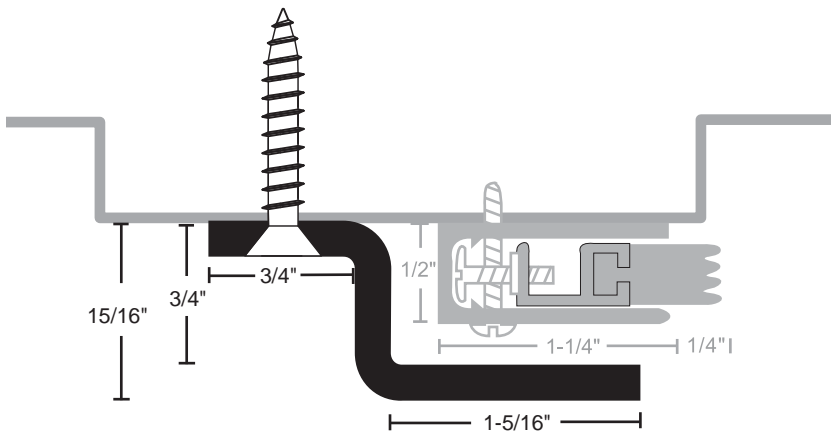
- Allows installation of door closer shoe or rim exit device strike without interruption or notching of perimeter seals
- Furnished with #12 x 1-1/4" SMS
- 3/16" thick steel
- 6" long

All products this page



3ASL Aluminum Silver
3DKB Dark Bronze
3SP Prime Coat

Fits over 103N, 104N,
 303N, 304N, 1038N,
 3038N



7ASL Aluminum Silver
7DKB Dark Bronze
7SP Prime Coat

Fits over 106N, 107N,
 141P, 141S



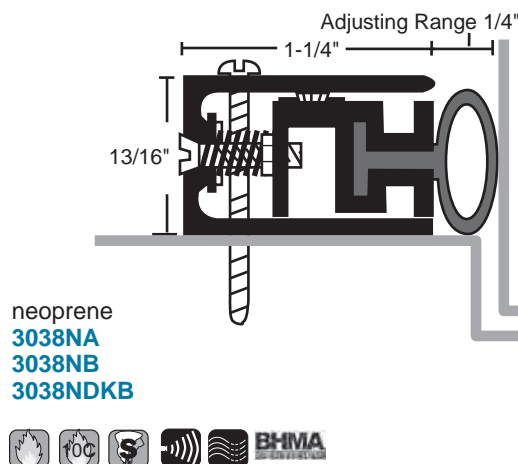
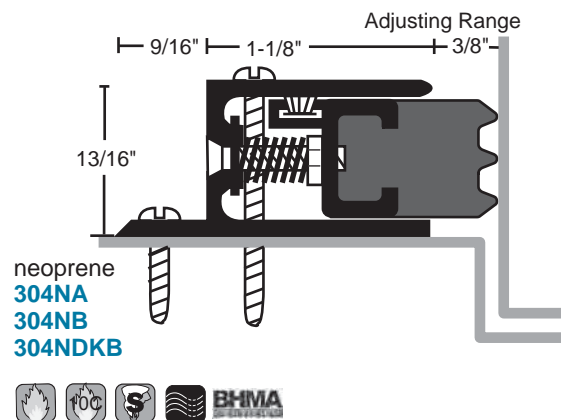
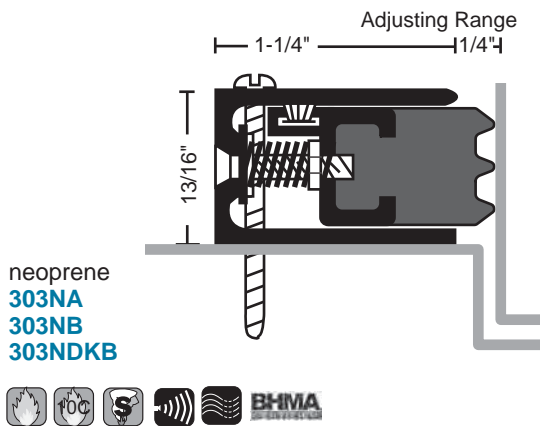
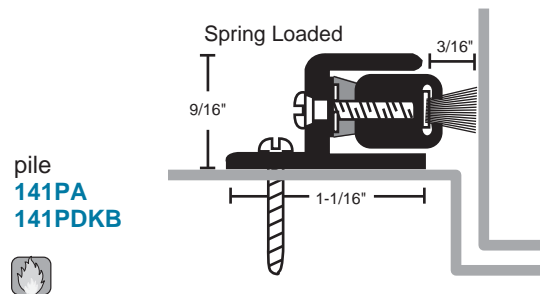
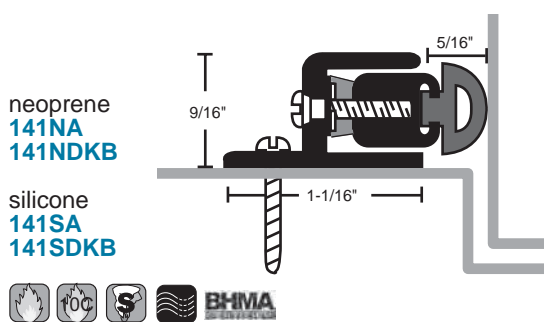
Page
Intentionally
Blank

Spring Adjustable Perimeter Seals

- Adjustment screws on 10" centers allow adjustment without re-positioning mounting location
- Spring-loaded to maintain pressure for the most effective seal

#6 x 3/4" or #6 x 1-1/2" Stainless Sheet Metal Screws furnished

A - anodized aluminum
B - gold
DKB - dark bronze
neoprene & silicone are black
pile is gray





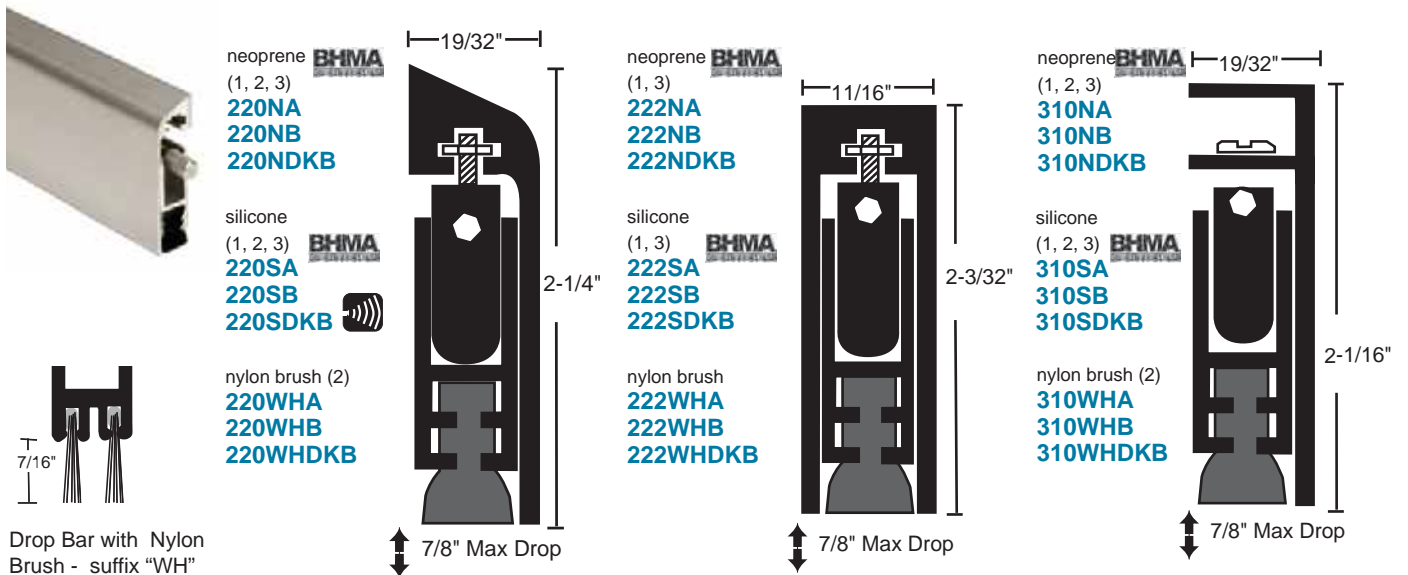
Automatic Door Bottoms - Surface

- Mounts on push side of door
- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field, under 36" should not be cut in the field, order net length
- Minimum length 11", maximum length 60" (except 780)
- End caps furnished standard. Models 220, 221, 229, 310 require door handing, RH supplied standard units under 36" NOT field reversible. Please specify handing

All products this page

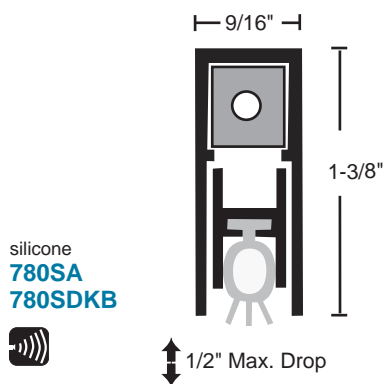


silicone is gray
neoprene is black
brush is gray with mill finish
and stainless steel; black with
gold, DKB and brass



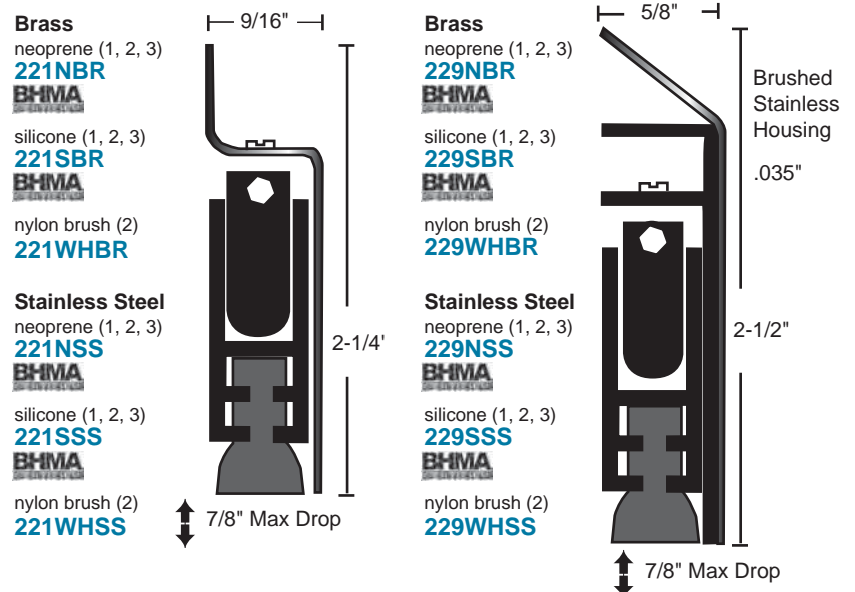
Slimline

Endurance Tested to 5 Million Cycles



Available 23" to 96" in length
End caps furnished standard.
Will work half mortised on swing or sliding doors!

Brass and Stainless Steel

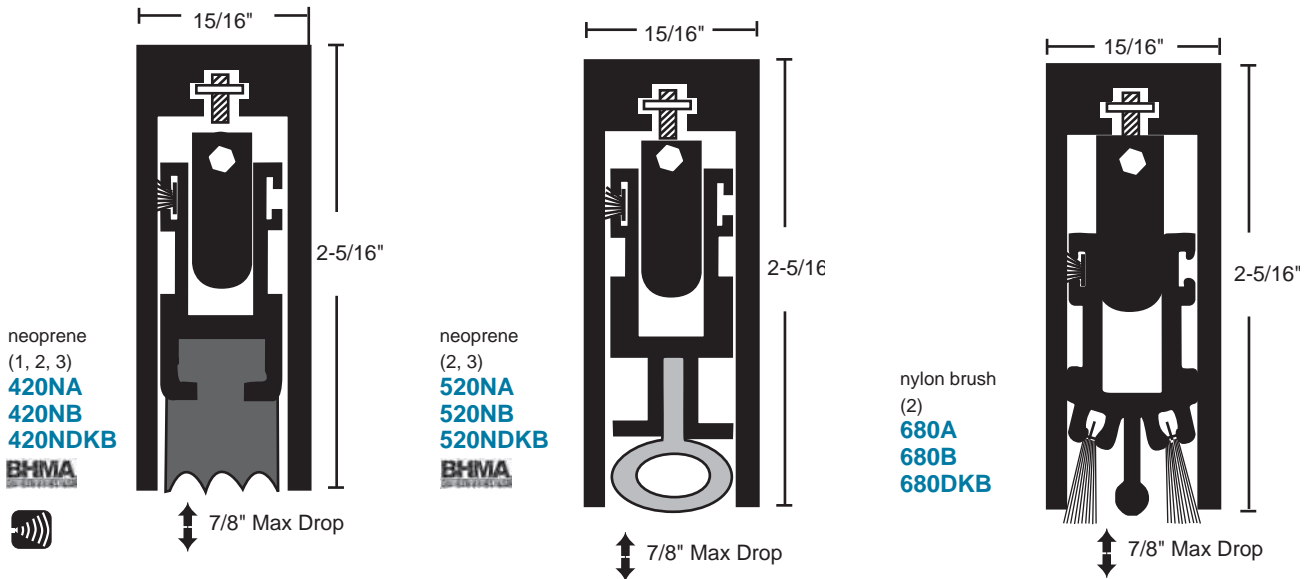
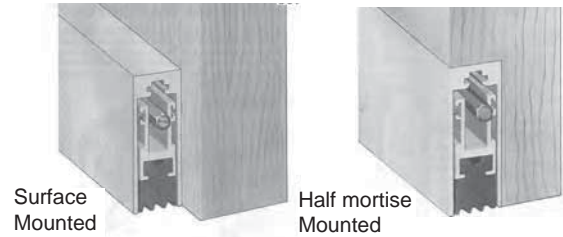


1. Lead insert available for radiation shield - specify "lead-lined".
2. Door Bottom is handed. Right hand supplied unless specified. Units under 36" NOT field reversible. Please specify handing.
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.

Automatic Door Bottoms - Heavy Duty Surface

- Mounts on push side of door
- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field, under 36" should not be cut in the field, order net length
- Minimum length 11", maximum length 60"
- End caps furnished standard

All products this page



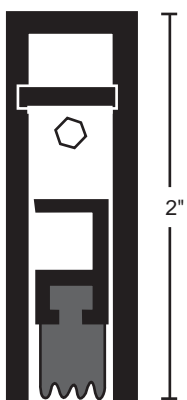
1. Lead insert available for radiation shield - specify "lead-lined".
2. For half mortise applications specify HM in item number prior to finish (ie: 420NHMDKB).
3. BHMA certified to ANSI/BHMA A156.22, 1,000,000 cycle test-grade 1.

Sliding or Pocket Doors Surface or Half Mortise - Heavy Duty

E-Z Touch

SURFACE

5/8"



3/4" Max Drop

neoprene
223NA
223NB
223NDKB

silicone
223SA
223SB
223SDKB

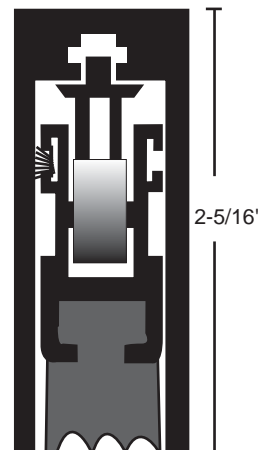
The EZ-Touch door bottom requires only 3 to 5 pounds of pressure to activate.

Perfect for accessibility applications and still provides an effective seal.

Available 23-1/4" net to 48" in length.

End caps furnished standard

15/16"



7/8" Max Drop

neoprene (1)
421NA
421NB
421NDKB

Designed for use on sliding or pocket doors. A series of actuating bars keep the seal parallel to the sill or threshold until the door is in the closed position.

Available 11" to 144" in length.

End caps not available

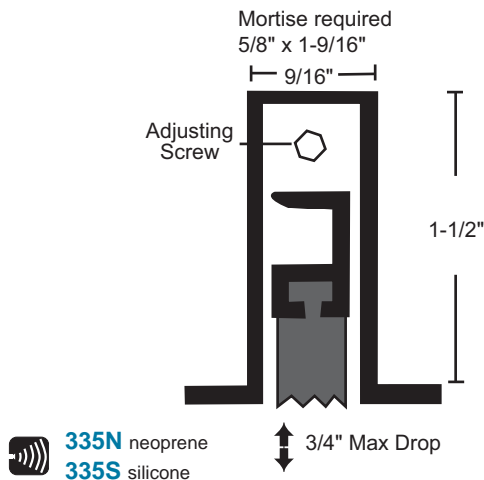
Automatic Door Bottoms - Mortise

- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field.
Under 36" should not be cut in the field, order net length
- 36" and longer are furnished 1/2" shorter than ordered to fit within net door size.
(i.e. 36" is furnished 35-1/2")
- End caps furnished standard

All products this page



neoprene & NGP-TPV are black
 silicone, nylon brush
 & vinyl are gray



335N neoprene
335S silicone

Available 23-1/4" net to 48" in length
 Fits wood fire door mortise restrictions

225N neoprene (1)



BHMA certified to
 ANSI/BHMA A156.22,
 1,000,000 cycle test-grade 1

225S silicone (1)

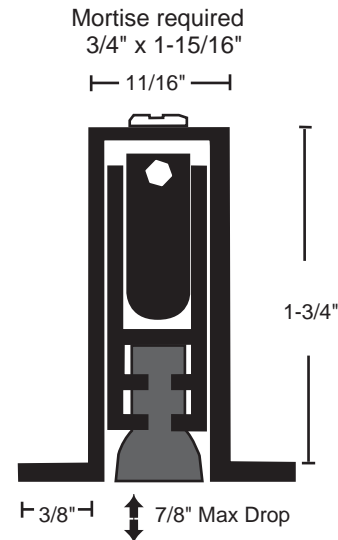


BHMA certified to
 ANSI/BHMA A156.22,
 1,000,000 cycle test-grade 1

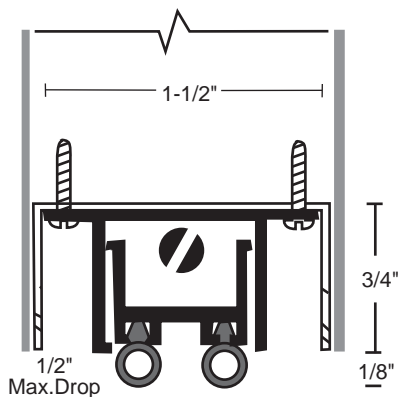
225WH nylon brush

Available 11" to 60" in length

1. Lead insert available for radiation shield - specify "lead-lined".



Hollow Metal Doors



320N NGP-TPV

320S silicone

320V vinyl



Fits in 1-5/8" x 3/4" channel. A "furring strip" may be used to lower automatic door bottom when a deeper channel is used.

Furnished 1/2" shorter than ordered to fit within net door size.
 (i.e. 36" is furnished 35-1/2") Length may be field cut up to 4".

Fire ratings apply to metal doors only.

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

Available 24" to 48" in length

Automatic Door Bottoms - Heavy Duty Mortise

- Use with a threshold for maximum sealing capability
- Nylon brush recommended for carpet applications where no threshold is provided
- Anodized aluminum end caps furnished standard. DKB end caps available - please specify
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field.
- Under 36" should not be cut in the field, order net length
- 36" and longer are furnished 1/2" shorter than ordered to fit within net door size.
(i.e. 36" is furnished 35-1/2")

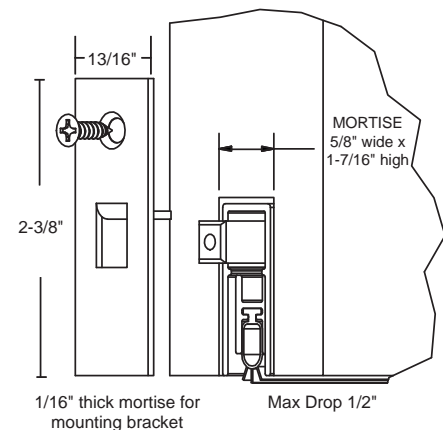
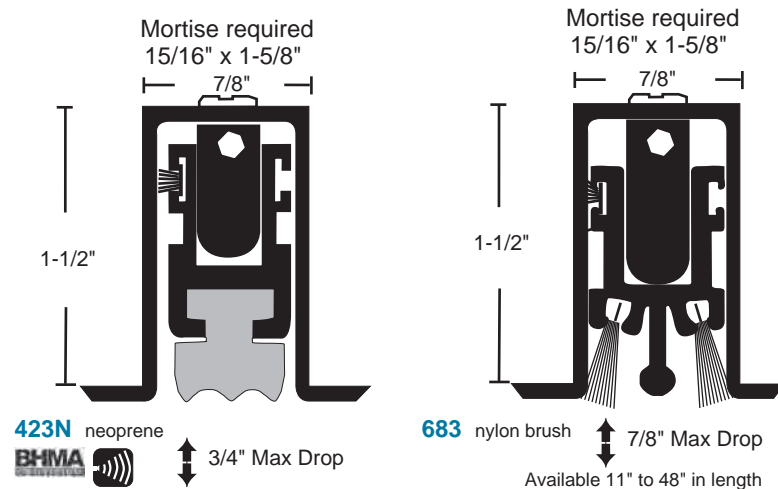
Fits Wood Fire Door Mortise Restrictions

All products this section

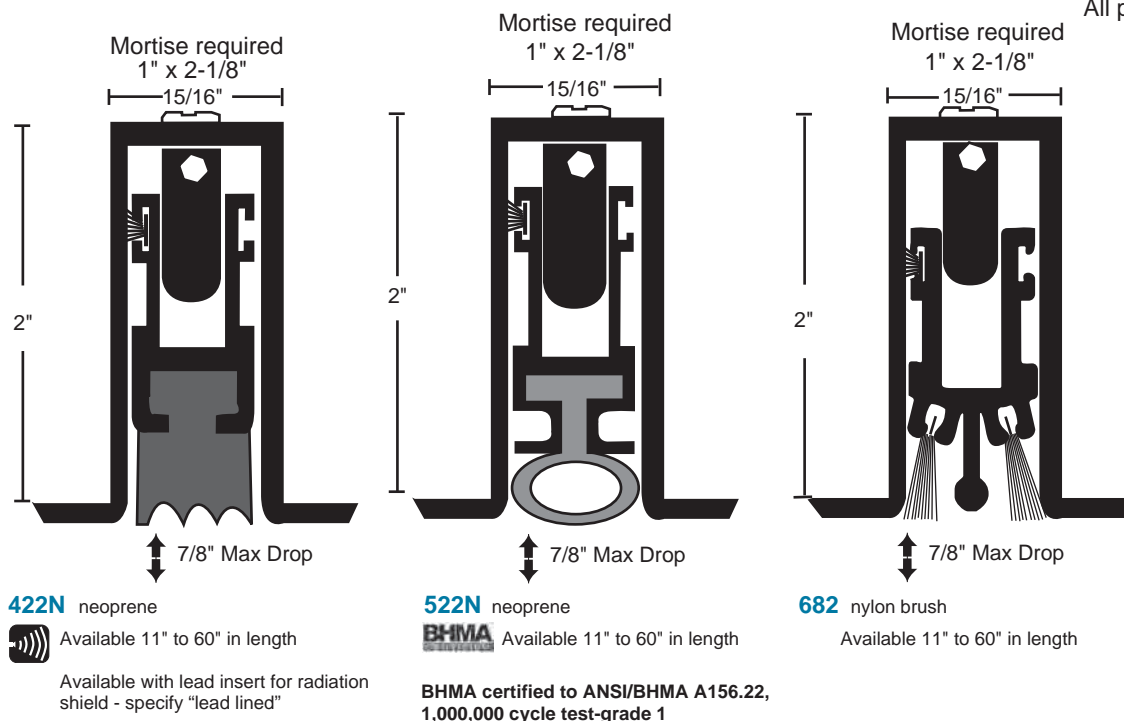


neoprene is black
nylon brush is gray
#4 x 5/8" SMS furnished

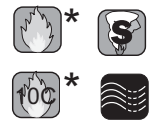
Mortise
Mounted



Door Edge mounting brackets allow easy access for removal and cleaning the door bottom drop mechanism. Perfect for use in healthcare and other facilities subject to stringent standards and inspections



All products this section

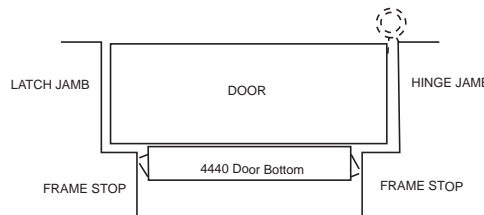


*up to 3 hrs. metal doors, 45 minute wood doors (does not fit mortise restrictions of some wood door manufacturers)

Dual Actuated Automatic Door Bottoms

WILL NOT FUNCTION ON PAIRS OF DOORS

- Actuated by frame stop on both ends
- Low compression & operating force
- Concealed fasteners
- For pairs use matching single actuated door bottoms shown below



All products this page



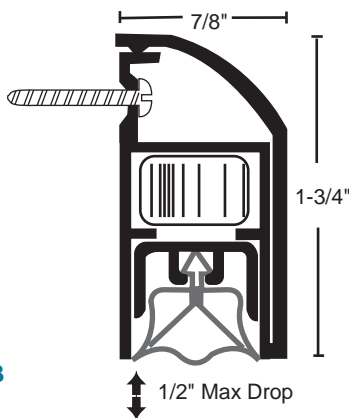
silicone is gray
gray brush with mill finish and
anodized aluminum
black brush with gold and DKB

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

Surface

silicone
4440SA
4440SB
4440SDKB

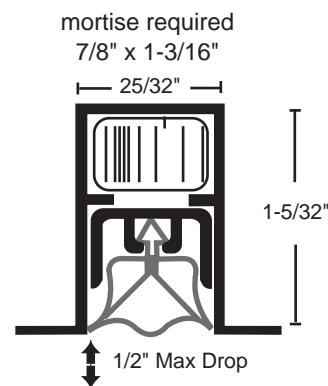
nylon brush
4440WHA
4440WHB
4440WHDKB



Furnished 1-3/8" shorter than ordered to fit between stops on frame. (i.e. 36" is furnished 34-5/8")
#6 x 3/4" TEK furnished

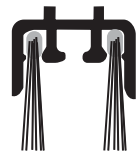
Mortise

silicone
4447S
nylon brush
4447WH



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

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



Drop Bar with
Nylon Brush -
suffix "WH"

Single Actuated Automatic Door Bottoms

- Matches design of dual actuated door bottoms. For use on pairs of doors or field size for single doors
- Low compression & operating force
- Concealed fasteners

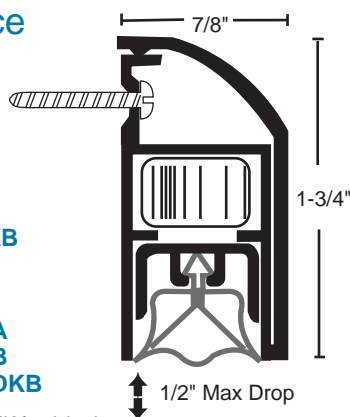
Surface

silicone
4441SA
4441SB
4441SDKB

nylon brush
4441WHA
4441WHB
4441WHDKB

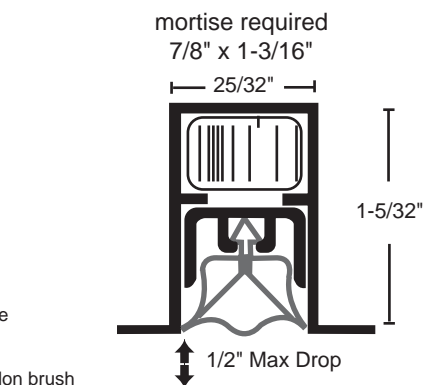
#6 x 3/4" TEK furnished

HANDED - NOT FIELD REVERSIBLE



Mortise

4448S silicone
4448WH nylon brush



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

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

Thermal Break Door Shoes

Thermal break door shoes feature a rigid spline creating a separation to prevent the transfer of outside temperature and frost through the door shoe.

#6 x 3/4" stainless steel sheet metal screws furnished.
Screw holes slotted for adjustment.

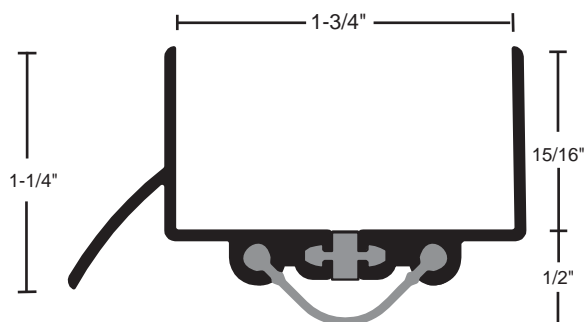
All door shoes this page



MATERIALS & FINISHES

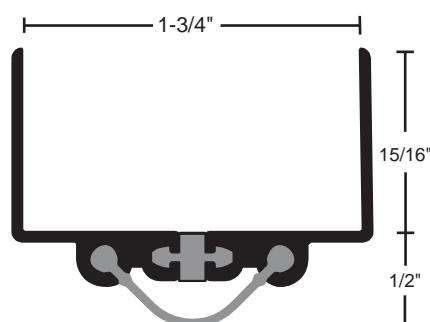
A - anodized aluminum
DKB - dark bronze

819 Series



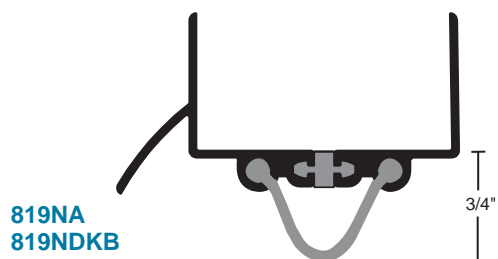
819VA
819VDKB

816 Series

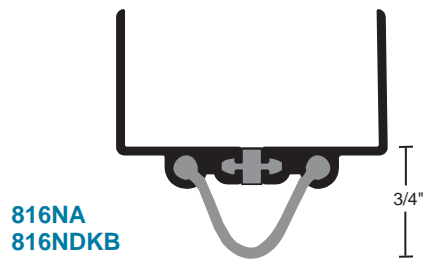


816VA
816VDKB

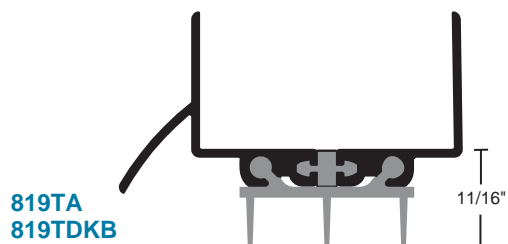
Gasketing options:



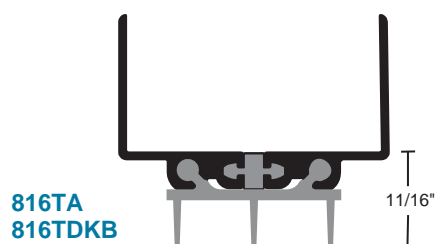
819NA
819NDKB



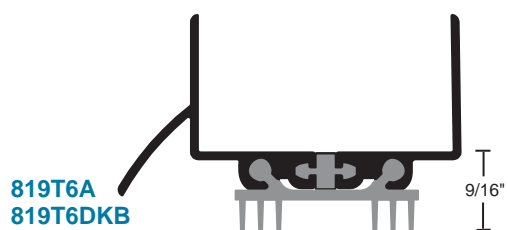
816NA
816NDKB



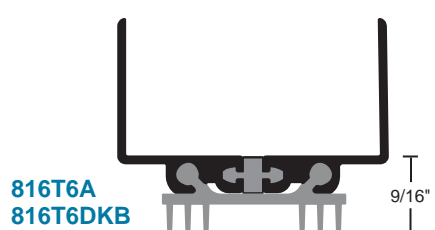
819TA
819TDKB



816TA
816TDKB



819T6A
819T6DKB



816T6A
816T6DKB

Acoustical Door Shoe

Aluminum alloy 6063, T5 temper

Thermoplastic polymer: Polyvinyl Chloride formulated with an environmentally friendly Bio-based plasticizer

- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to cold, heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration
- #6 x 3/4" stainless steel SMS furnished
- Screw holes slotted for adjustment

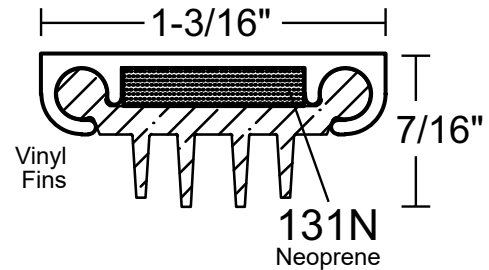


MATERIALS & FINISHES

no suffix - mill aluminum

DKB - dark bronze

vinyl is gray



312V X 131N
312VDKB X 131N



STC Rated Acoustical Foam Pad

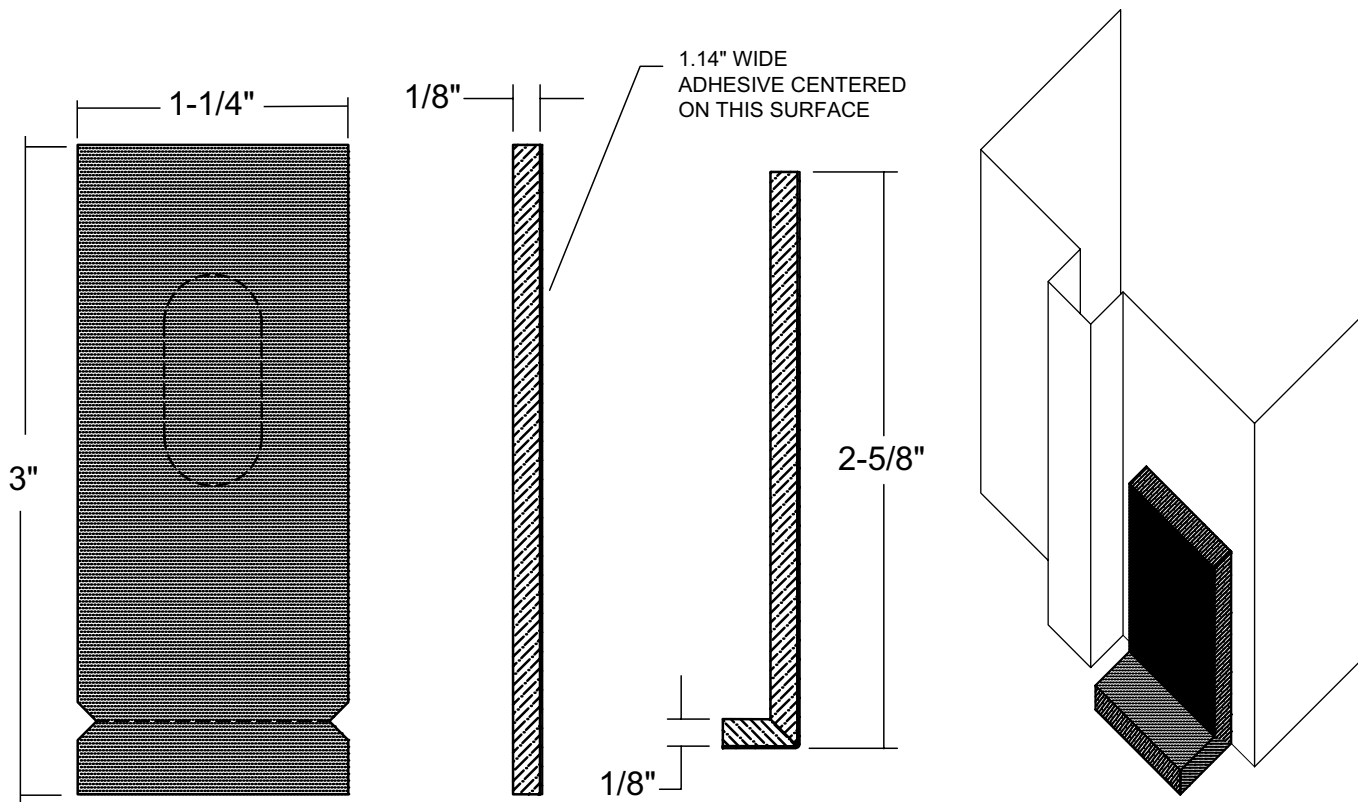
Foam seal self adhesive

- Helps acoustics and seals at corner gap
- Apply to jambs on hinge and strike side
- Available as set of 2 pads
- Color is black

60FP



STC 52

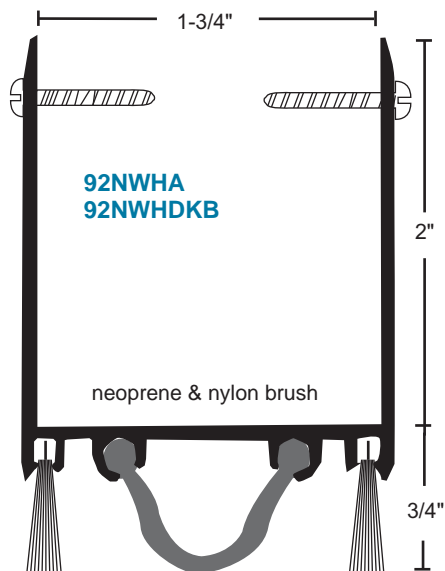


Extended Door Shoes

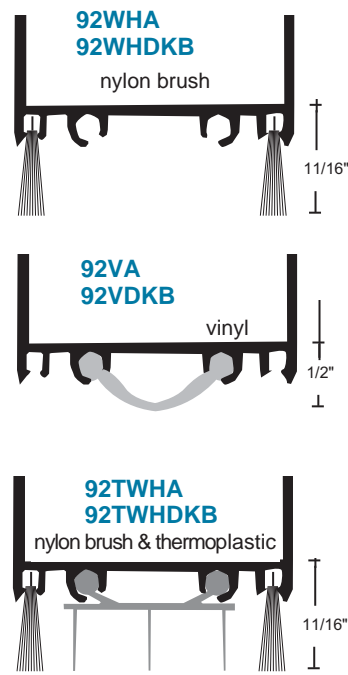
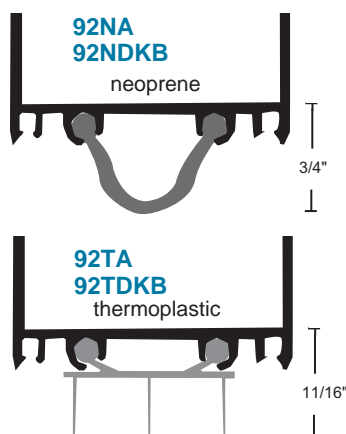
#6 x 3/4" Stainless Steel SMS furnished

End caps available - sold separately

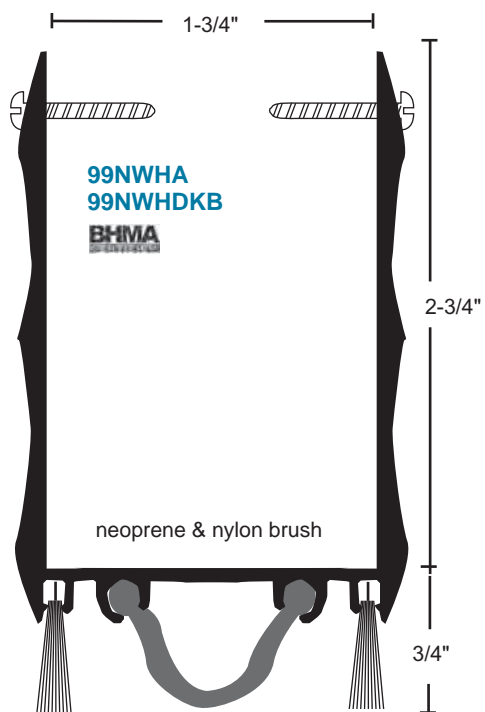
92 Series



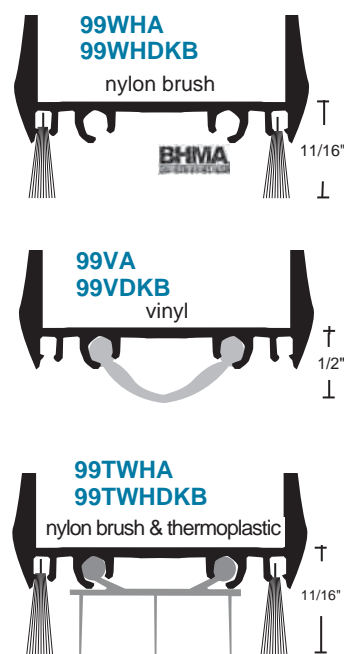
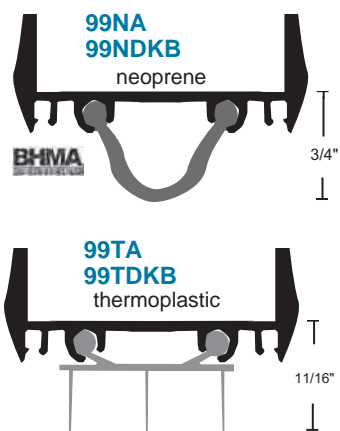
Gasketing options:



99 Series



Gasketing options:



All products this page



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

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



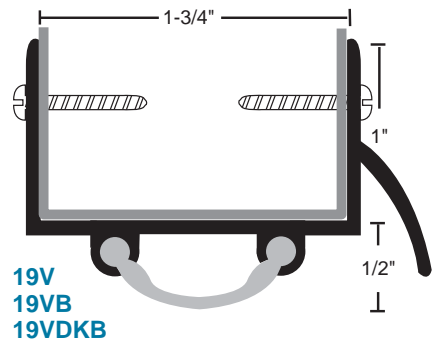
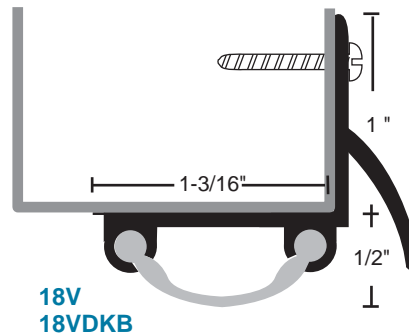
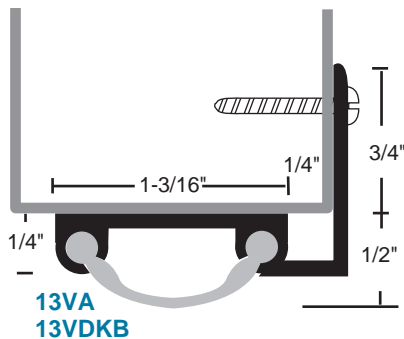
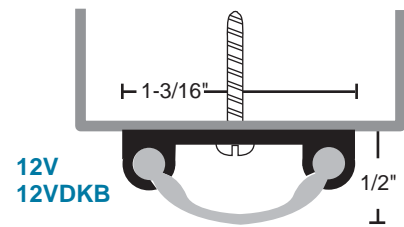
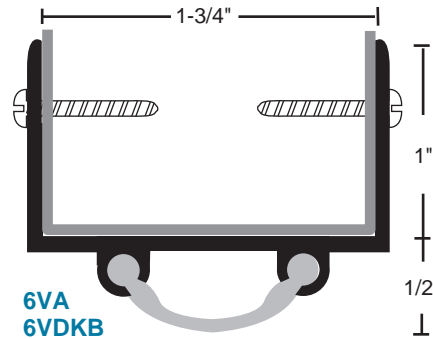
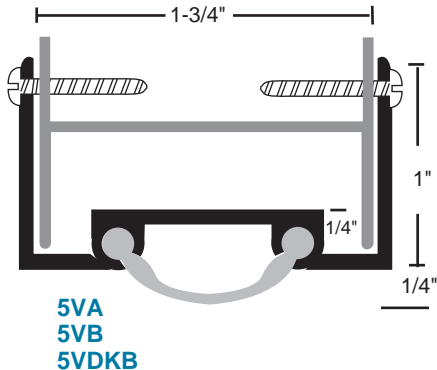
Smooth Vinyl Door Shoes

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

All vinyl door shoes this section

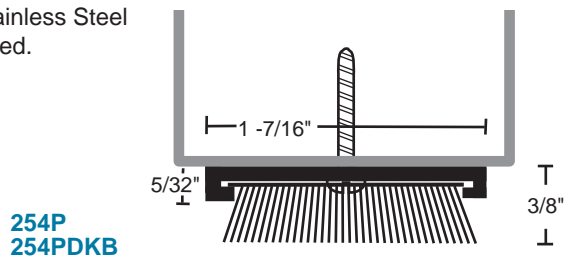


A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray



Polypropylene Pile Door Shoes

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



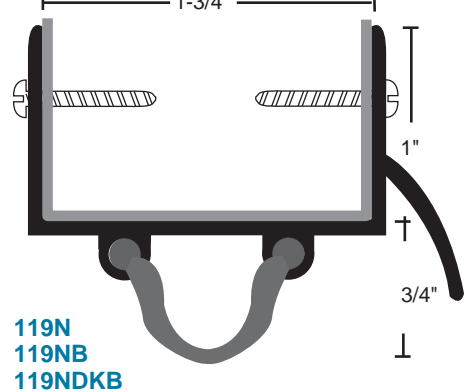
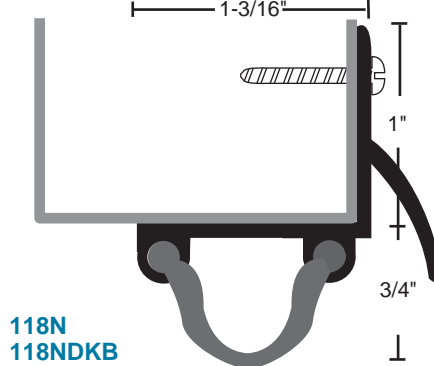
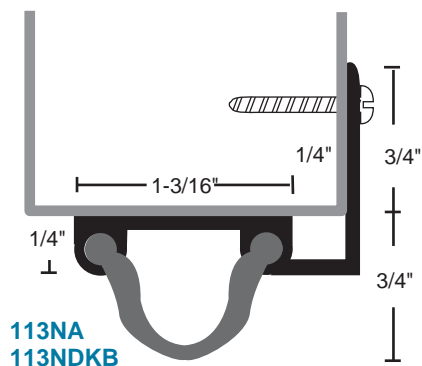
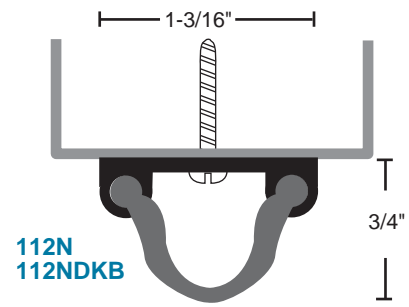
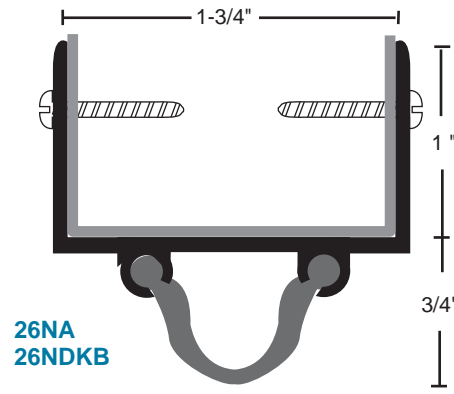
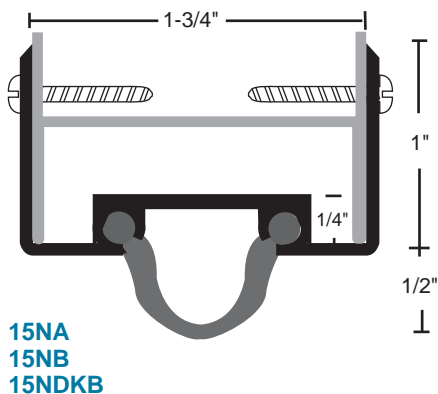
Neoprene Door Shoes

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

All neoprene door shoes this section



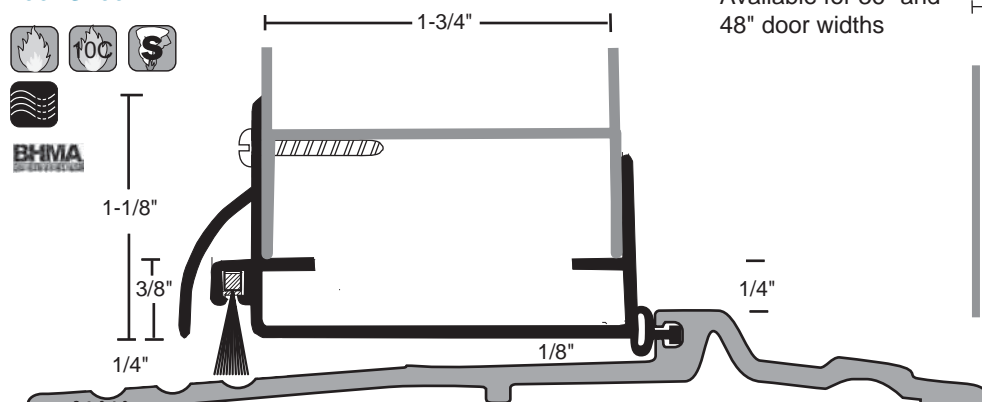
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
neoprene is black



Nylon Brush Door Shoe

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

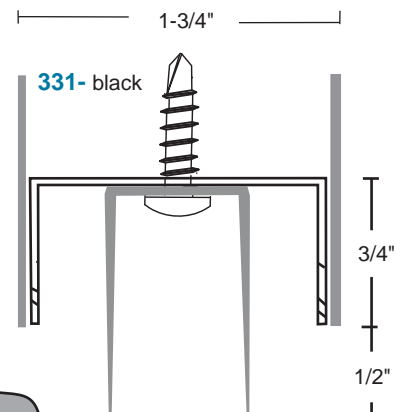
95WH gray brush
95WHDKB - black brush
Door Shoe



Designed for use on standard 3/4" undercut door used
with NGP 896 V, N, or S ADA compliant threshold as shown

Double Fin Door Shoe

- Rigid polypropylene top with flexible TPV fins
- Designed for hollow metal doors with inverted bottom channel
- Furnished undrilled
- #8 x 3/4" TEK screws furnished
- Available for 36" and 48" door widths



896
896DKB
Threshold



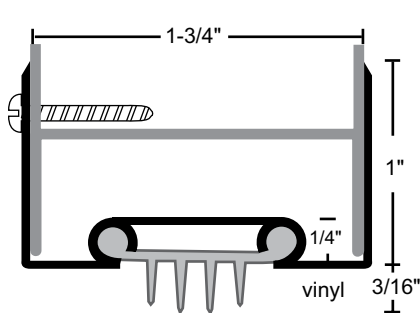
Finned Vinyl Door Shoes

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

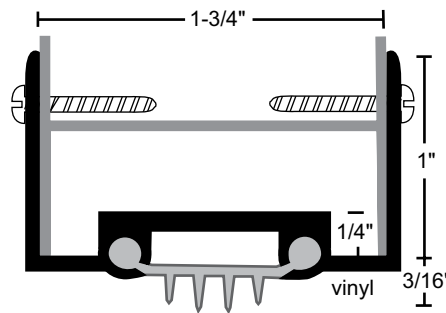
All products this page



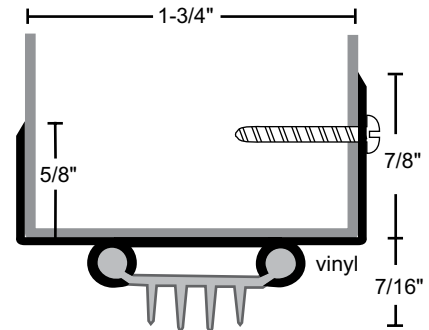
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl is gray



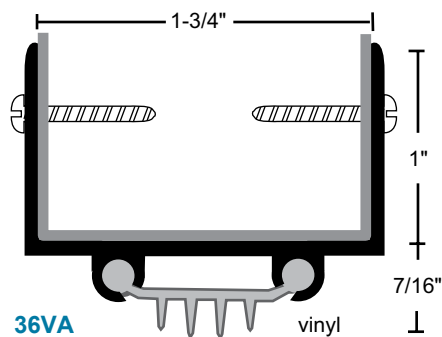
35EV
35EVDKB



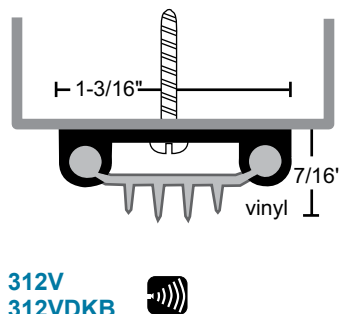
35VA
35VB
35VDKB



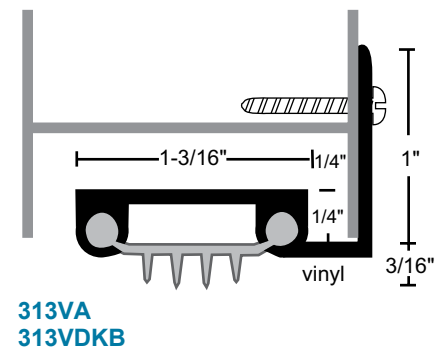
36EV
36EVDKB



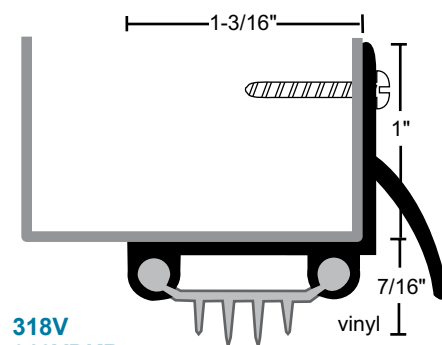
36VA
36VDKB



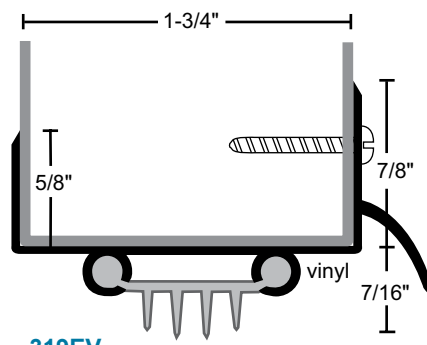
312V
312VDKB



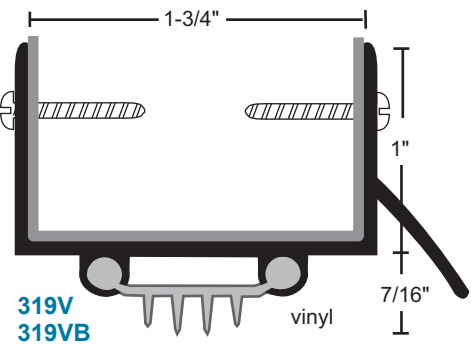
313VA
313VDKB



318V
318VDKB



319EV
319EVDKB



319V
319VB
319VDKB

Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins.
48" maximum length

All products this page



Material Finishes:

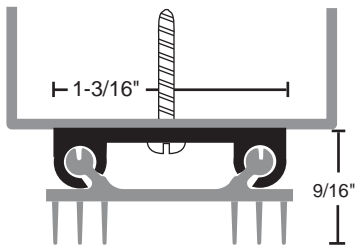
A - anodized aluminum

DKB - dark bronze

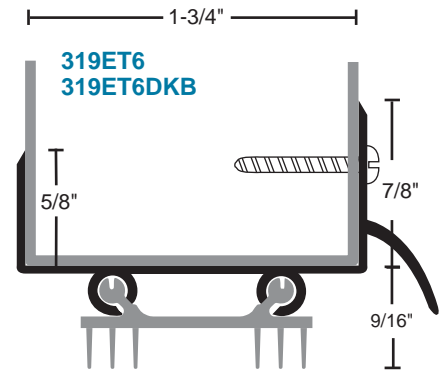
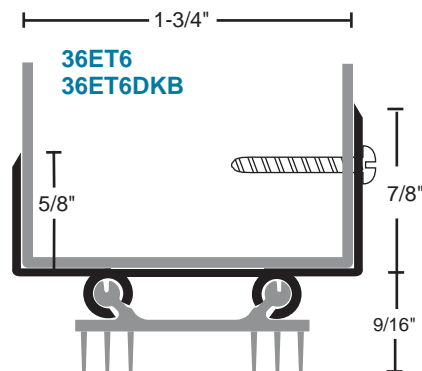
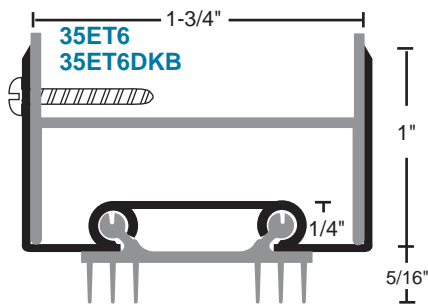
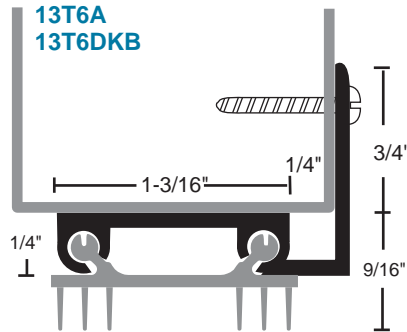
no suffix = mill aluminum
thermoplastic is dark brown

#6 x 3/4" stainless steel
SMS furnished

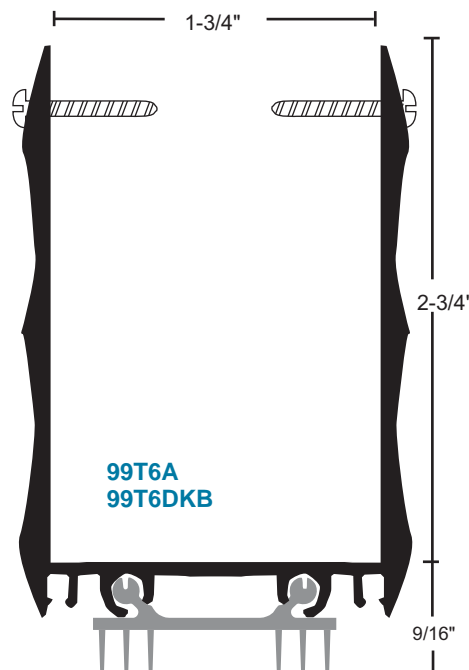
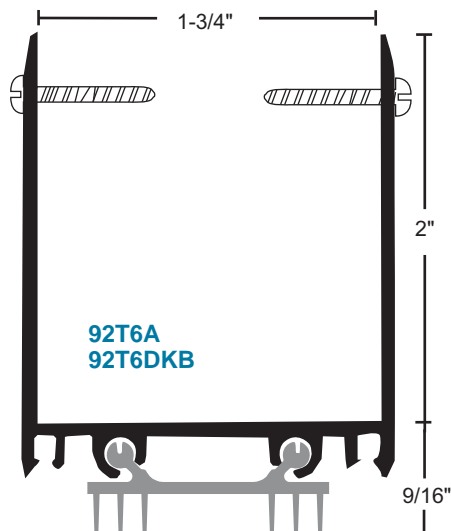
12T6
12T6DKB



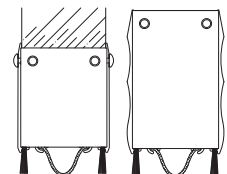
13T6A
13T6DKB



Extended Door Shoes



End caps available -
sold separately

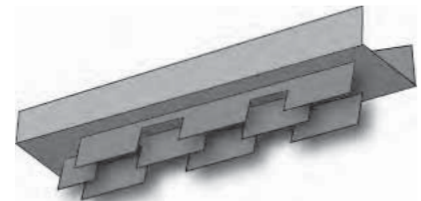
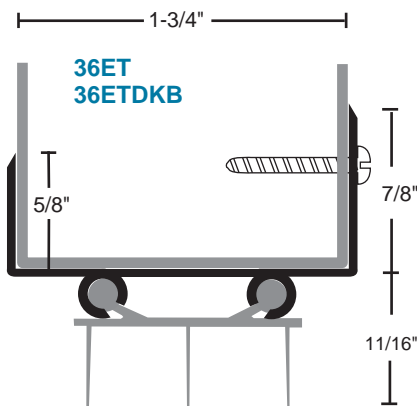
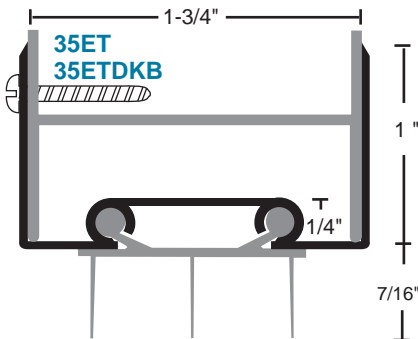
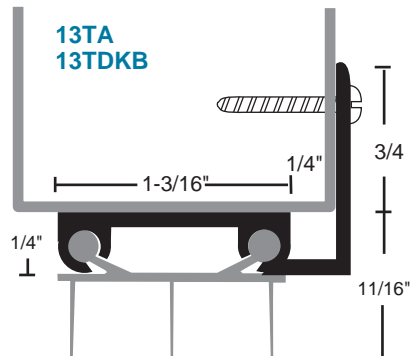
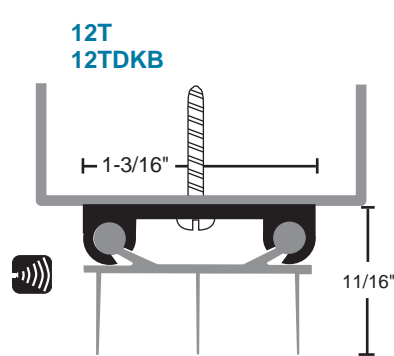




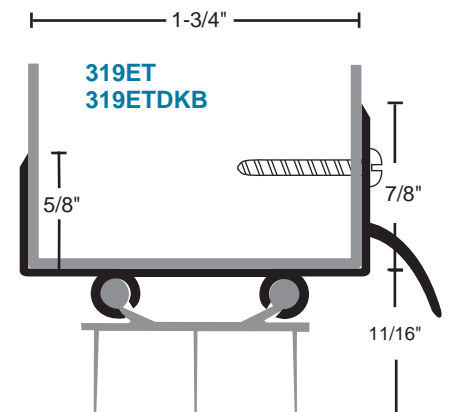
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Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins. Available with Notched Fins to allow air flow while restricting light, suffix NF. 48" maximum length

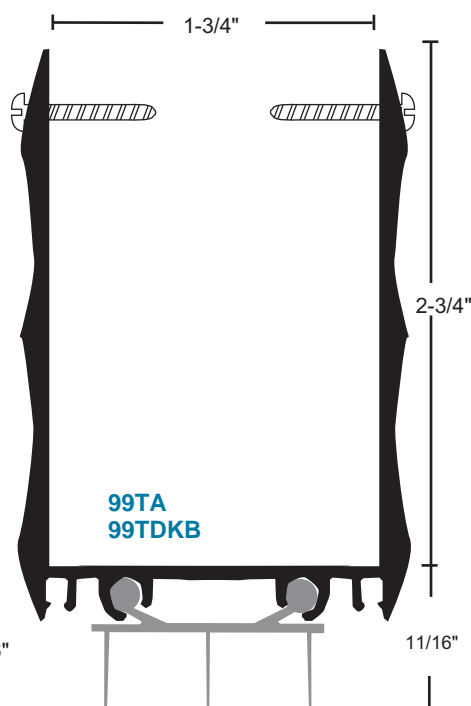
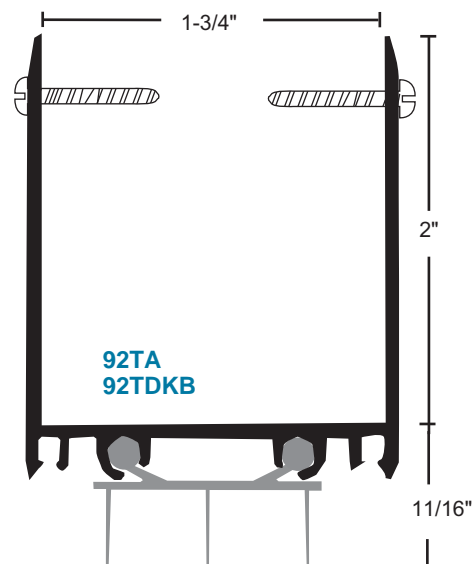
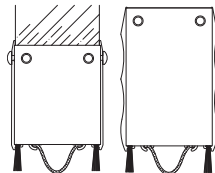


Option: Notched Fins - suffix 'NF'



Extended Door Shoes

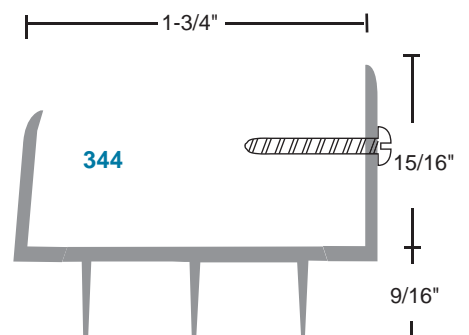
End caps available - sold separately



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

Rigid Thermoplastic Door Shoe with Soft Vinyl Fins

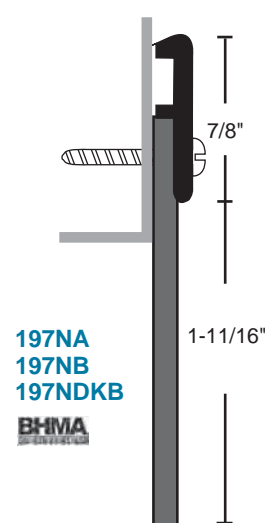
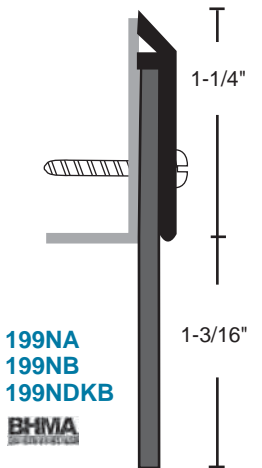
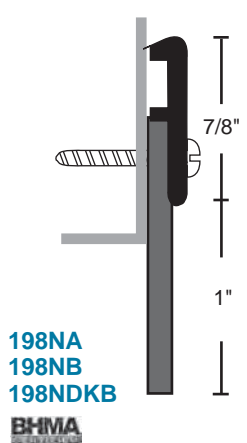
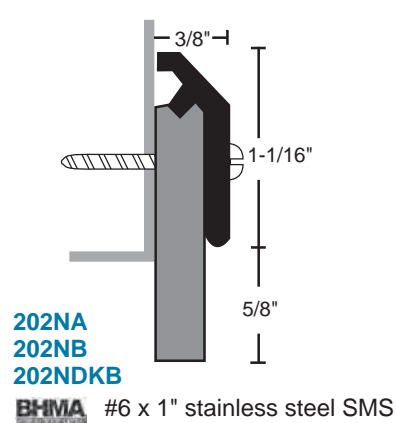
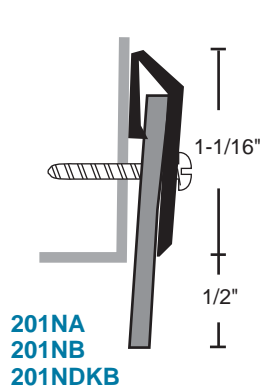
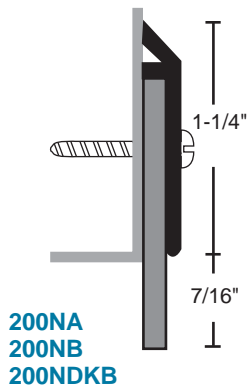
- Available 36" and 48"
- color is dark brown





Neoprene Sweeps

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



All products this page



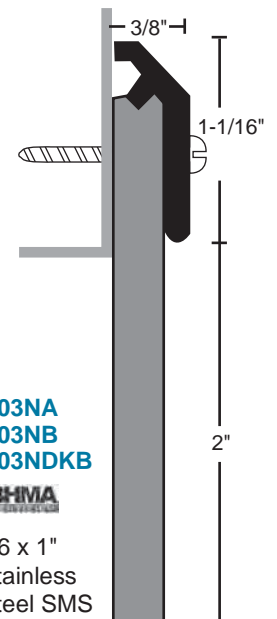
Material Finishes:

A - anodized aluminum

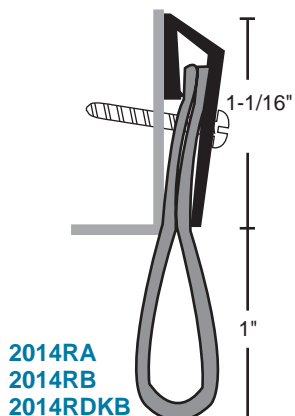
DKB - dark bronze

no suffix = mill aluminum

neoprene is black



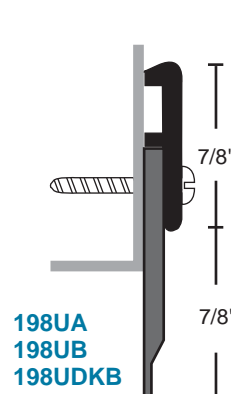
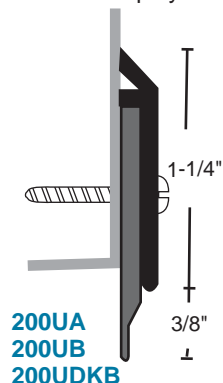
Reinforced Neoprene Sweep



0.060" thick Lead Insert available
for radiation shield - suffix "LD"

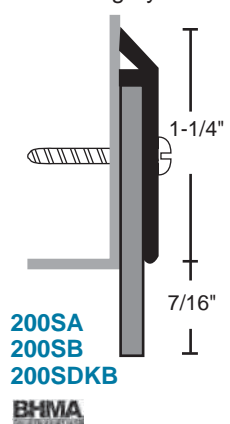
Polyurethane Sweeps

polyurethane is black



Silicone Sweep

silicone is gray



Vinyl Sweeps

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

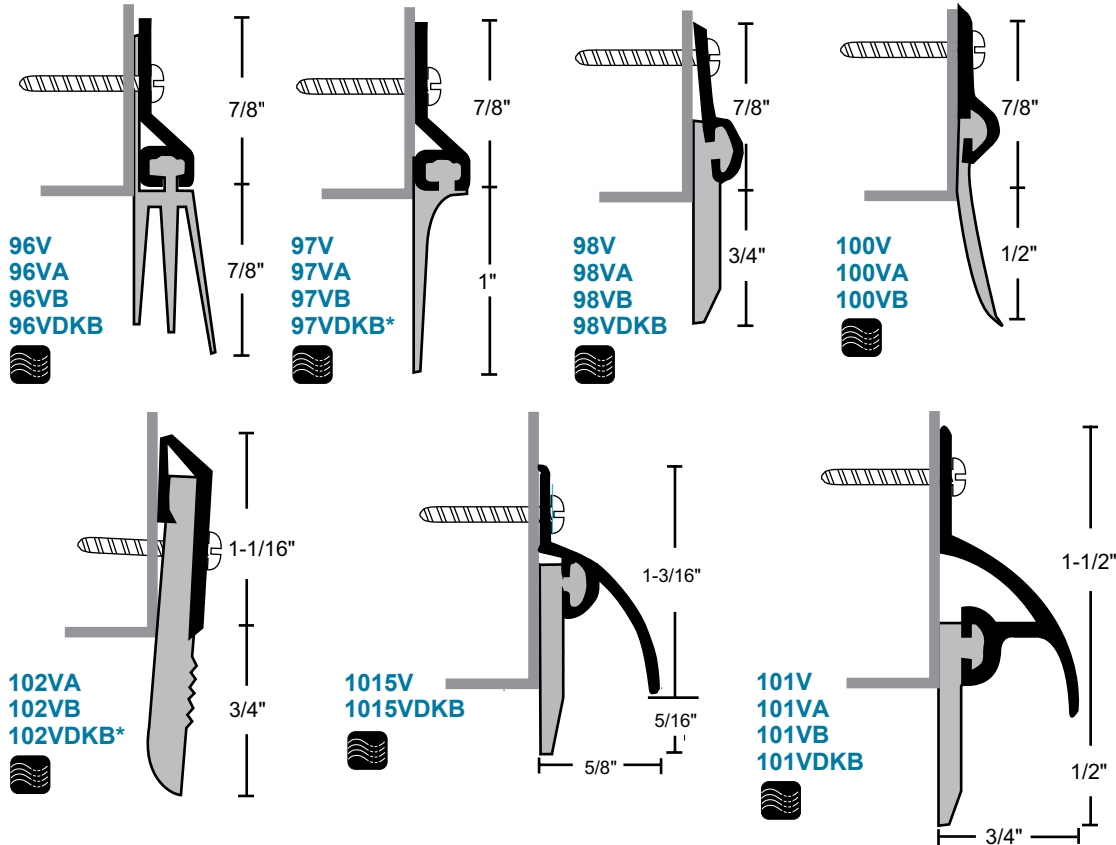
All products this page



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

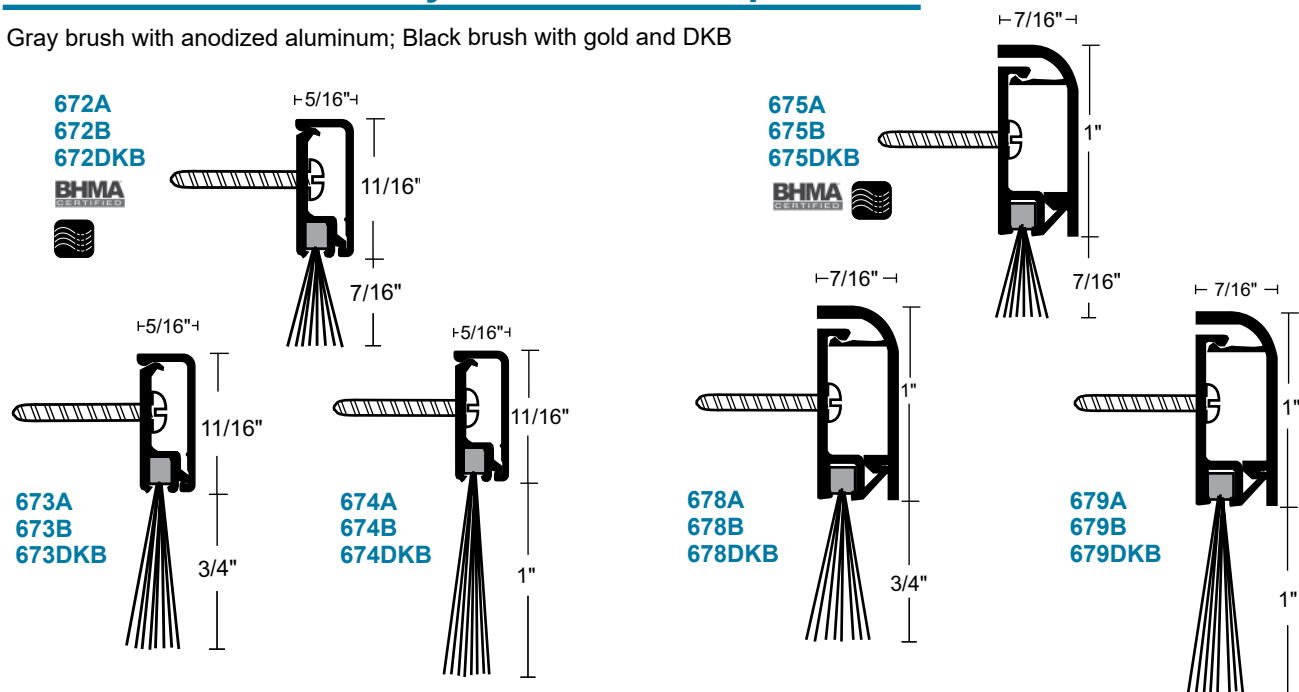
vinyl is gray

Exceptions:
*vinyl is black



Concealed Fastener Nylon Brush Sweeps

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





Nylon Brush Sweeps

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

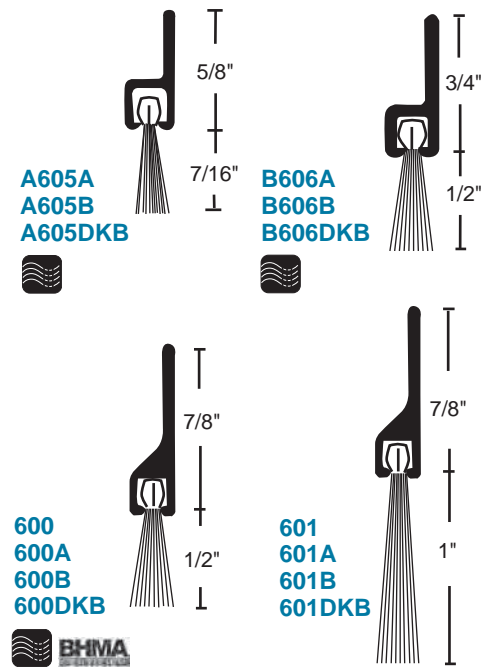
A - anodized aluminum with gray brush

B - gold with black brush

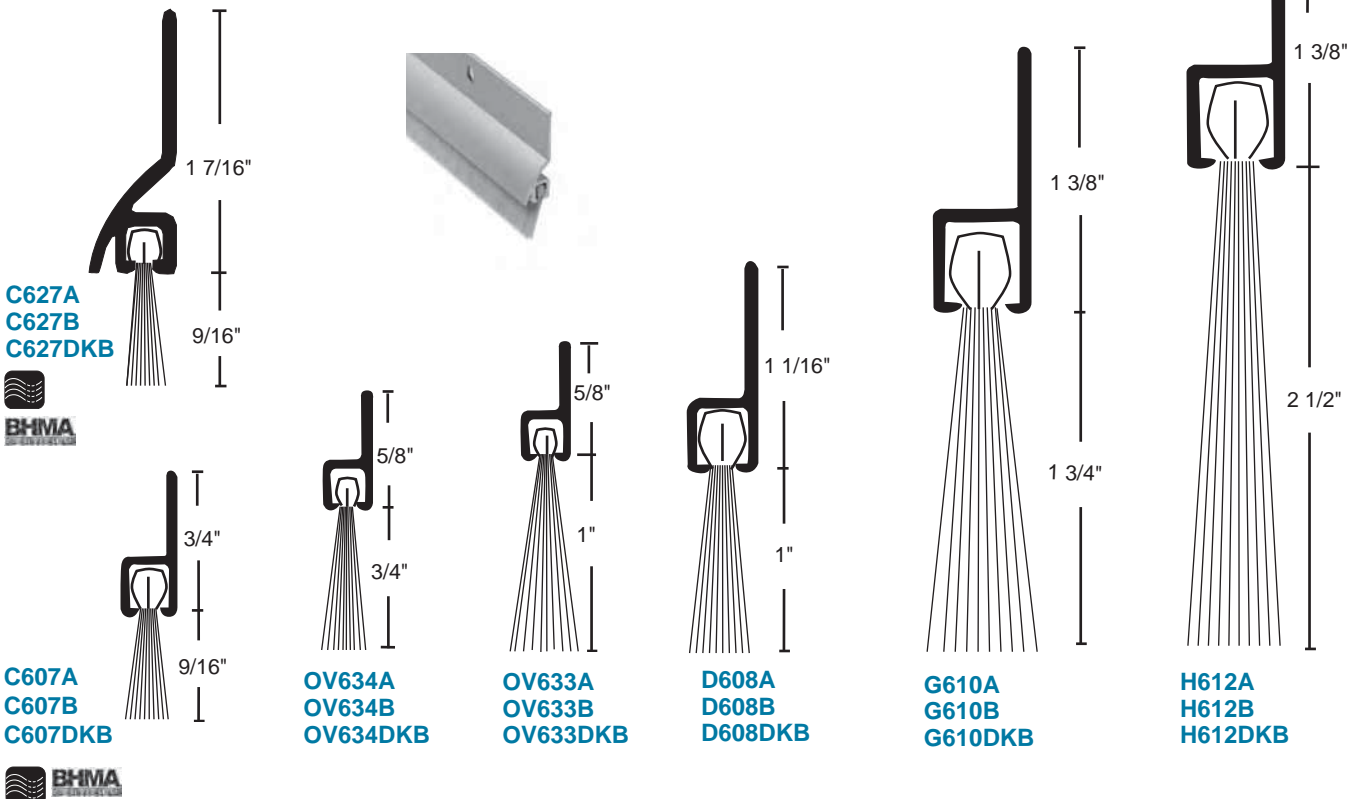
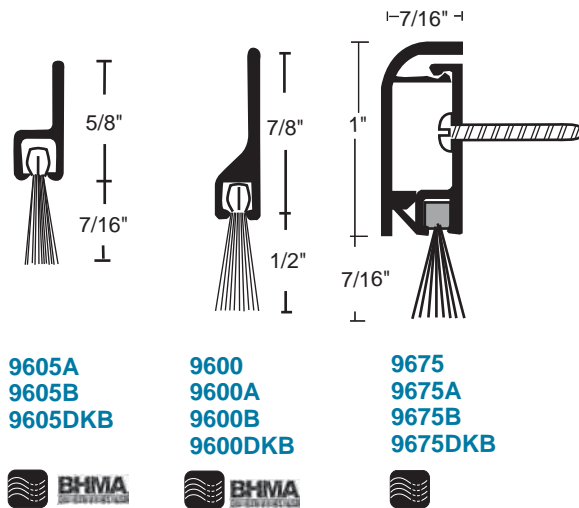
DKB - dark bronze with black brush

no suffix - mill aluminum with gray brush

All products this page



Our exclusive line of premium grade seals specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration.

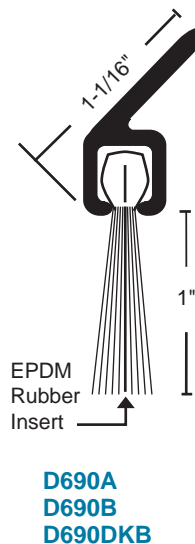
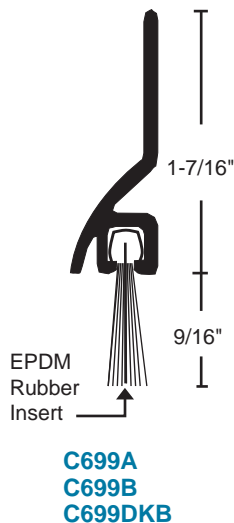
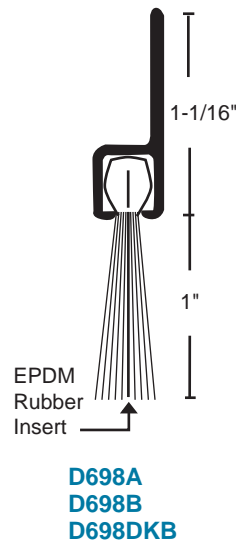
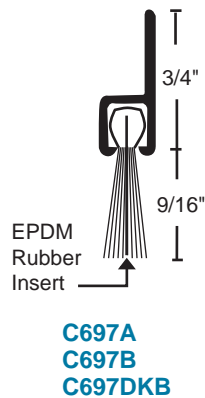


Nylon Brush Seals with EPDM Rubber Insert

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

A - clear anodized with black brush
B - gold with black brush
DKB - dark bronze with black brush

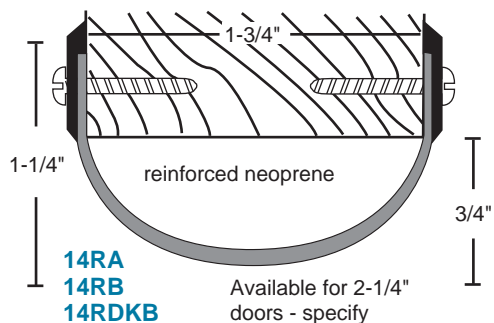
- EPDM rubber insert protects against water penetration and provides an effective bottom seal for exterior doors
- Excellent abrasion resistance, flexibility and memory
- Moisture resistant
- Retains insecticides well
- Temperature range - 60°F to 350°F





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Door Bottom Seals



Material Finishes:

A - anodized aluminum

B - gold

DKB - dark bronze

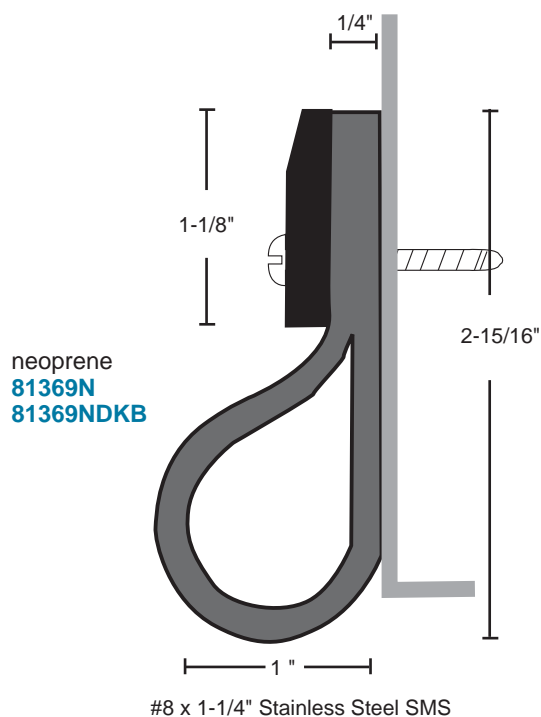
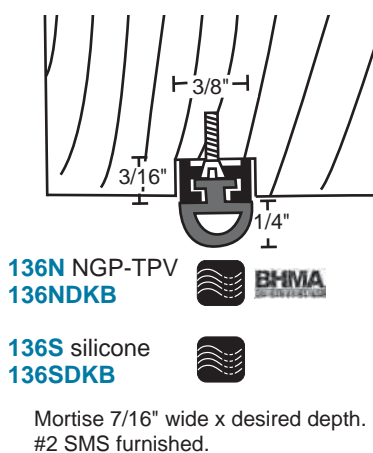
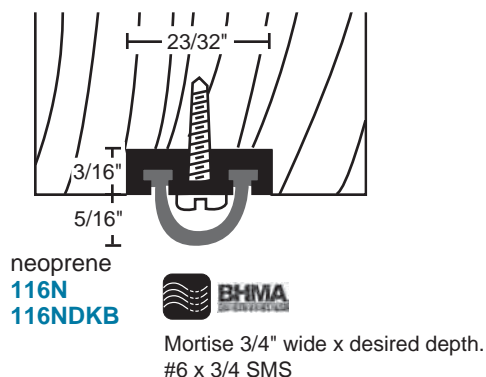
no suffix = mill aluminum

neoprene, silicone & NGP-TPV are black

Overhead Door Bottom Seal

Properties:

- Synthetic rubber polymer blend: Chloroprene and EPDM
- Very good abrasion resistance, tensile strength and memory
- Flame resistant
- Moisture resistant
- Temperature range -20°F to 200°F
- Good resistance to ozone sunlight and aging

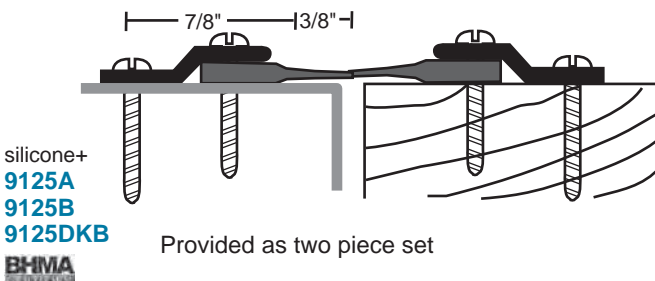
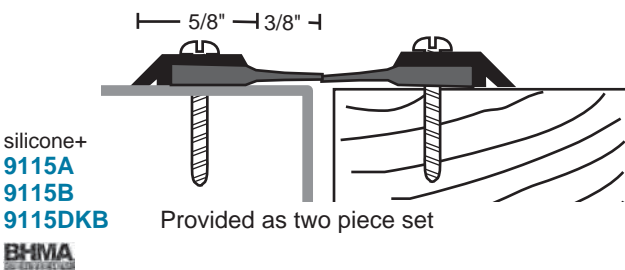
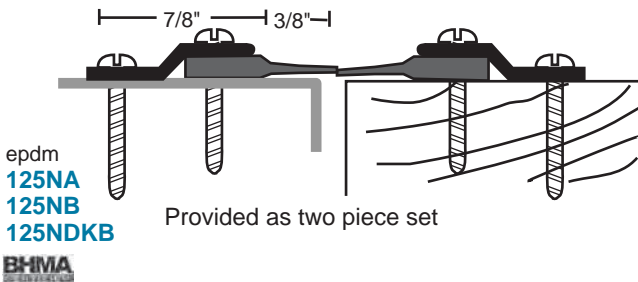
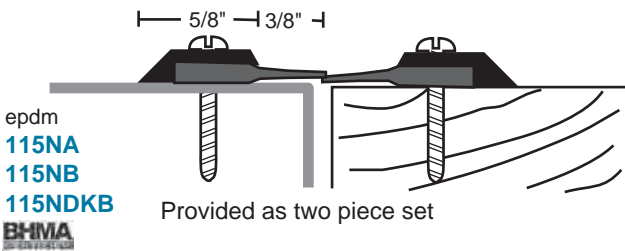


Smoke-Rated Astragal Seals

Fire-rated Astragal Seals cannot replace any astragal required on the door by the door manufacturer to maintain its fire label. IBC, NFPA 80, NFPA105, and NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8".

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

Metal	epdm	silicone	nylon+
A - anodized aluminum	gray	tan	gray
B - gold	black	tan	black
DKB - dark bronze	black	tan	black
no suffix - mill aluminum	gray	tan	gray



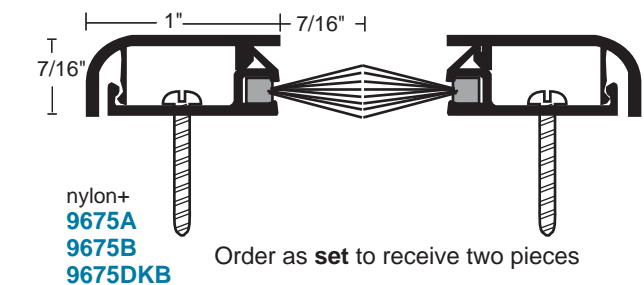
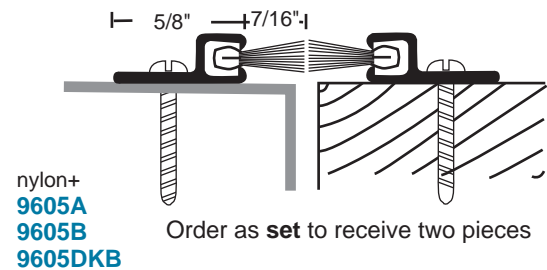
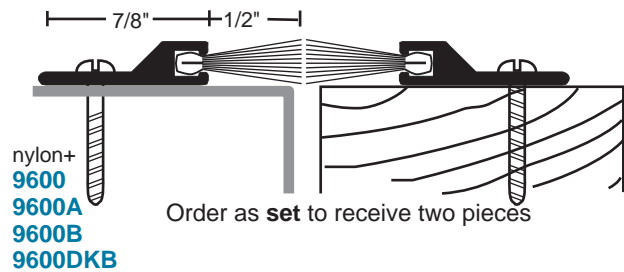
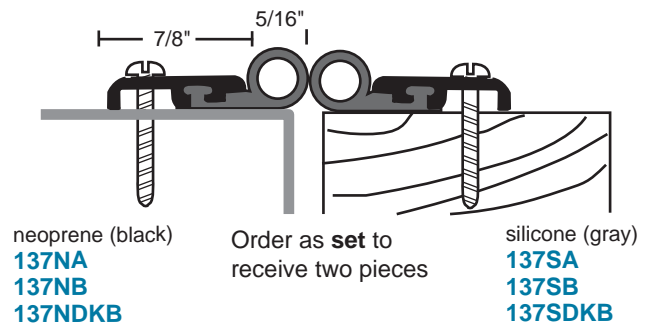
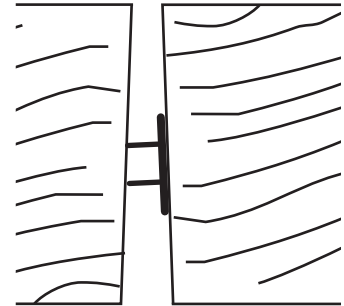
All products this page



5070B Brown
5070CL Clear
self-adhesive TPE



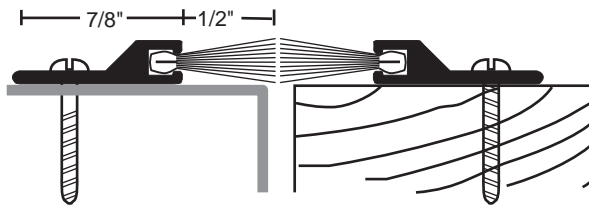
* antimicrobial not available in clear



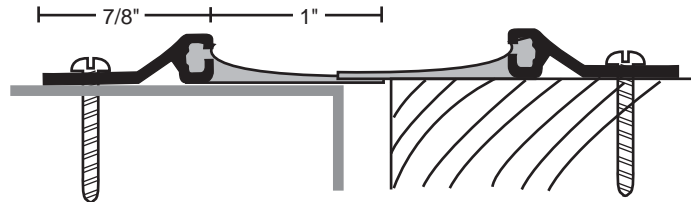
Surface Mounted Astragal Sets

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

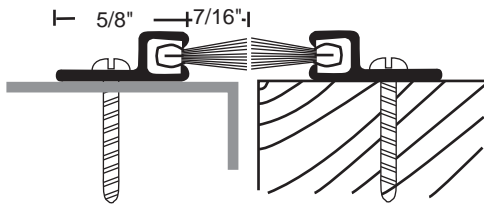
A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
Brush is gray with mill finish and anodized aluminum metal; black with gold and DKB vinyl is gray, except * vinyl is black



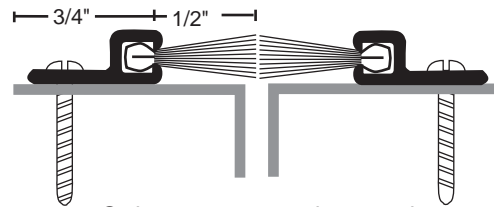
nylon brush Order as **set** to receive two pieces
600
600A
600B
600DKB



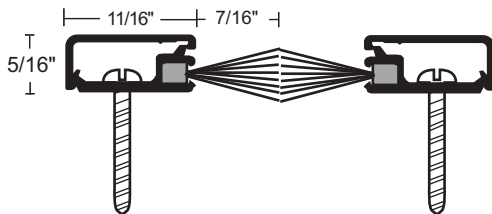
vinyl Order as **set** to receive two pieces
97V
97VA
97VB
97VDKB*



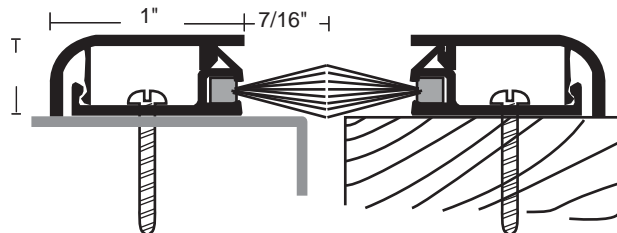
nylon brush Order as **set** to receive two pieces
A605A
A605B
A605DKB



nylon brush Order as **set** to receive two pieces
B606A
B606B
B606DKB



nylon brush Order as **set** to receive two pieces
672A
672B
672DKB

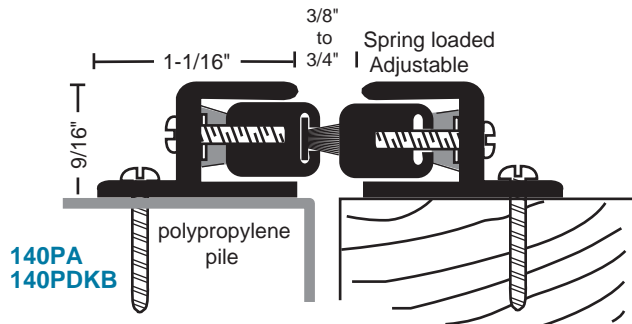


nylon brush Order as **set** to receive two pieces
675A
675B
675DKB



Spring Adjustable Astragal Sets

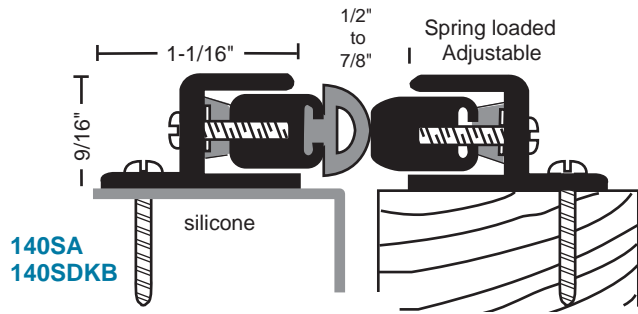
- Adjustment screws on 10" centers allow adjustment of the seal without re-positioning mounting location
- Spring-loaded to maintain constant pressure for the most effective seal



*

Provided as two piece set

* up to 3 hrs. metal doors, 20 min., wood doors



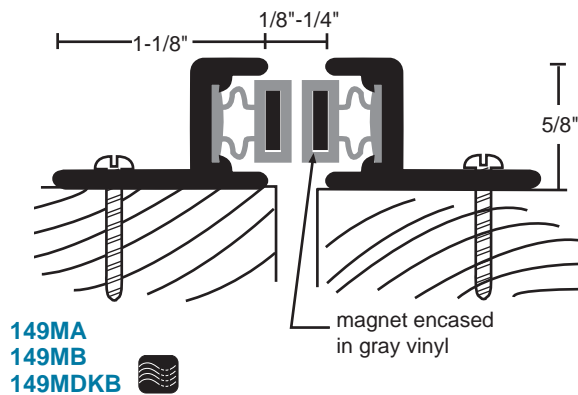
100



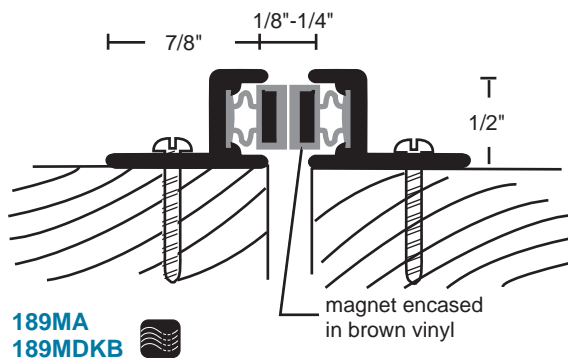
Provided as two piece set

Magnetic Astragal Sets

#6 x 3/4" Stainless Steel SMS furnished.
 Screw holes are slotted for adjustment
 Not recommended for use on metal doors

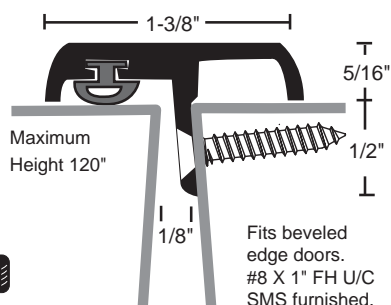
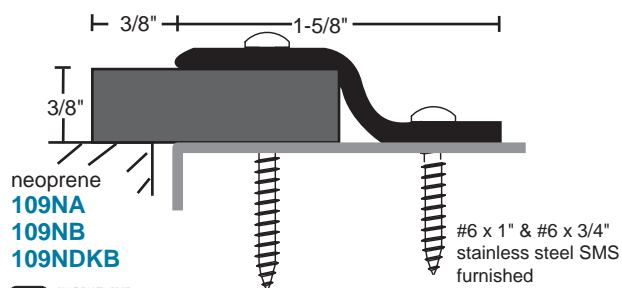


Provided as two piece set



Provided as two piece set

Overlapping Astragals



158VA vinyl
158VDKB



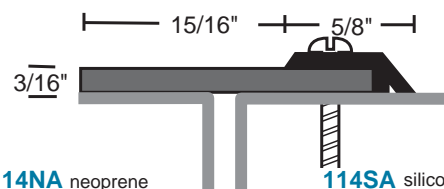
158NA NGP-TPV
158NDKB



158SA silicone
158SDKB



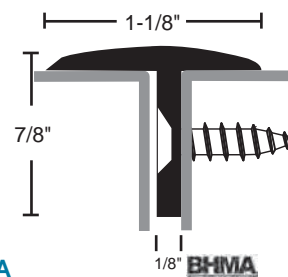
158PA polypropylene pile
158PDKB



114NA neoprene
114NB
114NDKB



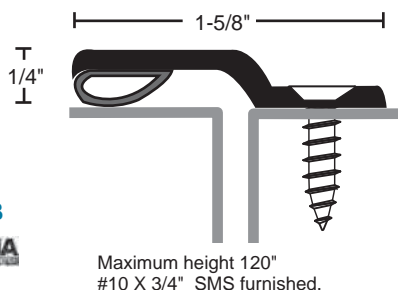
114SA silicone
114SB
114SDKB



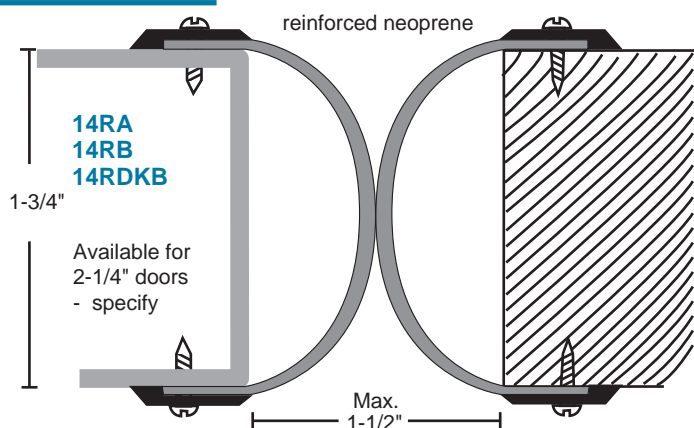
176A
176DKB



silicone
178SA
178SDKB



Specialty Astragal



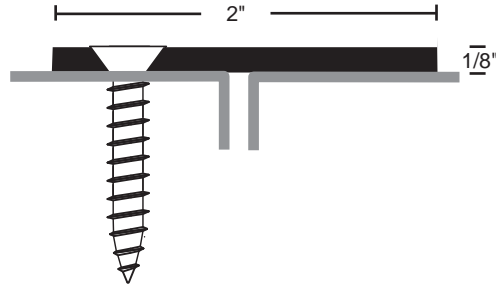
Solid Metal Astragals

- Available lead-lined .030" thick lead, suffix "LD"
- Available with SNB, specify

139SP Steel Prime Coat 139SPDKB Steel Dark Bronze



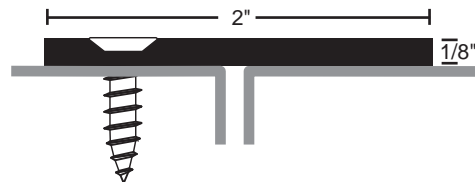
Furnished with #12 x 1-1/4" SMS. Can replace astragal required by the door manufacturer on wood or metal fire-rated doors. IBC, NFPA80, NFPA 252 require the gap at the meeting edge between fire labeled doors must not exceed 1/8". Astragal must overlap gap and inactive door minimum of 3/4".



139A Anodized Aluminum 139DKB Aluminum Dark Bronze



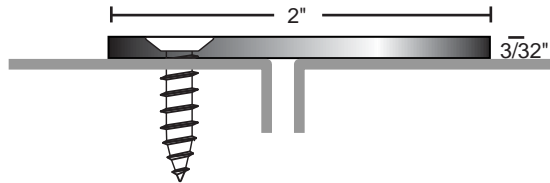
#10 x 3/4" SMS furnished



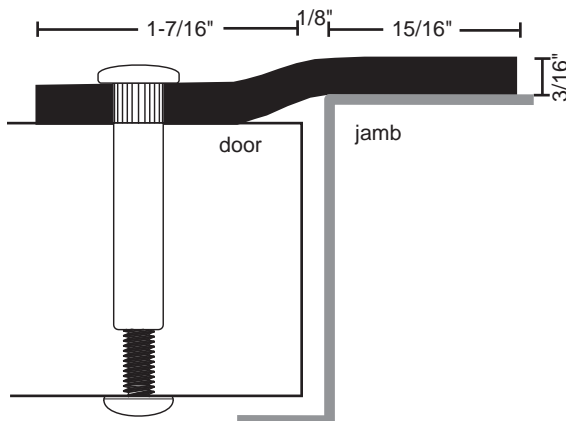
139SS Stainless Steel type 304 brushed #4 finish (US32D, 630)



#10 x 3/4" SMS furnished



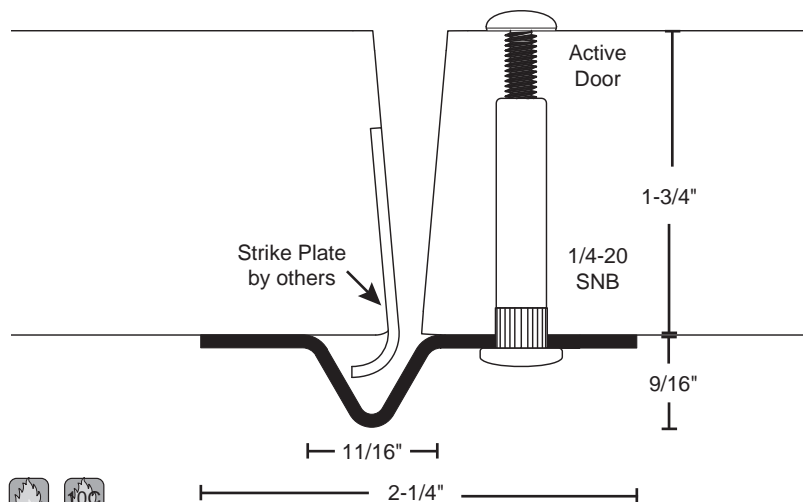
Steel Security Astragals



1392SP Steel Prime Coat



Maximum height 120"
#1/4-20 SNB's furnished.

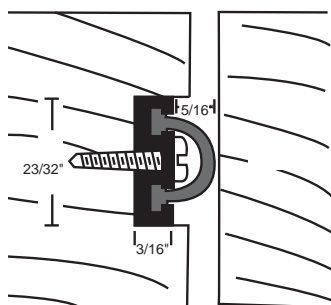
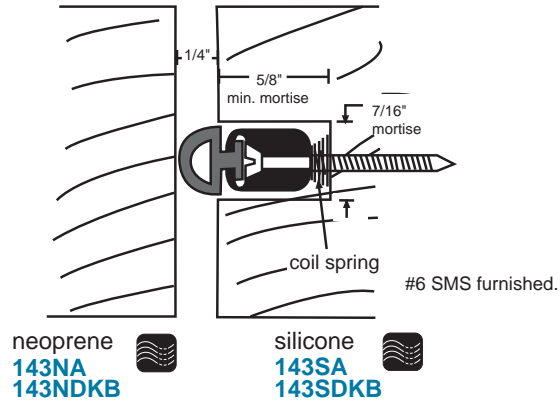
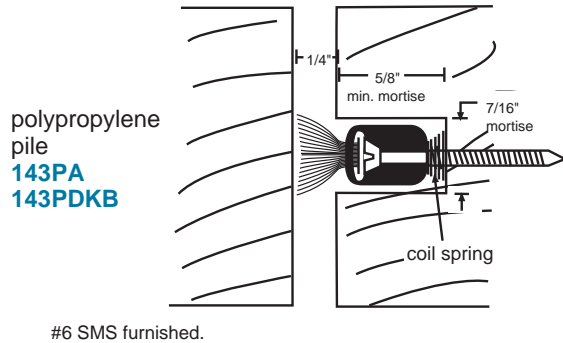


1390SP-83-1/8" 14 Ga. Galvanneal Steel Prime Coat
1390SP-95-1/8"

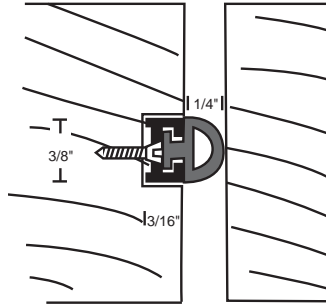
No notching or field cutting needed for curved lip strikes

Mortised Astragals

A - anodized aluminum
B - gold
DKB - dark bronze
no suffix - mill aluminum
 nylon brush, pile, and vinyl are gray
 neoprene, NGP-TPV & silicone are black



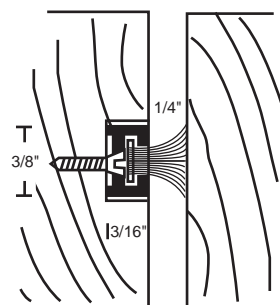
116N neoprene
116NDKB



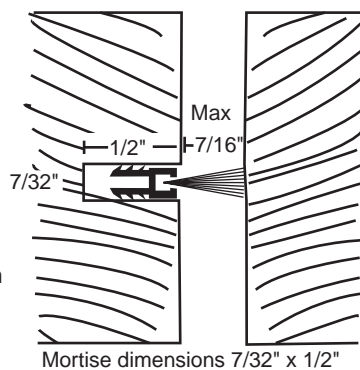
136N NGP-TPV
136NDKB



136S silicone
136SDKB



136P polypropylene pile
136PDKB



Order as **set** to receive two pieces
 Maximum length 108"

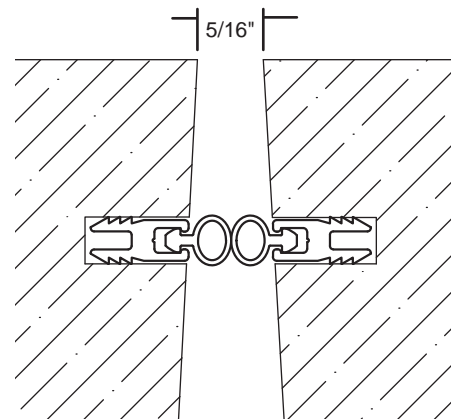
151N NGP-TPV



151S silicone



151V vinyl

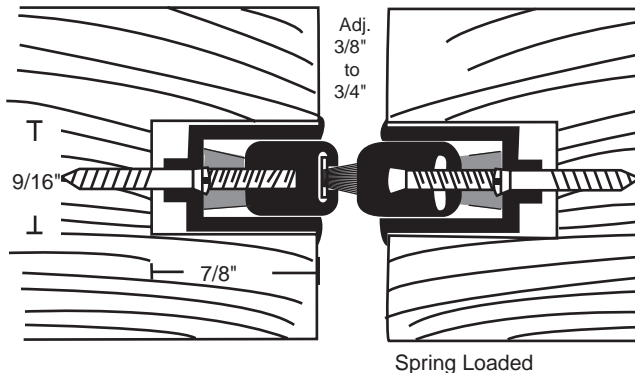


Order as **set** to receive two pieces
 Maximum length 108"

Spring Adjustable Mortised Astragals

- Adjustment screws on 10" centers allow adjustment of the seal without repositioning mounting location.
- Spring-loaded to maintain constant pressure for the most effective seal.

A - clear anodized
B - gold
DKB - dark bronze
Pile is gray
Silicone is black

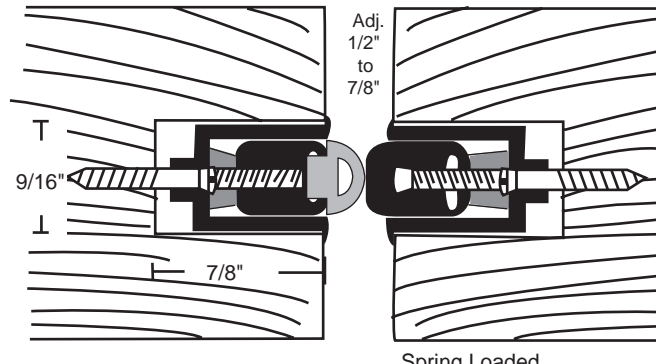


polypropylene pile

144PA
144PDKB

Mortise dimensions 9/16" wide x 7/8"
#8 x 3/4" SMS furnished

Provided as two piece set



silicone

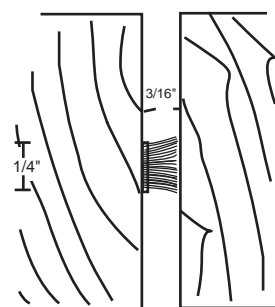
144SA
144SDKB

Mortise dimensions 9/16" wide x 7/8"
#8 x 3/4" SMS furnished

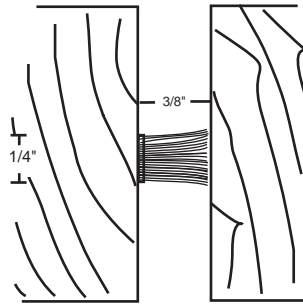
Provided as two piece set



Self-Adhesive Pile Astragals



340P polypropylene pile

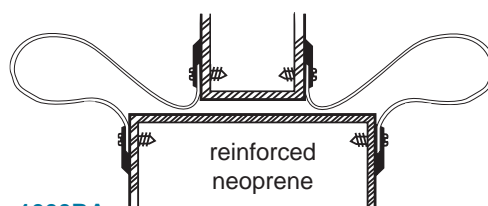


336P polypropylene pile

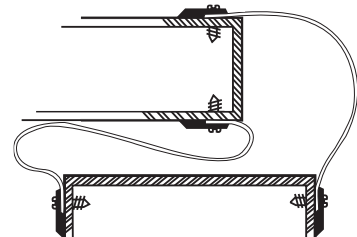
Safety Seal for Double-Acting Doors

Seals and closes gap at heel of double-acting or center pivoted doors.

#6 x 3/4" Stainless Steel Sheet
Metal Screws furnished.



1000RA
1000RB
1000RDKB

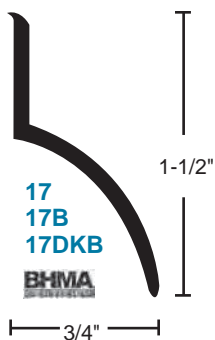
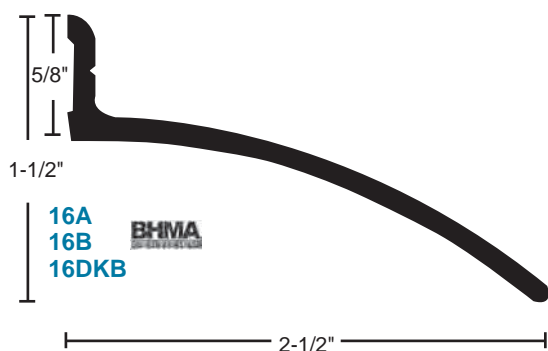


5", 10" or 16" overall widths available - Specify

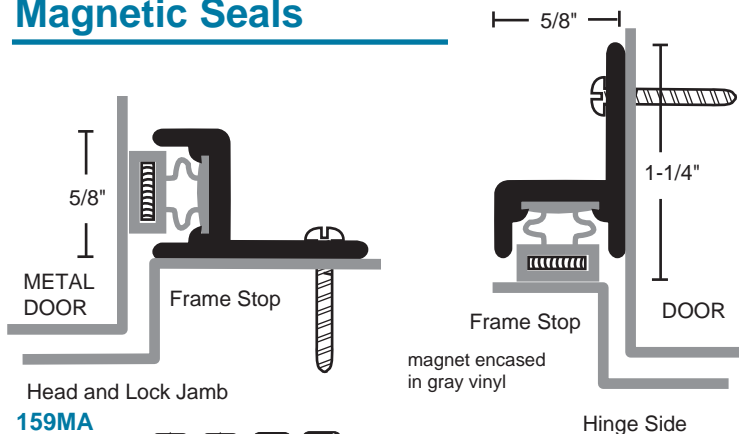
Rain Drip Guards

#6 x 3/4" Stainless Steel
SMS furnished

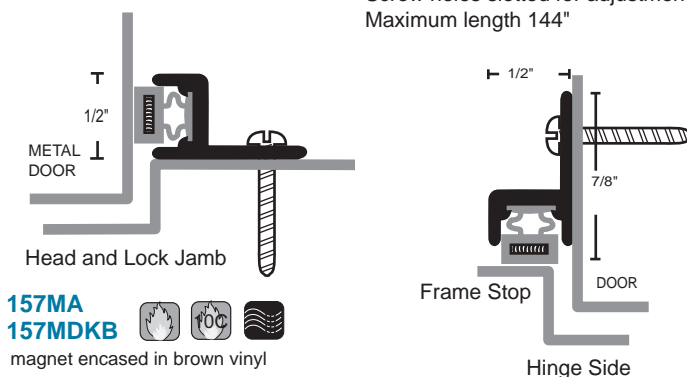
A - anodized aluminum
B - gold
DKB - dark bronze
No Suffix - mll aluminum



Magnetic Seals

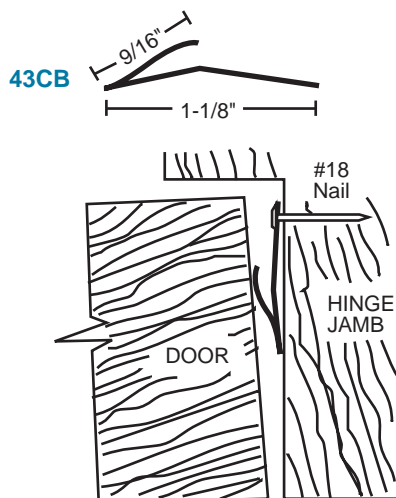


#6 x 3/4" Stainless Steel SMS furnished.
Screw holes slotted for adjustment.
Maximum length 144"



Cushion Bronze Weatherstrip

Cushion material will not coil. Specify lengths required (36", 48", 72", 86", and 96".) Nails not included. Normal installation requires 3/4 lb. of nails per 100 ft. of weatherstrip; install 2" o.c. Zinc plated bronze finish nails available in 1 lb. bags. Wafer head pilot point drive nails make excellent applications for metal jambs, normal installation requires 6 per foot. Install using #41 drill bit. Available with Fast Attach Tape - Specify x "FATT".

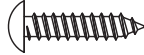




GASKETING FASTENERS



#2 x 1/2" FH
Phillips SMS



#4 x 5/8" TH
Phillips SMS
Use 5/64" Drill



#6 x 1/2" FH
Phillips SMS
Use 7/64" Drill



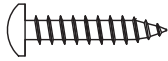
Phillips Head
Top View



Spanner Head
Top View



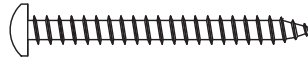
Torx Security
Top View



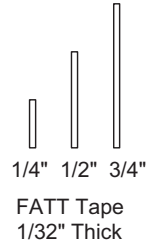
#6 x 3/4" PH
Phillips SMS
Use 7/64" Drill



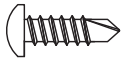
#6 x 1" PH
Phillips SMS
Use 7/64" Drill



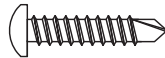
#6 x 1 1/2" PH
Phillips SMS
Use 7/64" Drill



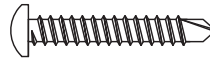
1/4" 1/2" 3/4"
FATT Tape
1/32" Thick



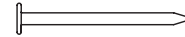
#6 x 1/2"
Phillips
TEK Screw



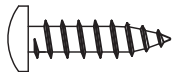
#6 x 3/4"
Phillips
TEK Screw



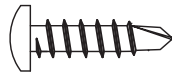
#6 x 1"
Phillips
TEK Screw



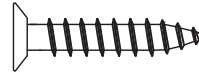
#18 x 7/8" Nail for
Spring/Cushion
Bronze Weather Strip
on Wood Jamb



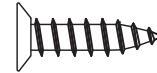
#8 x 3/4" PH
Phillips SMS
Use 9/64" Drill



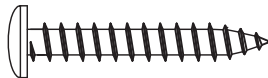
#8 x 3/4"
Phillips
TEK Screw



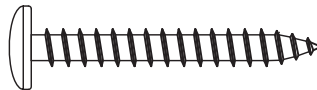
#8 x 1" FH
Phillips U/C SMS
Use 9/64" Drill



#10 x 3/4" FH
Phillips U/C SMS
Use 11/64" Drill



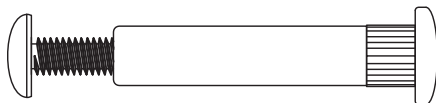
#8 x 1 1/4" TH
Phillips SMS
Use 9/64" Drill



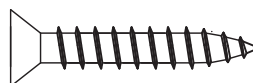
#10 x 1 1/2" TH
Phillips SMS
Use 11/64" Drill



#4 Wafer Head Drive Nail
for Spring/Cushion
Bronze Weather Strip
on Metal Jamb
Use #41 Drill bit for pilot hole



#1/4 - 20 Phillips SNB



#12 x 1 1/4" FH
Phillips SMS

PH = Pan Head
FH = Flat Head
TH = Truss Head
MS = Machine Screw
SMS = Sheet Metal Screw
SNB = Sex Nut & Bolt
U/C = Undercut



GLASS

MALLARDS - Greenheads and Suzies (mallard males & females) are dabbling ducks most prevalent in the Arkansas timber. Mr. Smith's favorite ducks are easily distinguishable with their coloring and "quacks". The Peabody Hotel in Memphis features the mallard as a popular hotel attraction, trotting them out of and into a waiting elevator two times a day.



Glass Product Index

Model	Glass	Page
Pyran® F	Filmed Safety Ceramic	GL2
Pyran® L	Laminated Safety Ceramic	GL3
TEMP20™	Safety Tempered (20 minute)	GL4
SuperLite™ X-90	Safety Rated 90 minute	GL5
Protect3™	Safety Wired	GL1
	Laminated Architectural Glass	GL8
	Polycarbonate	GL8
	Tempered	GL7
	Insulated Tempered	GL7
	Wired	GL6
Specialty Glass	Speciality Glass & Security Glazing	GL11

Model	Glazing Tape	Page
9800C	1/16" Thick Intumescent	GL9
L-GT-16	1/16" Thick Butyl Rubber	GL9
L-GT-116	1/16" Thick Closed Cell PVC Foam	GL9
L-GT-118	1/8" Thick Closed Cell PVC Foam	GL9
L-GT-132	1/32" Thick Closed Cell PVC Foam	GL9
L-GT-316	3/16" Thick Closed Cell PVC Foam	GL9

Model	Glass with Integrated Mini Blinds	Page
L-Mini Blinds 1" IGU	Mini Blind Insulated Glass Units	GL10

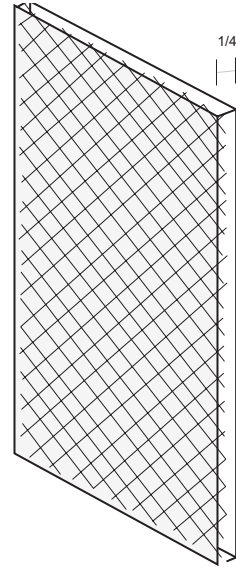
Protect3™

Fire Protective Safety Wired Glass

- 1/4" (6mm) thick
- Fits standard L-FRA100 and L-GLF100 Lite kits
- 3/4" X 3/4" Diamond pattern electrically welded steel wire mesh
- Heavy duty fire-rated and impact-safety rated film
- Maintains integrity when fractured or subjected to a hose stream
- Etched with UL classification on each piece
- Weight: 3.6 lbs./sq. ft.
- STC 28 rating

Fire-rating information:

- Certified by UL to ANSI/UL 9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, L-GT-132 or L-GT-316



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45 Minute	Doors*, Borrowed lites	1,296	54"	54"
60, 90 Minute	Doors*	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites.

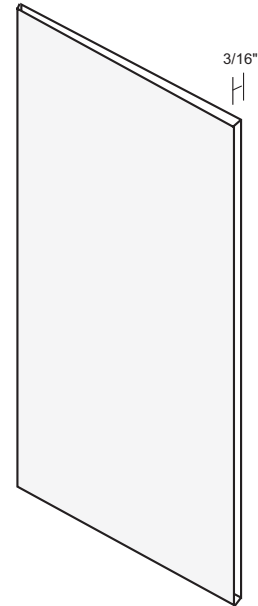
Pyran® Platinum F

Fire-Protective Safety Glass Ceramic

- 3/16" (5mm) thick glass ceramic
- Heavy duty 7 mil durable safety film
- Neutral coloration - clear and wireless
- Advanced manufacturing process eliminates the need for surface polishing
- Etched with UL classification on each piece
- 5-year Manufacturer Warranty
- Weight: 2.5 lbs./sq. ft.
- STC 31 rating

Fire-rating information:

- Certified by UL to ANSI/UL9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, or L-GT-132
- IBC applicable edition may limit maximum size allowable



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45, 60, 90 Minute	Doors* (non-temp rise)	3,708	37-3/4"	98-1/4"
20, 45, 60, 90 Minute	Side-lites, Borrowed lites, Transom lites	4,933	98-1/4"	98-1/4"
180 Minutes	Doors* including temp-rise	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites .

Pyran® Platinum L

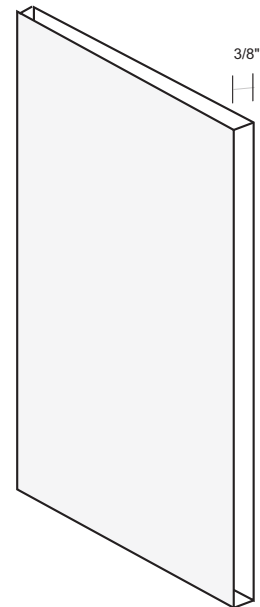
Fire Protective Safety Glass Ceramic

- 3/8" (9mm) thick laminated glass ceramic
- Neutral coloration - clear and wireless
- Advanced manufacturing process eliminates the need for surface polishing
- Etched with UL classification on each piece
- 5 year Manufacturer Warranty
- Weight: 4 lbs./sq. ft.
- STC 36 rating

Fire-rating information:

- Certified by UL to ANSI/UL9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, or L-GT-132

- IBC applicable edition may limit maximum size allowable



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45, 60, 90 Minute	Doors* (non-temp rise)	2,736	36"	75"
20, 45, 60, 90 Minute	Side-lites, Borrowed lites, Transom lites	3,143	75"	75"
180 Minutes	Doors* including temp rise	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites.

TEMP20™

20 Minute Fire Protective Glass

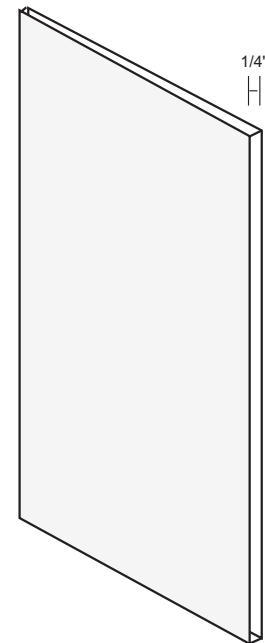
- 1/4" thick tempered fire-rated glass
- Superior optical clarity – clear and wireless
- Economical fire and safety rated glass
- Etched with fire and impact safety classification on each piece
- Manufactured in USA
- Weight: 3 lbs./sq. ft.
- STC 28 rating

Options:

- Available in Insulated Glass Units

Fire-Rating Information:

- Certified by QAI to ANSI/UL10B, ANSI/UL10C, installed with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, L-GT-132, OR L-GT-316.



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20 Minute No hose stream	Doors*	3,204	35-3/4"	88-3/4"

*with fire-rated glass Lite kit

• Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

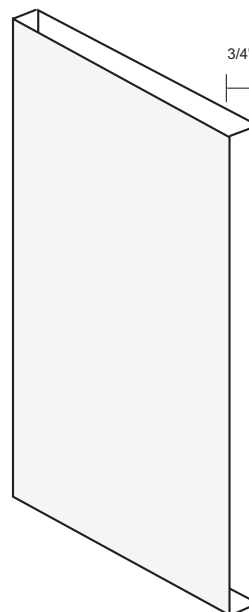
Complies with IBC requirements for use in doors

- This glass is cut to size then heat treated (tempered) to achieve its safety rating properties
- Orders for this product are non-changeable and non-cancellable

SuperLite™ X-90

90 Minute Fire Protective Glass

- 3/4" thick fire protective, safety rated glass
- Superior optical clarity – clear and wireless
- Economical fire and safety rated glass
- Etched with Intertek/Warnock-Hersey listing on each piece
- Manufactured in USA
- Lifetime Manufacturer Warranty
- Weight: 9 lbs./sq. ft.
- STC 38 rating



SIZES AVAILABLE

ORDER	FITS LITE KIT
11" x 11"	L-FRA100-SP 12" x 12"
4" x 34"	L-FRA100-SP 5" x 35"
5" x 26"	L-FRA100-SP 6" x 27"
6" x 21"	L-FRA100-SP 7" x 22"

Fire-Rating Information:

- ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104 with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, or L-GT-132

Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
90 Minute	Doors* including temp rise doors	100	10"	33"

*with fire-rated glass Lite kit

• Impact Safety Rating Information:

Meets ANSI Z97.1, Class B

Meets CPSC 16CFR 1201 (Category I & II)

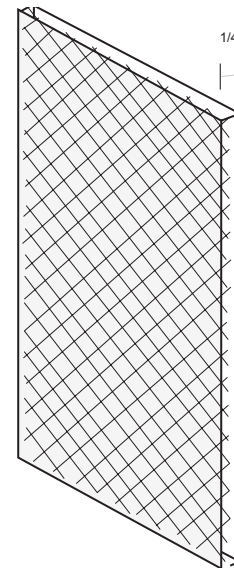
Complies with IBC requirements for use in doors

- Orders for this product are non-changeable and non-cancellable



Fire Protective Wired Glass

- 1/4" (7mm) Thick
- 3/4" X 3/4" Diamond pattern electrically welded steel wire mesh
- Clear glass - ground and polished both sides
- Maintains integrity when fractured or subjected to a hose stream
- Etched with UL classification on each piece
- Weight: 3 lbs./sq. ft.
- STC 28 rating



Fire-rating information: Certified by UL to

- ANSI/UL10C: 20 min. with closed cell PVC foam glazing tape like NGP L-GT-116, L-GT-118, or L-GT-132
45, 60 & 90 min. with NGP 9800C intumescent glazing tape
- ANSI/UL9 with closed cell PVC glazing tape like NGP L-GT-116, L-GT-118, L-GT-132

Rating	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45 Minute*	1,296	54"	54"
60, 90 Minute*	100	10"	33"

*with NGP fire-rated glass Lite Kit

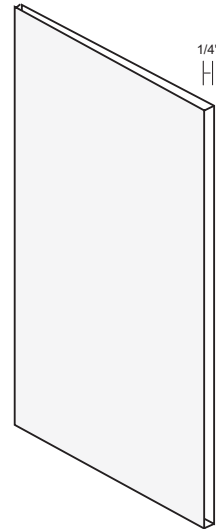
Impact Safety Rating Information:

Meets ANSI Z97.1 Class C

Does **NOT** comply with IBC 2006 or newer requirements for use in doors or sidelights. Allowed only in non-hazardous locations defined in IBC

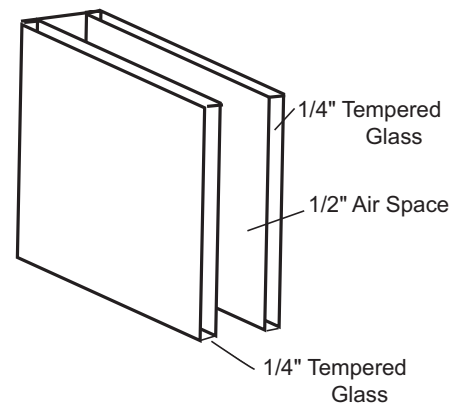
Tempered Glass

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1/4" thick clear heat treated glass
- Approximately 4 times stronger than annealed (ordinary) glass
- Breaks into small harmless fragments
- Can NOT be cut after manufacturing
- 11" minimum height
- Manufactured in USA
- NOT fire-rated
- STC 31 rating



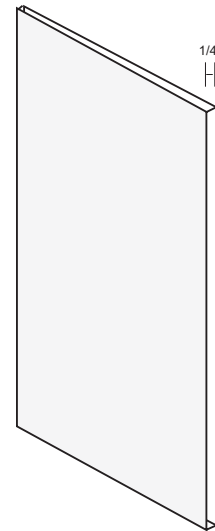
Insulated Tempered Glass

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1" thick - consists of two pieces of 1/4" thick clear tempered glass with 1/2" air space between and butyl seal
- Increased energy efficiency
- Approximately 4 times stronger than annealed (ordinary) glass
- Breaks into small harmless fragments
- Can NOT be cut after manufacturing
- Manufactured in USA
- 5 year manufacturer Warranty
- NOT fire-rated
- STC 35 rating



Laminated Glass

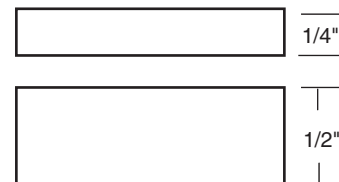
- Impact Safety rated. Complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1/4" thick laminated architectural glass
- Comprised of two plies of glass and a .030" PVB interlayer
- Manufactured in USA
- NON-Fire-Rated
- STC 35 rating



Polycarbonate High Impact

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1, Class A and CPSC 16CFR 1201 (CAT I and II)
- Burglary-resisting material. Meets UL Standard 972
- Available in 1/4", 1/2" thicknesses (specify on order)
- Colorless transparent sheet
- Virtually unbreakable - 300 times stronger than ordinary glass
- Unlikely to shatter or chip when bombarded with thrown rocks, bricks or bottles.
- UV stabilized to resist solar exposure
- Manufactured in USA
- 5 year Manufacturer Warranty
- NOT fire-rated
- Acoustical ratings:
 - 1/4" = STC 29
 - 1/2" = STC 34

Thicknesses Available



Glazing Tape

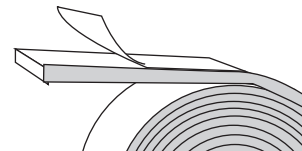
Closed Cell PVC Foam

L-GT-116 3/8" wide x 1/16" thick - 200' rolls

L-GT-118 3/8" wide x 1/8" thick - 100' rolls

L-GT-132 3/8" wide x 1/32" thick - 200' rolls

L-GT-316 3/8" wide x 3/16" thick - 50' rolls



- Closed cell PVC Foam glazing tape with adhesive both sides.
- Color is black
- For use in lite kits on UL10C positive pressure fire-rated wood or steel doors rated up to:
 - 20 minutes with TEMP20™ or Fire Protective Wired glass
 - 90 minutes with Protect3™ or SuperLite™ X-90
 - 180 minutes with Pyran® Platinum F or Pyran® Platinum L

Intumescent

9800C 1/2" wide x 1/16" thick - 17', 21' and 150' rolls

- Self-adhesive glazing tape with protective skin
- Color is black

Butyl Rubber

L-GT-16 3/8" wide x 1/16" thick - 50' rolls

- Butyl rubber glazing tape with adhesive both sides
- Color is black

L-Mini Blinds 1" IGU

Glass with Integrated Mini Blinds

Mini Blind Insulated Glass Units are for Lite Kit and Borrowed Lite Applications.

- Commercial grade hermetically sealed venetian blind system inside insulating glass unit – 1" thick
- Interior or exterior applications
- Clear tempered safety glass both sides
- Magnetic slider, placed on the right or left-hand side of the glass for tilting, lowering and raising functions
- Minimum width 8-5/8", maximum width 80"
- Minimum height 13", maximum height 80"
- Fits low profile L-FRA100-SP lite kit
- Standard blind color: white

Premium Blind Colors Available (additional charge)

- Aluminum Silver (Silver Moon)
- Beige (Sand)
- California Bronze (Espresso)
- Magnolia White (White)
- Slate Gray
- Tan



Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors

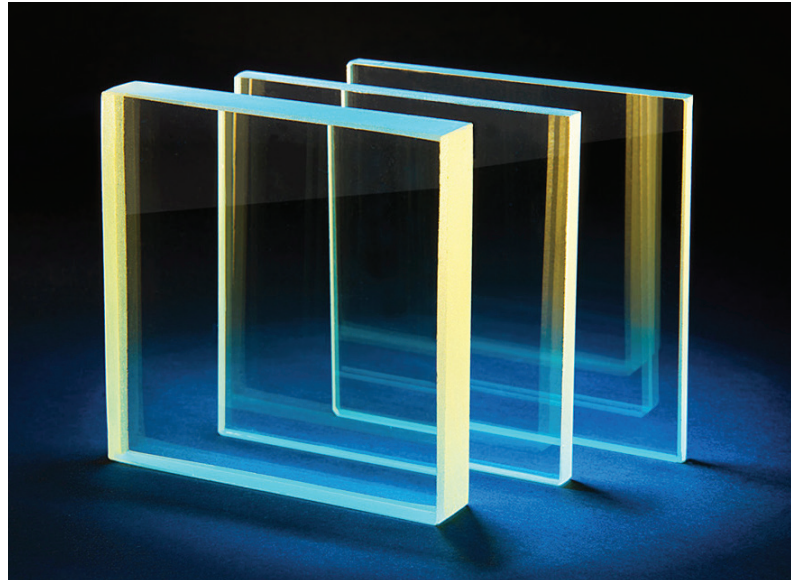
- Orders for this product are non-changeable and non-cancellable

Specialty Glass

Specialty glass is available for lite kit and borrowed lite applications. Contact us with the specification requirements for a quote and lead-time.

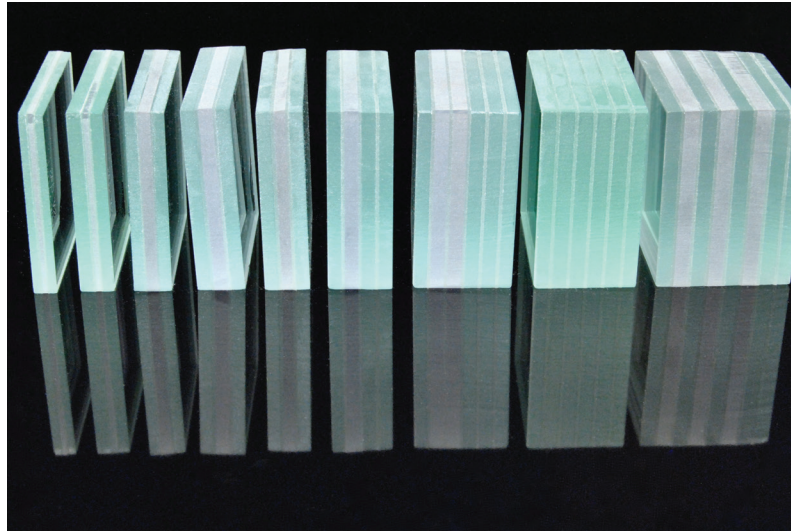
Radiation Shielding (Lead X-Ray Glass)

- Thickness = 5/16" to 5/8"
- Lead equivalency = 1/16" to 3/16"
- Laminated available
- Glass sizes available up to 54" x 108"



Security Glazing

- Security, blast and bullet resistant options
- UL 752 ballistic levels 1-8
- With or without spall protection
- Glass sizes available up to 48" x 96"





National Guard Products, Inc.

Phone: 800-647-7874

Fax: 800-255-7874

www.ngp.com
orders@ngp.com

WIGEON - The American wigeon is a smallish duck that prefers open wetlands and marshes with tall vegetation. A dabbling duck, the wigeon is known to slyly take vegetation and other foods brought to the surface by other ducks. Flocks of wigeons are very wary and rise straight up out of the water to take flight when disturbed.



HOSPITALITY

Hospitality Product Index:

Page

Adhesive Smoke Seal	H4
Door Shoes	H4-H5
Security Door Guard	H6
Security Door Guard Bracket	H7
Vinyl Thresholds	H2-H3





Numerical Index:

SDG-3	H6	92T	H5
SDG-4	H6	99T	H5
SDG-10B	H6	319ET	H5
SDG-26	H6	344	H4
SDG-26D	H6	344NF	H4
SDG-BRKT-WB	H7	398	H2
SDG-BRKT-MW	H7	399	H2
SDG-DS	H6	400	H3
SDG-ET	H6	401	H2
SDG-HO	H6	402X400X400X402	H3
SDG-WS	H6	402X400X402	H3
12T	H5	402	H2
13T	H5	407	H2
35ET	H5	5075	H4
36ET	H5		

Rating Symbols Legend



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



POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes.



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes.



SMOKE & DRAFT CONTROL GASKETING, Classified by UL to ANSI/UL10C and ANSI/UL1784 Category 'H'; complies with IBC and NFPA 105 for use on 'S' labeled Positive Pressure Hollow Metal fire doors rated up to 3 hours, and wood fire doors rated up to 90 minutes.



ACOUSTICAL TESTED to ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, and ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods. Refer to information on pages G4 and G5 for test result data.



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



ANTI-MICROBIAL. Treated with an anti-microbial additive to inhibit the growth of microorganisms.



ANSI/BHMA CERTIFIED Certified products comply with American National Standard for Thresholds ANSI/BHMA A156.21 or Door Gasketing and Edge Seal Systems ANSI/BHMA A156.22, and are listed in the BHMA Certified Products Directory.



Online product listings: www.ul.com/database



Vinyl Thresholds

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

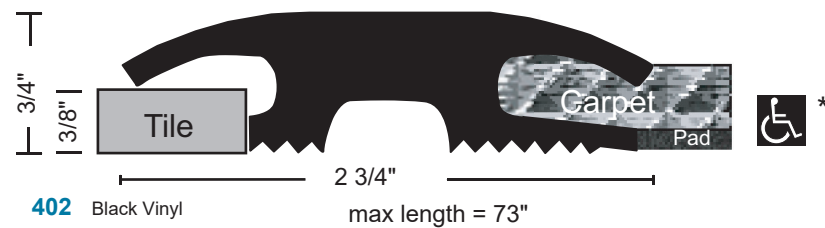
Carpet/Tile Divider Thresholds

All products this page

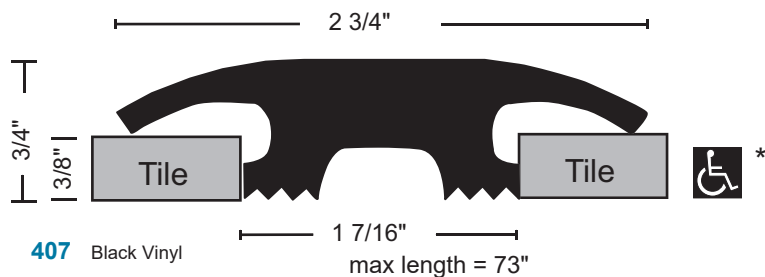


401 Black Vinyl max length = 73"

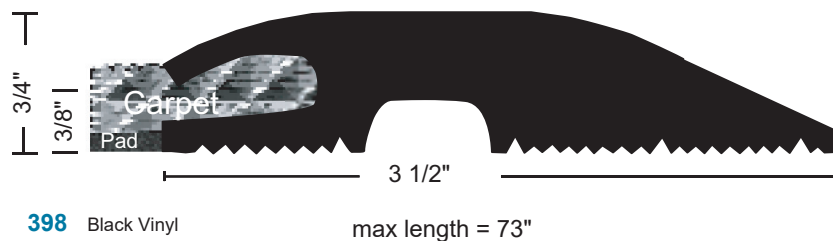
* when installed as illustrated between carpet and/or tile



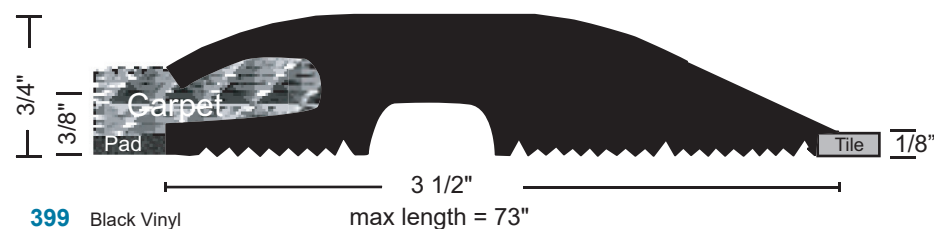
402 Black Vinyl max length = 73"



407 Black Vinyl max length = 73"



398 Black Vinyl max length = 73"



399 Black Vinyl max length = 73"

Vinyl Thresholds

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

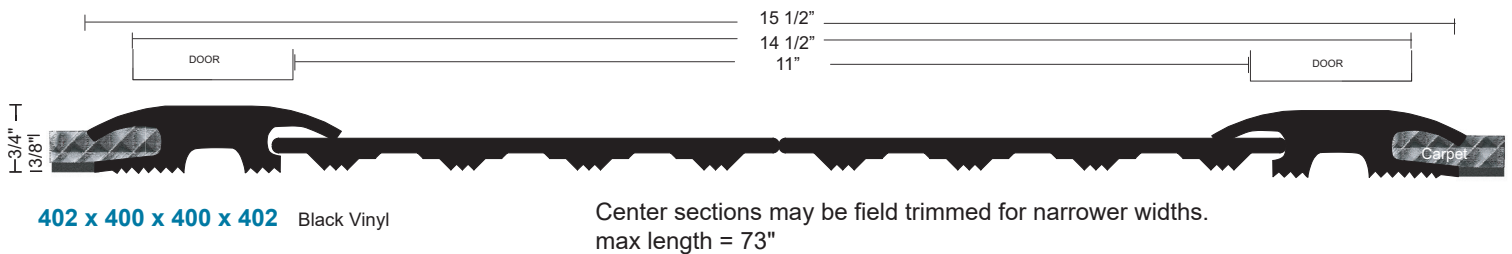
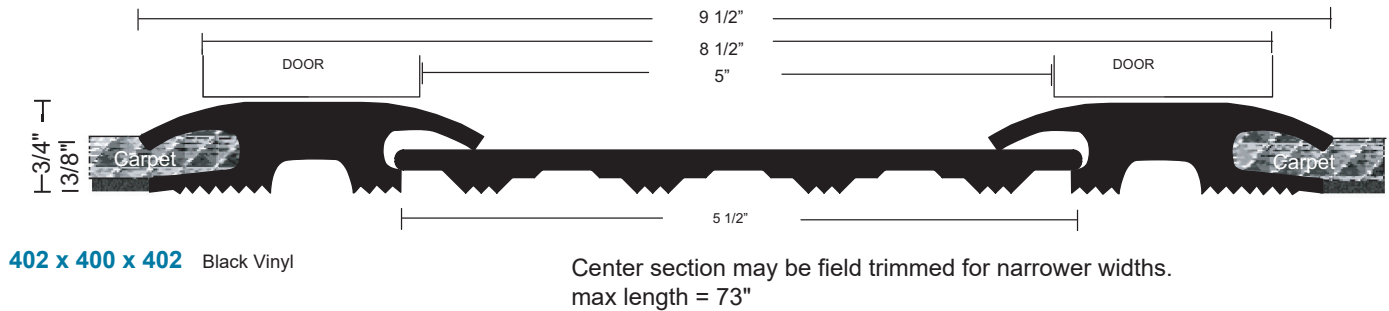
All products this page



* when installed as illustrated between carpet and/or tile



Communicating Door Thresholds

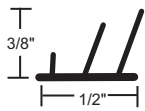




TPE Triple Fin Smoke Seal

Properties:

- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and energy performance
- Adhesive specifications shown on page G9
- Rigid base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
- REACH and RoHS compliant

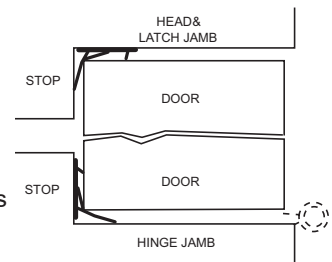


5075B Brown
5075C Charcoal
5075CL Clear
5075W White

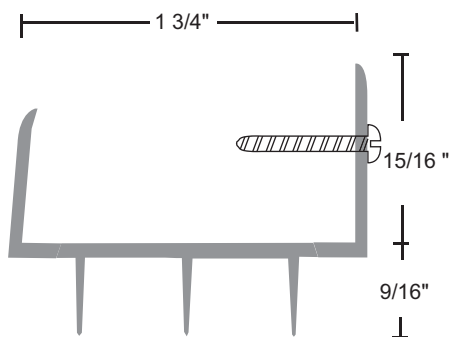


*Anti-microbial not available in clear

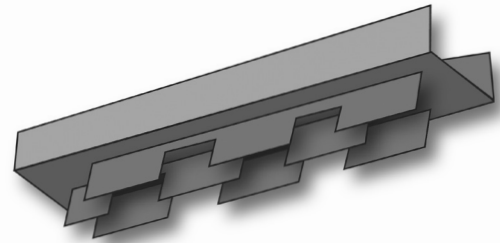
Available in 36", 48", 72", 84", 96" and 108" lengths



Thermoplastic Door Shoe with Soft Vinyl Fins



344-36" Dark Brown
344-48"



Available with Notched Fins "NF" to allow air flow while restricting light infiltration.

344NF-36" Dark Brown
344NF-48"

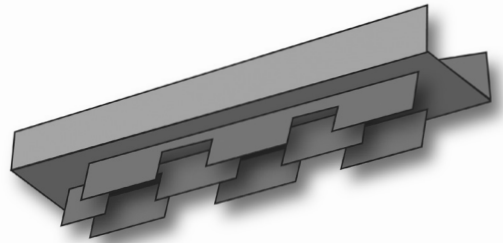
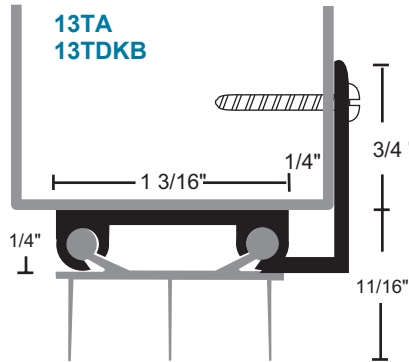
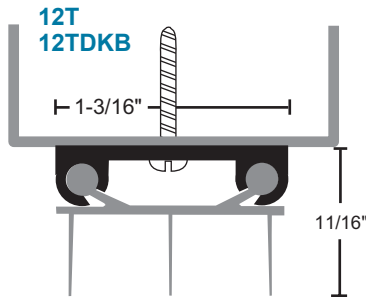


Thermoplastic Door Shoes

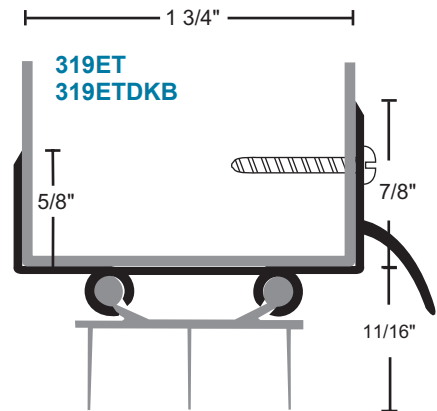
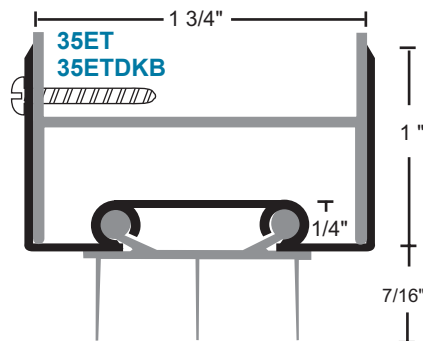
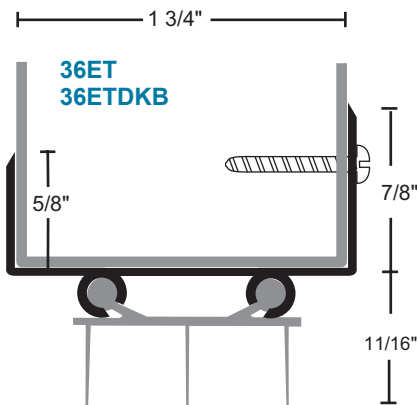
Thermoplastic polymer seal features rigid base and soft vinyl fins.
Available with Notched Fins to allow air flow while restricting light,
suffix NF.

48" maximum length

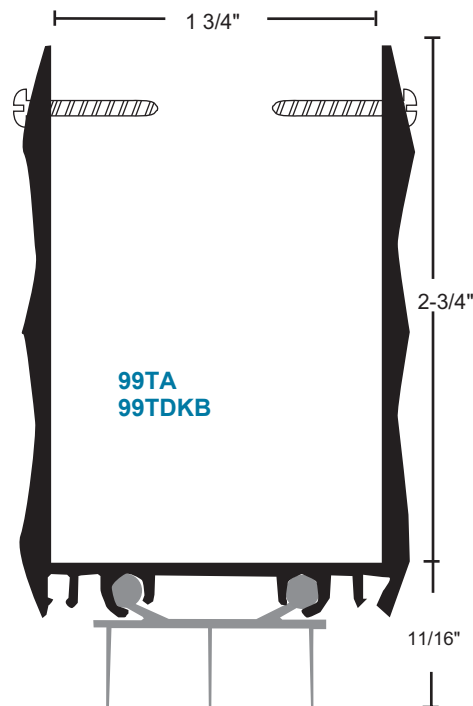
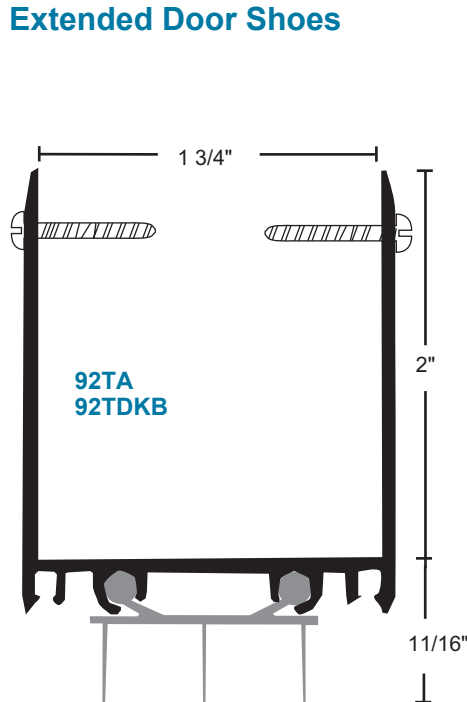
All products this page



Option: Notched Fins - suffix NF.



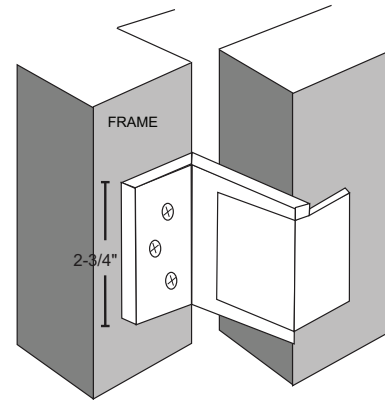
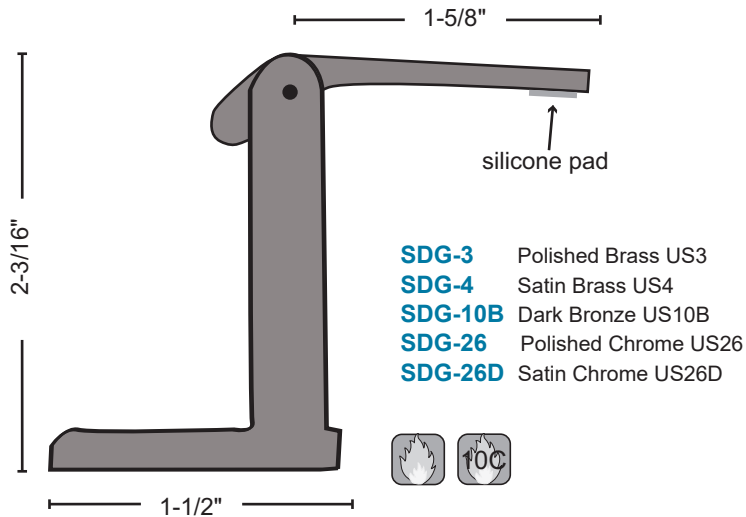
Extended Door Shoes



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

Security Door Guard

- Prevents door from opening, allowing guest or resident privacy when engaged
- Disengage to operate door normally
- Can not be used to prop door open
- Silicone pad at door contact point
- UL listed fire door accessory
- Mount 48" or less above floor for ADA compliance

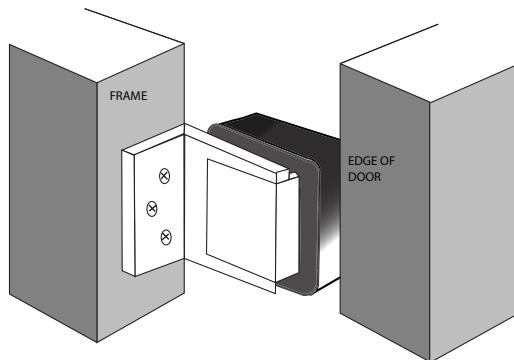


Hold-Open Accessory

SDG-HO



- Foam rubber block with slot
- Slides onto Security Door Guard allowing the door to be held open by housekeeping or service personnel
- Will not mark or mar door or security door guard



Stickers for Retrofit

- Covers holes left in door and frame from removal of swing-bar type door guards



SDG-DS

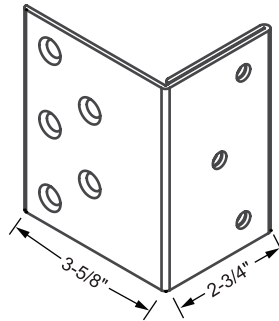
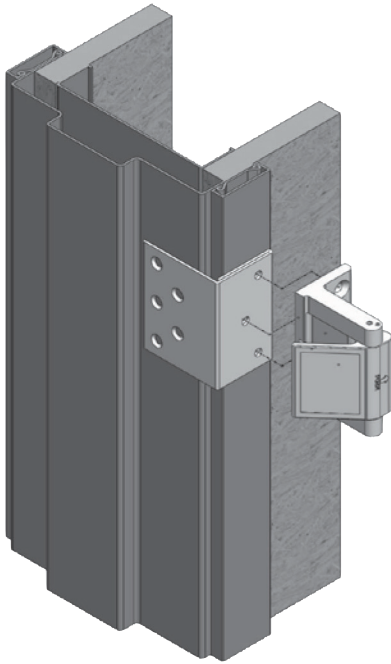
SDG-WS

SDG-ET Emergency Tool (not illustrated)

- Used to deactivate security door guard for emergency access

Security Door Guard Bracket

- Designed for Timely or Redi-Frame pre-finished steel doorframes with snap on trim
- Bracket allows SDG to be installed in the correct position for proper operation



SDG-BRKT-MW Magnolia White
SDG-BRKT-WB Walnut Brown



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LITES & LOUVERS



CANADIAN GEESE - The Canadian goose is the most recognizable goose in North America. Its black and white head and characteristic “honking” call make the Canadian goose an easily identifiable bird. They are known to take up residence in urban environments and to discontinue migrating if conditions are acceptable.



Lites & Louvers Product Index:

Lite Kits

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L-FRA100-RD	Round Low Profile	L22
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L-VGLF-OG	Security Glass with Privacy Panel	L20
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L-700-RX	Steel Self-Attaching	L23
L-1800	Adjustable Blade	L27
L-1900	Fire-rated Fusible Link	L26
L-VRSG-2	Security Grille	L28
L-VRSG-3	Security Grille (Both sides)	L28
L-Clips	H.M. Door Reinforcement	L30
Lite Kit and Louver Fasteners		L30

Rating Symbols Legend

 **POSITIVE PRESSURE - CERTIFIED by UL to ANSI/UL10C**; complies with IBC, NFPA 80 and NFPA 252 for use on Hollow metal fire doors rated up to 3 hours and Wood fire doors rated up to 90 minutes (some ratings vary as noted).

 **CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B**; complies with NFPA 80 and NFPA 252 for use on Hollow metal fire doors rated up to 3 hours and Wood fire doors rated up to 90 minutes (some ratings vary as noted).

Materials

Lite Kits are available in Cold Rolled Steel, Galvanneal Steel, and Stainless Steel (type 304).

Louvers are available in Cold Rolled Steel, Galvanneal Steel, and Aluminum Alloy 6063-T5.

Powder Coat Finish

The standard finish for each product is indicated on the catalog page and in the price list and will be provided unless one of the following optional finishes is indicated. See www.ngp.com for color chart:

(GPZ) Gray Primer	(BPR) Beige Primer (matches Steelcraft)
(DKB) Dark Bronze	(PTY) Putty (matches Anemostat Beige)
(T) Tan	(CAB) California Bronze (matches Anemostat)
(GBL) Gloss Black	(W) White
(MBL) Matte Black	(B) Brass (Gold)
(TBL) Textured Black	(WB) Walnut Brown (matches Timely Browntone)
(ASL) Aluminum Silver	(MW) Magnolia White (matches Timely Western White)

Custom colors and color matching available – Consult customer service for details

Corrosion Resistant Sealer: A polymeric green seal (non-chrome) corrosion resistance extender is applied under all NGP powder coat finishes. Laboratory salt spray tests prove a dramatic increase in corrosion resistance on steel products with this sealer applied to the metal prior to the powder coat finish.

Salt Spray Test Results: Steel lite kits with NGP's corrosion resistant sealer and powder coat finish withstood 1,248 hours without failing. This is 2-1/2 times longer than the protection provided by powder coating only.

Zinc Electro-Plating

Available on steel lite kits and louvers for extra corrosion resistance; recommended for exterior, wet areas, and coastal salt air locations. Zinc electro-plating will be applied prior to the powder coat finish. Specify on order "Zinc EL-Plate" and powder coat color desired. Not available on insect screen.

How to Order Example

Quantity	Model#	Finish	Cut-out Size (width x height)	Options
10	L-FRA100-SP	DKB	24" x 30"	for 1" thick glass

Lite Kit Technical Information

Fire-Rated Lite Kits: Lite Kits installed in fire-rated doors require fire-rated glass and glazing tape.

Impact Safety Rated Glass requirements: IBC requires all individual glazed areas in swinging doors to be impact safety-rated to comply with the CPSC 16CFR 1201 Category I or II.

Accessibility Standard Compliance:

ADA Standards for Accessible Design, requires that the bottom of the glass panel in a vision lite be located 43" maximum above the floor. An exception for vision lites with the lowest part more than 66" above the floor are not required to comply.

Louver Technical Information

Steel louvers over 46" wide and aluminum louvers over 36" wide must be furnished as two louver cores mounted in one louver frame with a mullion in between. All Louvers over 64" or more in height will be furnished as two louver cores mounted in one frame with a mullion in between.

LEED Green Building

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council. Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website www.ngp.com

Health Product Declarations (HPD) may be viewed on our website www.ngp.com

National Guard Products sustainability report may be viewed on our website www.ngp.com

Contact us regarding our end of use product recycling program.

Buy American Requirements

Buy American Act

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American certificate may be obtained on our website www.ngp.com

Federal American Recovery and Reinvestment Act

More than 99% of our products qualify as manufactured products produced in the United States as manufactured goods, as defined in OMB Guidance (176.140; 176.70(a) (2) (ii); 176.160, complying with the Federal American Recovery Reinvestment Act, ARRA-2009. Contact us for a Buy America ARRA certificate for your project.

Buy America

More than 99% of our products comply with Buy America Requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661. Contact us for a Certificate of Compliance for your project.

Components of unknown origin are considered to have been produced or manufactured outside the United States.



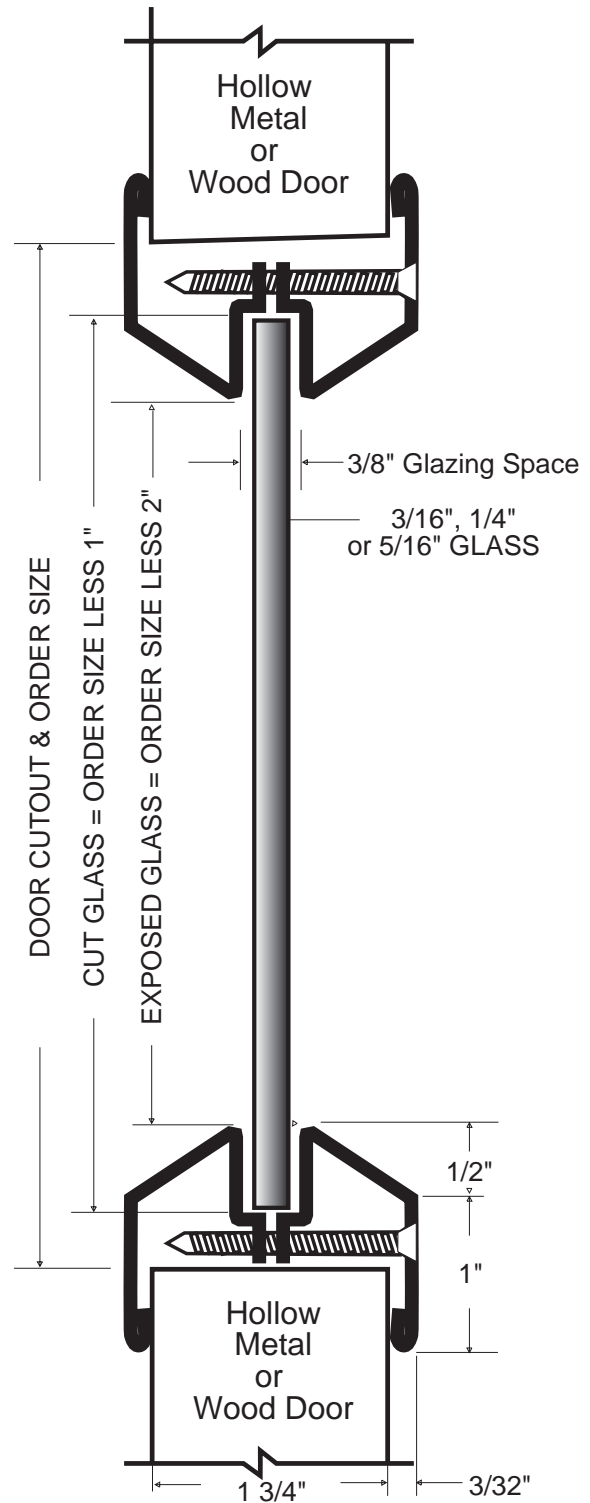
L-FRA100

Low Profile Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4" or 5/16" Glass

- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Counter-sunk mounting screw-holes
- #8 x 1-3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick

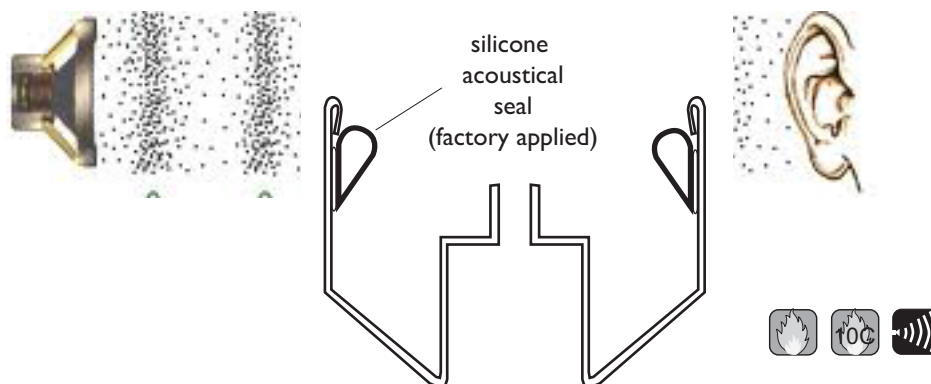


Designed for use on 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16".

L-FRA100 STC & L-FRA100-SP STC

Low Profile Sound Rated Lite Kit Option - Suffix "STC"

Silicone acoustical seal applied to reduce sound transmission



Acoustical Testing performed at Intertek Testing, Inc. to:

ASTM E 90, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.*

ASTM E 413, *Classification for Rating Sound Insulation.*

ASTM E 1332, *Standard Classification for Rating Outdoor-Indoor Sound Attenuation.*

ASTM E 2235, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.*

STC Ratings:

• Protect3™	STC 28
• TEMP20™	STC 28
• Wired	STC 28
• Polycarbonate 1/4"	STC 29
• Pyran® Platinum F	STC 31
• Tempered 1/4"	STC 31
• Polycarbonate 1/2"	STC 34
• Insulated Tempered 1"	STC 35
• Laminated 1/4"	STC 35
• Pyran® Platinum L	STC 36
• Laminated 5/8"	STC 40



L-FRA100-SP

Low Profile Lite Kit for Variable Door and/or Glass Thickness

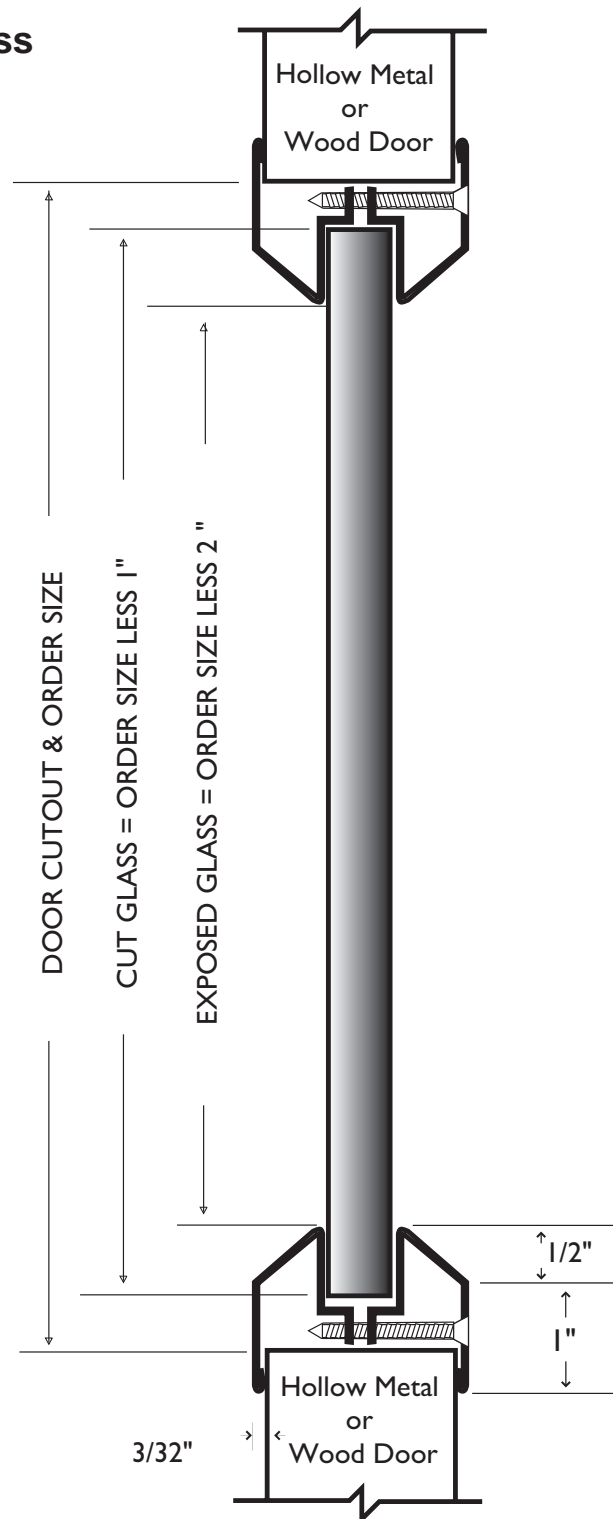
- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Counter-sunk mounting screw-holes
- #8 Phillips head SMS
- Available in uneven and fractional sizes
- Gray Primer (GPZ) powder coat finish

Required Information

- Specify glass thickness on order
- Specify door thickness on order if other than 1-3/4"

Available Options

- Powder coat color options - see page L2
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick

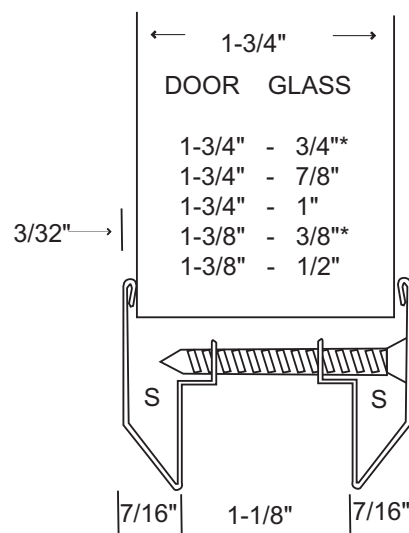
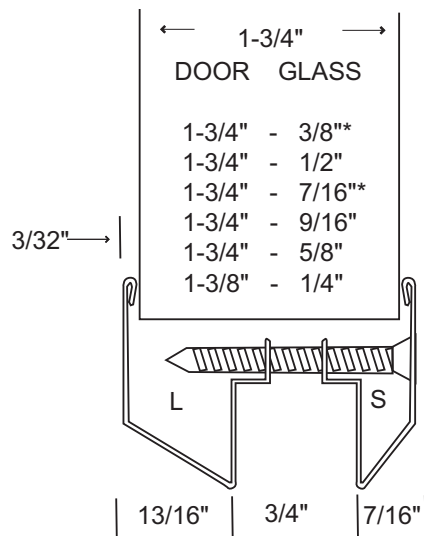


L-FRA100-SP Glass and Door Combinations

Details shown are for 1-3/4" door thickness.

Only configurations shown are available

*Requires the use of GT-316 Glazing tape





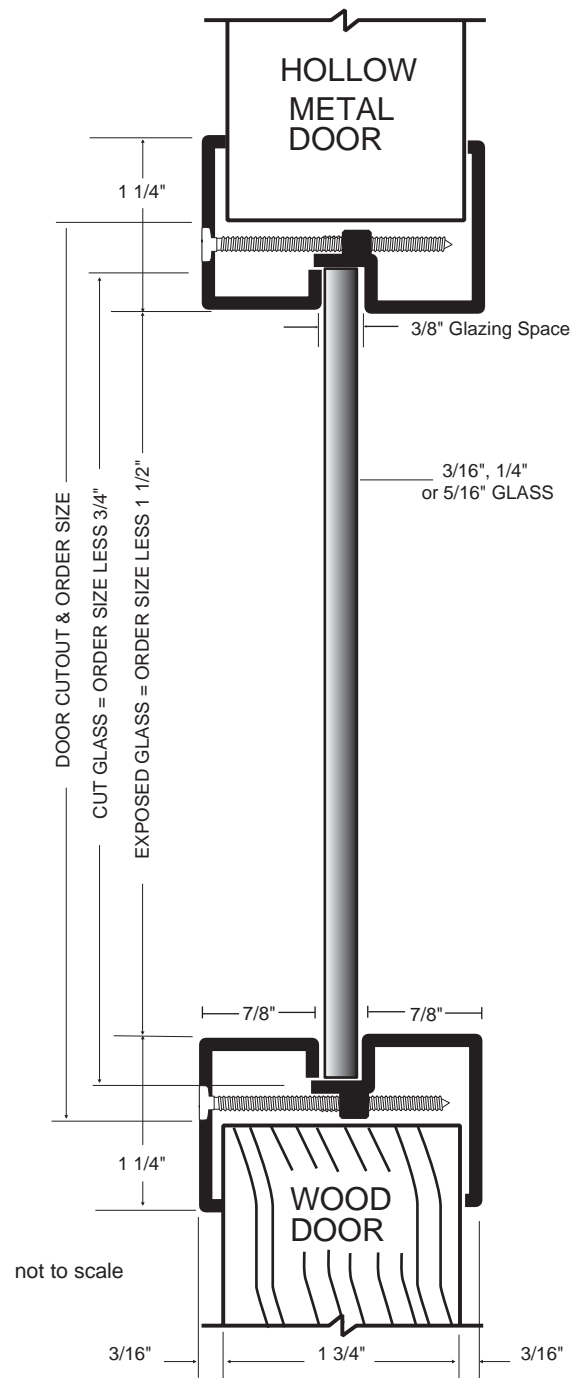
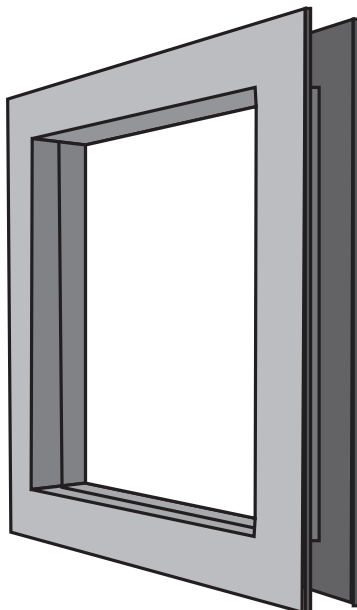
L-GLF100

Square Profile Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4", or 5/16" Glass

- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- #6 x 1-3/4" Phillips Truss Head SMS
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- False mullion bars (page L9)
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick



Designed for use on 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16".

False Mullion Lite Kits

- 1" wide steel channel
- Fits L-GLF100, L-GLF100-SP, L-GLF100-TB, L-GLF100-SP-TB, L-SG100, L-SG100-TB
- Mullion bars welded into both sides of Lite Kit
- Finished to match Lite Kit

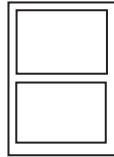
Available Options

- * Zinc electro-plating

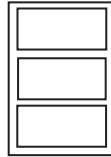
To Order

Specify Lite Kit x G# (i.e.: G2, G3, G4 etc.)

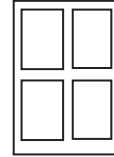
If other than as illustrated, provide detail & suffix G-SP



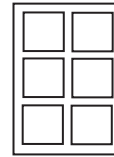
G2
(1 Bar)



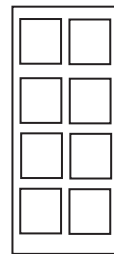
G3
(2 Bars)



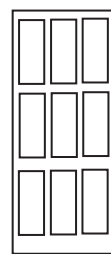
G4
(2 Bars)



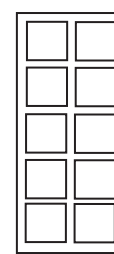
G6
(3 Bars)



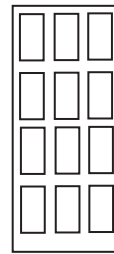
G8
(4 Bars)



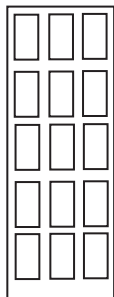
G9
(4 Bars)



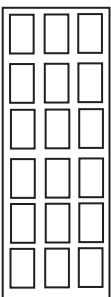
G10
(5 Bars)



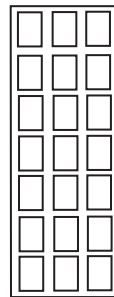
G12
(5 Bars)



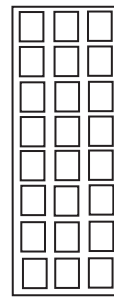
G15
(6 Bars)



G18
(7 Bars)



G21
(8 Bars)



G24
(9 Bars)





L-GLF100-SP

Square Profile Lite Kit for Variable Door and/or Glass Thickness

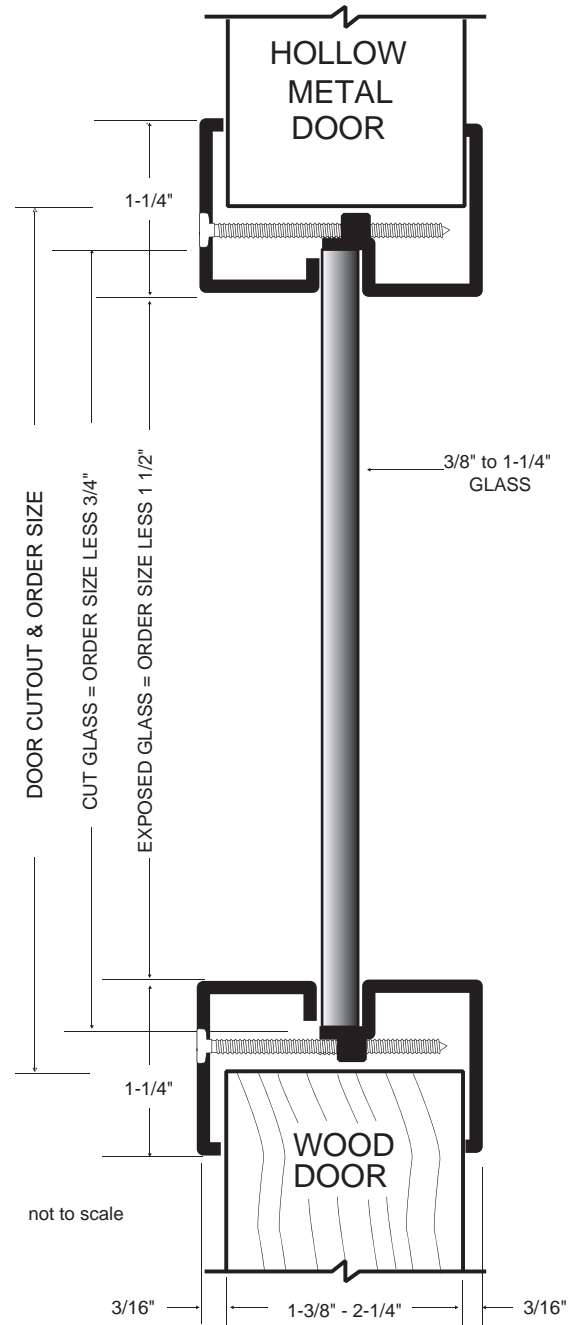
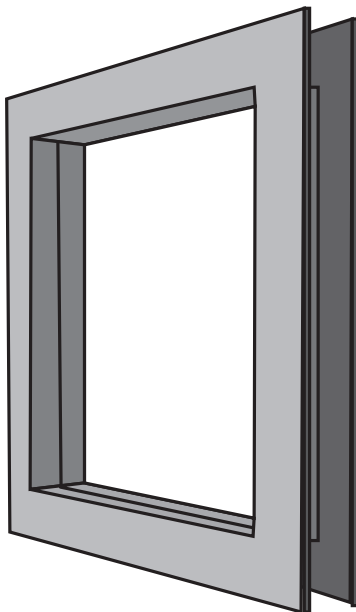
- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- #6 Phillips Truss Head SMS
- Gray Primer (GPZ) powder coat finish

Required Information

- Specify glass thickness on order
- Specify door thickness on order if other than 1-3/4"

Available Options

- Powder coat color options - see page L2
- False mullion bars (Page L9)
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick lead



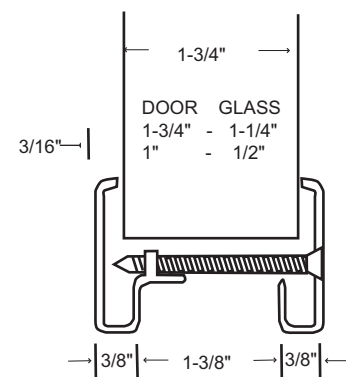
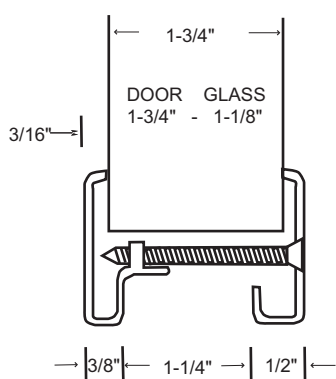
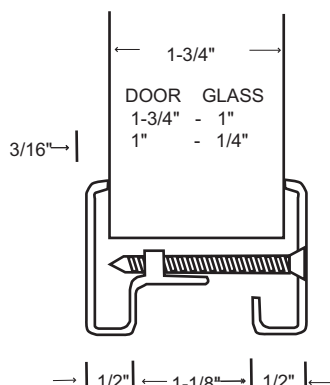
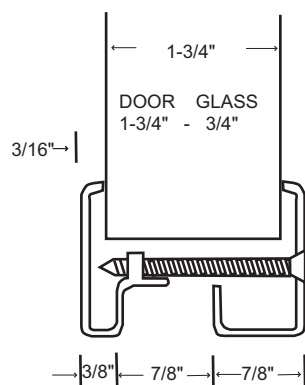
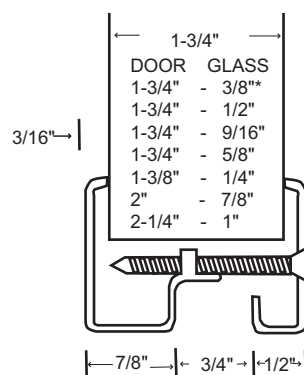
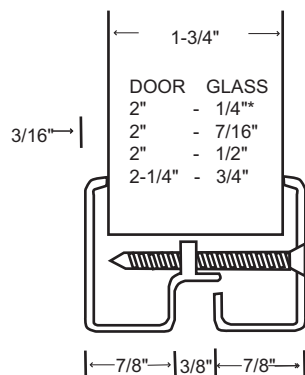
L-GLF100-SP and L-GLF100-SP-TB Glass and Door Combinations

Details shown are for 1-3/4" door thickness

Only Configurations shown are available

*Requires the use of GT-316 Glazing tape

Thru-bolts available for 1-3/4" thick doors only





L-GLF100-TB

Thru-bolted Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4", or 5/16" Glass

- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- Thru-bolts for 1-3/4" door
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- False Mullion bars (Page L9)
- Torx Security Thru-bolts
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick



L-GLF100-SP-TB

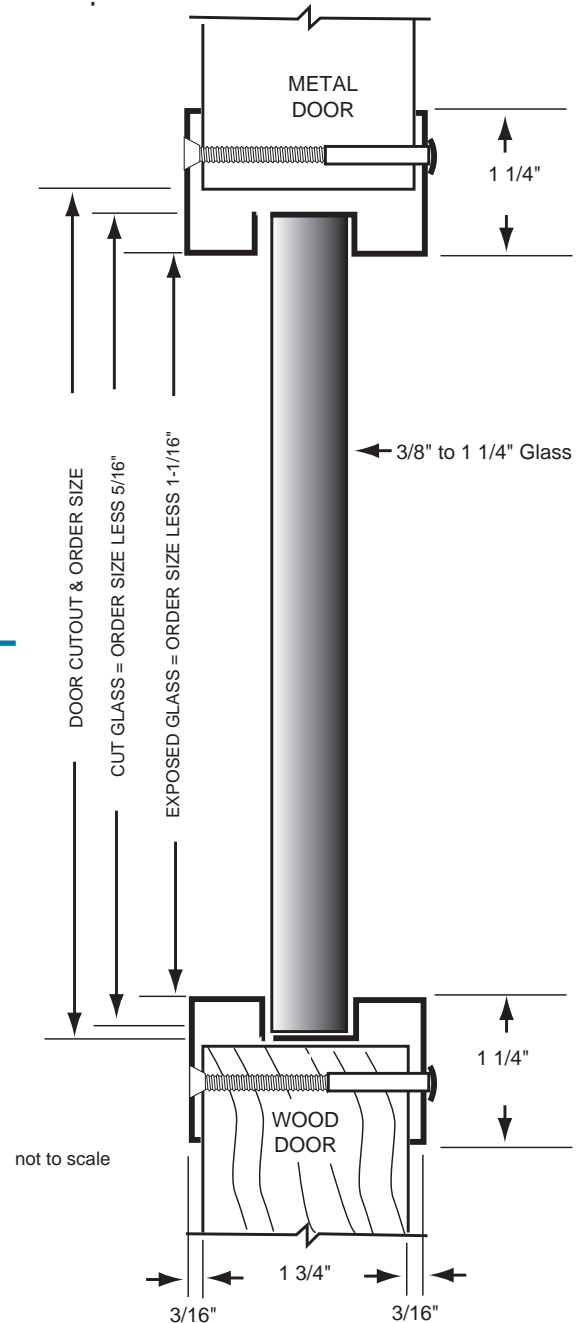
Thru-bolted Lite Kit for 1-3/4" Thick Doors and Variable Glass Thickness 3/8" to 1-1/4"

- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- Thru-bolts for 1-3/4" door
- Gray Primer (GPZ) Powder coat finish

Required Information: Specify Glass thickness

Available Options

- Powder coat color options - see page L2
- False Mullion bars (Page L9)
- Torx Security Thru-bolts
- Galvanneal - A40 steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick



Designed for 1-3/4" thick Doors manufactured within door industry tolerance of +/- 1/16"

L-SG100

Self Attaching Security Grille Lite Kit for Variable Door and/or Glass Thickness

- 18 ga. cold rolled steel
- 16 ga. steel 3/4" x 3/4" security grille welded in both sides
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- #6 Phillips truss head screws
- Gray Primer (GPZ) powder coat finish

Required Information

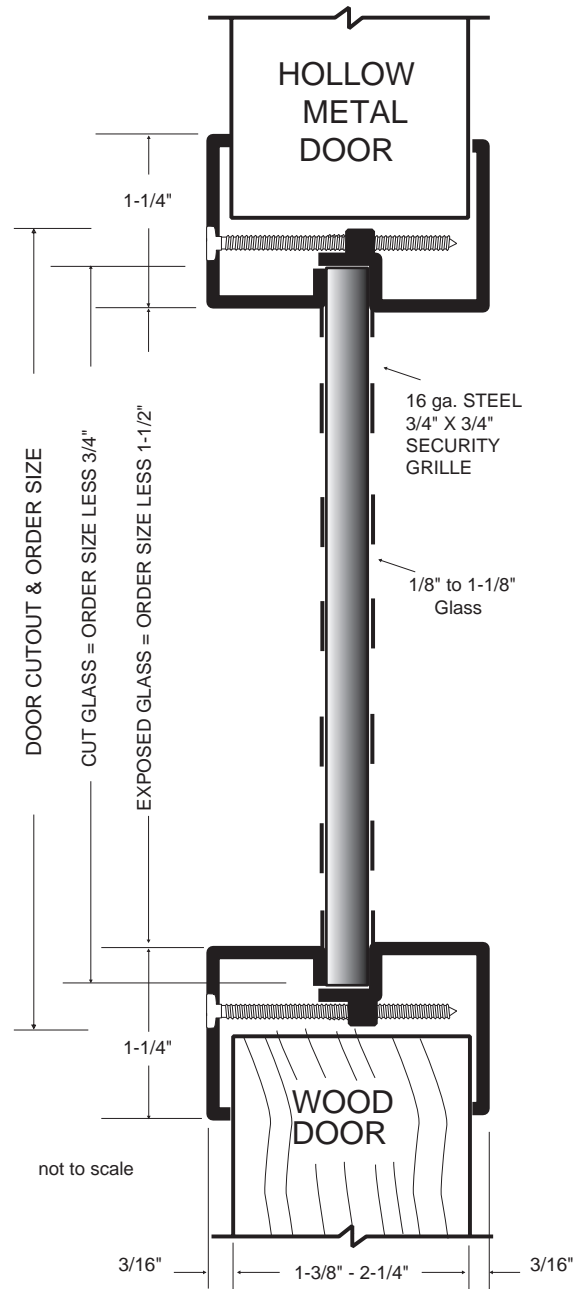
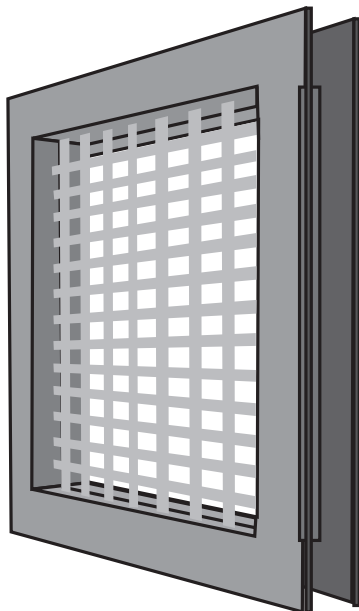
- Specify glass thickness on order
- Specify door thickness on order if other than 1-3/4" (See page L15 for available sizes)

Available Options

- Powder coat color options - see page L2
- False mullion bars (Page L9)
- Torx security screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & glazing tape - See Glass Section
- Lead lining - .030" thick



*up to 90 minutes.





L-SG100-TB

Thru-Bolted Security Grille Lite Kit for 1-3/4" Thick Doors and Variable Glass Thickness

- 18 ga. cold rolled steel
- 16 ga. steel 3/4" x 3/4" security grille welded in both sides
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- Thru-bolts for 1-3/4" door
- Gray Primer (GPZ) powder coat finish

Required Information;

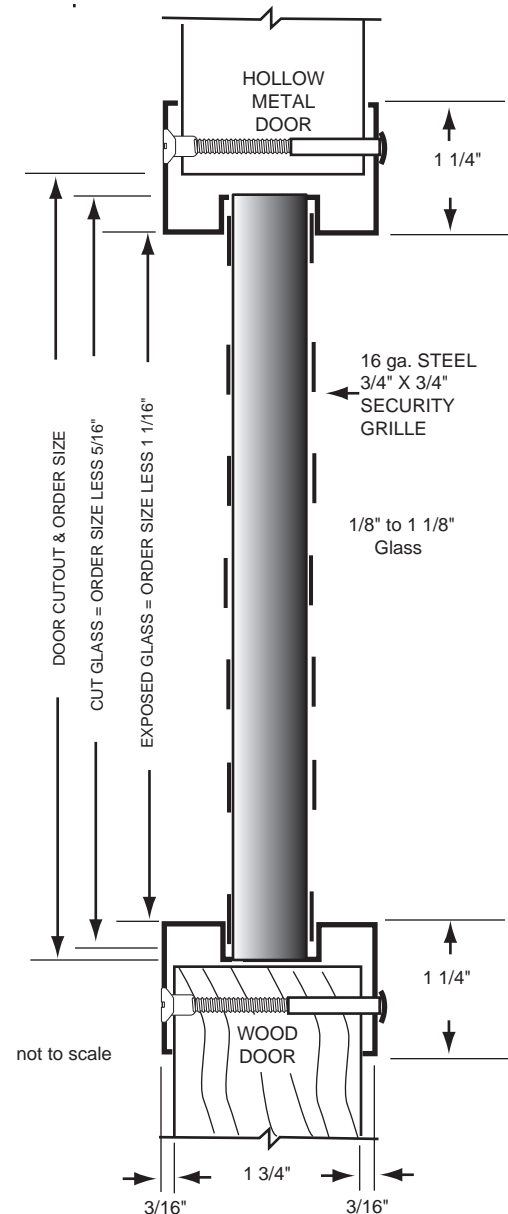
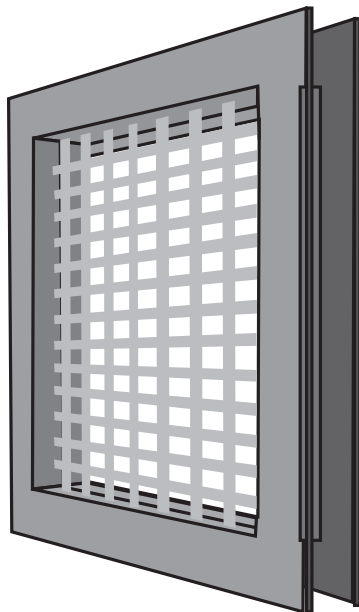
- Specify glass thickness on order
(See page L15 for available sizes)

Available Options

- Powder coat color options - see page L2
- False mullion bars (Page L9)
- Torx security Thru-bolts
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick



*up to 90 minutes.



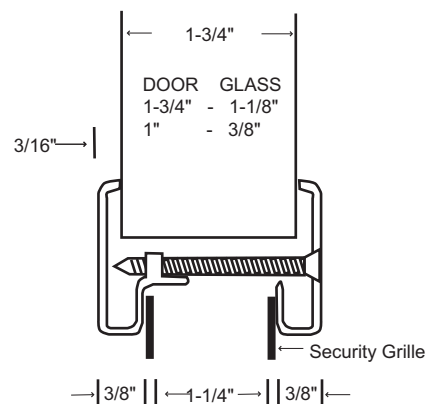
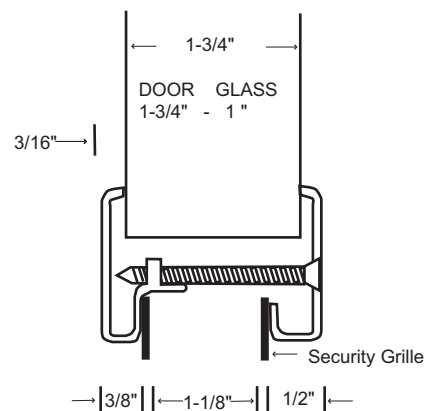
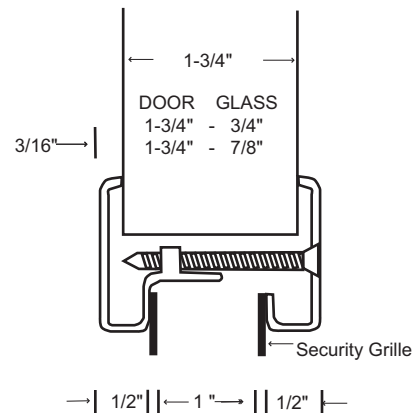
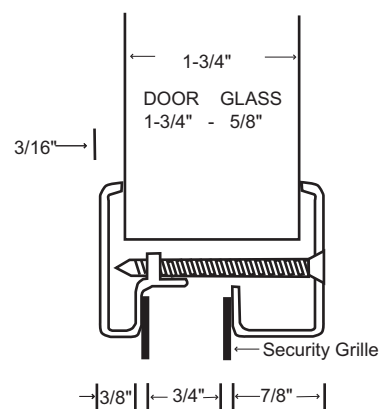
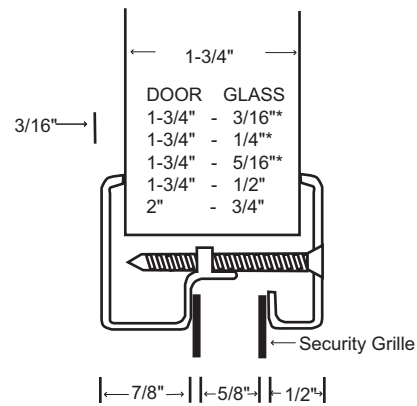
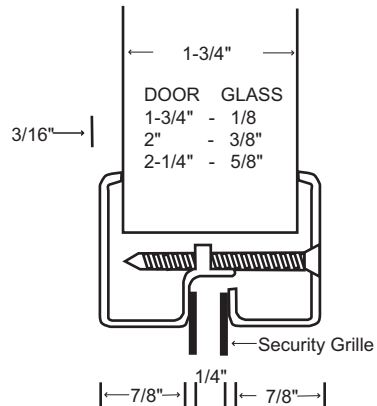
L-SG100 and L-SG100-TB Glass and Door Combinations

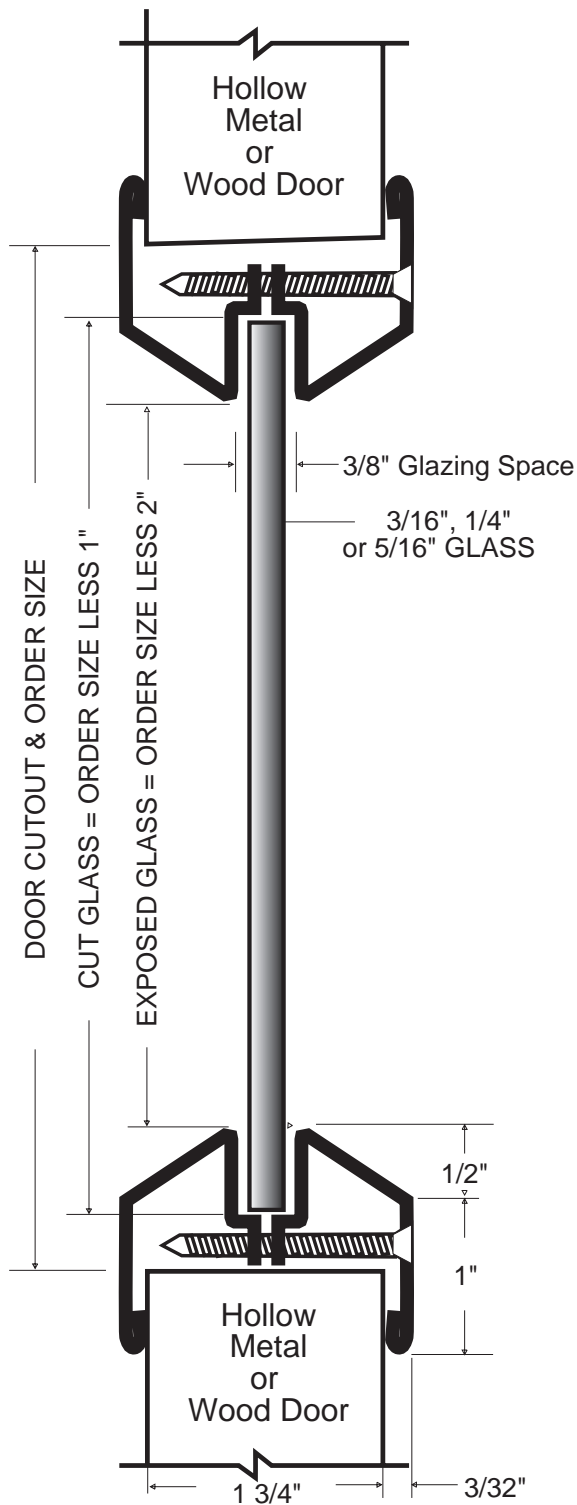
Details shown are for 1-3/4" door thickness

Only Configurations shown are available

*Requires the use of GT-316 Glazing tape

Thru-bolts available for 1-3/4" thick doors only





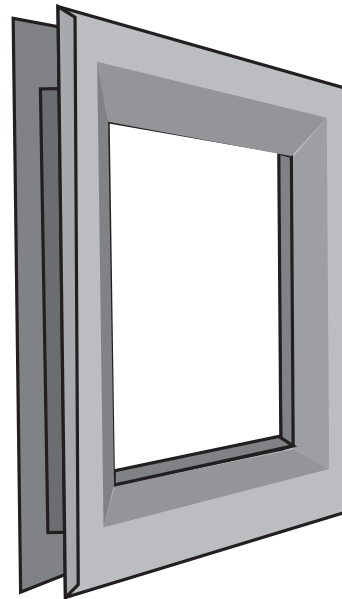
L-CVFM-SS

Stainless Steel Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4", or 5/16" Glass

- 18 ga. Type 304 stainless steel
- Mitered and welded corners
- Countersunk mounting screw-holes
- Available in uneven and fractional sizes
- #8 x 1-3/4" Phillips head SMS
- #4 satin finish

Available Options

- 18 ga. Type 316 stainless steel –
Specify L-CVFM-316SS
- Torx Security Screws
- Glass & Glazing tape - See Glass Section
- Lead Lining - .030" thick



Designed for use on 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16".

L-CVFM-SS-SP

Stainless Steel Lite Kit for Variable Door and/or Glass Thickness

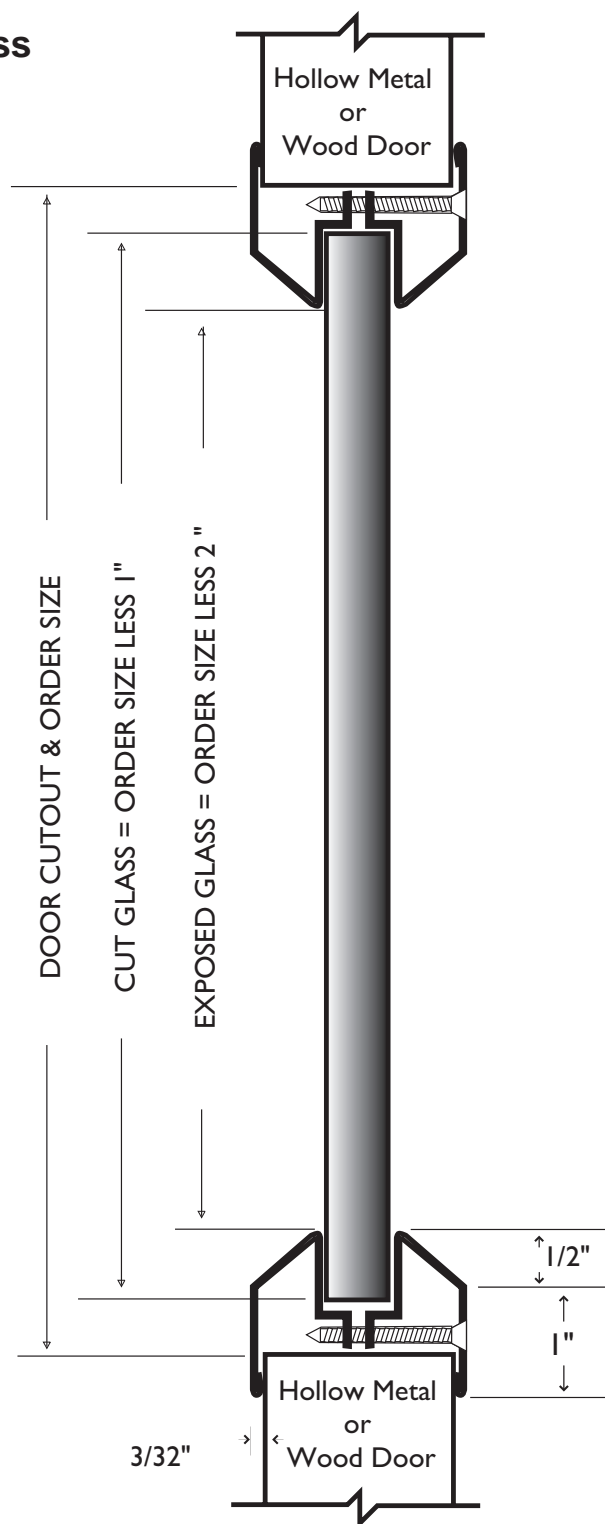
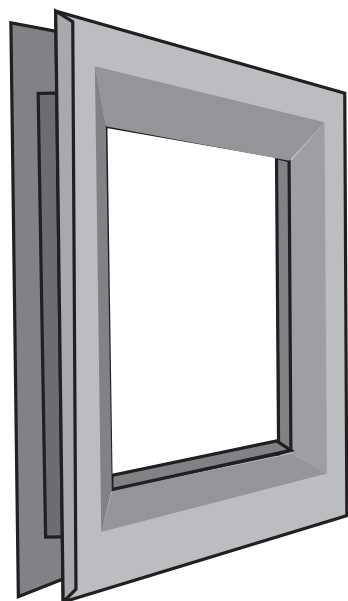
- 18 ga. Type 304 stainless steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Counter-sunk mounting screw-holes
- #8 Phillips head SMS
- Available in uneven and fractional sizes
- #4 satin finish

Required Information

- Specify glass thickness on order
- Specify door thickness on order if other than 1-3/4"

Available Options

- 18 ga. Type 316 stainless steel –
Specify L-CVFM-316SS-SP
- Torx Security Screws
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick



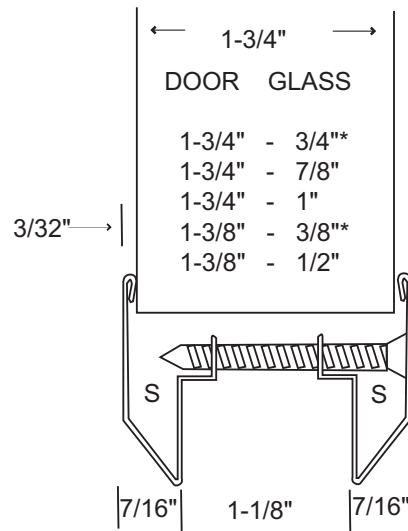
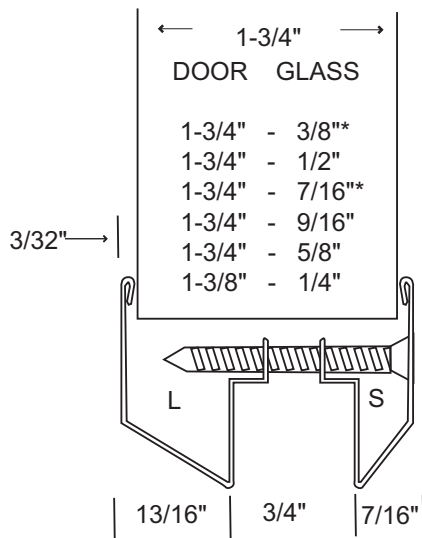


L-CVFM-SS-SP Glass and Door Combinations

Details shown are for 1-3/4" door thickness.

Only configurations shown are available

*Requires the use of GT-316 Glazing tape



L-FRA100-ALUM

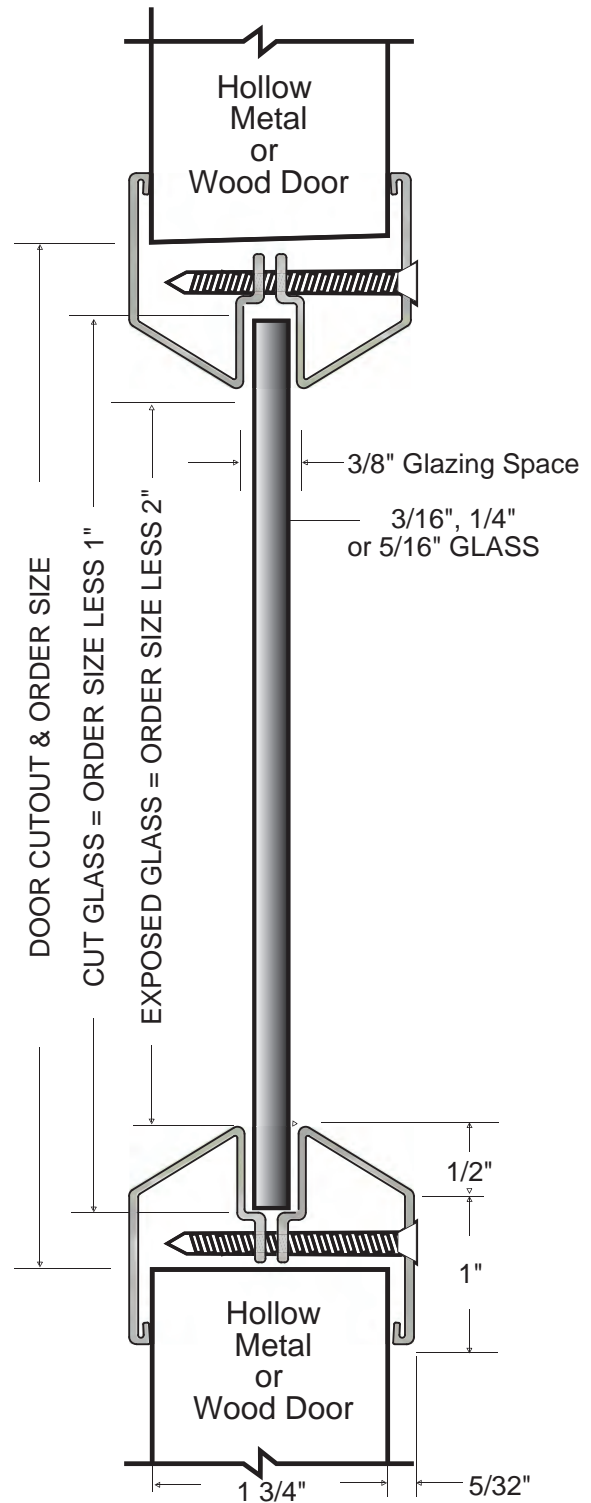
Aluminum Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4" or 5/16" Glass

- .050 extruded aluminum
- Mitered and welded corners
- Welded reinforcing clips at corners
- Counter-sunk mounting screw-holes
- #8 x 1-3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Aluminum Silver (ASL) powder coat finish

Available Options

- Powder coat color options - see page L2
- Torx Security Screws
- Glass & Glazing tape - See Glass Section
- Lead lining - .030" thick

NOT FIRE-RATED



Designed for use on 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16".



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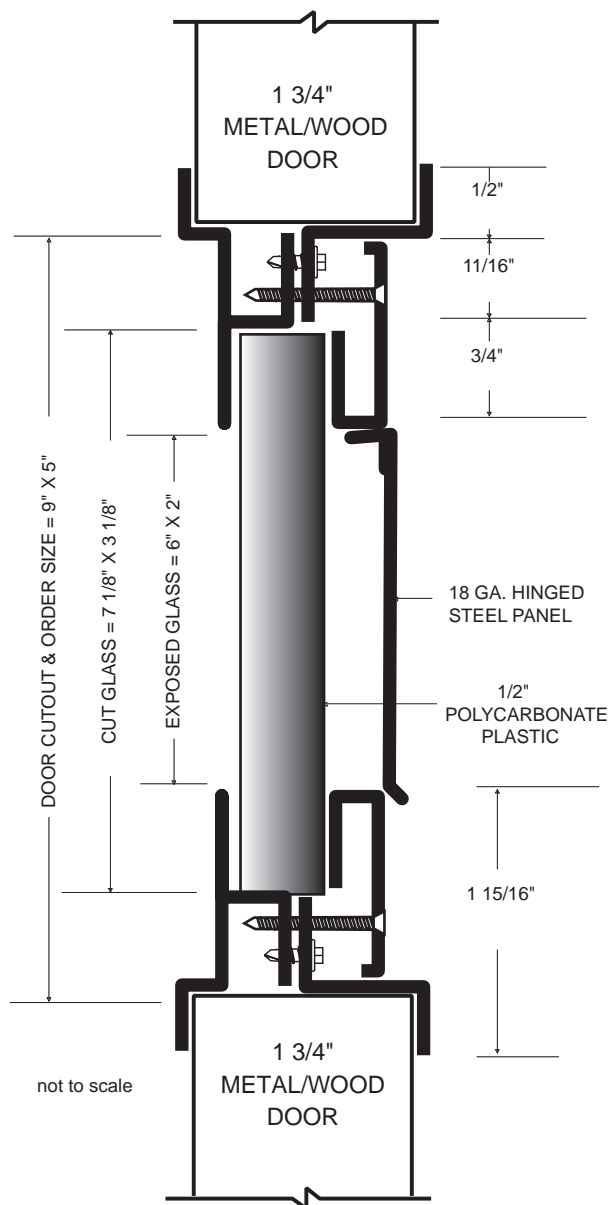
L-VGLF-WD (9" X 5")

Security Lite Kit

- 18 ga. cold rolled steel
- Mitered and welded corners
- 1-3/4" hollow metal or wood doors
- 1/2" thick high impact polycarbonate plastic
- 18 ga. steel hinged panel
- No exposed fasteners on outside of door
- Low-profile frame
- 6" x 2" exposed glass size
- #8 x 1" Oval head TEK screws
- 2.8 oz. Silicone sealant included
- Gray Primer (GPZ) powder coat finish

Available Options

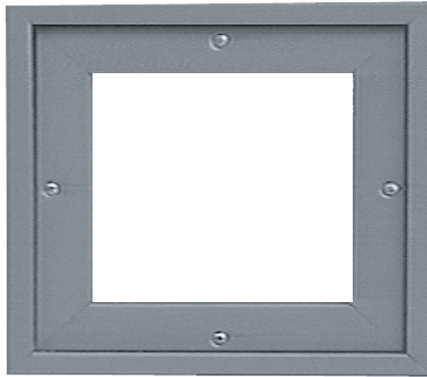
- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating





L-VGLF-PZ (9" X 9")

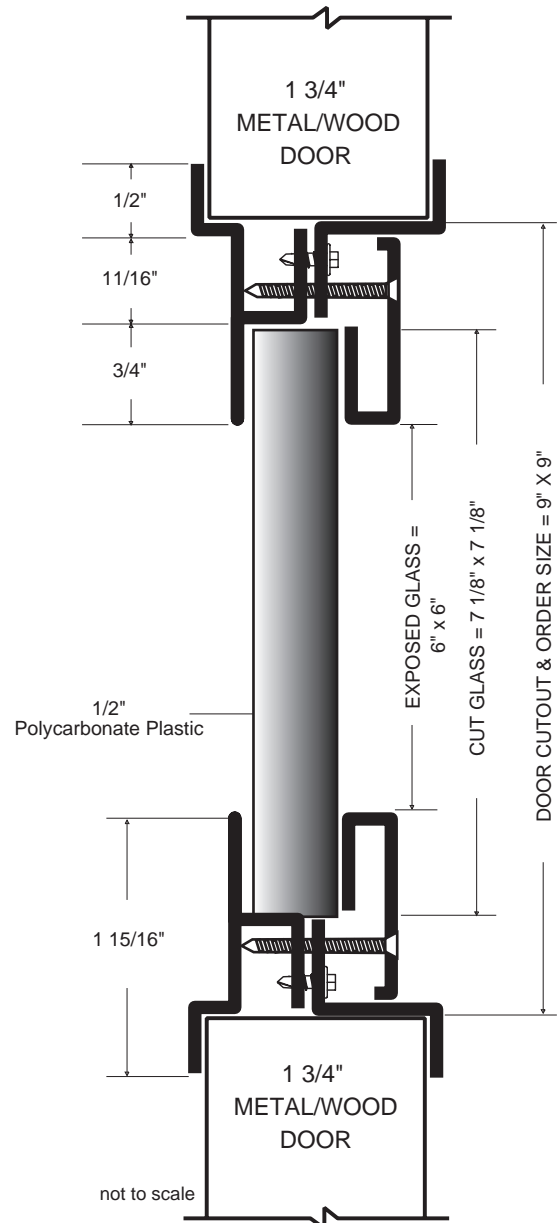
Security Lite Kit



- 18 ga. cold rolled steel
- Mitered and welded corners
- For 1-3/4" hollow metal or wood doors
- 1/2" thick high impact polycarbonate plastic
- No exposed fasteners on outside of door
- Low-profile frame
- 6" x 6" exposed glass size
- #8 x 1" Oval head TEK screws
- 2.8 oz. Silicone sealant included
- Gray Primer (GPZ) powder coat finish

Available Options

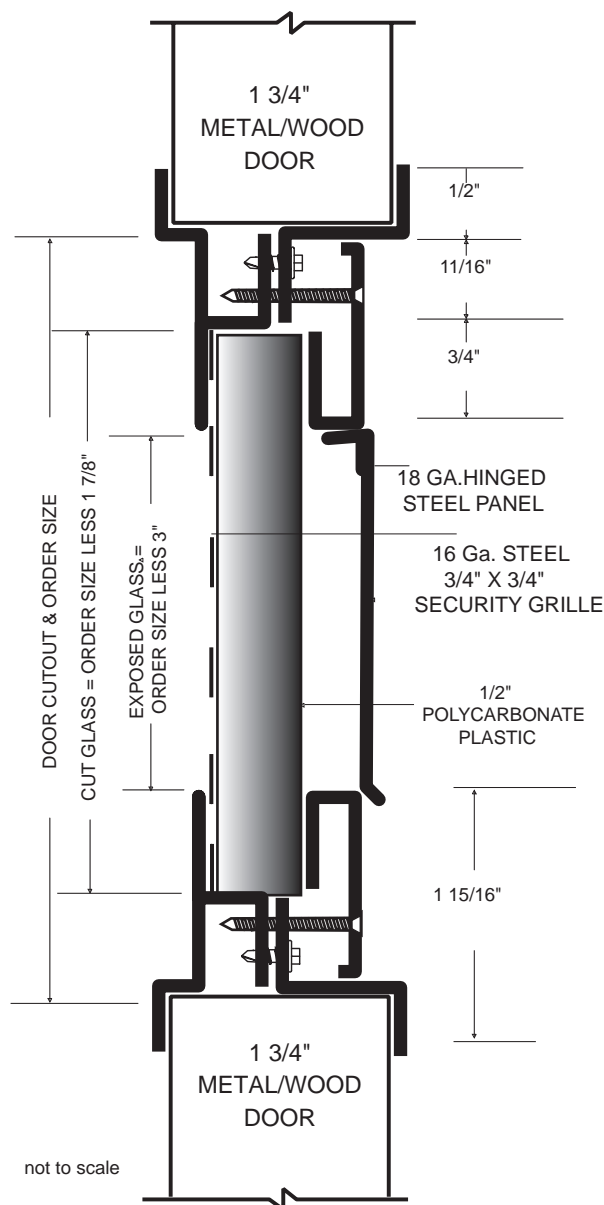
- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating



L-VGLF-MD (9" X 9")

L-VGLF-MDL (12" X 12")

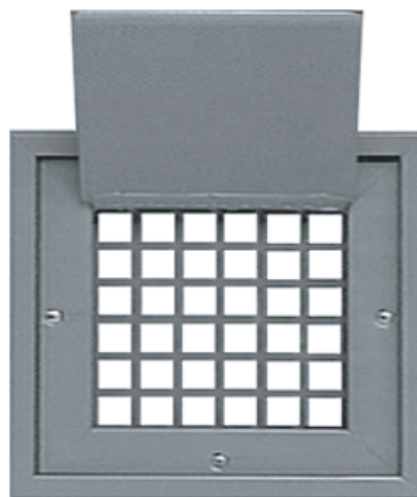
Security Lite Kit



- 18 ga. cold rolled steel
- Mitered and welded corners
- For 1-3/4" hollow metal or wood doors
- 1/2" thick high impact polycarbonate plastic
- 16 ga. steel 3/4" x 3/4" security grille
- 18 ga. steel hinged panel
- No exposed fasteners on outside of door
- Low-profile frame
- 6" x 6" exposed glass size on L-VGLF-MD
- 9" x 9" exposed glass size on L-VGLF-MDL
- #8 x 1" Oval head TEK screws
- 2.8 oz. Silicone sealant included
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating





L-VGLF-OG (9" X 9")

Security Lite Kit

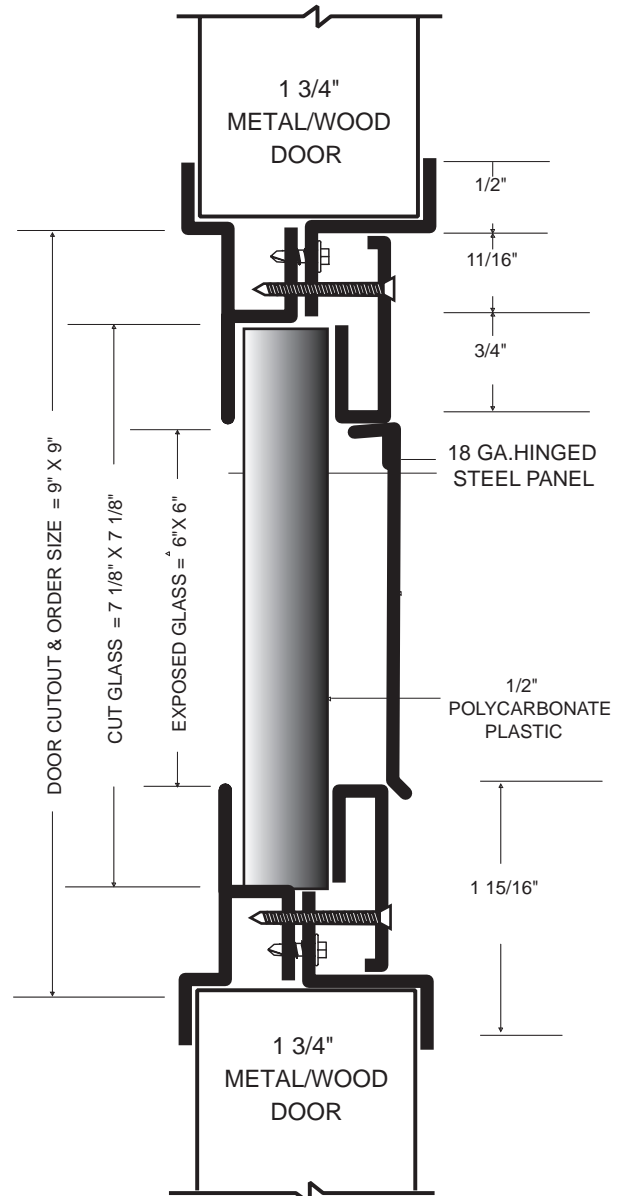
- 18 ga. cold rolled steel
- Mitered and welded corners
- For 1-3/4" hollow metal or wood doors
- 1/2" thick high impact polycarbonate plastic
- 18 ga. steel hinged panel
- No exposed fasteners on outside of door
- Low-profile frame
- 6" x 6" exposed glass size
- #8 x 1" Oval head TEK screws
- 2.8 oz. Silicone sealant included
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating



not to scale



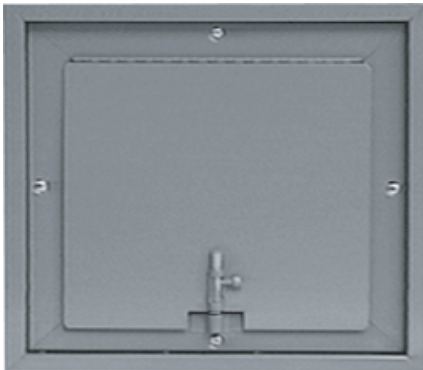
L-VGLF-SF (11" X 11")

Security Lite Kit

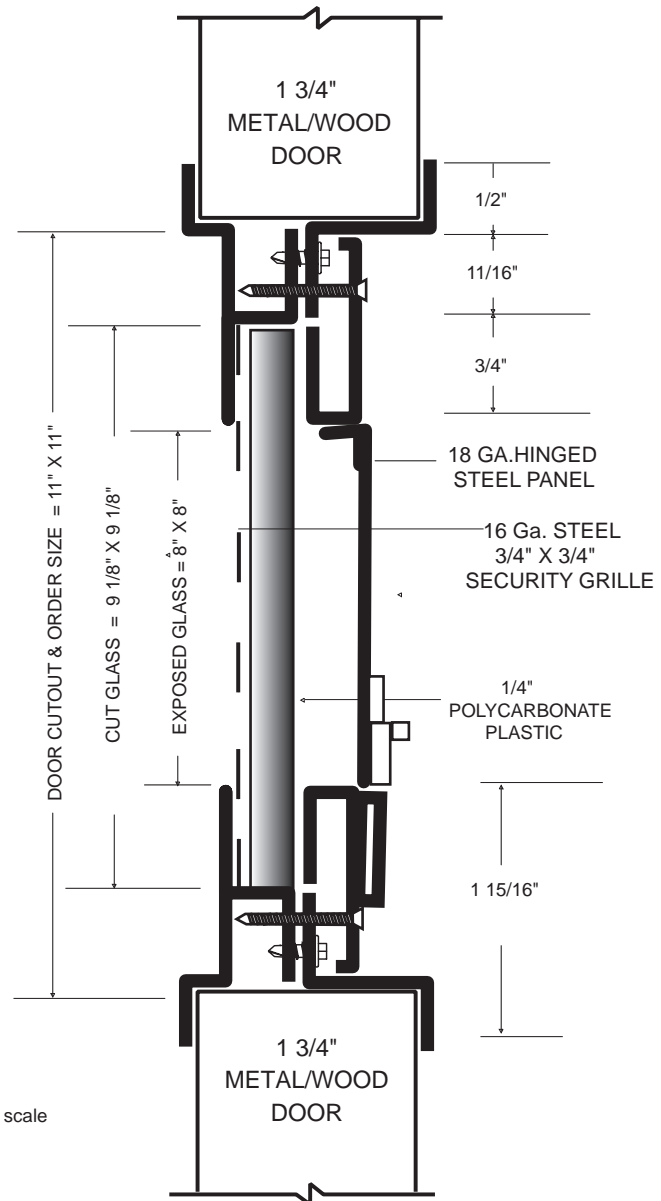
- 18 ga. cold rolled steel
- Mitered and welded corners
- For 1-3/4" hollow metal or wood doors
- 1/4" thick high impact polycarbonate plastic
- 16 ga. steel 3/4" x 3/4" security grille
- 18 ga. steel hinged panel with bolt latch
- No exposed fasteners on outside of door
- Low-profile frame
- 8" x 8" exposed glass size
- #8 x 3/4" Oval head TEK screws
- 2.8 oz. Silicone sealant included
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating



not to scale



L-FRA-100-RD

Round Lite Kit for 1-3/4" Thick Doors and 3/16", 1/4", or 5/16" Glass

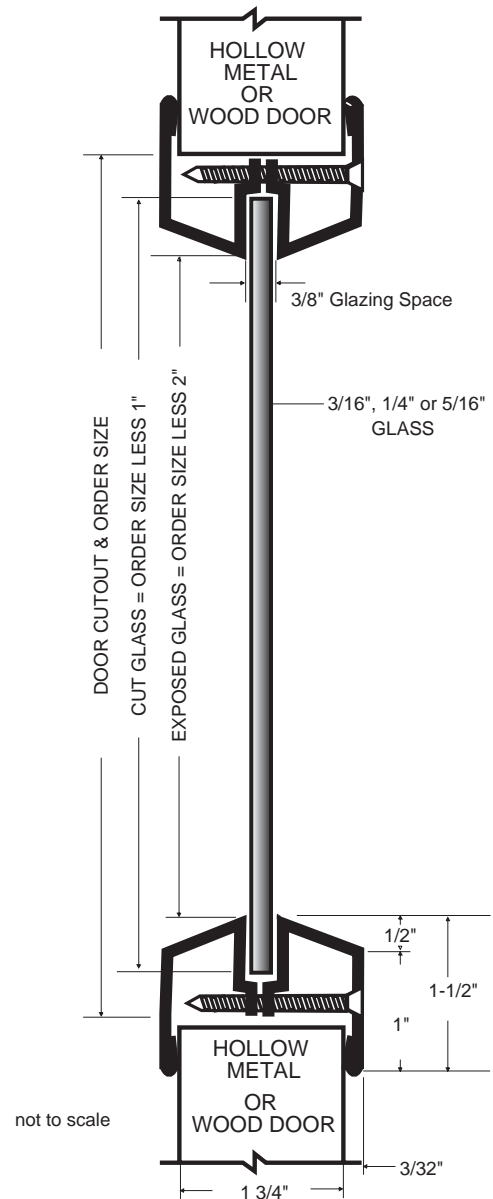
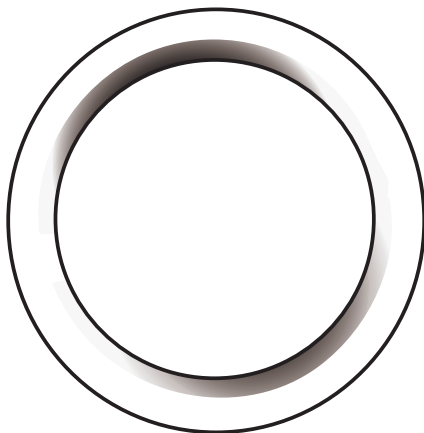
- 18 ga. cold rolled steel
- Countersunk mounting screw-holes
- #8 x 1-3/4" Phillips head SMS
- Gray Primer

Available Options

- Powder coat color options - see page L2
- Torx security screws
- Zinc electro-plating
- Glass & Glazing tape - See Glass Section



- Available in 12", 18" and 24" sizes only



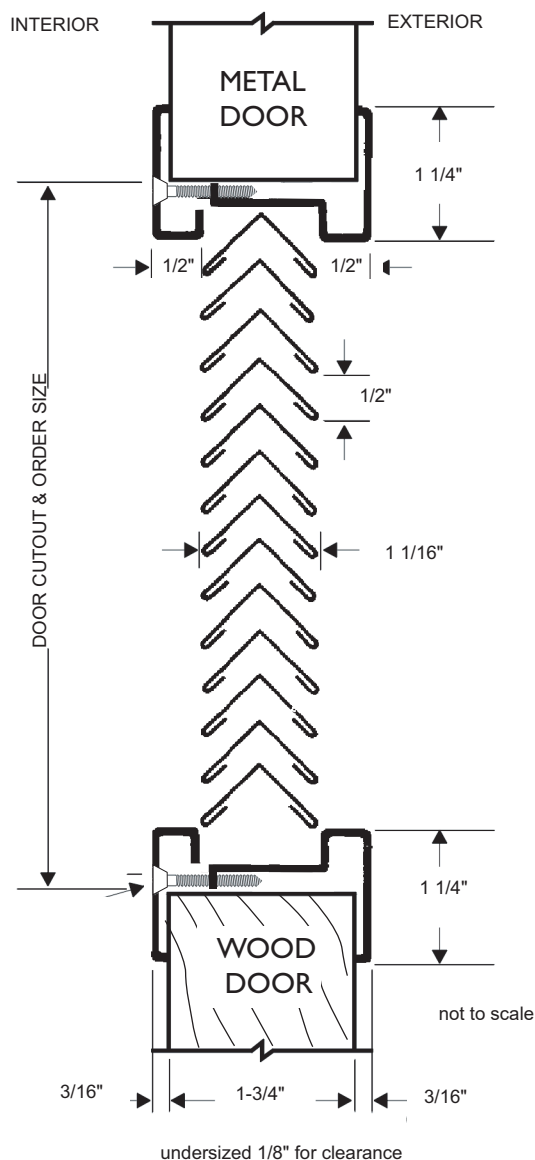
L-700-RX

No Vision Door Louver for 1-3/4" Thick Doors

- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Inverted "V" design
- Blades 24 ga. steel; hemmed edges
- Counter-sunk mounting screw-holes
- #8 x 3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Free area 55%
- Gray Primer (GPZ) powder coat finish

Available Options

- Powder coat color options - see page L2
- Aluminum Insect screen - 22 ga. 1/8" square mesh installed exterior side, unless requested: "supplied loose for interior side installation"
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating (not available on insect screen)



Designed for use on 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16".

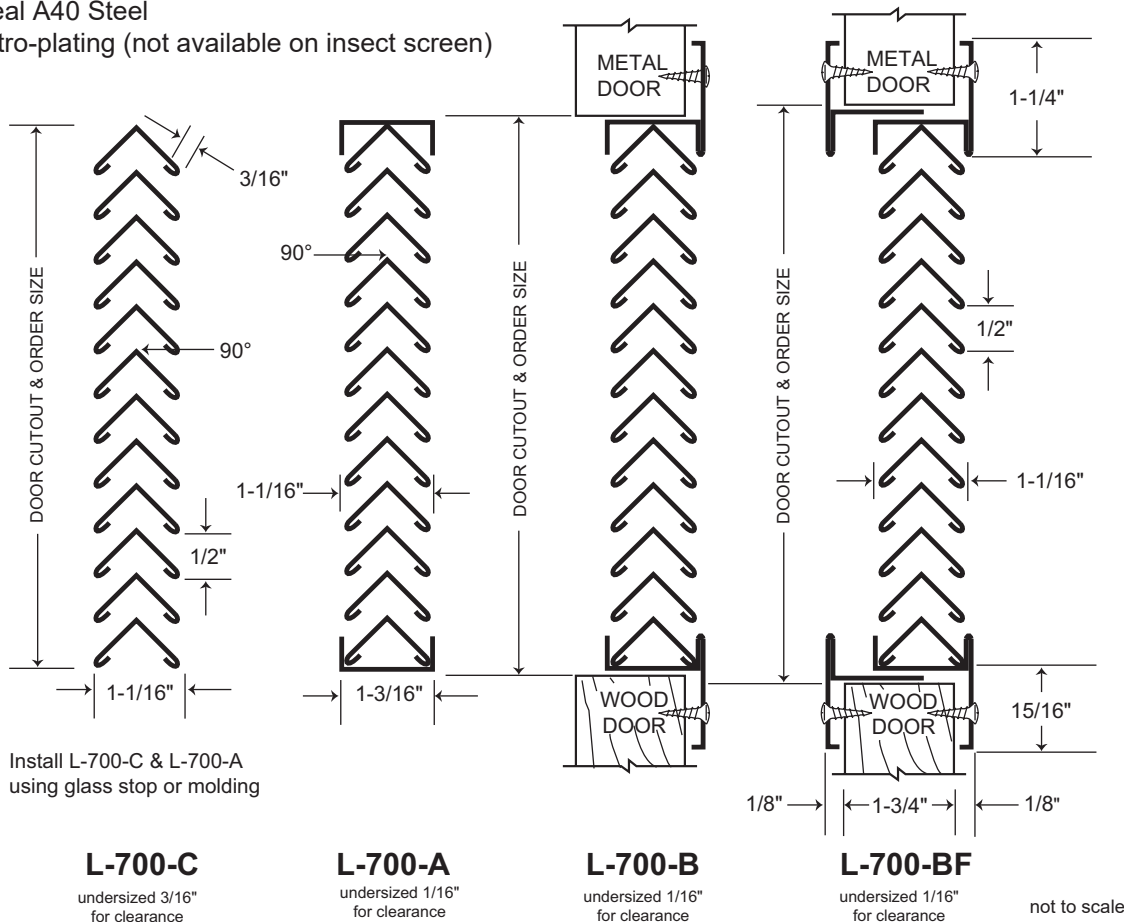
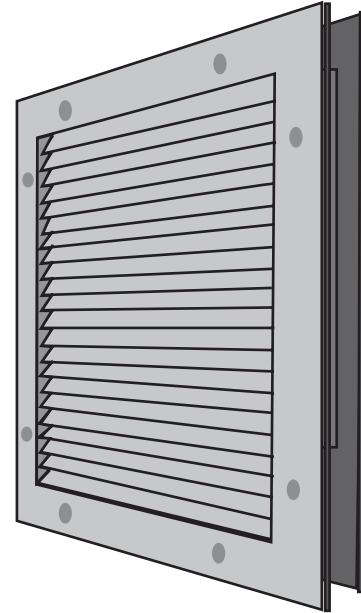
L-700 SERIES

No Vision Door and Partition Louver for 1-3/8", 1-3/4" up to 2-1/4" Thick Doors

- 20 ga. cold rolled steel frame
- Mitered and welded corners
- Welded reinforcing clips at corners
- Inverted "V" design
- Blades 24 ga. steel; hemmed edges
- Counter-sunk mounting screw-holes
- #8 x 3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Gray Primer (GPZ) powder coat finish
- Free area 55%

Available Options

- Powder coat color options - see page L2
- Thru bolts (TB) for 1-3/4" thick doors
- Aluminum Insect screen - 22 ga. 1/8" square mesh installed exterior side, unless requested: "supplied loose for interior side installation"
- Torx Security Screws
- Galvanneal A40 Steel
- Zinc electro-plating (not available on insect screen)



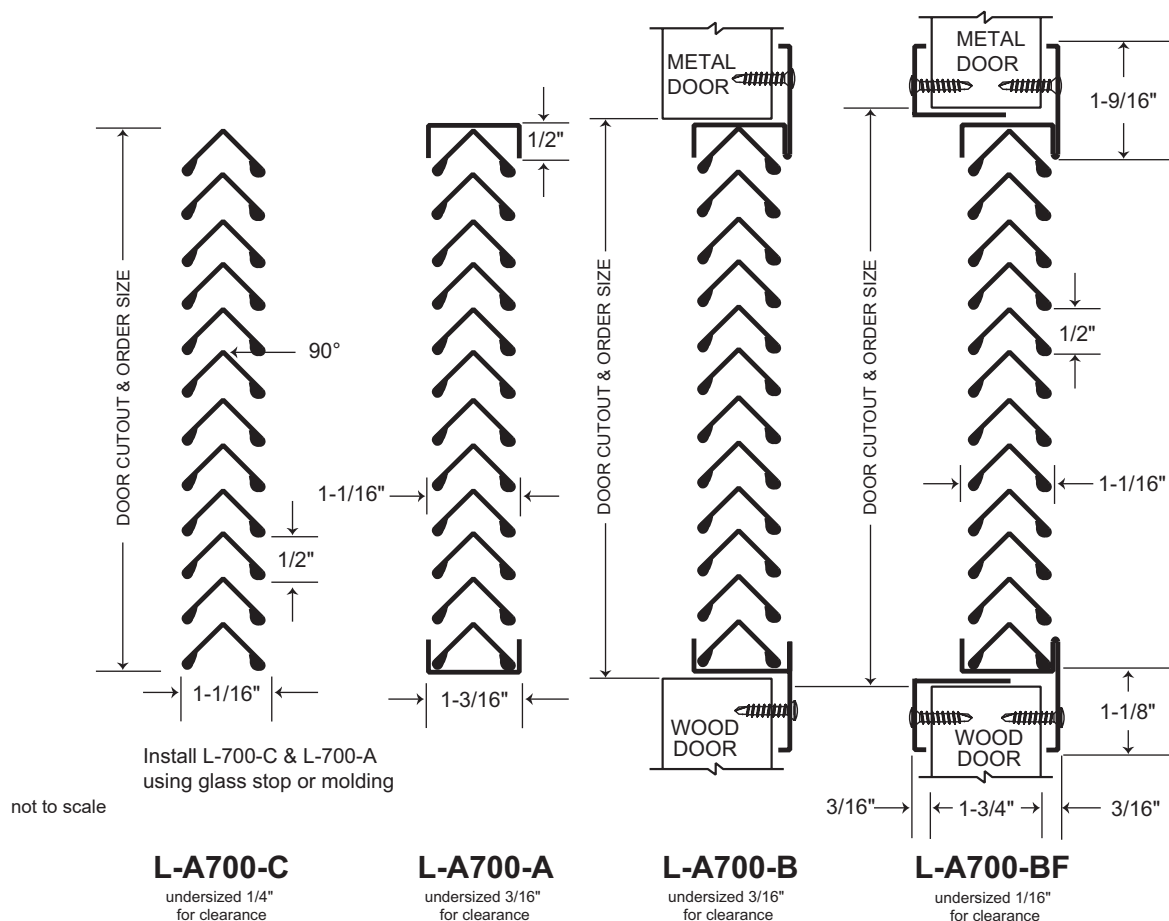
L-A700 SERIES

Aluminum No Vision Door and Partition Louver for 1-3/8", 1-3/4" up to 2-1/4" Thick Doors

- Frame .050" extruded aluminum
- Blades .050" extruded aluminum
- Mitred corners secured with reinforcing clips
- Inverted "V" design
- Counter-sunk mounting screw-holes
- #8 x 3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Aluminum Silver (ASL) powder coat finish
- Free area 55%

Available Options

- Powder coat color options - see page L2
- For exterior use specify drainage weep holes
- Thru bolts (TB) for 1-3/4" door when specified
- Aluminum Insect screen - 22 ga. 1/8" square mesh installed exterior side, unless requested: "supplied loose for interior side installation"
- Torx Security Screws



L-1900

Fire-rated Fusible Link Louver for 1-3/4" Thick Doors up to 90 minutes

- Blades close when activated by fire/heat
- 18 ga. cold rolled steel frame
- 18 ga. cold rolled steel adjustable "Z" blades
- Mitered corners secured with reinforcing clips
- Stainless Steel Spring
- 165° Fusible link
- Free area 40%
- #8 x 3/4" Phillips head SMS
- Gray Primer (GPZ) powder coat finish

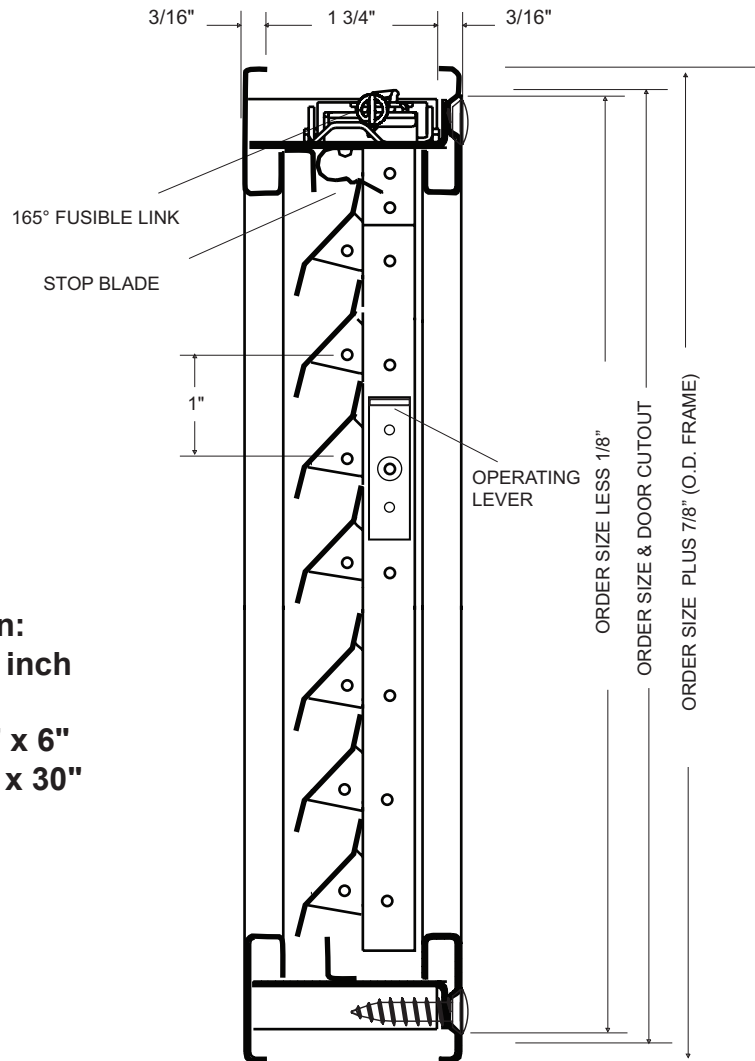
Available Options

- Aluminum insect screen - 22 ga. 1/8" square mesh installed on exterior side
- Torx Security screws
- Galvanneal A40 steel



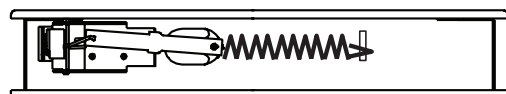
*up to 90 minutes

Size Information:
Available in whole inch increments
Minimum size: 10" x 6"
Maximum size: 24" x 30"



undersized 1/8" for clearance

not to scale



top view fusible link mechanism

L-1800

Adjustable Blade Louver for 1-3/4" Thick Doors

- Manually adjustable blades
- 18 ga. cold rolled steel frame
- 18 ga. cold rolled steel adjustable "Z" blades
- Mitered corners secured with reinforcing clips
- Free area 40%
- #8 x 3/4" Phillips head SMS
- Gray Primer (GPZ) powder coat finish

Available Options

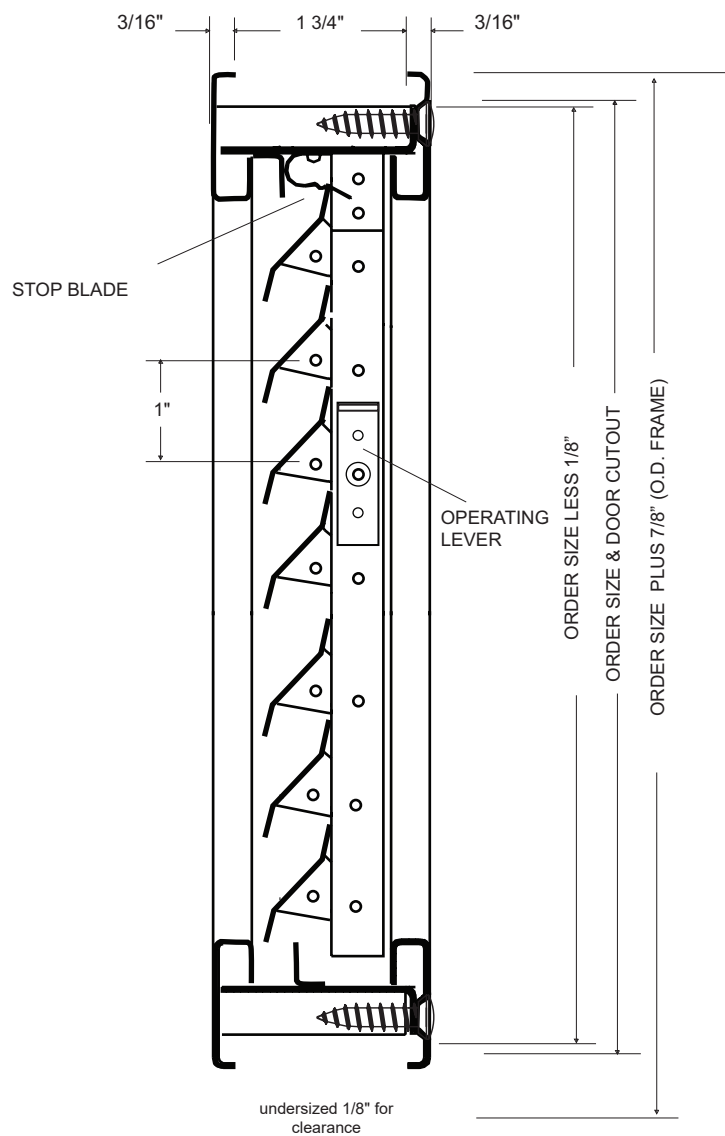
- Aluminum insect screen - 22 ga. 1/8" square mesh installed on exterior side
- Torx Security screws
- Galvanneal A40 steel

Size Information:

Available in whole inch
increments

Minimum size: 10" x 6"

Maximum size: 24" x 30"



not to scale



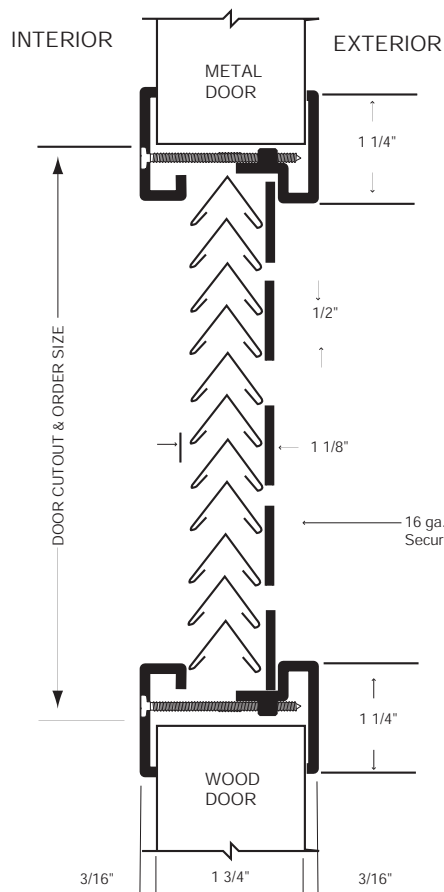
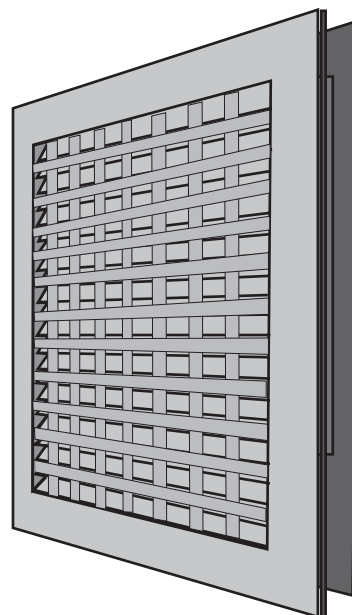
L-VRSG-2, L-VRSG-3

Vandal Resistant Security Louver for 1-3/4" Thick Doors

- 18 ga. cold rolled steel frame
- Mitered and welded corners
- Welded reinforcing clips at corners
- Inverted "V" design
- Blades 24 ga. steel, hemmed edges
- 16 ga. steel, 3/4" x 3/4" security grille
- #6 x1-3/4" Phillips Truss Head SMS
- Gray Primer (GPZ) powder coat finish
- Free area 45%

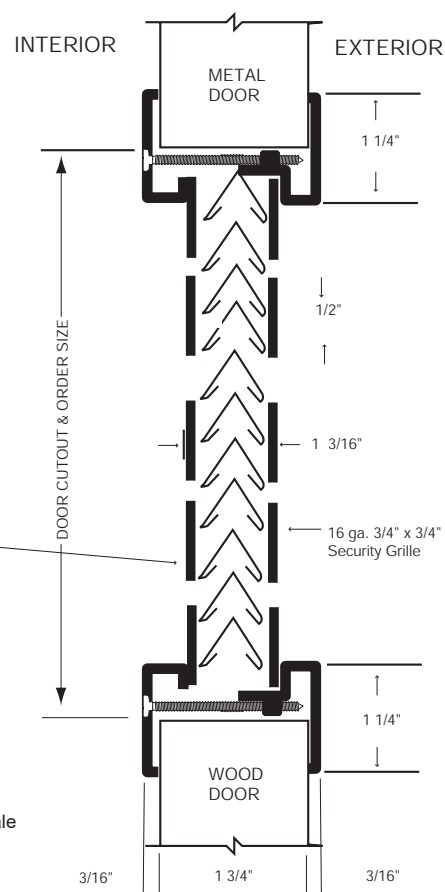
Available Options

- Powder coat color options - see page L2
- Thru bolts (TB) for 1-3/4" thick doors
- Aluminum Insect screen - 22 ga. 1/8" square mesh installed exterior side, unless requested: "supplied loose for interior side installation"
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc Electro-plating (not available on insect screen)



L-VRSG-2

Undersized 1/16" for clearance



L-VRSG-3

Undersized 1/16" for clearance

not to scale

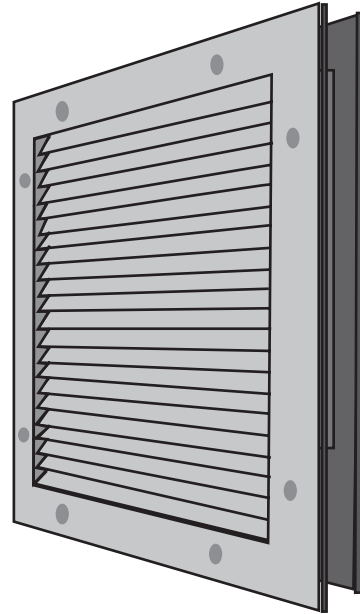
L-75 SERIES

Darkroom Louver for 1-3/4" up to 2-1/4" Thick Doors

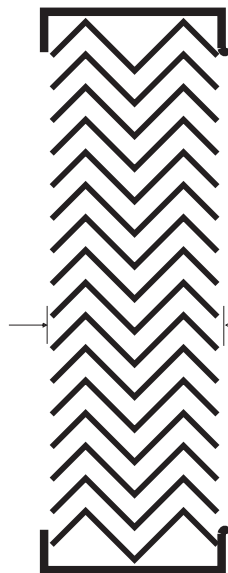
- 20 ga. cold rolled steel frame
- Mitered and welded corners
- Welded reinforcing clips at corners
- Blades .040" aluminum
- Counter-sunk mounting screw holes
- #8 x 3/4" Phillips head SMS
- Available in uneven and fractional sizes
- Free area 55%
- Textured Black (TBL) powder coat finish

Available Options

- Powder coat color options - see page L2
- Thru Bolts (TB) for 1- 3/4" thick doors
- Aluminum Insect screen - 22 ga. 1/8" square mesh installed exterior side, unless requested: "supplied loose for interior side installation"
- Torx Security Screws
- Zinc electro-plating (not available on insect screen)



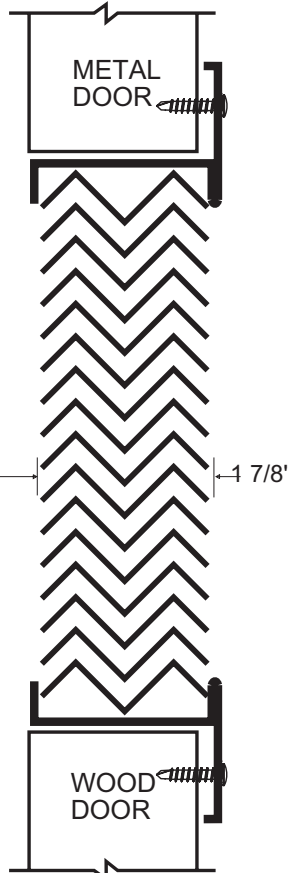
Install L-75-A using
glass stop or molding



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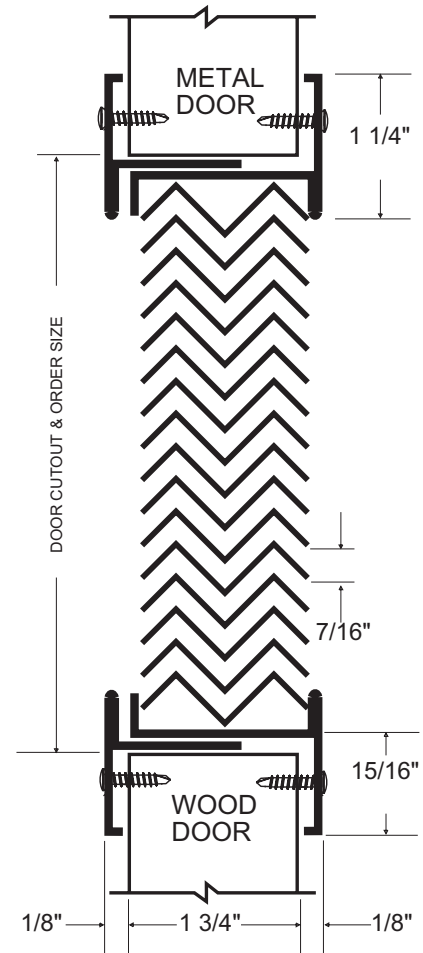
L-75 A

undersized 1/8" for clearance



L-75 B

undersized 1/8" for clearance



L-75 BF

undersized 1/16" for clearance



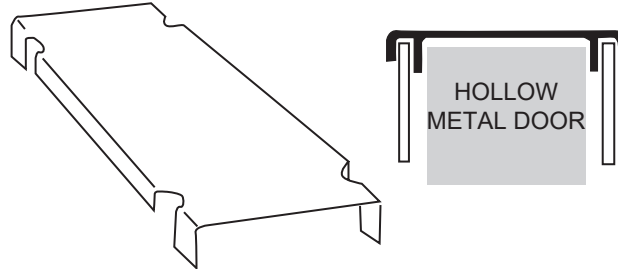
L-Clips

For Optional Reinforcement of 1-3/4" Hollow Metal Doors

- 20 ga. steel
- 4" length clip
- For spot reinforcement of cut-outs in hollow metal doors



NGP Lite Kits on Fire-rated Hollow metal doors do NOT require L-clips or channels welded in the doors.



Fasteners for Lites and Louvers



PHILLIPS HEAD
TOP VIEW



TORX SECURITY
TOP VIEW



HEX HEAD WASHER
TOP VIEW

OH = OVAL HEAD TYPE
 U/C = UNDERCUT
 TH = TRUSS HEAD TYPE
 SMS = SHEET METAL SCREW
 TB = THRU BOLT
 HW = HEX HEAD WASHER

#8 OH PHILLIPS U/C SMS
 410 S/S MATERIAL
 LENGTHS = 1-1/4", 1-3/4"



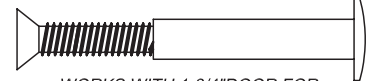
WORKS WITH;
 L-FRA100, L-FRA100-SP,
 L-FRA100-RD, L-CVFM-SS

#6 TH PHILLIPS SMS
 410 SS MATERIAL
 LENGTHS = 1", 1-3/4"



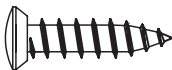
WORKS WITH;
 L-GLF100, L-GLF100-SP,
 L-SG100

#8 X 32 THRU-BOLT
 410 S/S MATERIAL



WORKS WITH 1-3/4" DOOR FOR;
 L-GLF100-TB, L-GLF100-SP-TB,
 L-SG100-TB AND THRU
 BOLTED LOUVERS

#8 X 3/4" OH
 PHILLIPS U/C SMS
 410 SS MATERIAL



WORKS WITH;
 L-700-RX, L-700-SERIES, L-A700-SERIES

#8 X 3/4" PH
 PHILLIPS 410SS
 SMS



WORKS WITH;
 L-1800, L-1900

#8 X 1/2" HW
 TEK ZINC SCREW



#8 X 1" OH PHILLIPS
 TEK ZINC SCREW

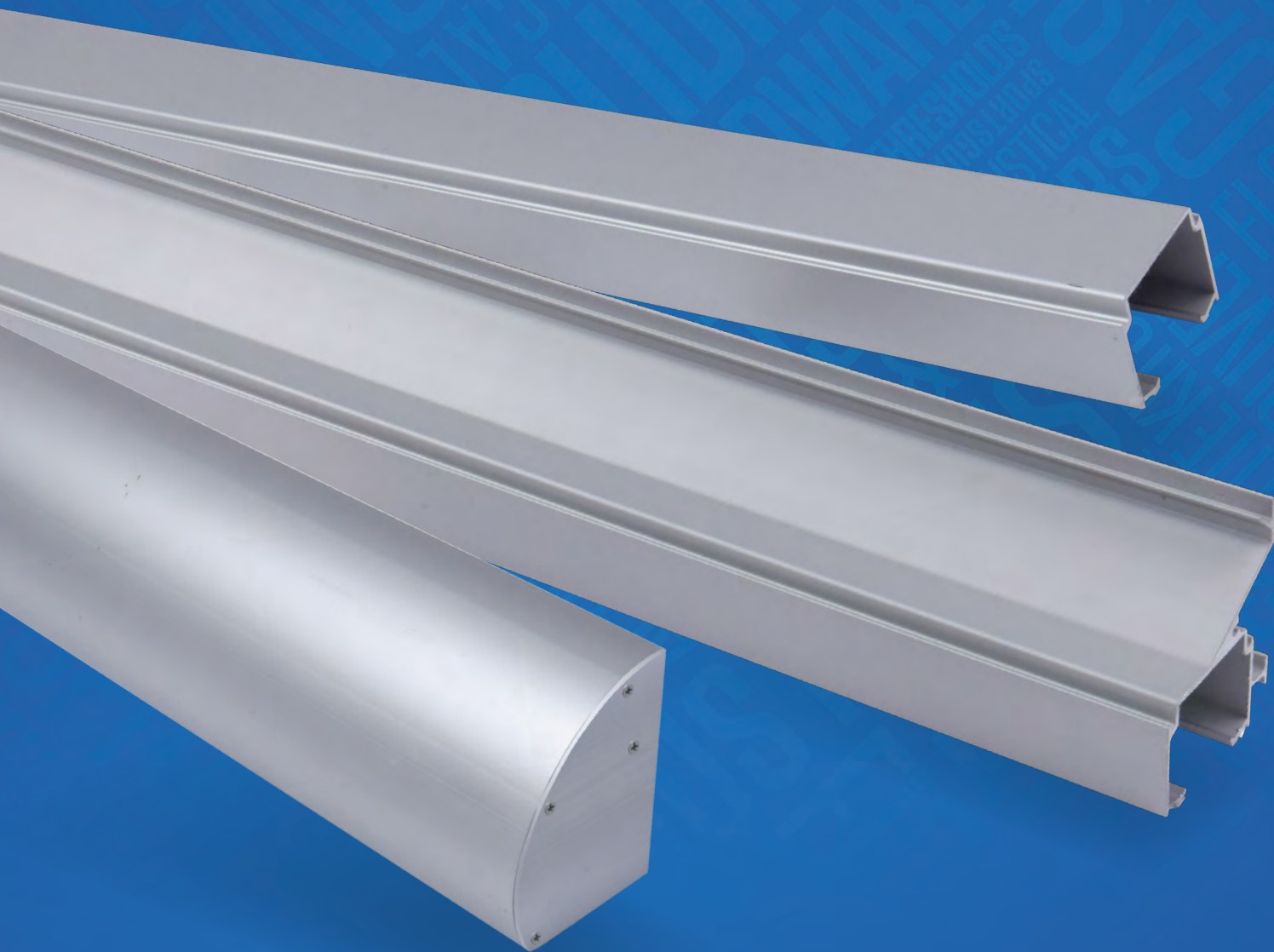


WORKS WITH 1-3/4" DOOR FOR;
 L-VGLF-WD, L-VGLF-PZ, L-VGLF-MD,
 L-VGLF-MDL, L-VGLF-OG, L-VGLF-SF



SLIDING DOOR

— HARDWARE —





SLIDING DOOR HARDWARE INDEX:

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Aluminum:	
Bi-Fold Sliding Door Hardware	SL2
Bi-Parting Sliding Door Hardware	SL7
By-Passing Sliding Door Hardware	SL1, SL3
Side Wall Mount Sliding Door Hardware	SL4
Pocket Door Hardware	SL5
Pocket Door Hardware with Frame Kit	SL6
Stainless Steel:	
Barn Door Hardware — Side Mount	SL9
Barn Door Hardware — Top Mount	SL8
Accessories:	
Drywall Spacer for Stainless Steel Track	SL11
Sliding Door Hardware Accessories	SL10
Soft Close for Aluminum Sliding Door Hardware	SL12

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SCBY	SL12	SLAL-250-BP-2DR.....	SL3	SLSS1-6-SC.....	SL8
SL-BCG	SL10	SLAL-250-BP-4DR.....	SL3	SLSS1-8	SL8
SL-RD.....	SL4	SLAL-250-PD	SL5, SL7	SLSS1-8-SC.....	SL8
SL-SQ18	SL4	SLAL-250-PDKIT	SL6	SLSS2-6	SL9
SL-SQ20	SL3, SL5, SL7	SLAL-250-SW	SL4	SLSS2-6-SC.....	SL9
SL-WG.....	SL10	SLSS-FG	SL10	SLSS2-8.....	SL9
SLAL-75-BF2DR.....	SL2	SLSS-DWS-6.....	SL11	SLSS2-8-SC.....	SL9
SLAL-75-BF4DR.....	SL2	SLSS-DWS-8.....	SL11	SWBP-BRKT	SL11

RATING SYMBOLS LEGEND



ANSI/BHMA CERTIFIED. Certified sliding door hardware complies with American National Standard for Sliding and Folding Door Hardware ANSI/BHMA A156.14, and is listed in the BHMA Certified Products Directory.

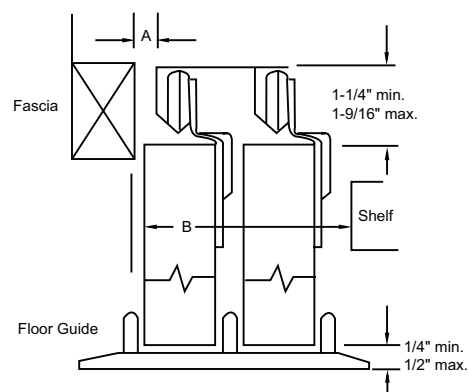
BY-PASS

SLIDING DOOR HARDWARE

ALUMINUM SIDE MOUNT TRACK SYSTEM

- Designed for Multi-family Applications
- Up to 1 $\frac{3}{8}$ " Doors
- Max Weight Load 75 lbs.
- 5-year Warranty

SKU	TRACK LENGTH
SLAL-75-BP-48	48"
SLAL-75-BP-60	60"
SLAL-75-BP-72	72"
SLAL-75-BP-96	96"



DOOR THICKNESS	3/4"	1 3/8"
DIMENSION A	0"	7/8"
DIMENSION B	2 3/4"	4"

Complete Kits Include:

- (1) Track
- (1) Floor Guide With Steel Bracket
- (2) Front Hangers
- (2) Back Hangers
- (2) Brass Pulls
- (2) Chrome Pulls

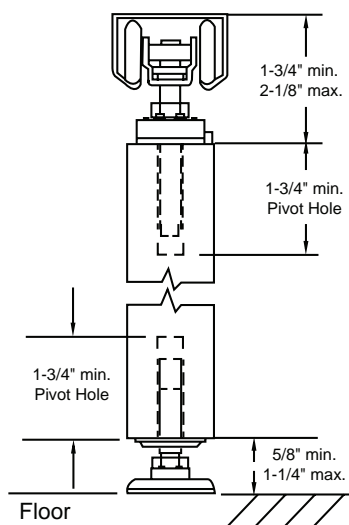


BI-FOLD

SLIDING DOOR HARDWARE

ALUMINUM TOP MOUNT TRACK SYSTEM

- Designed for Multi-family Applications
- 1 $\frac{3}{8}$ " To 1 $\frac{3}{4}$ " Doors
- Max Weight Load 75 lbs.
- 5-year Warranty



TWO DOOR SYSTEMS



SKU	TRACK LENGTH
SLAL-75-BF2DR-36	36"
SLAL-75-BF2DR-48	48"

Two Door Complete Kits Include:

- | | |
|------------------|-------------------|
| (1) Track | (1) Aligner |
| (1) Top Pivot | (1) Wood Knob |
| (1) Bottom Pivot | (4) Brass Hinges |
| (1) Roller | (4) Chrome Hinges |
| (1) Snugger | |

FOUR DOOR SYSTEMS



SKU	TRACK LENGTH
SLAL-75-BF4DR-60	60"
SLAL-75-BF4DR-72	72"
SLAL-75-BF4DR-96	96"

Four Door Complete Kits Include:

- | | |
|-------------------|-------------------|
| (1) Track | (2) Aligners |
| (2) Top Pivots | (2) Wood Knobs |
| (2) Bottom Pivots | (8) Brass Hinges |
| (2) Rollers | (8) Chrome Hinges |
| (2) Snuggers | |



BY-PASS

SLIDING DOOR HARDWARE

ALUMINUM TOP MOUNT TRACK SYSTEM

- ▶ Commercial Grade for 1 $\frac{3}{8}$ " To 1 $\frac{3}{4}$ " Doors
- ▶ Max Weight Load 250 lbs.
- ▶ ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- ▶ Hangers with Heavy Duty Ball Bearing Wheels
- ▶ 5-Year Warranty



TWO DOOR SYSTEMS

SKU	TRACK LENGTH
SLAL-250-BP-2DR-48	48"
SLAL-250-BP-2DR-60	60"
SLAL-250-BP-2DR-72	72"
SLAL-250-BP-2DR-96	96"
SLAL-250-BP-2DR-144	144"

Complete Kits Include:

- (1) Track – Clear Anodized
- (2) Universal Hardware Packs,
Each Consist Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides

FOUR DOOR SYSTEMS

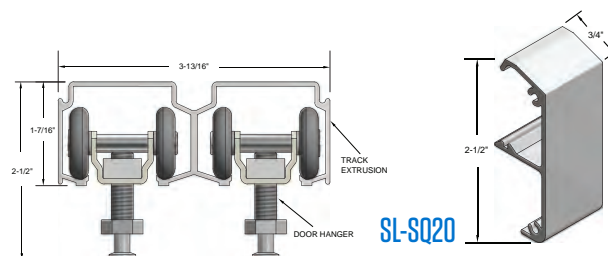
SKU	TRACK LENGTH
SLAL-250-BP-4DR-48	48"
SLAL-250-BP-4DR-60	60"
SLAL-250-BP-4DR-72	72"
SLAL-250-BP-4DR-96	96"
SLAL-250-BP-4DR-144	144"

Complete Kits Include:

- (1) Track – Clear Anodized
- (4) Universal Hardware Packs,
Each Consist Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides

OPTIONS:

- ▶ Soft Close / Open – Specify "SCBY"
For Both Directions Order (2) Sets SCBY
- ▶ Bottom Channel Guide SL-BCG (Page SL10)
- ▶ Snap-On Fascia (SL-SQ20) – Clear Anodized –
Shown Right
- ▶ Sidewall Mount Brackets SWBP-BRKT (Page SL10)



Includes End Caps

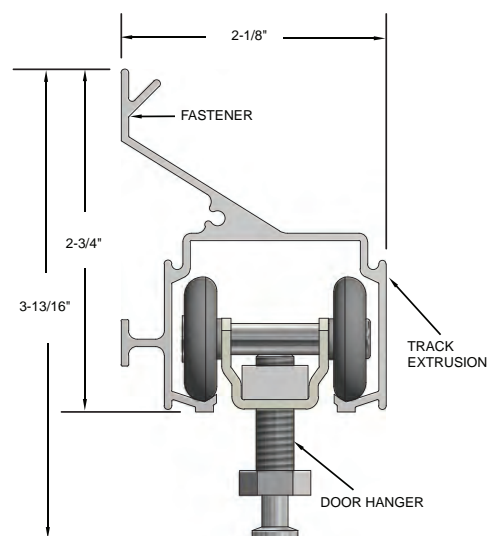
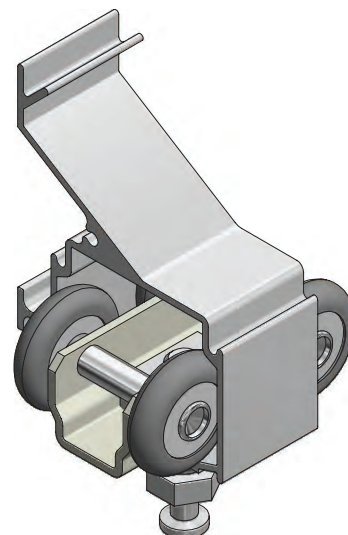
SIDE WALL MOUNT

SLIDING DOOR HARDWARE

ALUMINUM TOP MOUNT TRACK SYSTEM

- Commercial Grade for 1 $\frac{3}{8}$ " To 1 $\frac{3}{4}$ " Doors
- Max Weight Load 250 lbs.
- ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- Hangers with Heavy Duty Ball Bearing Wheels
- $\frac{3}{8}$ " Clearance Between Wall and Door on 1 $\frac{3}{4}$ " Thick Doors
- 5-year Warranty

SKU	TRACK LENGTH
SLAL-250-SW-48	48"
SLAL-250-SW-60	60"
SLAL-250-SW-72	72"
SLAL-250-SW-96	96"
SLAL-250-SW-144	144"

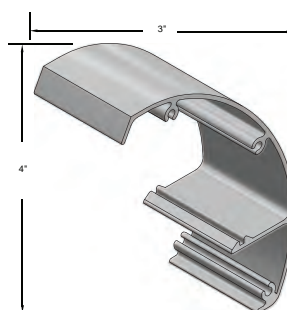


Complete Kits Include:

- (1) Track – Clear Anodized
- (1) Universal Hardware Pack, Consists Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides

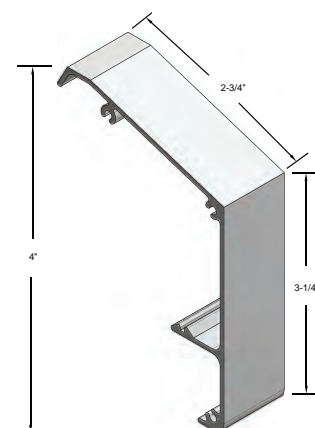
OPTIONS:

- Soft Close / Open – Specify “SC”
For Both Directions Order (2) SC
- Wall Mounted Guide SL-WG – included in Universal Hardware Pack (page SL10)
- Bottom Channel Guide SL-BCG (page SL10)
- Snap-on Fascias – Clear Anodized – Shown Right



SL-RD

Includes End Caps



SL-SQ18

POCKET DOOR

SLIDING DOOR HARDWARE

ALUMINUM TOP MOUNT TRACK SYSTEM

- ▶ Commercial Grade for 1⅜" To 1¾" Doors
- ▶ Max Weight Load 250 lbs.
- ▶ ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- ▶ Hangers with Heavy Duty Ball Bearing Wheels
- ▶ 5-Year Warranty

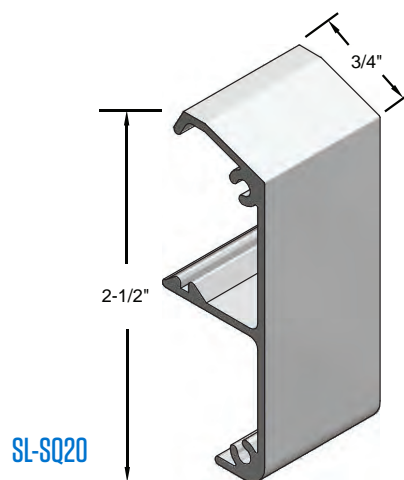
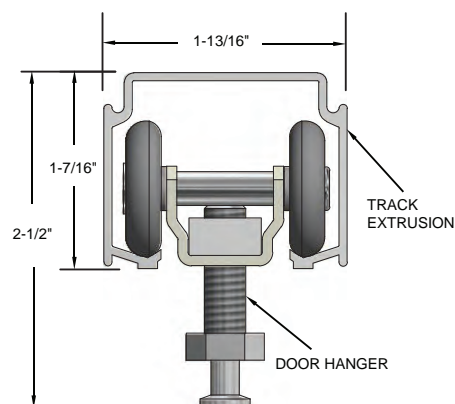
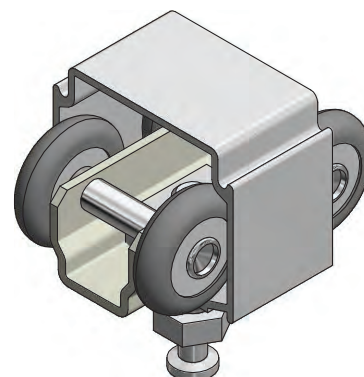
SKU	TRACK LENGTH
SLAL-250-PD-48	48"
SLAL-250-PD-60	60"
SLAL-250-PD-72	72"
SLAL-250-PD-96	96"
SLAL-250-PD-144	144"

Complete Kits Include:

- (1) Track – Clear Anodized
- (1) Universal Hardware Pack, Consists Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides

OPTIONS:

- ▶ Soft Close / Open – Specify "SC"
For Both Directions Order (2) SC
- ▶ Wall Mounted Guide SL-WG (page SL10)
- ▶ Bottom Channel Guide SL-BCG (page SL10)
- ▶ Snap-On Fascia (SL-SQ20) – Clear Anodized – Shown Right



Includes End Caps

POCKET DOOR

SLIDING DOOR HARDWARE FRAME KIT

ALUMINUM TOP MOUNT TRACK SYSTEM

- Commercial Grade for 1⅜" To 1¾" Doors
- Frames Accommodate 2'0" - 3'0" x 6'8" - 9'0" Doors
- Max Weight Load 250 lbs.
- ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- Hangers with Heavy Duty Ball Bearing Wheels
- 5-year Warranty
- Patent Pending
- Available for 48" Doors –
Specify SLAL-250-PDKIT-48"DR
- Available for 2 x 6 Wall Construction –
Specify SLAL-250-PDKIT-6
- Available for 2 x 6 Wall Construction 48" Doors –
Specify SLAL-PDKIT-6-48"

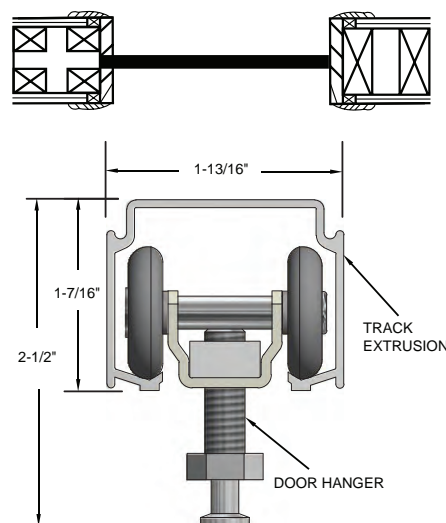
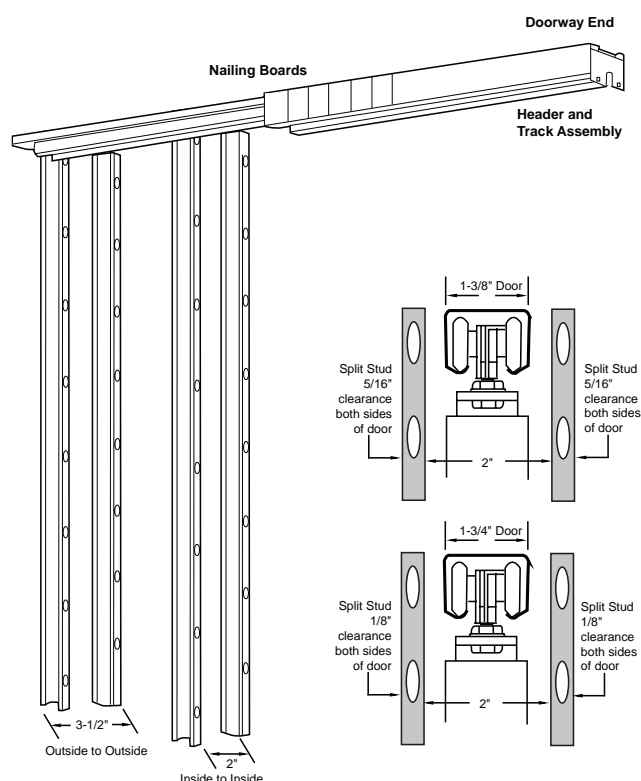


SKU	TRACK LENGTH
SLAL-250-PDKIT	N/A

Order two sets for Bi-Parting applications

Complete Kits Include:

- (1) **73" Header Track Assembly**
- (1) **Universal Hardware Pack,**
Consists Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides
- (1) **Pocket Frame Kit**
 - (4) Jamb Stiffeners
 - (4) Jamb Stiffener Extensions
 - (4) Jamb Splice Brackets
 - (2) Floor Brackets
 - (1) End Bracket



OPTIONS:

- Soft Close / Open – Specify "SC"
For Both Directions Order (2) SC
- Floor Guide SLSS-FG
- Bottom Channel Guide SL-BCG (page SL10)

BI-PARTING

SLIDING DOOR HARDWARE

ALUMINUM TOP MOUNT TRACK SYSTEM

- ▶ Commercial Grade for 1 $\frac{3}{8}$ " To 1 $\frac{3}{4}$ " Doors
- ▶ Max Weight Load 250 lbs.
- ▶ ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- ▶ Hangers with Heavy Duty Ball Bearing Wheels
- ▶ 5-Year Warranty



SKU	TRACK LENGTH
SLAL-250-PD-48	48"
SLAL-250-PD-60	60"
SLAL-250-PD-72	72"
SLAL-250-PD-96	96"



Order two sets for Bi-Parting applications

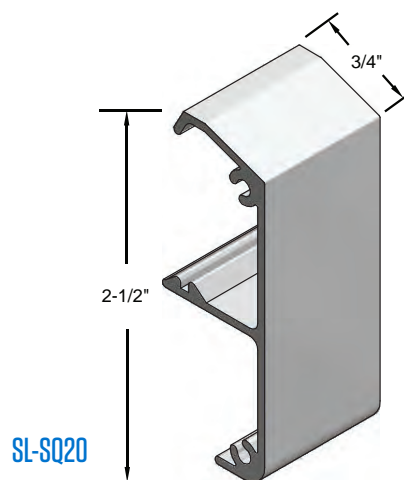
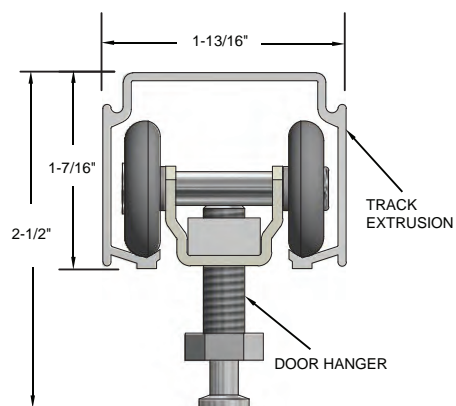
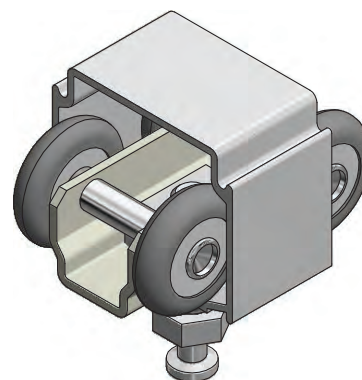
Complete Kits Include:

- (1) Track - Clear Anodized
- (1) Universal Hardware Pack, Consists Of:
 - (2) Ball Bearing Heavy Duty Hangers
 - (2) Snap-In Door Brackets
 - (2) In-Track Stops
 - (1) Angle Stop
 - (1) Bumper Stop
 - (1) Door Guide
 - Heavy Duty Floor Guides

For Bi-Parting Frame Kits – refer to page SL6

OPTIONS:

- ▶ Soft Close / Open – specify “SC”
For Both Directions Order (2) SC for Each Track Set
- ▶ Wall Mounted Guide SL-WG (page SL10)
- ▶ Bottom Channel Guide SL-BCG (page SL10)
- ▶ Snap-On Fascia (SL-SQ20) – Clear Anodized – Shown Right



Includes End Caps

BARN DOOR TOP MOUNT

SLIDING DOOR HARDWARE

- ▶ Fits 1" To 2" Thick Door Panel
- ▶ Brushed Stainless Steel 304
- ▶ Side Wall Mount
- ▶ Nylon Coated Stainless Steel Wheels for Smooth Operation
- ▶ Max Weight Load 220 lbs.
- ▶ ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- ▶ 5 year Warranty
- ▶ Order Two Sets for Bi-parting Applications



STAINLESS STEEL TOP MOUNT ROUND TRACK SYSTEM

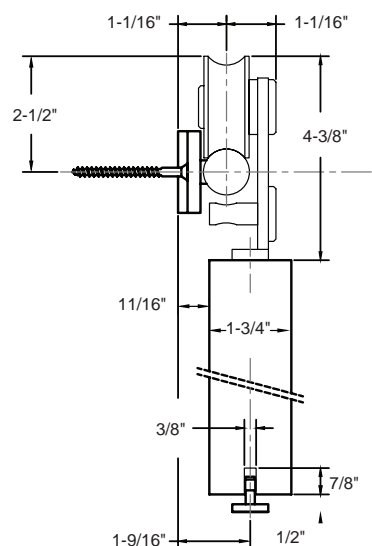
SKU	TRACK LENGTH
SLSS1-6	78 3/4"
SLSS1-8	98 7/16"

Complete Kits Include:

- | | |
|-------------|-----------------|
| (1) Track | (2) Door Stops |
| (2) Hangers | (1) Floor Guide |

SLSS1-6 includes: (5) Wall Attachments

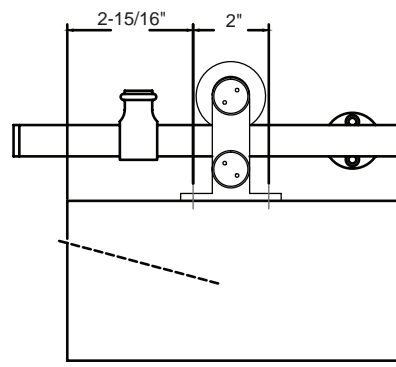
SLSS1-8 includes: (6) Wall Attachments



STAINLESS STEEL TOP MOUNT ROUND TRACK SYSTEM (WITH SOFT CLOSE)

SKU	TRACK LENGTH
SLSS1-6-SC*	78 3/4"
SLSS1-8-SC*	98 7/16"

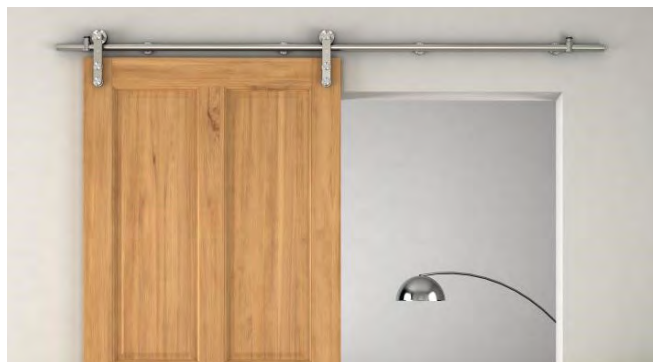
* Soft Close / Open Hardware is Included for Both Directions in Addition to the SLSS1-6 and SLSS1-8 Complete Kit Contents



BARN DOOR SIDE MOUNT

SLIDING DOOR HARDWARE

- ▶ Fits 1 $\frac{3}{8}$ " To 1 $\frac{3}{4}$ " Thick Door Panel
- ▶ Brushed Stainless Steel 304
- ▶ Side Wall Mount
- ▶ Nylon Coated Stainless Steel Wheels for Smooth Operation
- ▶ Max Weight Load 220 lbs.
- ▶ ANSI/BHMA A156.14 Grade 1 Certified to 100,000 Cycles Including Soft Close Feature
- ▶ 5 year Warranty
- ▶ Order Two Sets for Bi-parting Applications



STAINLESS STEEL SIDE MOUNT ROUND TRACK SYSTEM

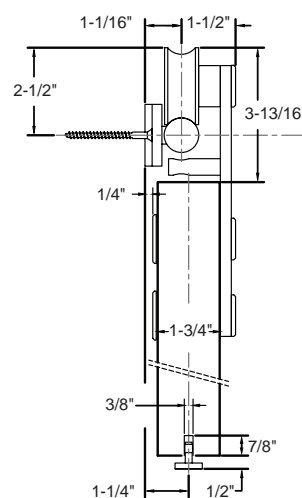
SKU	TRACK LENGTH
SLSS2-6	78 $\frac{3}{4}$ "
SLSS2-8	98 $\frac{7}{16}$ "

Complete Kits Include:

- | | |
|-------------|-----------------|
| (1) Track | (2) Door Stops |
| (2) Hangers | (1) Floor Guide |

SLSS2-6 includes: (5) Wall Attachments

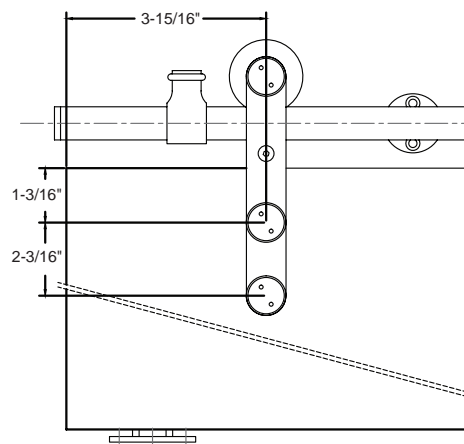
SLSS2-8 includes: (6) Wall Attachments



STAINLESS STEEL SIDE MOUNT ROUND TRACK SYSTEM (WITH SOFT CLOSE)

SKU	TRACK LENGTH
SLSS2-6-SC*	78 $\frac{3}{4}$ "
SLSS2-8-SC*	98 $\frac{7}{16}$ "

* Soft Close / Open Hardware is Included for Both Directions in Addition to the SLSS2-6 and SLSS2-8 Complete Kit Contents



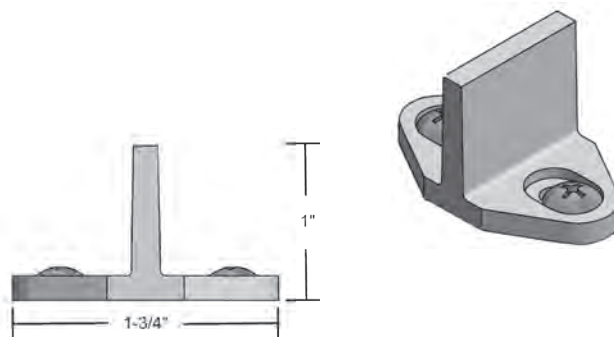
ACCESSORIES

SLIDING DOOR HARDWARE

FLOOR GUIDE

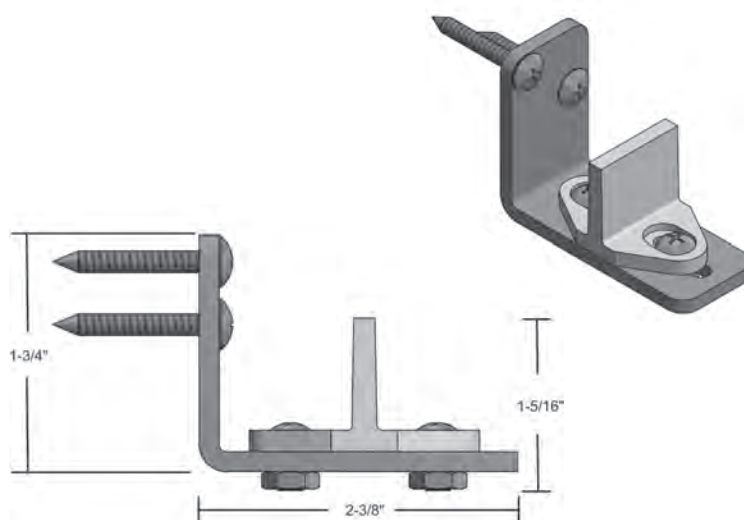
- Furnished Standard with Stainless Steel and Commercial Grade Aluminum Sliding Door Hardware Sets

SKU	MATERIAL/FINISH
SLSS-FG	Aluminum Dark Bronze Powder Coat



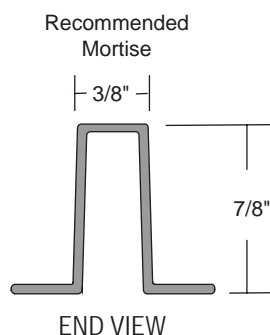
WALL MOUNTED GUIDE

SKU	MATERIAL/FINISH
SL-WG	Aluminum Floor Guide on Steel Bracket Dark Bronze Powder Coat #8-18 x 1-1/4" Truss Head Self-Tapping Screws



BOTTOM CHANNEL GUIDE

SKU	MATERIAL/LENGTH/COLOR
SL-BCG	Polypropylene 60" Dark Brown



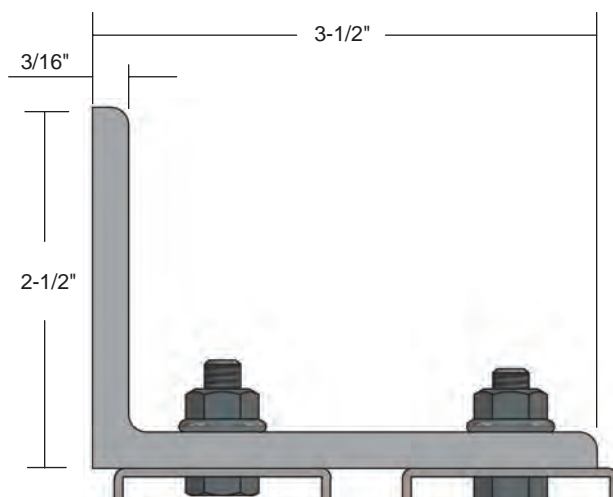
ACCESSORIES

SLIDING DOOR HARDWARE

SIDEWALL MOUNT BY-PASS BRACKET

SKU	MATERIAL/LENGTH/COLOR
SWBP-BRKT	$\frac{3}{16}$ " Steel Gray Finish

Use 3" from each end and not more than 24" on center

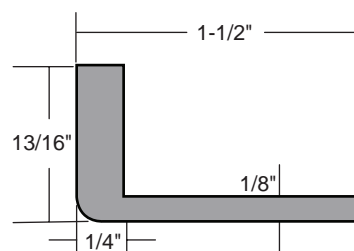


Fasteners not furnished

SIDEWALL MOUNT LOW-PROFILE BRACKET

SKU	MATERIAL/LENGTH/COLOR
SWPD-LPBRKT	$1\frac{5}{8}$ " Length Mill Finish Aluminum

Use 3" from each end and not more than 24" on center



SOFT CLOSE

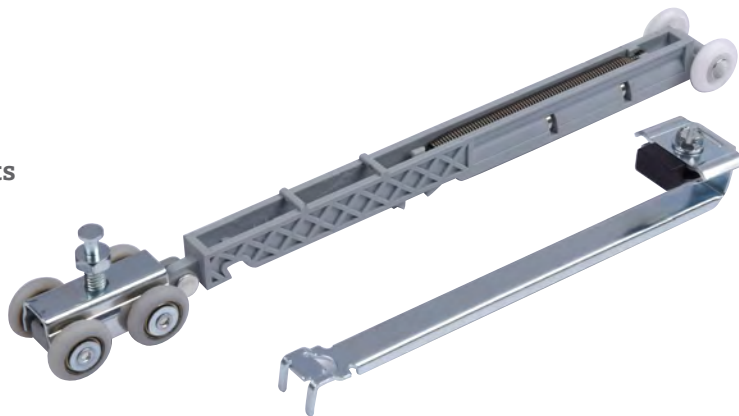
FOR ALUMINUM SLIDING DOOR HARDWARE

FEATURES:

SC

For Single Sliding Aluminum Hardware Sets

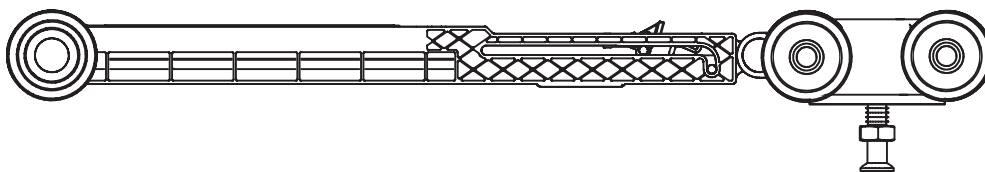
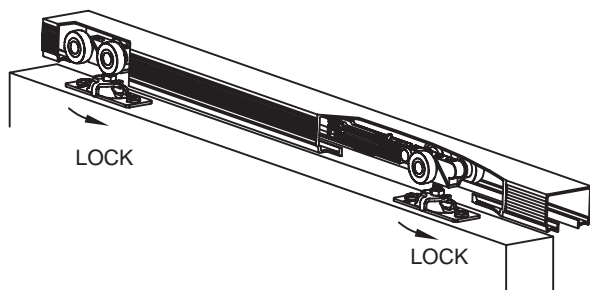
- Slows travel of the door to softly close
- Soft Close for Single Sliding Aluminum Hardware Sets
- For Both Directions Order (2) SC



SCBY

For By-Pass Sliding Aluminum Hardware Sets

- Slows travel of the door to softly close
- Set of (2) Soft Close for By-Pass Sliding Aluminum Hardware Sets
- For Both Directions Order (2) Sets SCBY



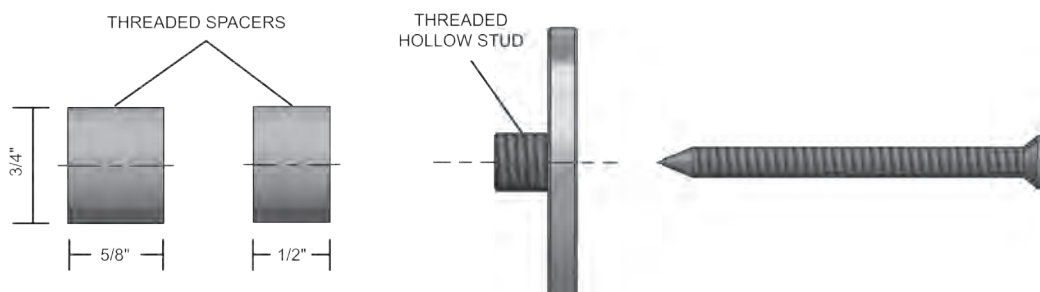
DRYWALL SPACER

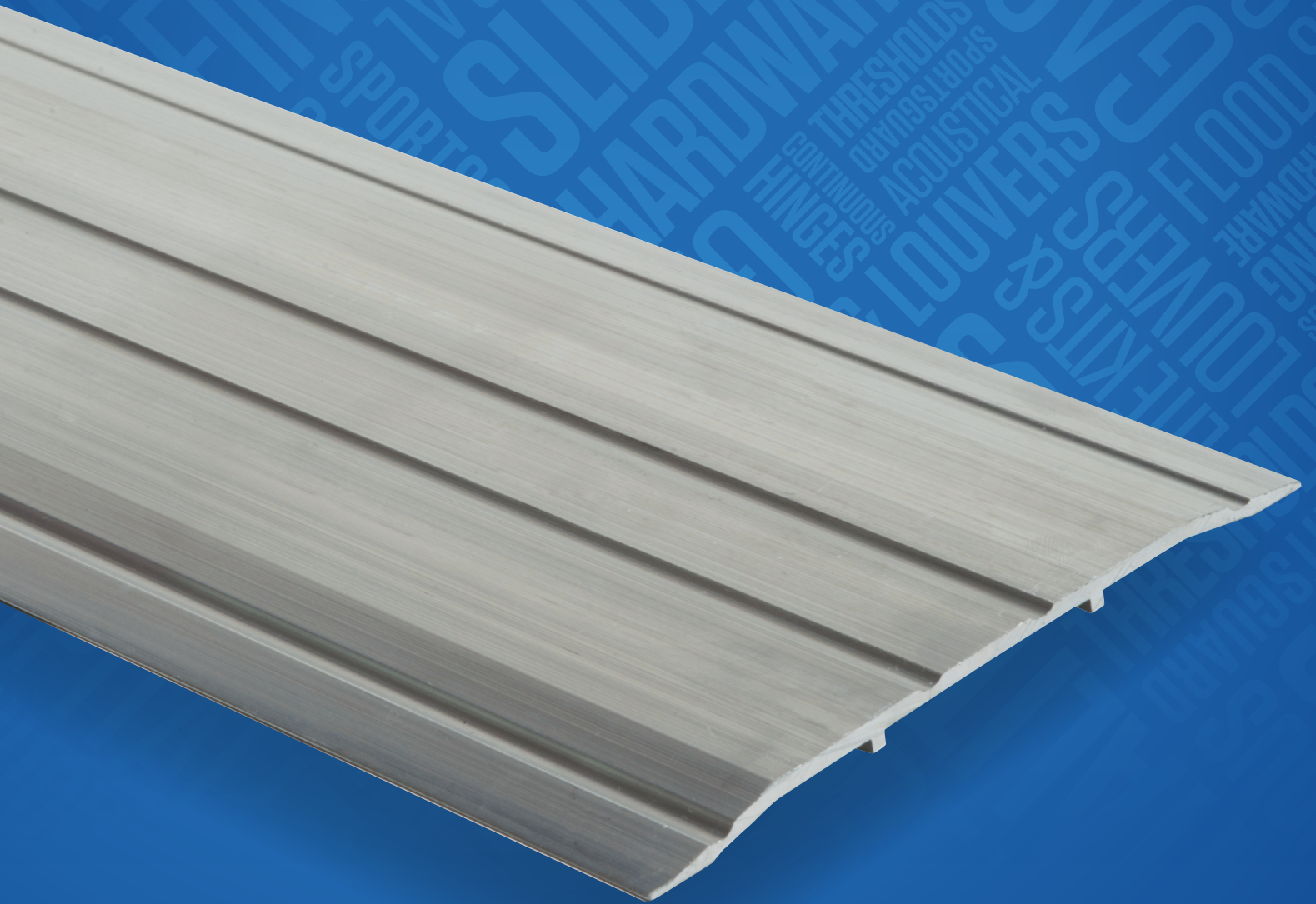
FOR STAINLESS STEEL TRACK

FEATURES:

- ▶ Spacer Kits Include Two Sizes of Spacers
Allowing Installation Directly to the Blocking
Behind the Drywall
- ▶ The Finished Stainless Steel Plate
Accepts Mounting of the SLSS Track

SKU	# OF SPACERS/TRACK LENGTH
SLSS-DWS-6	5 Total Spacers/6' Track
SLSS-DWS-8	6 Total Spacers/8' Track







TRANSITION PRODUCT INDEX:

	Page
Aluminum:	
ADA Compliant Interlocking Reducers	SG12
Aluminum Cover Plates	SG6
Architectural Bronze 1/4" Saddle	SG10
Architectural Bronze 1/2" Saddle	SG10
Architectural Bronze Custom	SG11
Custom Fabricated	SG7
Edge Components and Plates	SG8-SG9
Extended Width	SG4
Fasteners	SG13
Half Saddle	SG6
Half Saddle and Extended Width Components	SG5
Heavy Duty	SG3
Interlocking Rubber Reducers	SG12
Offset	SG6
Return Closed Ends	SG7
Return Closed Ends for Reducers	SG12
Saddle	SG2
Sports Floor Assemblies	SG7
Stainless Steel 1/4" Saddle	SG10

RATING SYMBOLS LEGEND



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



POSITIVE PRESSURE CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood Fire doors rated up to 90 minutes.



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes.



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



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



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



Online product listings at www.ul.com/database



MATERIALS / FINISHES

MATERIALS

- ▶ Transitions are Aluminum Alloy 6063, T5 temper, unless noted.
- ▶ Cover Plates 818, 814 and 828 are Aluminum Alloy 3003, H14 hardness.
- ▶ Cover Plate 838 is Aluminum Alloy 5052, H32 hardness.
- ▶ Architectural Bronze Transitions are Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.
- ▶ Brass Cover Plate 818BR is Alloy CDA 260 (Copper Alloy No. C26000) cold formed Cartridge Brass.
- ▶ Stainless Steel Transitions and Cover Plates are Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

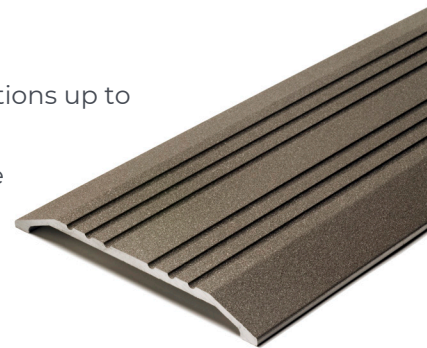
TRANSITION FINISHES

MATERIALS	FINISHES	ANSI/BHMA	US	NGP SUFFIX:
ALUMINUM:	MILL FINISH DARK BRONZE POLISHED SLIP RESISTANT	719 717	US27	NONE DKB POL SIA
ARCHITECTURAL BRONZE:	SATIN FINISH DARK BRONZE OIL RUBBED POLISHED SLIP RESISTANT	728 722 721	US4 US10B US3	BR BR-DKB BR-POL BR-SIA
STAINLESS STEEL:	MILL FINISH BRUSHED (#4) POLISHED SLIP RESISTANT	630 629	US32D US32	SS SS-BRUSHED SS-POL SS-SIA

SLIP RESISTANT FINISH



- ▶ SIA (Slick It Ain't) finish is our slip resistant textured surface, available on all transitions up to 24" wide and on 818 aluminum and brass cover plates up to 10" wide.
- ▶ Our SIA technology embeds bits of hot nickel and titanium into the surface of the transition using a high pressure thermo-electrostatic process. It was originally developed for use on aircraft carrier decks. SIA finish is very durable and will not wear off.
- ▶ This results in a slip resistant surface that is similar to high grit sandpaper.
- ▶ Aluminum and Stainless Steel SIA finish transitions are a pewter color.
- ▶ Architectural Bronze SIA finish transitions are a brass color.



POWDER COAT FINISH

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

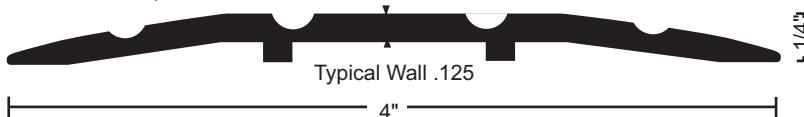
TRANSITIONS

SADDLE

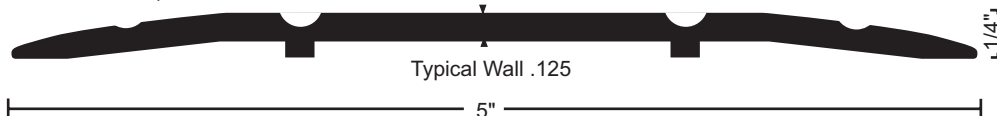
All transitions this page



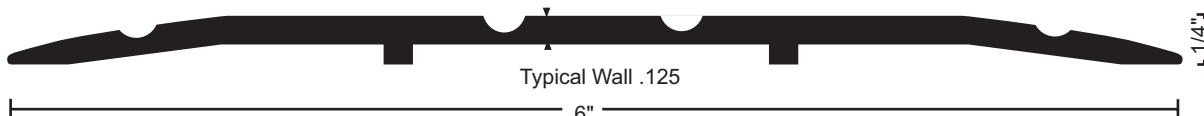
413 .53 lbs./ft.
413DKB .53 lbs./ft.



513 .68 lbs./ft.
513DKB .68 lbs./ft.



613 .88 lbs./ft.
613DKB .88 lbs./ft.



TRANSITION	WIDTH
413, 413DKB, 413BR	4"
513, 513DKB, 513BR	5"
613, 613DKB, 613BR	6"
713, 713DKB, 713BR	7"
813, 813DKB, 813BR	8"
913, 913DKB	9"
1013, 1013DKB	10"

NOTE: Flute pattern varies with width of transition

MATERIALS & FINISHES

- Aluminum Mill (Standard)
- DKB - Aluminum Dark Bronze
- BR - Architectural Bronze

NOTE: Transitions supplied with holes down the center. Specify NO HOLES for blank material.



Optional:
Slip Resistant
SIA Finish

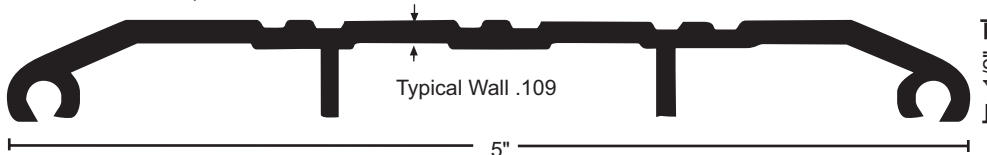
FASTENERS

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

424E .60 lbs./ft.
424EDKB .60 lbs./ft.



425E .80 lbs./ft.
425EDKB .80 lbs./ft.



TRANSITION	WIDTH
425E, 425EDKB	5"
426E, 426EDKB	6"
427E, 427EDKB	7"
428E, 428EDKB	8"
429E, 429EDKB	9"
430E, 430EDKB	10"

NOTE: Flute pattern varies with width of transition



VINYL FOOT SEAL OPTION:

- Used instead of caulking to increase the weather resistance of the transition. Specify on order.

TRANSITIONS

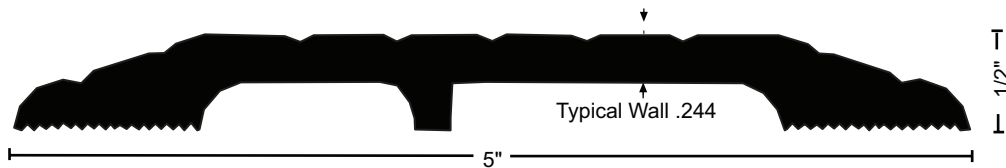
HEAVY DUTY

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

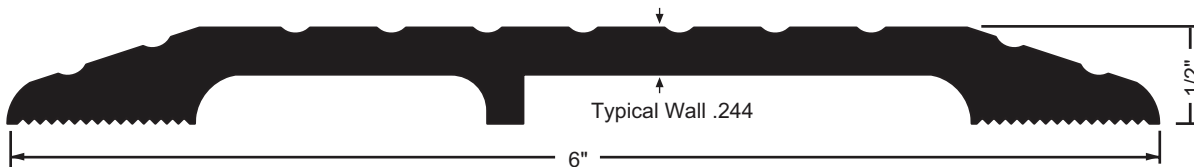
All transitions this page



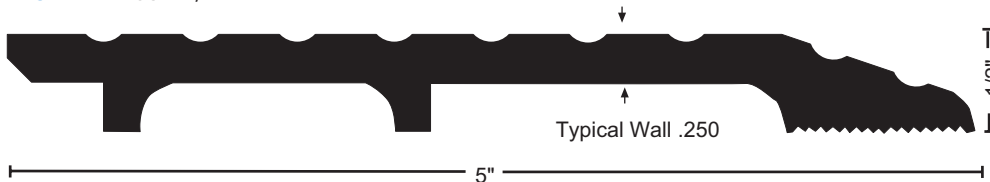
Optional:
Slip Resistant
SIA Finish



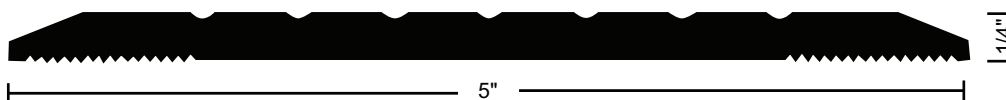
425HD 1.6 lbs./ft.
425HDDKB 1.6 lbs./ft.



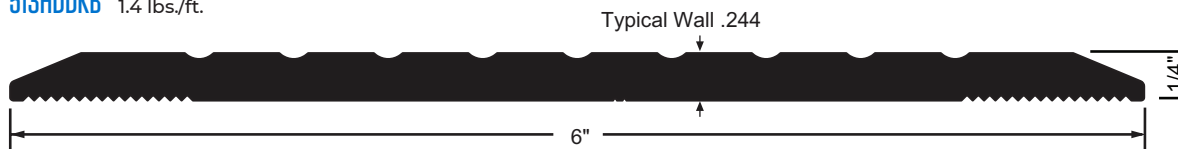
426HD 1.98 lbs./ft.
426HDDKB 1.98 lbs./ft.



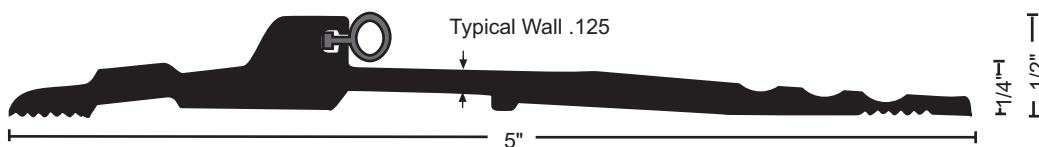
325HD 1.65 lbs./ft.
325HDDKB 1.65 lbs./ft.



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



613HD 1.66 lbs./ft.
613HDDKB 1.66 lbs./ft.



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



BUMPER SEAL

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

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

TRANSITIONS / COMPONENTS

HALF SADDLE AND EXTENDED WIDTH

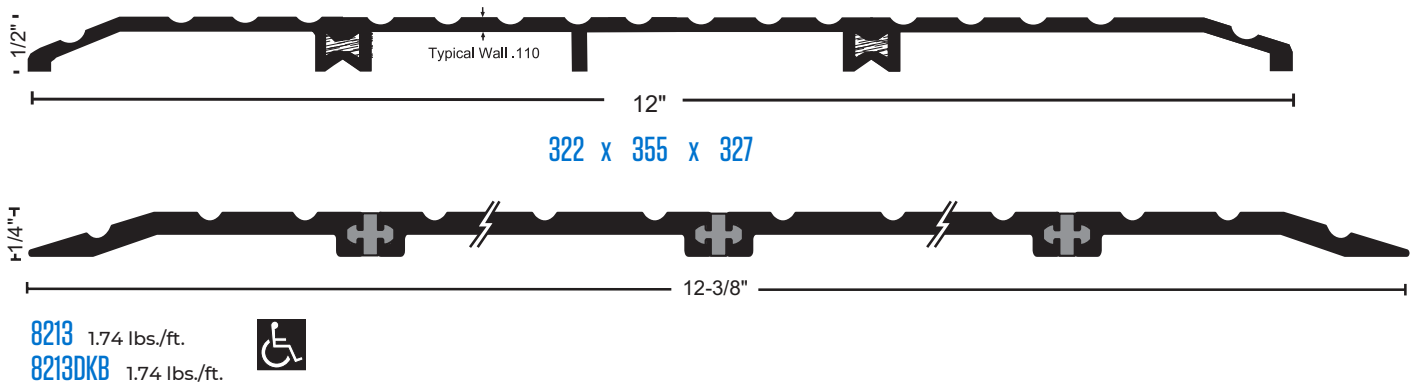
All products this page



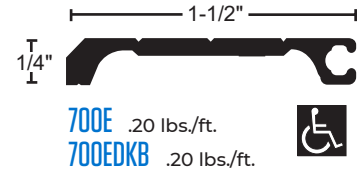
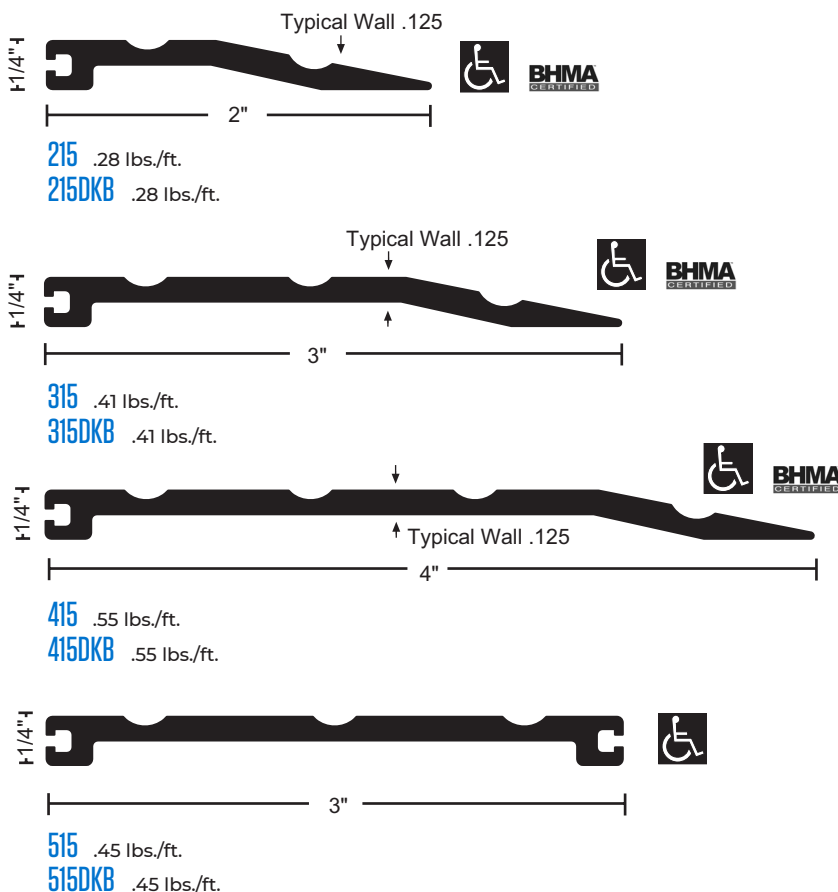
EXTENDED WIDTH

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

EXAMPLES - HOW TO ORDER:



HALF SADDLE AND EXTENDED WIDTH COMPONENTS



MATERIALS & FINISHES

- Aluminum Mill (Standard)
- DKB - Aluminum Dark Bronze

Optional:
Slip Resistant
SIA Finish

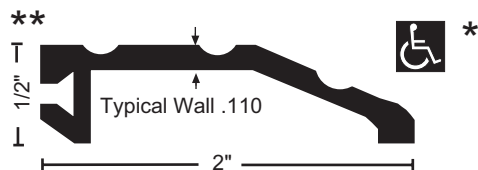
FASTENERS

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

TRANSITIONS / COMPONENTS

HALF SADDLE AND EXTENDED WIDTH

All transitions this page



321 .34 lbs./ft.

321DKB .34 lbs./ft.

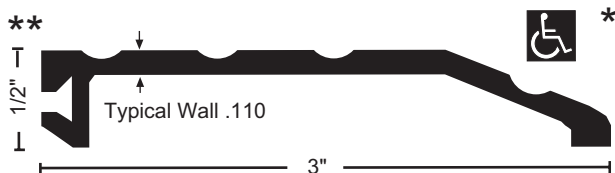


MATERIALS & FINISHES

- Aluminum Mill (Standard)
- DKB - Aluminum Dark Bronze



Optional:
Slip Resistant
SIA Finish



322 .48 lbs./ft.

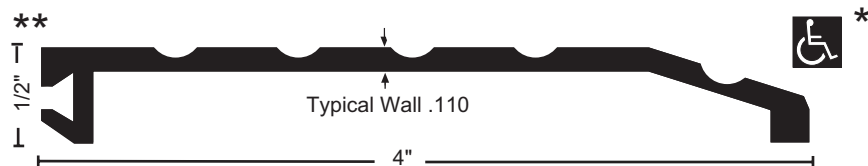
322DKB .48 lbs./ft.



FASTENERS

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

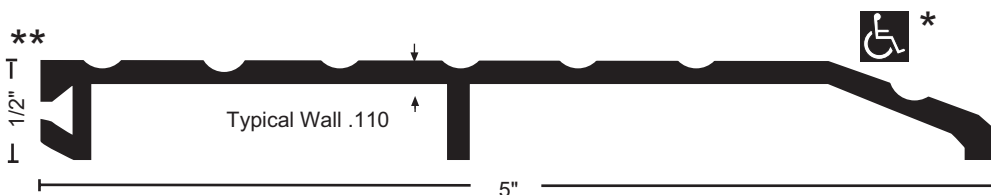
* When installed with the non-beveled edge FLUSH with flooring, or where no greater than 1/4" vertical rise occurs.



327 .60 lbs./ft.

327DKB .60 lbs./ft.

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



350 .83 lbs./ft.

350DKB .83 lbs./ft.



355 .79 lbs./ft.

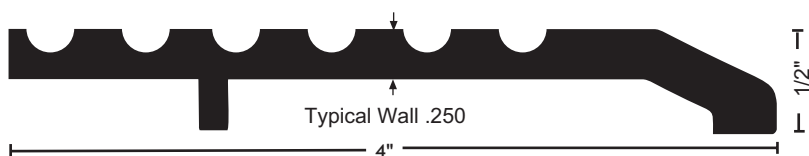
355DKB .79 lbs./ft.



TRANSITIONS/COVER PLATES

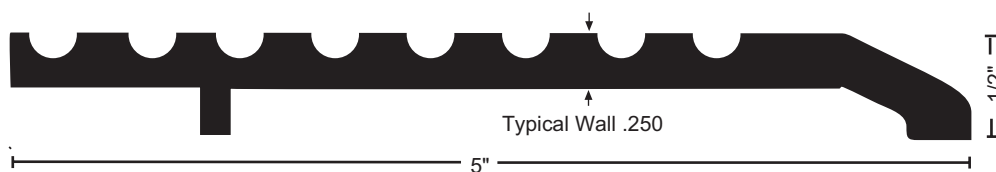
HALF SADDLE, OFFSET TRANSITIONS, ALUMINUM COVER PLATES

HALF SADDLE



324 1.20 lbs./ft.

324DKB 1.20 lbs./ft.



325 1.32 lbs./ft.

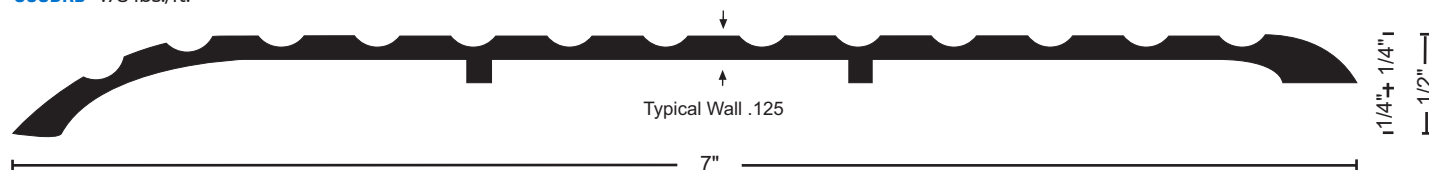
325DKB 1.32 lbs./ft.

OFFSET TRANSITIONS



653 .78 lbs./ft.

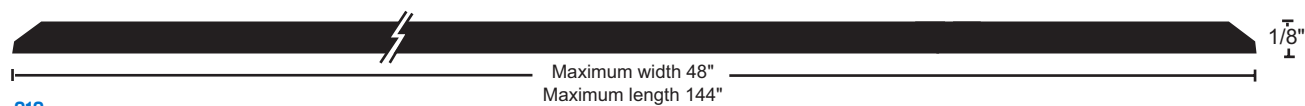
653DKB .78 lbs./ft.



659 .89 lbs./ft.

659DKB .89 lbs./ft.

ALUMINUM COVER PLATES



818 1/8"



814 1/4"



838 3/8"

All transitions this page



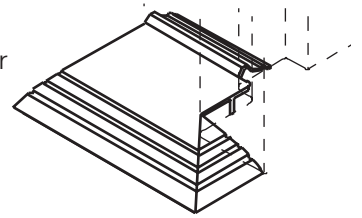
* when installed with the non-beveled edge flush with flooring, or where no greater than 1/4" vertical rise occurs.

TRANSITIONS/ENDS/ASSEMBLIES

CUSTOM TRANSITION OPTIONS

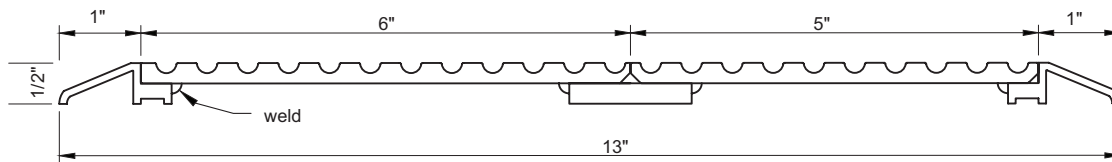
RETURN CLOSED ENDS

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



CUSTOM FABRICATED TRANSITIONS

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

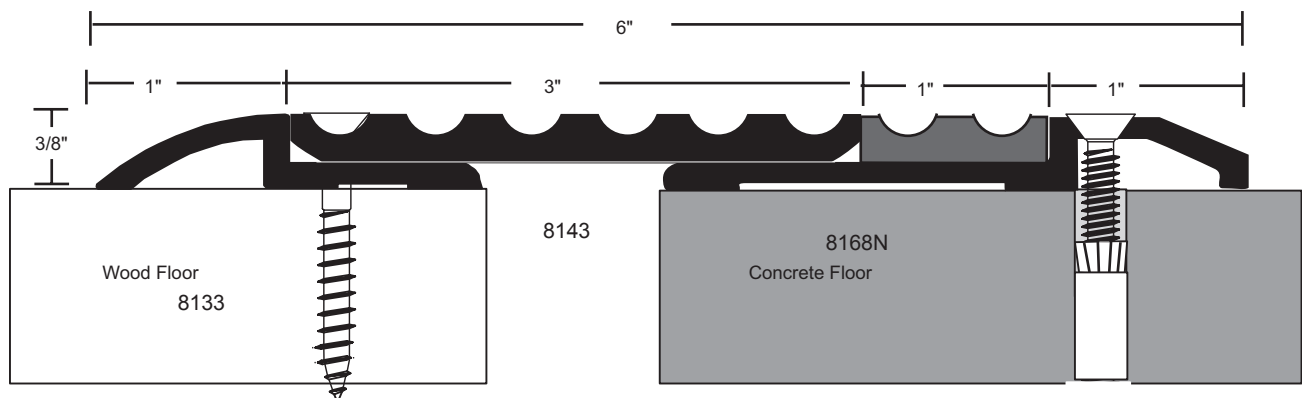


8137 x 8146 (Rip to 6") x 8145 x 8137 x Bar4 x Welded profile Assembly View

SPORTS FLOOR TRANSITION ASSEMBLIES

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

Material supplied loose. NO HOLES standard.



8133 x 8143 x 8168N (Neoprene) **x 8139 x 10-24 MS/LA**

Also available in 1/2" high and in other widths - contact NGP Technical Department

Available 1/2" high and in a variety of widths.

Contact the NGP Technical Department for additional information.

EDGE COMPONENTS

CUSTOM FABRICATED COMPONENTS

Choose from various height and width components to build custom transitions to meet special job requirements. For assistance contact our tech support team.

All transitions this page

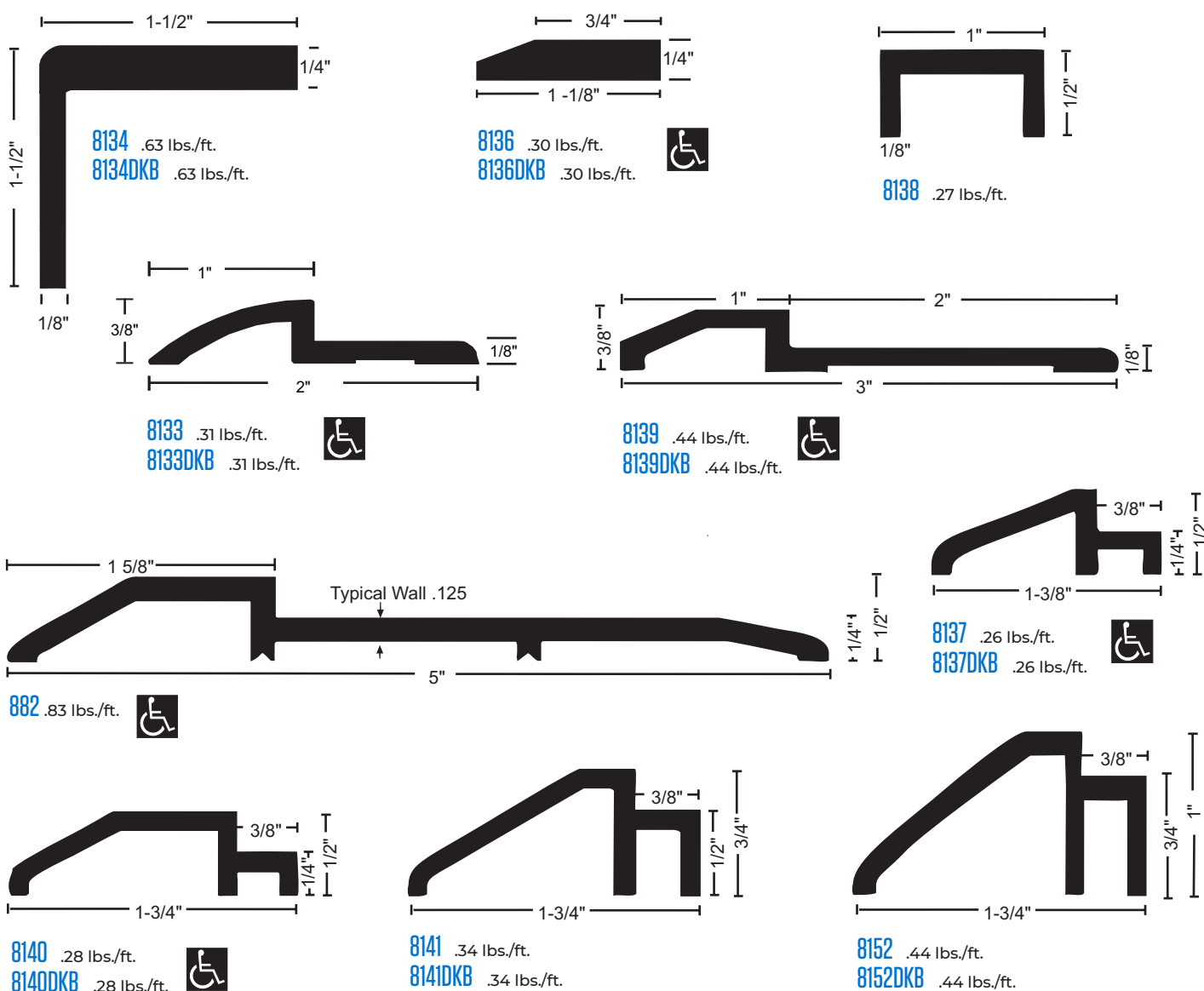


Select the proper height edge components. Select the appropriate center plates to construct the width needed. Plates may be butted together or ripped to make specific widths. Support joints and wider spans with bar supports.

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

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

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



TRANSITION ASSEMBLIES

CUSTOM FABRICATED COMPONENTS



8142 .50 lbs./ft. **8142DKB** .50 lbs./ft.



8143 .75 lbs./ft. **8143DKB** .75 lbs./ft.



8144 1.00 lbs./ft. **8144DKB** 1.00 lbs./ft.



8145 1.20 lbs./ft. **8145DKB** 1.20 lbs./ft.



8146 1.50 lbs./ft. **8146DKB** 1.50 lbs./ft.



8147 1.70 lbs./ft. **8147DKB** 1.70 lbs./ft.



8148 2.00 lbs./ft. **8148DKB** 2.00 lbs./ft.



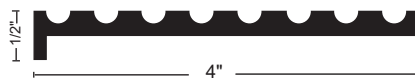
8149 2.20 lbs./ft. **8149DKB** 2.20 lbs./ft.



8150 2.40 lbs./ft. **8150DKB** 2.40 lbs./ft.



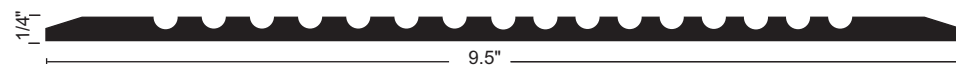
8163 .75 lbs./ft. **8163DKB** .75 lbs./ft.



8164 1.00 lbs./ft. **8164DKB** 1.00 lbs./ft.



8167 1.76 lbs./ft. **8167DKB** 1.76 lbs./ft.



8170 2.33 lbs./ft. **8170DKB** 2.33 lbs./ft.



8168N Neoprene .11 lbs./ft. self adhesive, used as an expansion joint or thermal break between floor plates.

All transitions this page



BHMA CERTIFIED except 8168N



except 8163, 8164, 8167



Optional:
Slip Resistant
SIA Finish

MATERIALS & FINISHES

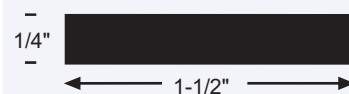
- Aluminum Mill (Standard)
- DKB - Aluminum Dark Bronze

FASTENERS

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

BAR SUPPORTS

Used as support under transition assemblies



BAR4

illustrations
shown at 50%

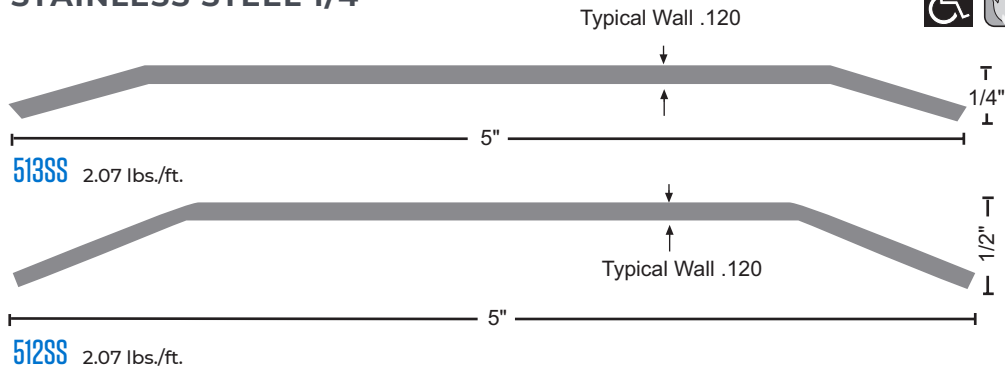
SADDLE TRANSITIONS

STAINLESS AND ARCHITECTURAL BRONZE TRANSITIONS

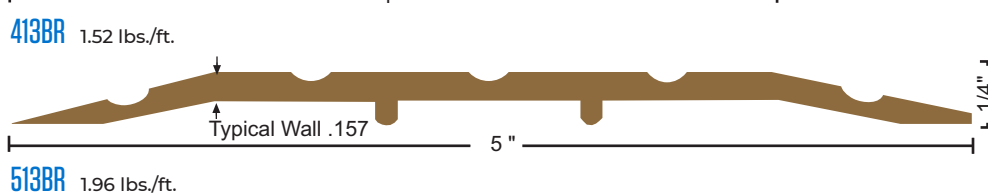
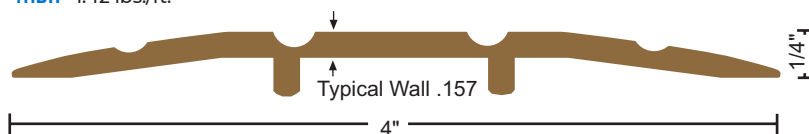
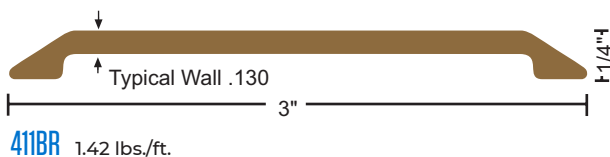
All transitions this page



STAINLESS STEEL 1/4"



ARCHITECTURAL BRONZE 1/4"

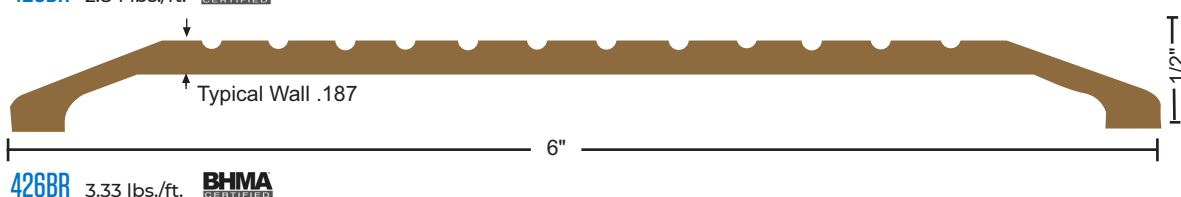
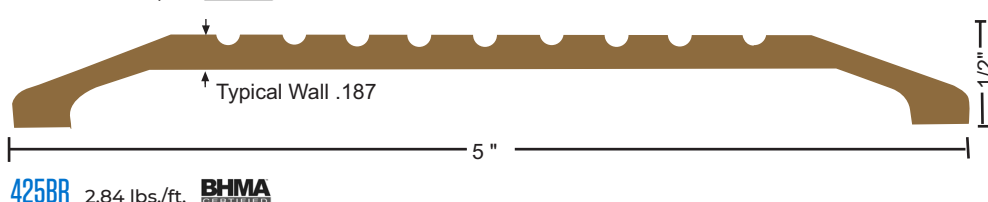
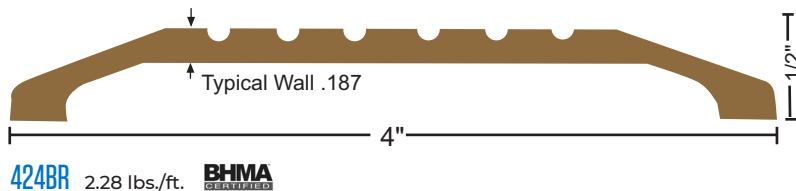


FASTENERS

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

NOTE: Transitions supplied with holes down the center. Specify NO HOLES for blank material.

ARCHITECTURAL BRONZE 1/2"



CUSTOM TRANSITIONS

ARCHITECTURAL BRONZE COMPONENTS

Choose from various height and width components to build custom transitions to meet special job requirements. See the custom fabricated transition example illustrated on page T9. For assistance contact our tech support team.

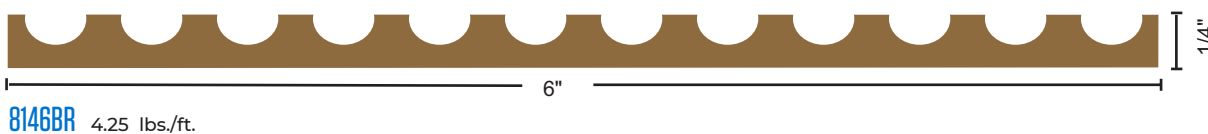
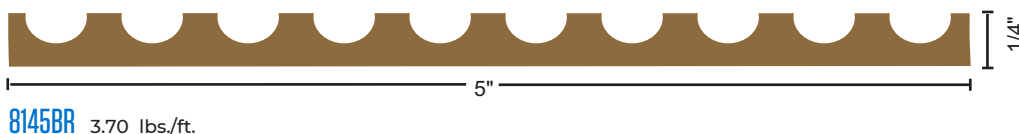
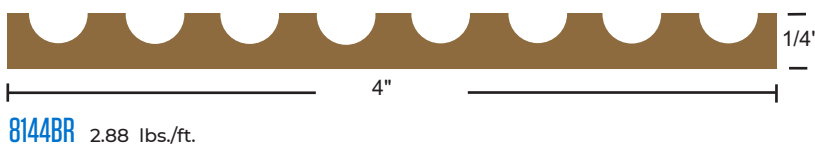
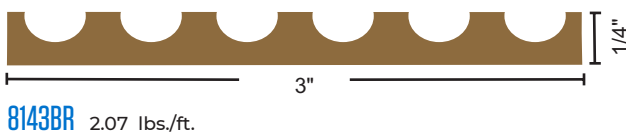
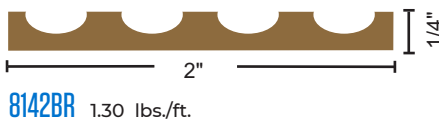
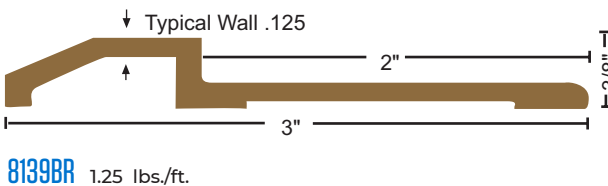
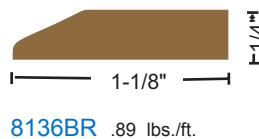
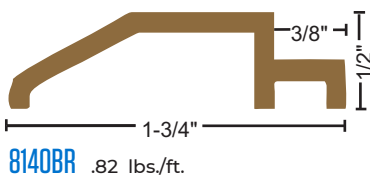


Select the proper height edge components. Select the appropriate center plates to construct the width needed. Plates may be butted together or ripped to make specific widths. Support joints and wider spans with bar supports.

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

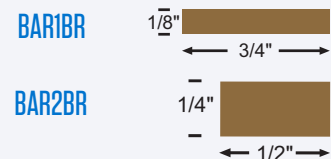
Transition assembly components may be ordered separately for field assembly or welded into one piece units in our custom fabrication shop. They are supplied undrilled unless a template is provided. Ripping and beveling options are available. All custom fabricated assemblies have a tolerance of $\pm 1/16"$.

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



BAR SUPPORTS

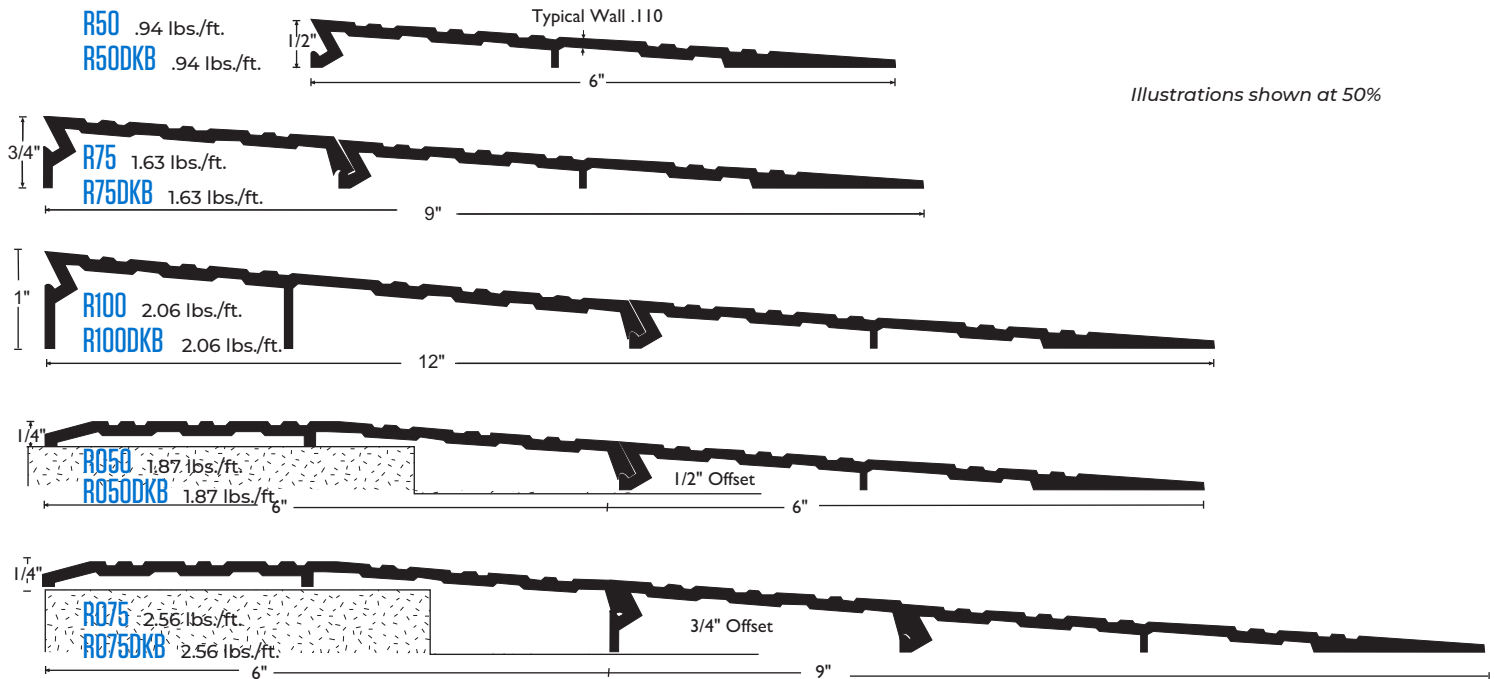
Used as support under transition assemblies



INTERLOCKING REDUCERS

CUSTOM FABRICATED COMPONENTS

ADA COMPLIANT



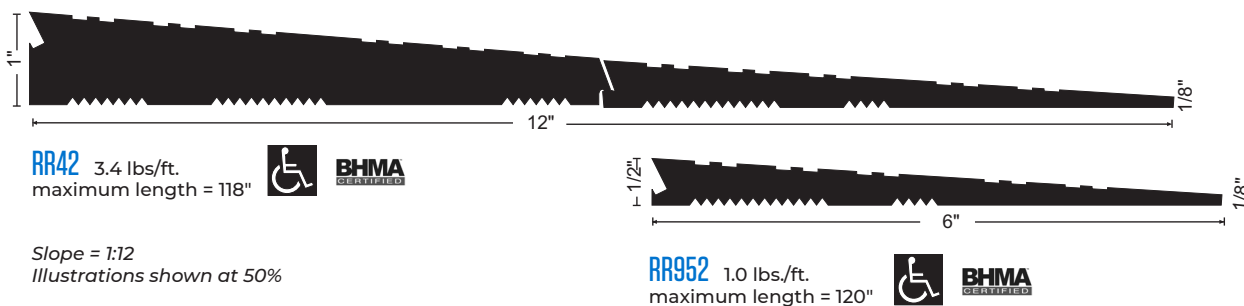
RETURN CLOSED ENDS FOR REDUCERS

- Return closed ends provide an attractive finished appearance to reducers.
- They are available in several lengths and can be trimmed to accommodate any size reducer assembly.
- RCE's are also available with slip-resistant "SIA" finish (suffix "SIA").



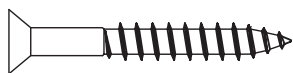
INTERLOCKING RUBBER REDUCERS

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



TRANSITION FASTENERS

STANDARD AND OPTIONAL FASTENERS



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



Phillips Head
Top View



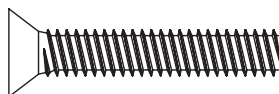
Spanner Head
Top View



Torx Security
Top View



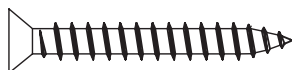
#12 x 1 1/2" Phillips Flat Head Wood Screw
Use 9/64" Drill bit
Also #12 x 1"



#1/4-20 x 1 1/2" Phillips Flat Head
Machine Screw



#1/4-20 Expansion Anchor
Carbon Steel
Use 3/8" Drill bit



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



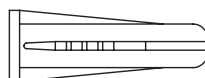
#10-24 x 1 1/2" Phillips Flat Head
Machine Screw
Also #10-24 x 3/4", #10-24 x 1"



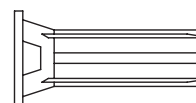
#10-24 Lead Anchor
Use 3/8" Drill bit and
Powers seating tool



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



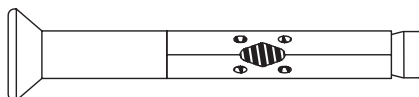
Plastic Anchor Various Sizes
Use Drill Size = Anchor Size



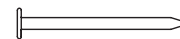
Lead Expansion Shield
4% Antimonial Lead
Use 5/16" Drill bit



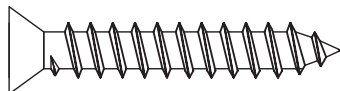
#6 x 3/4" Phillips Flat Head Self-tapping
Machine Screw
Use 3/32" Drill bit



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



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



Hilti Kwik-Con II 1/4" x 1-3/4" Screw,
Available with Phillips Head or Torx Head.
Use Hilti TKC large concrete bit SDS 1/4"
Tough Carbide

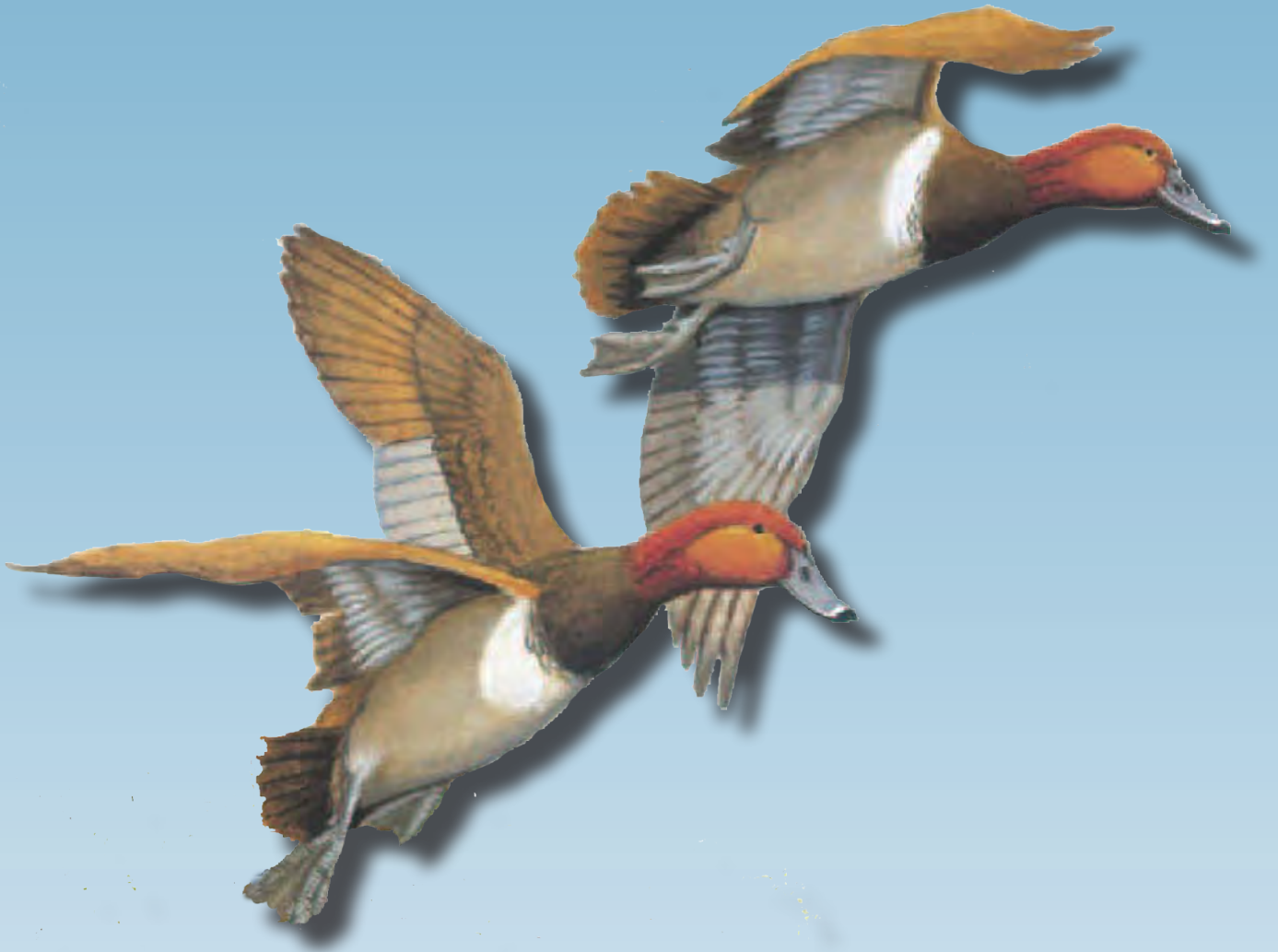


NATIONAL GUARD PRODUCTS, INC.

4985 East Raines Road | Memphis, TN 38118
Phone: 800-647-7874 | Fax: 800-255-7874
orders@ngp.com | quotes@ngp.com

ngp.com

THRESHOLDS



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



Threshold Product Index:

Aluminum Thresholds

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Bumper Seal	T10B-T13, T17, T21-T22
Carpet Dividers/ Edges	T14
Cast Aluminum	T35
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Elevators	T23
Extended Width Thresholds	T8A-T8B
Floor Closer	T36, T37
Half Saddle	T16- T18
Heavy Duty	T10-T10A
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Offset	T22
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Safety Tread Plates	T33
Stair Nosings	T34
Stop Strips	T11
Thermal Break	T20-T21
Transition Strip	T16

Architectural Bronze Thresholds

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Cover Plates	T41
Custom Fabricated	T47
Floor Closer	T36
Half Saddle	T45
Interlocking	T46
Return Closed Ends	T4
Saddle	T42-T43
Thermal Break	T44

Stainless Steel Thresholds

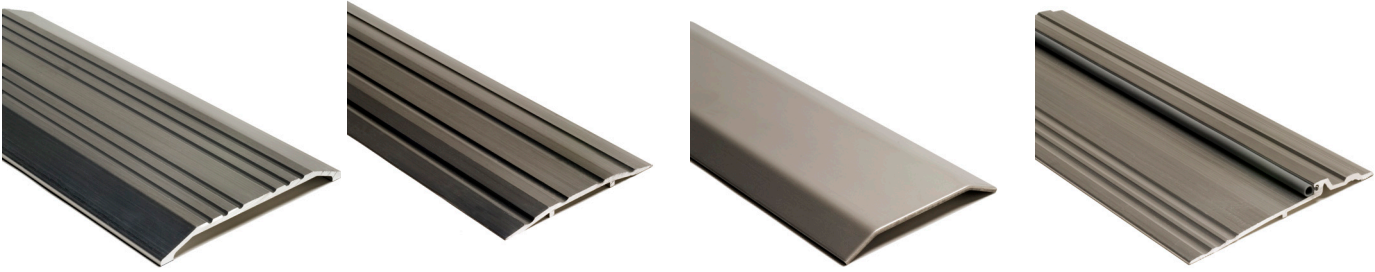
Bumper Seal	T40
Cover Plates	T40
Floor Closer	T36
Return Closed Ends	T4
Saddle	T38-T39

Vinyl Thresholds

Carpet/Tile Divider	T15
---------------------	-----

Fasteners

Fasteners	T40
-----------	-----



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BAR1BR	T47	322	T18	427	T7	813	T8, 37	1013SS	T38	8167	T30
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RCE	T4	Welded	T10A	430E	T6	828	T33	4424	T35	8426	T20
RCE-9	T25	327	T18	431	T8B	838	T32	4425	T35	8426BR	T44
12V	T23	327BR	T45	WA431	7A	882	T31	4513	T35	8427	T20
RCE-15	T25	327X355X327	T19	432	T8B	883SS	T40	RR5007BL	T29	8427BR	T44
RCE-21	T25	350	T18	WA432	7A	884	T13	8013	T20A	8428	T20
RCE-30	T25	350BR	T45	442BR	T46	884B/S	T18	8113	T8A, T20B	8428BR	T44
RR42	T29	355	T18	457	T16	884-6	T22	WA8113	8A	8429	T20
R50	T24, 28	398	T15	458	T16	884-7	T22	8132	T16	8429BR	T44
RO50	T26	399	T15	473BR	T46	884-8	T22	WA8213	8A	8430	T20
58	T23	400	T15	483BR	T46	884SS	T40	8133	T31	8430BR	T44
R75	T24	401	T15	484BR	T46	885	T22	8134	T31	8433	T20B
RO75	T26	402	T15	512	T9	885-6	T22	8135	T12	8434	T21
80B	T46	404	T14	512SS	T39	885-7	T22	8136	T31	8435	T21
R100	T24	407	T15	513	T8	890	T13	8136BR	T47	8436	T21
RO100	T26	410	T9	513BR	T42	895BR	T46	8137	T31	8437	T21
111	T9	411	T9	513HD	T10	896	T11	8138	T31	8475	T7
R125	T24	411BR	T42	513SS	T38	896-ADJ	T10B	8139	T31	8513	T20A
RO125	T26	412	T9	515	T16	896BR	T41	8139BR	T47	8533	T20B
R150	T24	412SS	T39	525	T7	896HD	T10	8140	T31	8613	T20A
RO150	T26	413	T8, 37	612SS	T39	896SS	T40	8140BR	T47	8633	T20B
R175	T24	413BR	T42	613	T8	897	T12	8141	T31	8713	T20A
RO175	T26	413SS	T38	613SS	T38	898V	T17	8142	T30	8813	T20A
R200	T24	414	T14	613BR	T42	912SS	T39	8142BR	T47	8913	T20A
RO200	T26	415	T16	613HD	T10A	913	T8	8143	T30		
211	T7	415BR	T45	653	T14	913SS	T38	8143BR	T47		
215	T16	416	T14	654	T29	950	T11	8144	T30		
215BR	T45	417	T14	655	T14	951	T28	8144BR	T47		
R225	T24	424	T7	656	T14	RR952	T29	8145	T30		
RO225	T26	424BR	T43	657	T29	953	T28	8145BR	T47		
R250	T24	424E	T6, 37	659	T14	954	T28	8146	T30		
RO250	T26	425	T7	700E	T11	955	T28	8146BR	T47		
Type 1	T36	425BR	T43	712SS	T39	957	T28	8147	T30		
Type 3	T36	425E	T6, 37	713	T8, 37	959	T28	8148	T30		
Type 4	T36	425HD	T10	713BR	T42	960	T28	8149	T30		
Type 5	T36	426	T7	713SS	T38	961	T28	8150	T30		
315	T16	426BR	T43	803	T13	962	T28	8152	T31		
315BR	T45	426E	T6	804	T13	1012SS	T39	8163	T30		

Rating Symbols Legend



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



POSITIVE PRESSURE CERTIFIED by UL to ANSI/UL10C; complies with IBC, NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood Fire doors rated up to 90 minutes.



CERTIFIED by UL to CAN/ULC-S104 and ANSI/UL10B; complies with NFPA 80 and NFPA 252 for application to Hollow Metal fire doors rated up to 3 Hrs., and Wood fire doors rated up to 90 minutes.



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



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



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



Online product listings at www.ul.com/database



ANSI/BHMA

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

ANSI/BHMA A156.21 American National Standard for Thresholds

1 Product Section	2 Material	3 Configuration	4 Surface	5 Description	6 Description
"J" designates Architectural Door Trim, Thresholds	1. Architectural Brass or Bronze 3. Aluminum 5. Stainless Steel 7. Rubber & similar non-metallics 0. Other	1. Compressing Top 2. Flat Saddle 3. Half Saddle 4. Interlocking 5. Rabbeted, latching/ Panic 6. Rabbeted, latching/ Panic w/gasket 7. Plate 8. Ramped 9. Saddle for floor closer. 0. None designated	1. Fluted 2. Fluted w/slip-resistant finish 3. Smooth 4. Smooth w/ slip resistant finish	1. Applied Stop 2. Applied Stop w/ gasket 3. Barrier Free 4. Carpet Separator 5. Ends Mitered 6. Expansion Assembly 7. Hook Strip Applied to door 8. Offset 9. Thermal Barrier 0. None Designated	1. Applied Stop 2. Applied Stop w/ gasket 3. Barrier Free 4. Carpet Separator 5. Ends Mitered 6. Expansion Assembly 7. Hook Strip Applied to door 8. Offset 9. Thermal Barrier 0. None Designated Suffix- HD = Heavy Duty

Materials

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

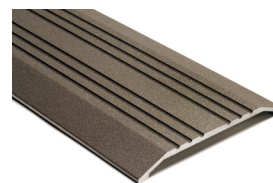
Architectural Bronze Thresholds are Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.
Brass Cover Plate 818BR is Alloy CDA 260 (Copper Alloy No. C26000) cold formed Cartridge Brass.

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

Threshold Finishes

				NGP Suffix:
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Dark Bronze			DKB
	Polished	ANSI/BHMA 717		POL
	Slip Resistant			SIA
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
	Slip Resistant			BR-SIA
Stainless Steel:	Mill Finish			SS
	Brushed (#4)	ANSI/BHMA 630	US32D	SS-Brushed
	Polished	ANSI/BHMA 629	US32	SS-POL
	Slip Resistant			SS-SIA

Slip Resistant Finish



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

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

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

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



General Information

Aluminum and Architectural Bronze Thresholds and Assembly Components are furnished longer than ordered to allow for field sizing and fitting.

1/2" is added to thresholds under 61"; 1" is added to thresholds over 61", unless ordered as "net" cut.

Unless noted, thresholds are punched for and provided with fasteners. Assembly parts are supplied undrilled with fasteners provided.

Special Drilling and Notching is available; details must be provided with the order.

Stainless Steel Thresholds are supplied "net" cut.

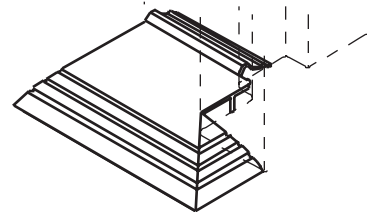
Radiation shielding with .030" thick Lead is available on most thresholds. Specify "Lead Lined".

Catalog Illustrations are full scale, except as noted.

Returned Closed Ends

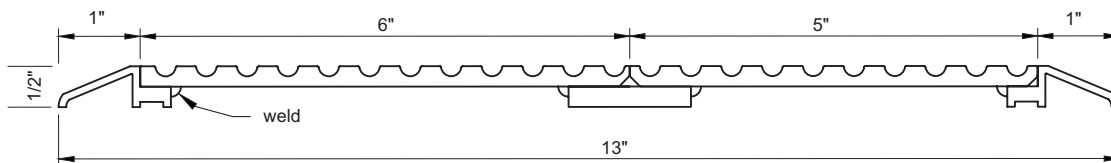
Return Closed Ends (RCE's) are available on most beveled thresholds.

The corner is miter cut on a 45 degree angle and returned to the face of the door frame for a neat, clean, finished appearance. Specify: "RCE"



Custom Fabricated Thresholds

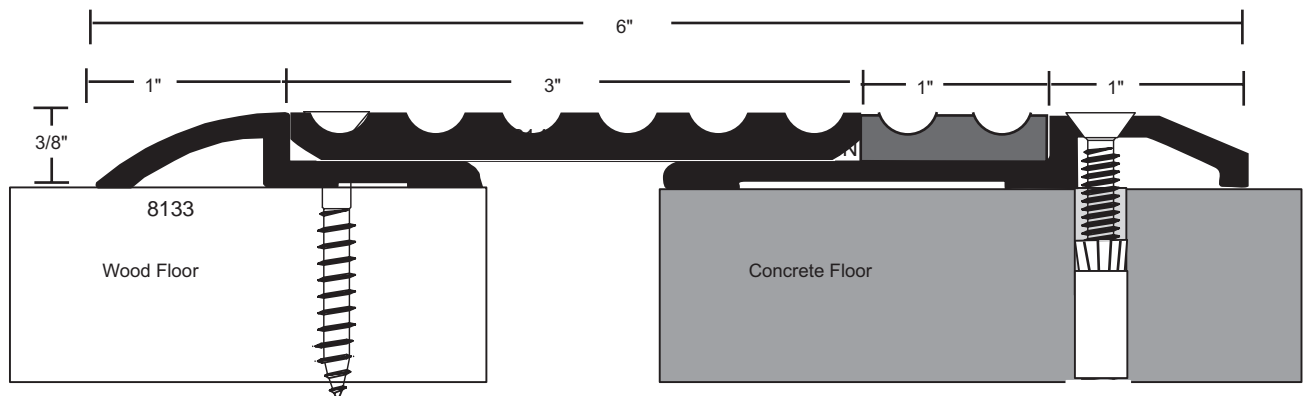
Our Custom Fab dept. specializes in producing custom made-to order thresholds to your specifications. Submit your details to our technical dept. for a quotation and drawing for your approval. Components shown on pages T-30, T-31 and T-47 are used to build special assemblies like the one illustrated below.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



8137 x 8146 (Rip to 6") x 8145 x 8137 x Bar4 x Welded profile Assembly View

Sports Floor Threshold Assemblies

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



8133 x 8143 x 8168N (Neoprene) x 8139 x 10-24 MS/LA

Also available in 1/2" high and in other widths - contact NGP Technical Department

LEED Green Building

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a national standard for developing high-performance, sustainable buildings developed by the U. S. Green Building Council.

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

	Post Consumer Recycled %	Pre-Consumer Recycled %
Aluminum Thresholds	18%	49%
Architectural Bronze Thresholds	70%	25%
Stainless Steel Thresholds	25%	3%
Rubber Ramps	0%	0%
Gasketing with Aluminum Retainers	13%	37%
Gasketing with Bronze Retainers	52%	19%
Gasketing with Stainless Steel Retainers	19%	2%
Self-Adhesive Gasketing	0%	0%
Finger Guard 2248	13%	37%
Finger Guard 2252	0%	0%
Metal Edge/Astragal sets (Steel)	25%	3%
Lite Kits & Louvers (Steel)	15%	5%
Aluminum Louvers	18%	49%

Our current LEED letter containing LEED qualification information for all our products is available at www.ngp.com

Environmental Product Declarations (EPD) prepared and certified by an Independent Laboratory based on Life Cycle Assessments (LCA) of our products may be viewed on our website www.ngp.com

Health Product Declarations (HPD) may be viewed on our website www.ngp.com

National Guard Products sustainability report may be viewed on our website www.ngp.com

Contact us regarding our end of use product recycling program.

Buy American Requirements

Buy American Act

Over 99% of our products are produced in the United States as a domestic construction material, as defined in the Buy American Act (BAA) of March 1933 and amended by the Buy American Act of 1988 and FAR 52.225-9. A Buy American certificate may be obtained on our website www.ngp.com

Federal American Recovery and Reinvestment Act

More than 99% of our products qualify as manufactured products produced in the United States as manufactured goods, as defined in OMB Guidance (176.140; 176.70(a) (2) (ii); 176.160, complying with the Federal American Recovery Reinvestment Act, ARRA-2009. Contact us for a Buy America ARRA certificate for your project.

Buy America

More than 99% of our products comply with Buy America Requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661. Contact us for a Certificate of Compliance for your project.

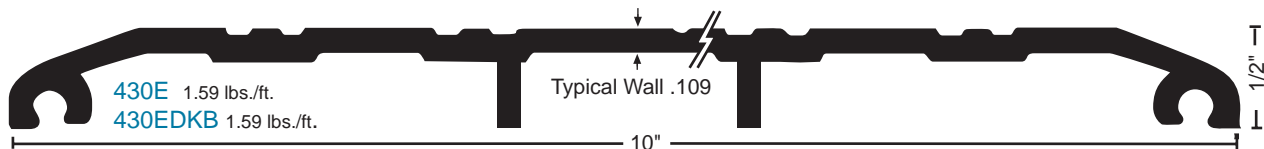
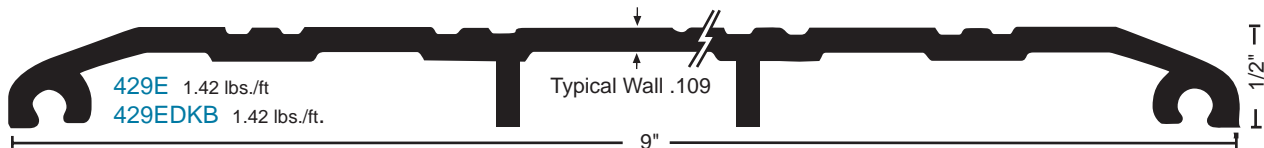
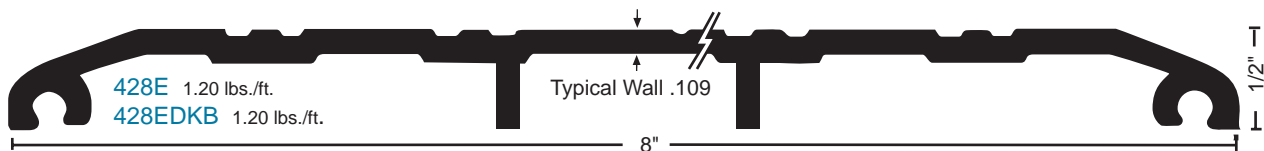
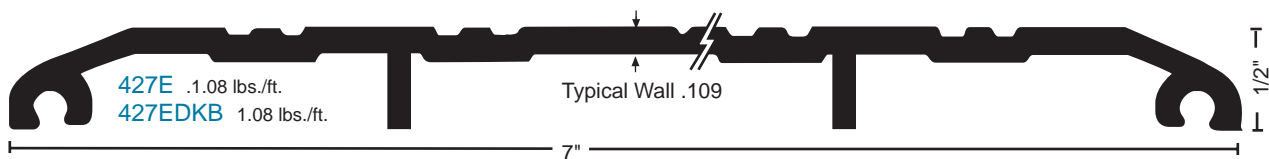
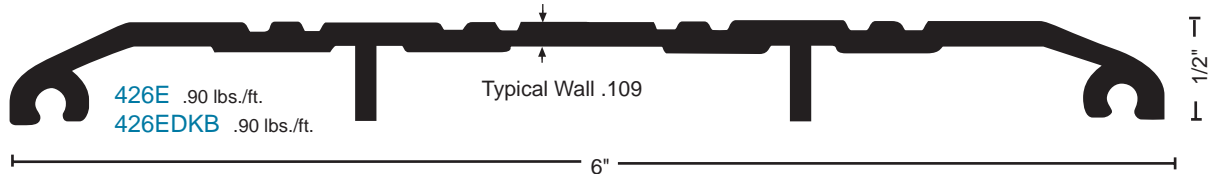
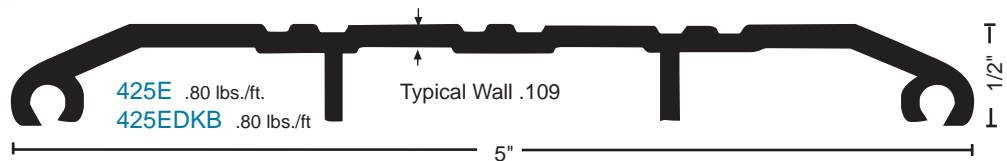
Components of unknown origin are considered to have been produced or manufactured outside the United States.





Saddle Thresholds

All thresholds this page



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

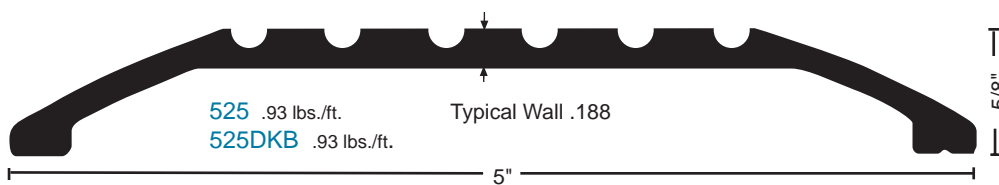
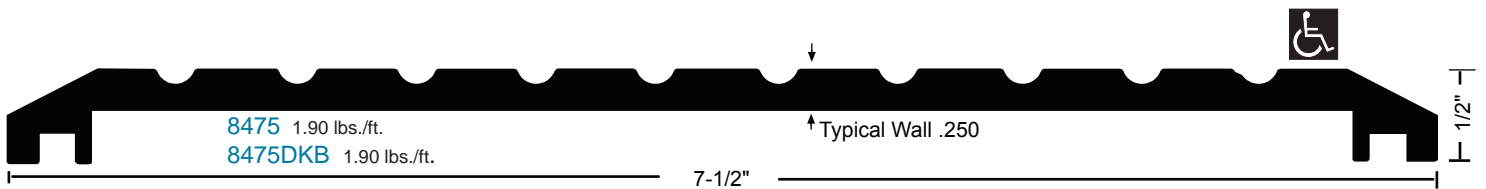
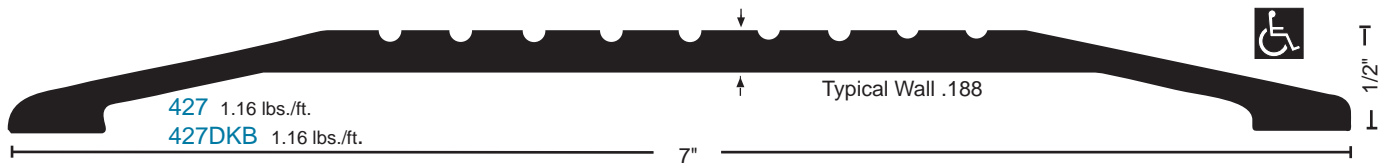
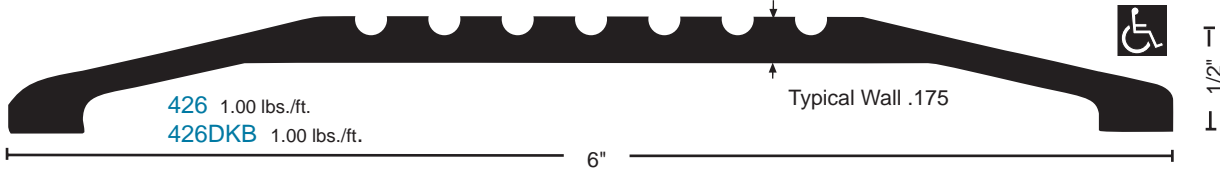
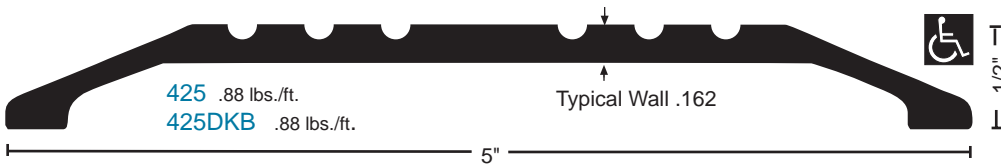
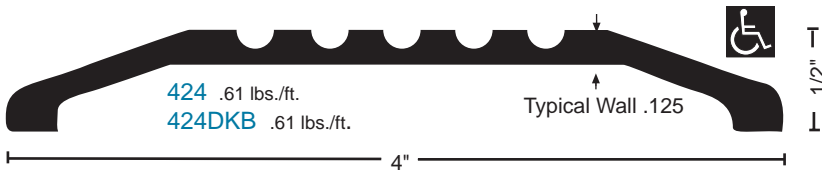
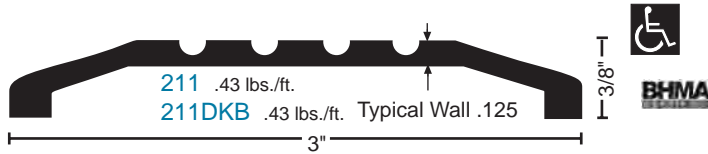


VINYL FOOT SEAL OPTION:

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

Saddle Thresholds

All thresholds this page



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

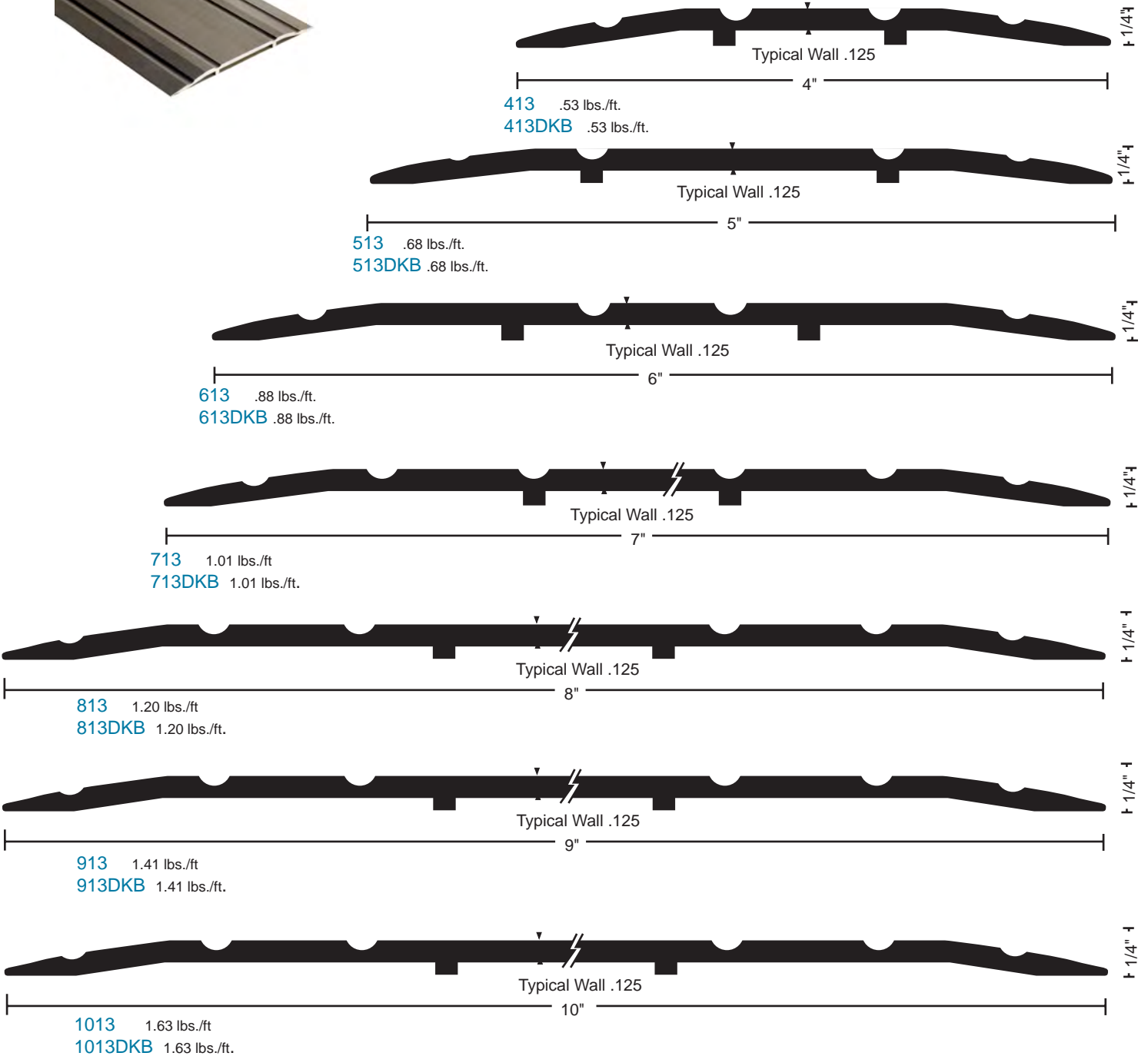
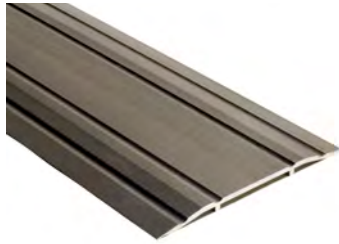
FASTENERS

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



Saddle Thresholds

All thresholds this page



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



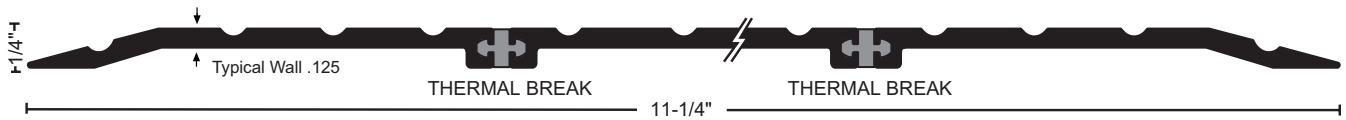
- Optional: Slip Resistant SIA Finish

FASTENERS

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

Extended Width Thresholds

All thresholds this page



8113 1.57 lbs./ft.

8113DKB 1.57 lbs./ft.



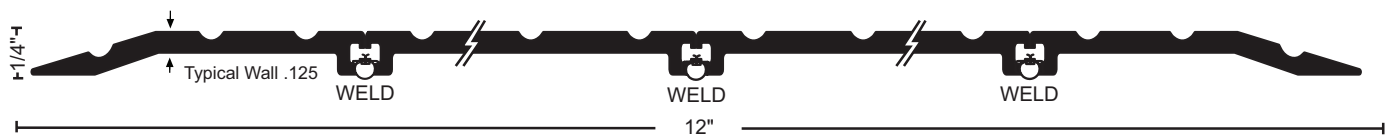
WA8113 1.55 lbs./ft.

WA8113DKB 1.55 lbs./ft.



8213 1.74 lbs./ft.

8213DKB 1.74 lbs./ft.



WA8213 2.27 lbs./ft.

WA8213DKB 2.27 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

Extended Width Thresholds

All thresholds this page



431 1.75 lbs./ft.
431DKB 1.75 lbs./ft.



WA431 1.75 lbs./ft.
WA431DKB 1.75 lbs./ft.



432 1.87 lbs./ft.
432DKB 1.87 lbs./ft.



WA432 1.87 lbs./ft.
WA432DKB 1.87 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish




- Optional: Slip Resistant SIA Finish

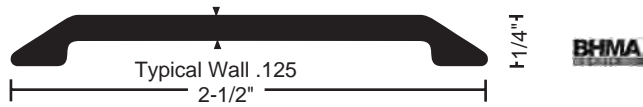
FASTENERS

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

Smooth Surface Thresholds

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

All thresholds this page   



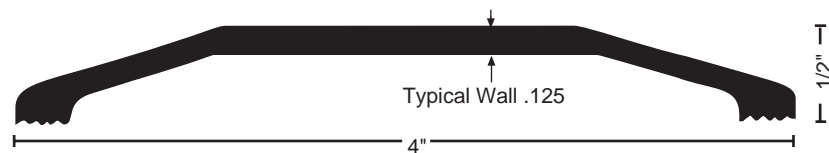
410 .36 lbs./ft.

410DKB .36 lbs./ft.



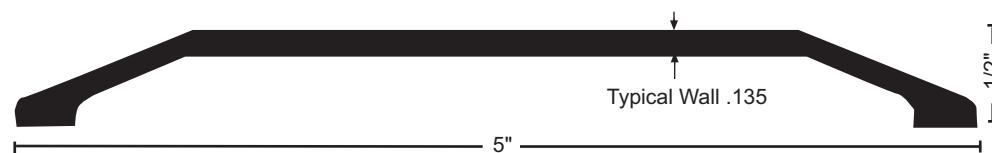
411 .50 lbs./ft.

411DKB .50 lbs./ft.



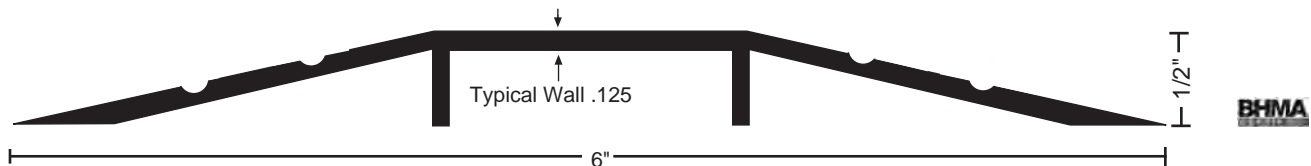
412 .63 lbs./ft.

412DKB .63 lbs./ft.



512 .82 lbs./ft.

512DKB .82 lbs./ft.



111 .93 lbs./ft.

111DKB .93 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

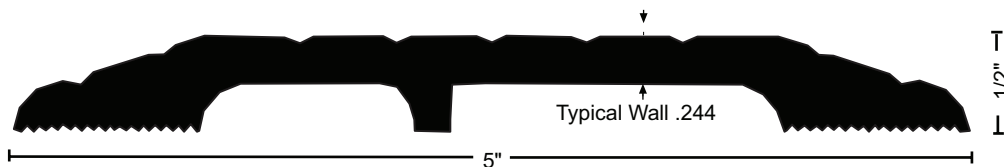


Heavy Duty Thresholds

All thresholds this page



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



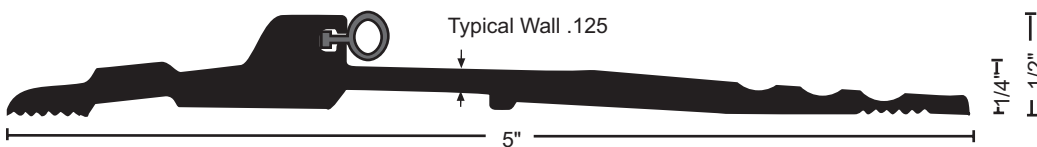
425HD 1.6 lbs./ft.

425HDDKB 1.6 lbs./ft.



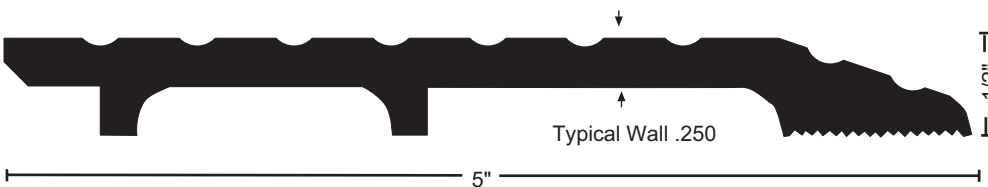
513HD 1.4 lbs./ft.

513HDDKB 1.4 lbs./ft.



896HD 1.01 lbs./ft

896HDDKB 1.01 lbs./ft



325HD 1.65 lbs./ft

325HDDKB 1.65 lbs./ft



- when installed with the non-beveled edge flush with flooring or where no greater than 1/4" vertical rise occurs



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

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

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

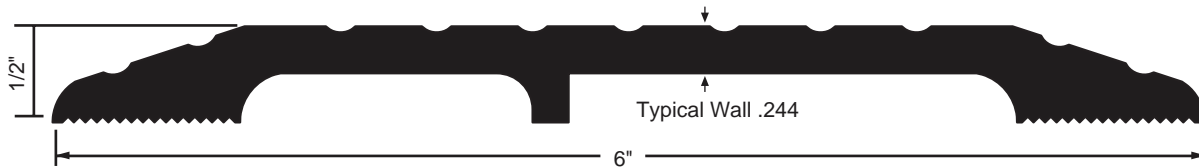
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Heavy Duty Thresholds

All thresholds this page

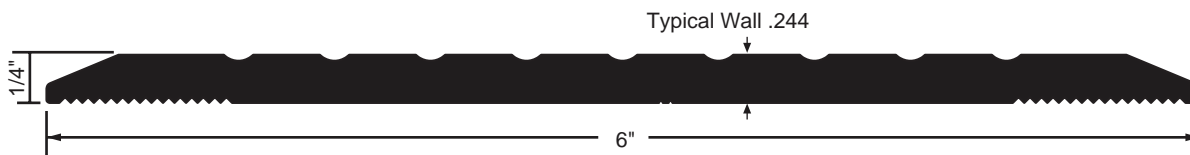


- For use where forklift or vehicular traffic occurs
- Recommended for delivery/storage doorways where heavier loads travel
- Optional "SIA" slip-resistant finish recommended in moisture prone areas



426HD 1.98 lbs./ft.

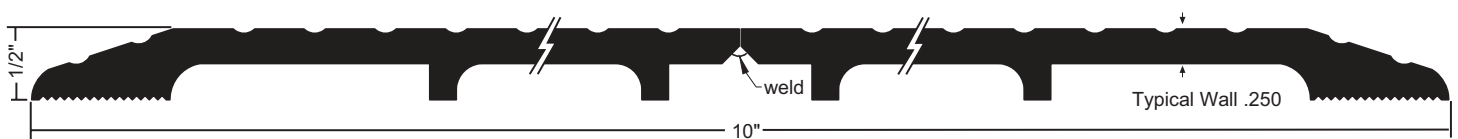
426HDDKB 1.98 lbs./ft.



613HD 1.66 lbs./ft.

613HDDKB 1.66 lbs./ft.

BHMA certified to ANSI/BHMA A156.21 Heavy Duty 10,000 lb. load test.



325HD x 325HD Welded 3.33 lbs./ft.

325HDDKB x 325HDDKB Welded 3.33 lbs./ft.

BHMA certified to ANSI/BHMA A156.21 Heavy Duty 10,000 lb. load test.



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

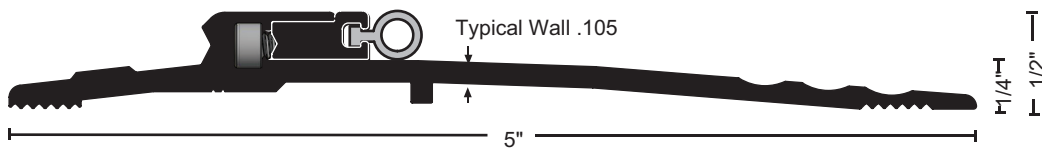
FASTENERS

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



Adjustable ADA Compliant Bumper Seal Threshold

- Stainless steel adjustment screws on 10" centers allow adjustment without re-positioning mounting location.
- Adjusting range 1/4"
- Adjust seal using 7/64" allen wrench



896-ADJ .78 lbs./ft.

896DKB-ADJ .78 lbs./ft.



MATERIALS & FINISHES

- Aluminum mill finish



- Optional: Slip
Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood
screws furnished.



BUMPER SEAL

Seals against the door pro-
viding weather resistance

Vinyl ("V") supplied unless
other material specified

Options:
NGP-TPV ("N")

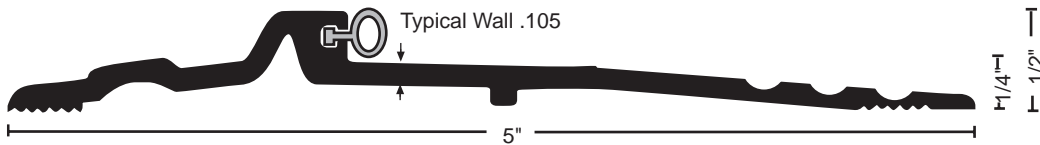
Silicone ("S")



STC 52

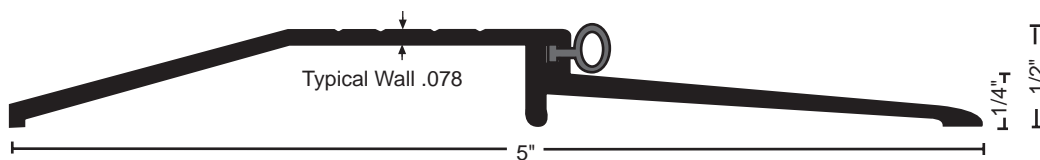
ADA Compliant Bumper Seal Thresholds

All thresholds this section



896 .64 lbs./ft.

896DKB .64 lbs./ft.



950 .50 lbs./ft.

950DKB .50 lbs./ft.

Excellent for use with
Automatic Door Bottoms



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

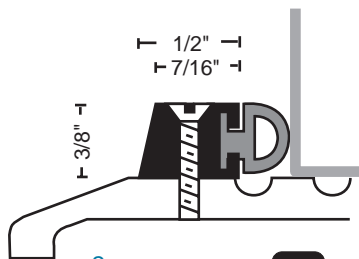
Options:

NGP-TPV ("N")

Silicone ("S")

Stop Strips

All stop strips this section

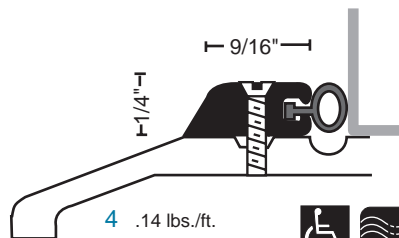


2 .16 lbs./ft.

2DKB .16 lbs./ft.



#6 self-tapping machine screw provided

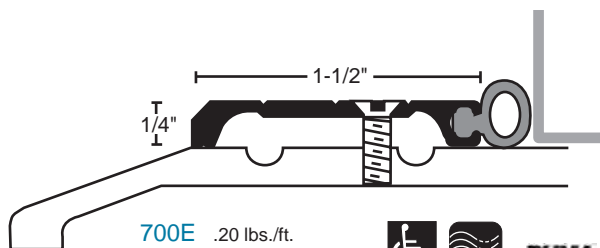


4 .14 lbs./ft.

4DKB .14 lbs./ft.



#6 self-tapping machine screw provided



700E .20 lbs./ft.

700EDKB .20 lbs./ft.



#10 self-tapping machine screw provided

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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



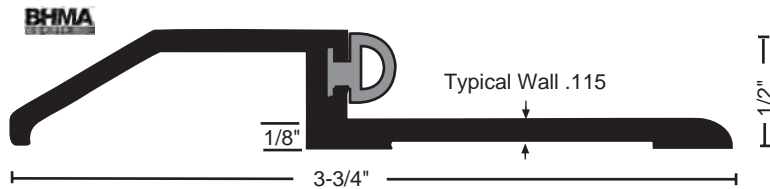
Bumper Seal Thresholds

All products this page



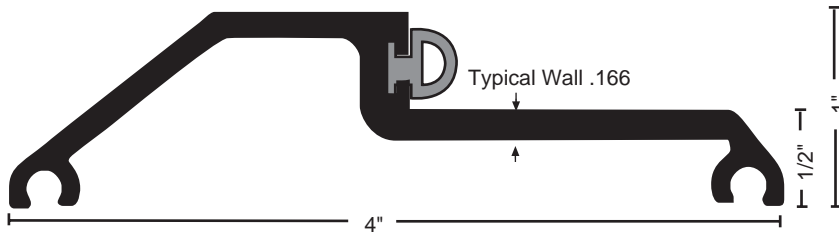
8135 .60 lbs./ft.

8135DKB .60 lbs./ft.



897 .91 lbs./ft.

897DKB .91 lbs./ft.



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Pile ("P")

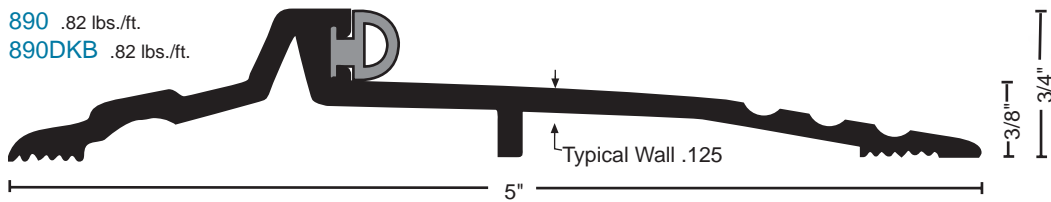
Bumper Seal Thresholds

All thresholds this page



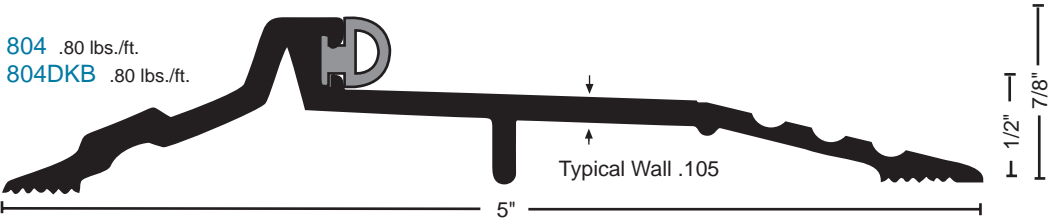
890 .82 lbs./ft.

890DKB .82 lbs./ft.



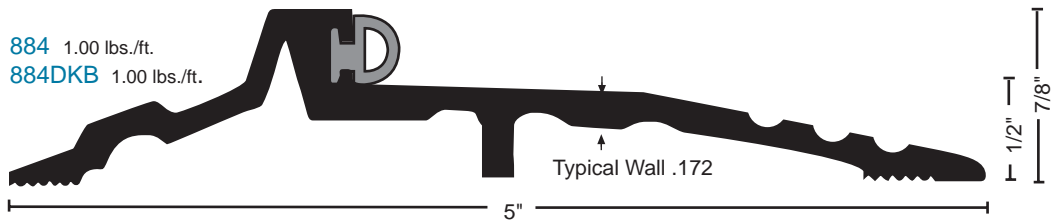
804 .80 lbs./ft.

804DKB .80 lbs./ft.



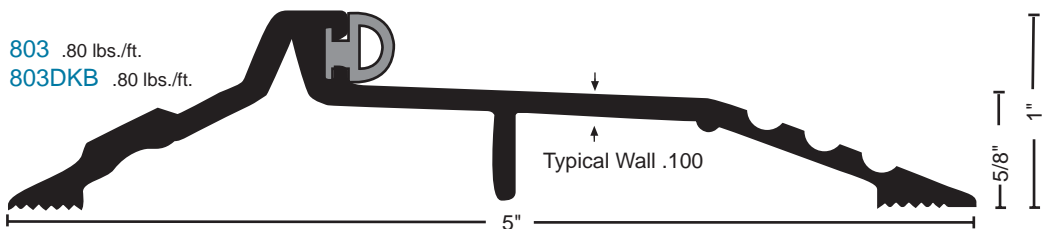
884 1.00 lbs./ft.

884DKB 1.00 lbs./ft.



803 .80 lbs./ft.

803DKB .80 lbs./ft.



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Pile ("P")

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



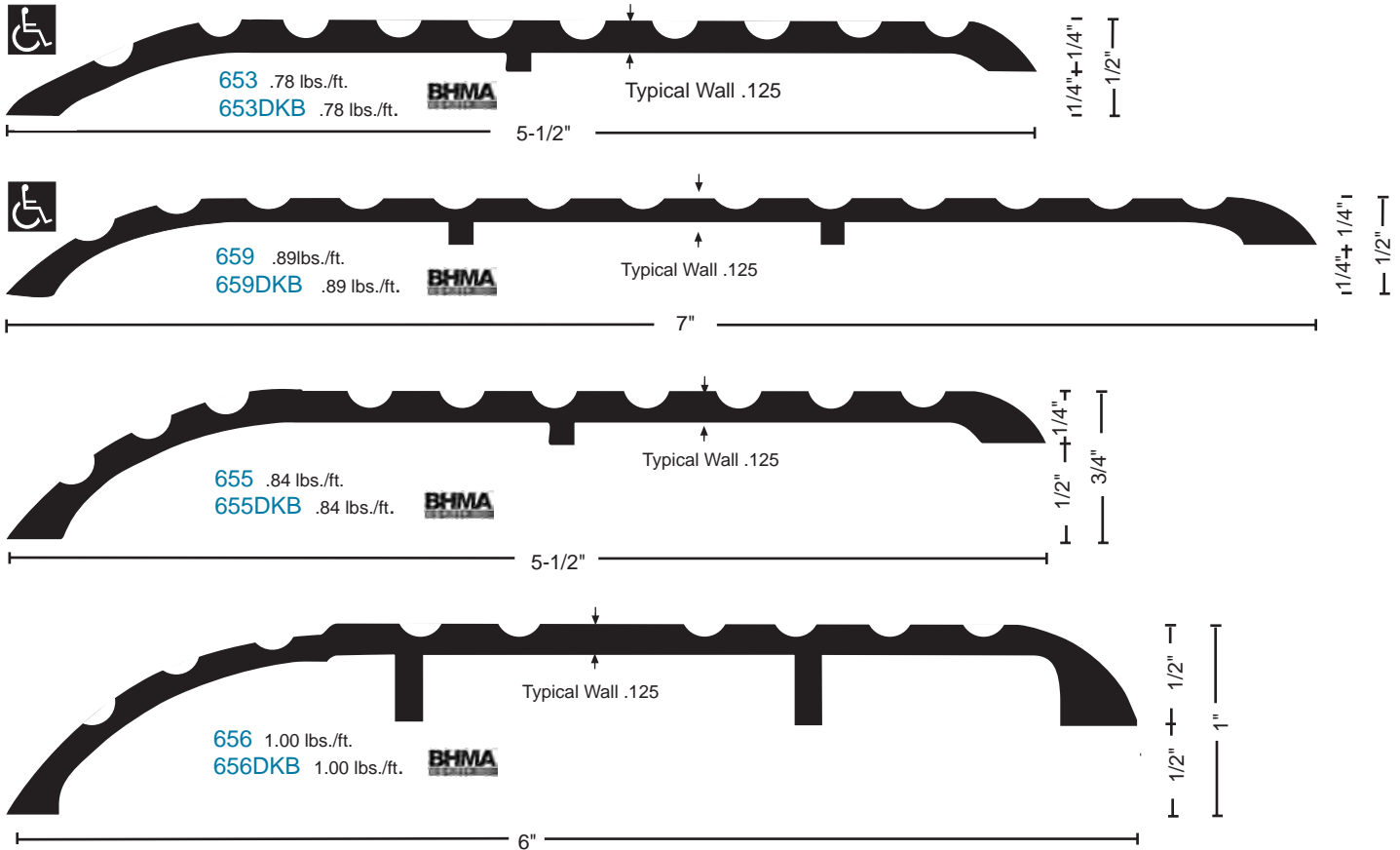
- Optional: Slip Resistant SIA Finish

FASTENERS

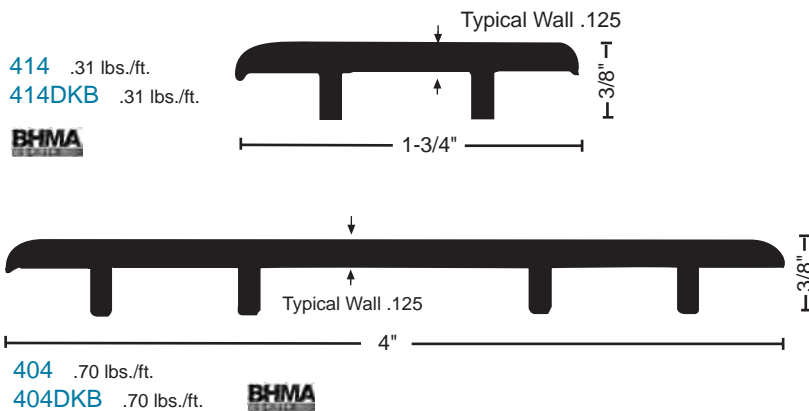
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Offset Thresholds

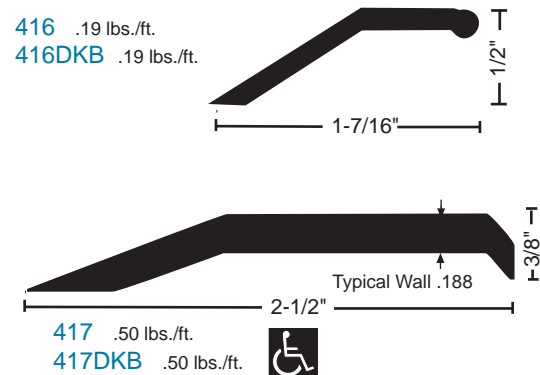
All products this page



Carpet and Tile Dividers



Carpet Edges



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

Vinyl Carpet/Tile Divider Thresholds

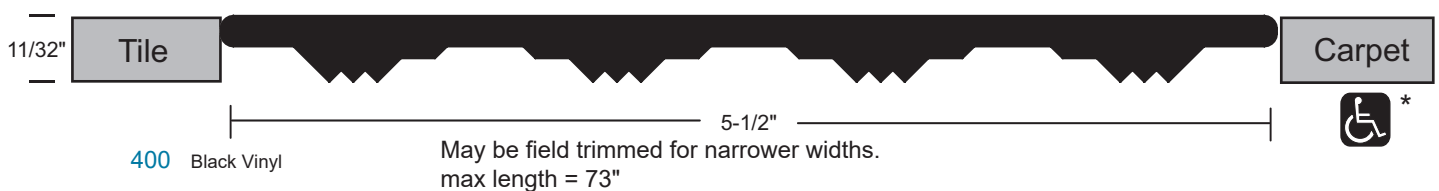
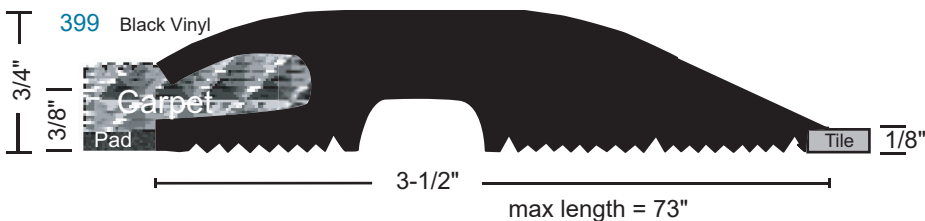
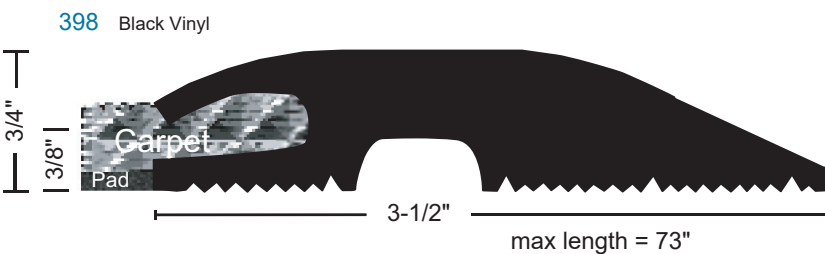
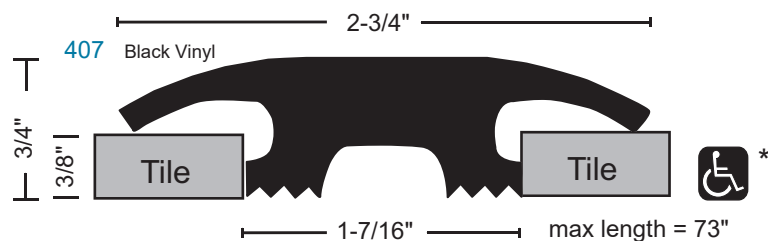
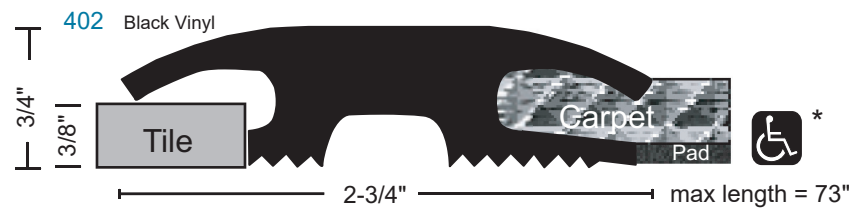
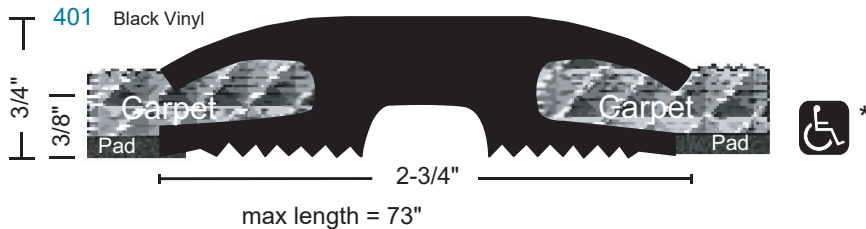
For transition between two different carpets or carpet to tile.
Easy to install using adhesive like NGP RR5007BL, Black RTV silicone rubber construction sealant. Each tube bonds 4' of 398 or 399, 8' of 400 or 401, 12' of 402, or 15' of 407.



All products this page



* when installed as illustrated
between carpet and/or tile



Transition Strips

All Products this page



8132 .28 lbs./ft.



8130 .81 lbs./ft.



- Heavy Duty - for transition at edge of 1/8" or 3/8" tile
- Protects edge of tile
- Reduces tripping hazard
- Available in 96" length only
- #14 stainless steel SMS furnished

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish

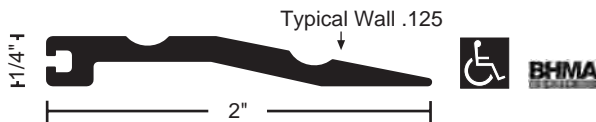


- Optional: Slip Resistant SIA Finish

FASTENERS

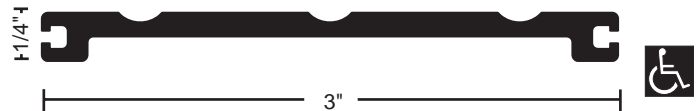
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Half Saddle and Extended Width Components



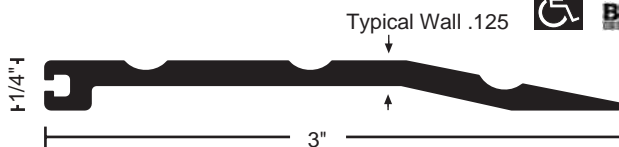
215 .28 lbs./ft.

215DKB .28 lbs./ft.



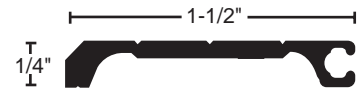
515 .45 lbs./ft.

515DKB .45 lbs./ft.



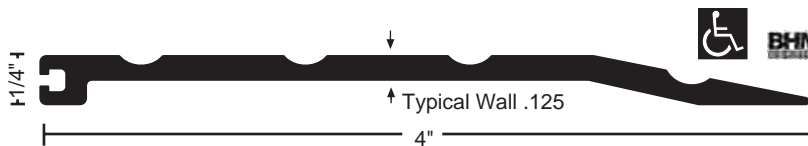
315 .41 lbs./ft.

315DKB .41 lbs./ft.



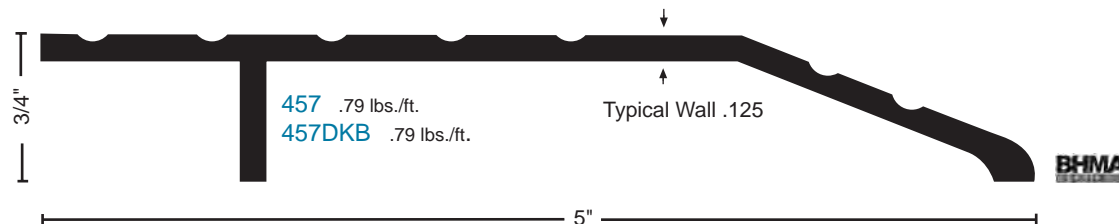
700E .20 lbs./ft.

700EDKB .20 lbs./ft.



415 .55 lbs./ft.

415DKB .55 lbs./ft.



457 .79 lbs./ft.

457DKB .79 lbs./ft.

Typical Wall .125



458 1.11 lbs./ft.

458DKB 1.11 lbs./ft.

Typical Wall .125



Half Saddle Thresholds

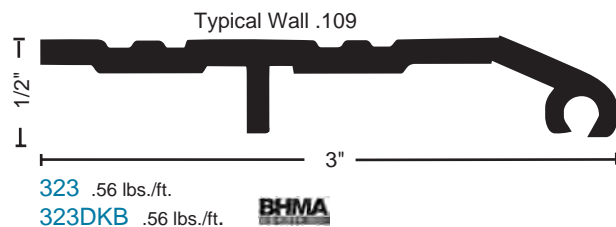
All Products this page



*



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



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

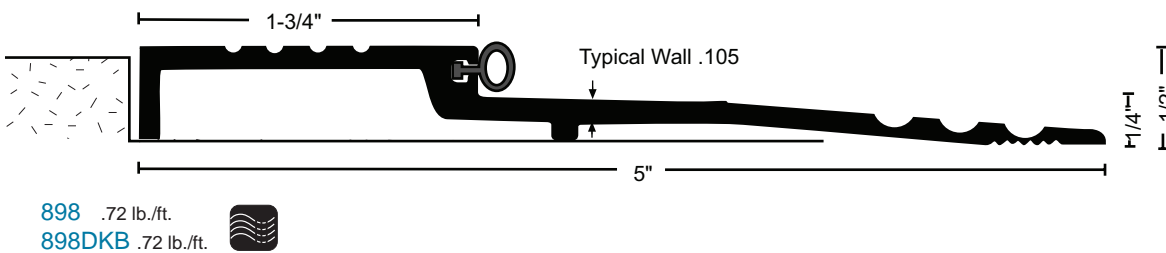
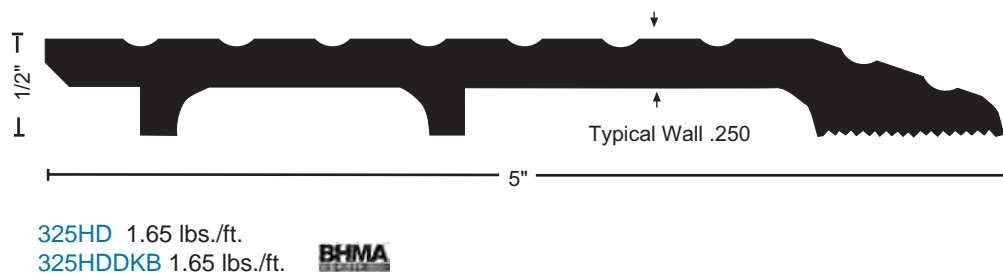
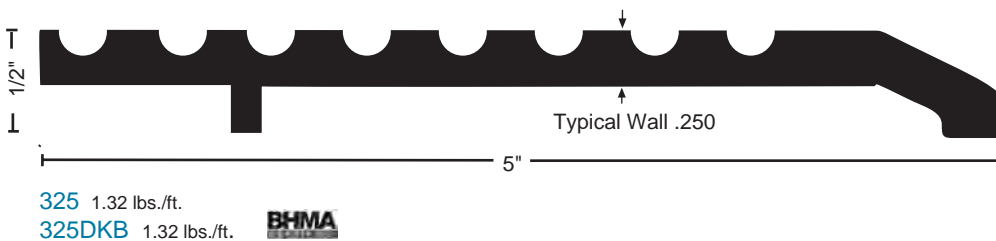
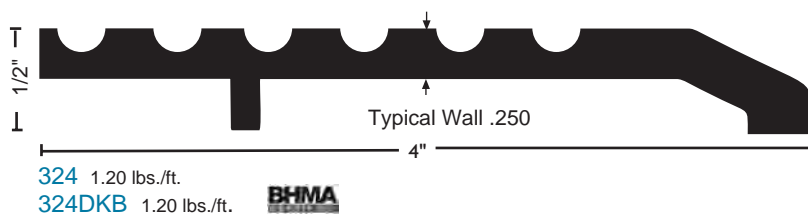


BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

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



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



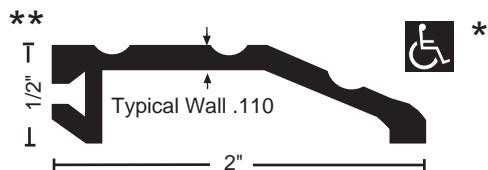
- Optional: Slip Resistant SIA Finish

FASTENERS

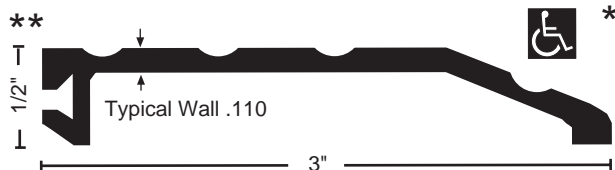
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.

Half Saddle Thresholds and Extended Width Components

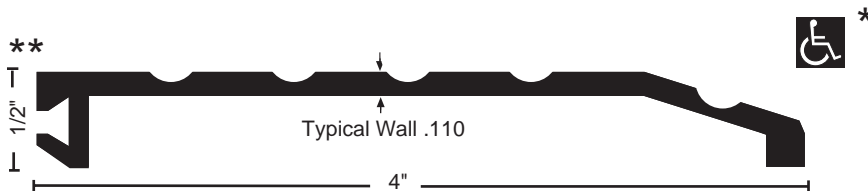
All thresholds this page



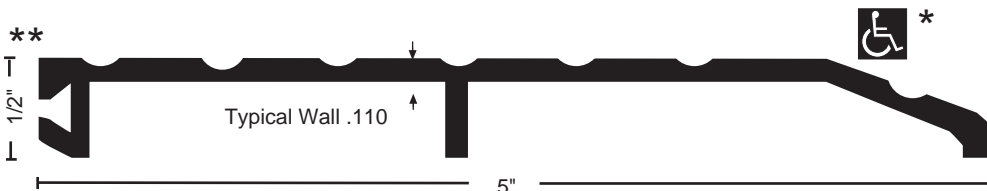
321 .34 lbs./ft.
321DKB .34 lbs./ft.



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



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



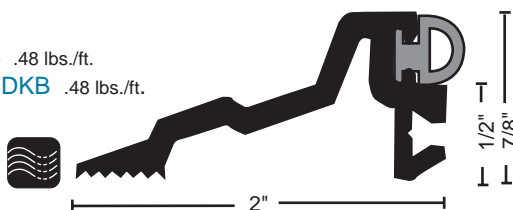
350 .83 lbs./ft.
350DKB .83 lbs./ft.



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



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



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

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

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



BUMPER SEAL

Seals against the door providing weather resistance

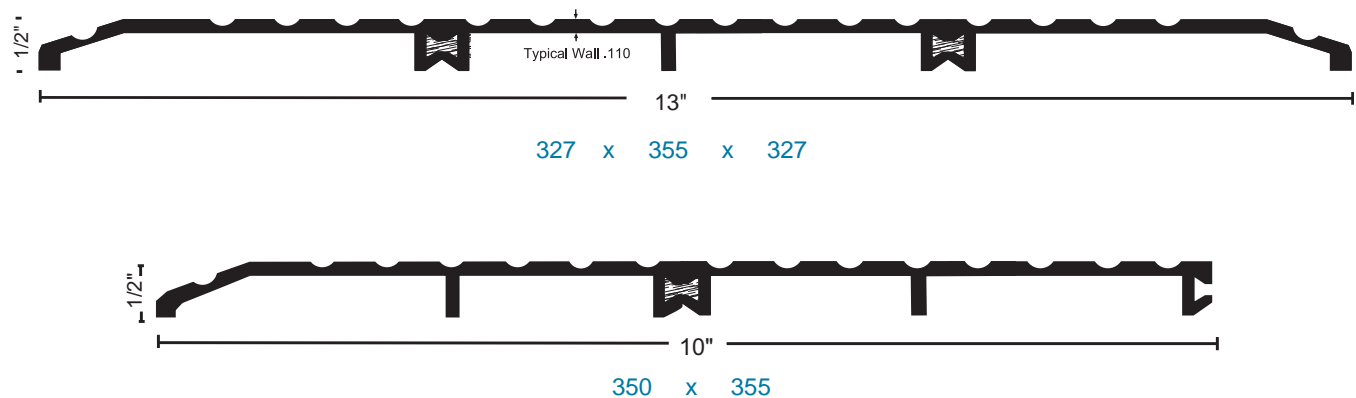
Vinyl ("V") supplied unless other material specified

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

Extended Width Thresholds

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

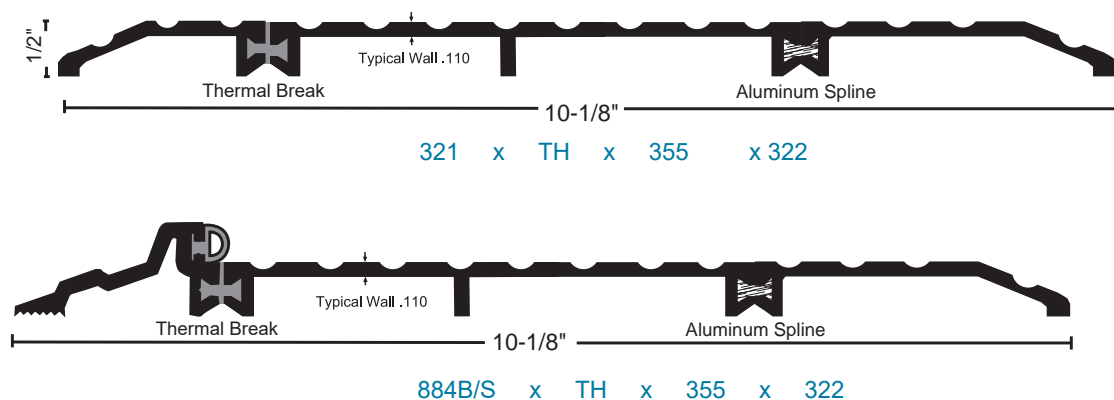
Examples - How to order:



Thermal Break Extended Width Thresholds

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

Examples - How to order:



Thermal Break Saddle Thresholds

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

All thresholds this page



MATERIALS & FINISHES

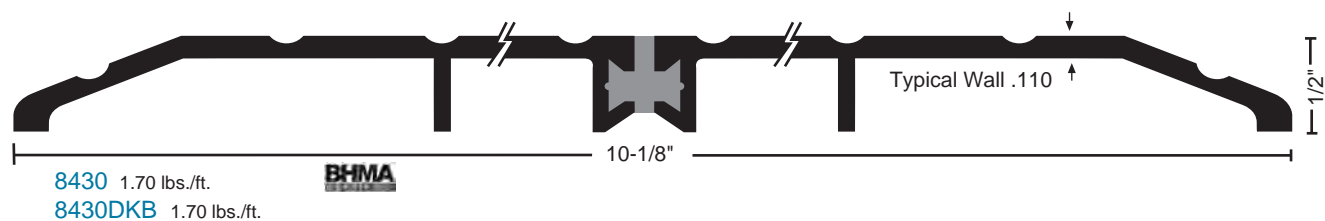
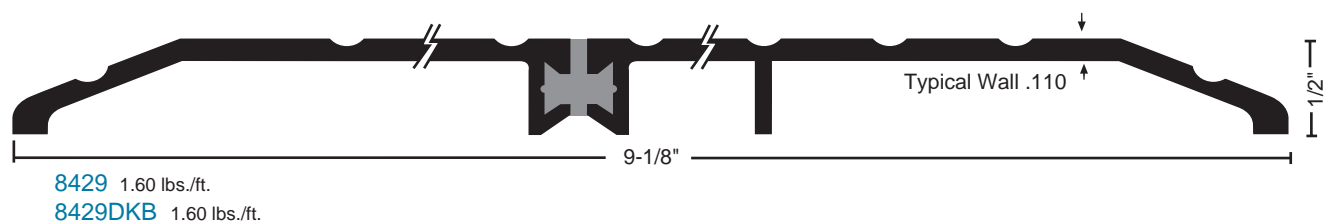
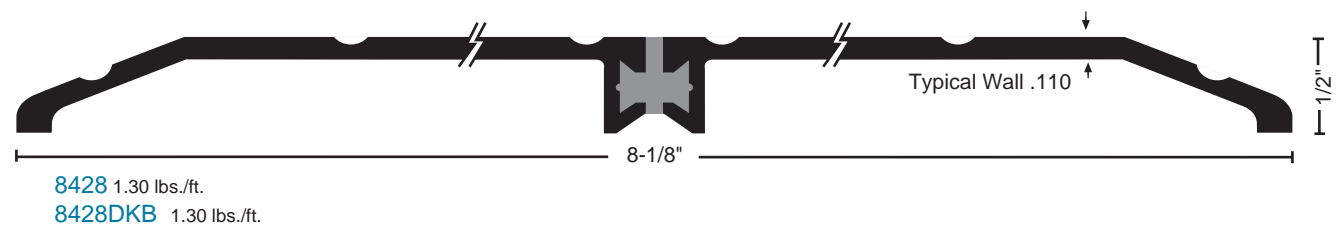
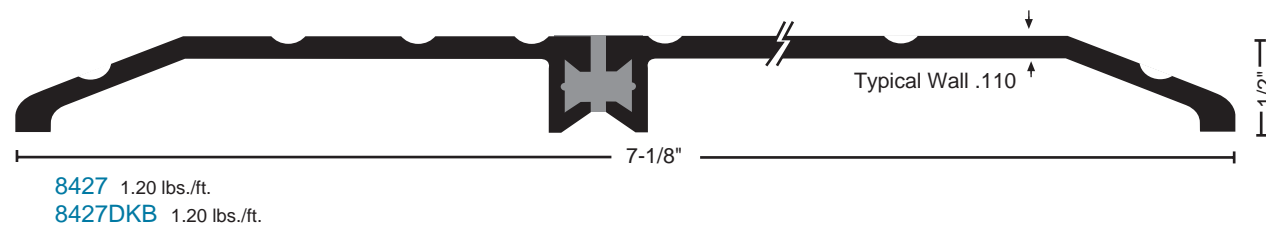
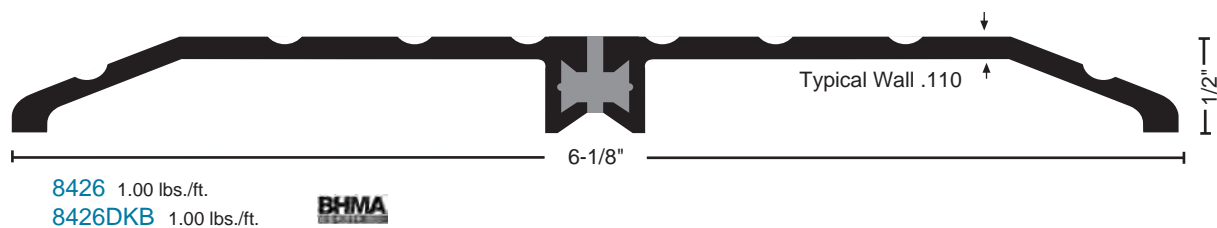
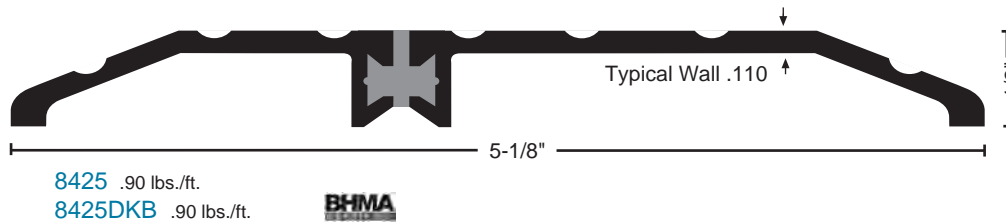
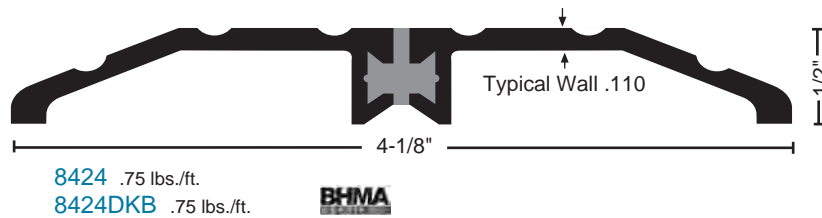
- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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



Thermal Break Saddle Thresholds

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

All thresholds this page



MATERIALS & FINISHES

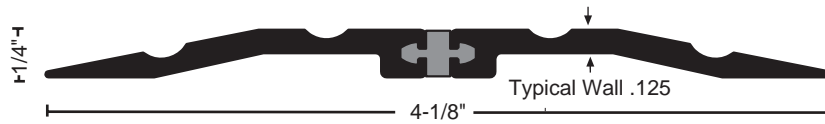
- Aluminum mill finish
- DKB - Aluminum dark bronze finish



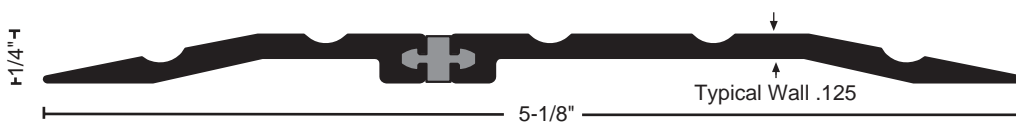
- Optional: Slip Resistant SIA Finish

FASTENERS

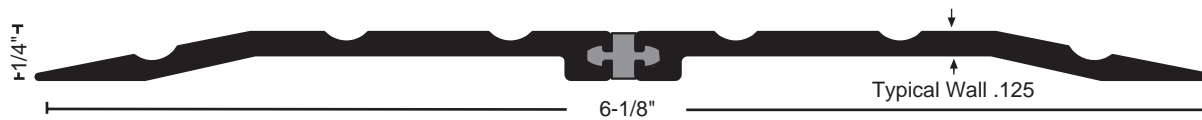
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.



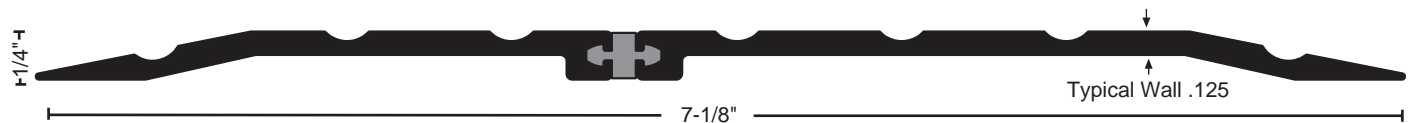
8413 .57 lbs./ft.
8413DKB .57 lbs./ft.



8513 .70 lbs./ft.
8513DKB .70 lbs./ft.



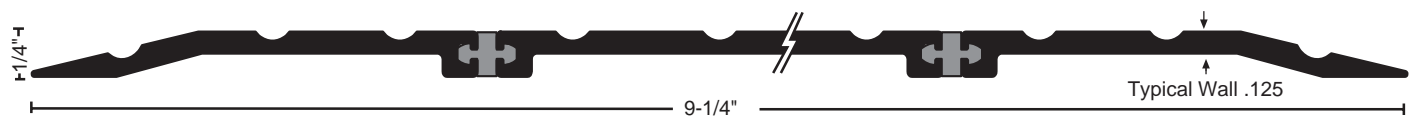
8613 .83 lbs./ft.
8613DKB .83 lbs./ft.



8713 .97 lbs./ft.
8713DKB .97 lbs./ft.



8813 1.11 lbs./ft.
8813DKB 1.11 lbs./ft.



8913 1.29 lbs./ft.
8913DKB 1.29 lbs./ft.



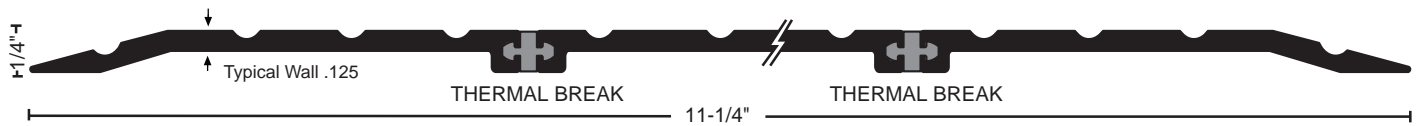
8013 1.42 lbs./ft.
8013DKB 1.42 lbs./ft.



Thermal Break Saddle Thresholds

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

All thresholds this page



8113 1.57 lbs./ft.

8113DKB 1.57 lbs./ft.



8213 1.74 lbs./ft.

8213DKB 1.74 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



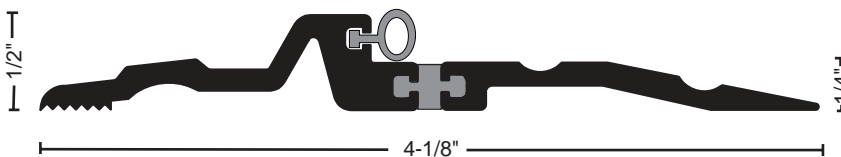
- Optional: Slip Resistant SIA Finish

FASTENERS

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

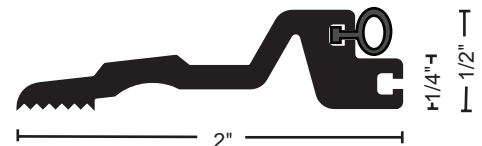
Thermal Break Bumper Seal Thresholds

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



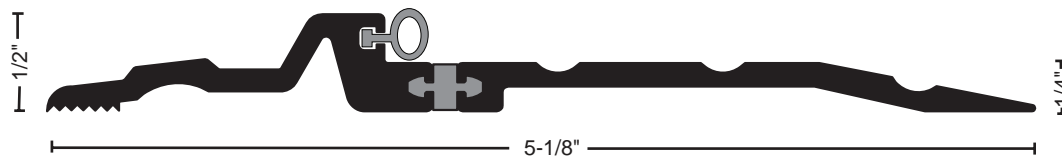
8433 .69 lbs./ft.

8433DKB .69 lbs./ft.



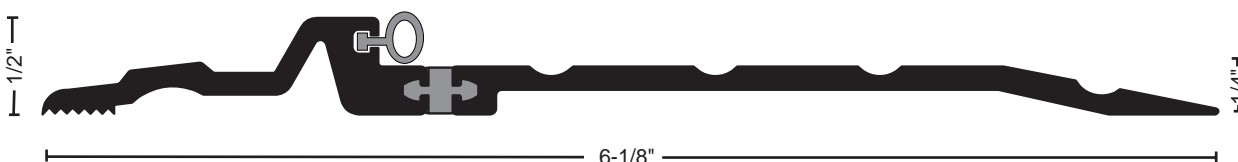
8423 .41 lbs./ft.

8423DKB .41 lbs./ft.



8533 .83 lbs./ft.

8533DKB .83 lbs./ft.



8633 .97 lbs./ft.

8633DKB .97 lbs./ft.



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Thermal Break Bumper Seal Thresholds

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

All thresholds this page



MATERIALS & FINISHES

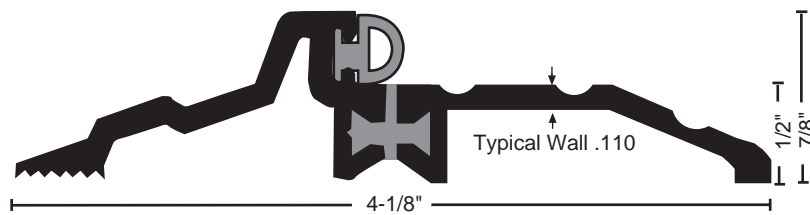
- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

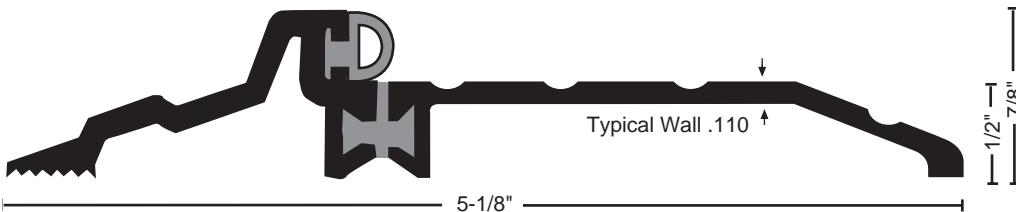
FASTENERS

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



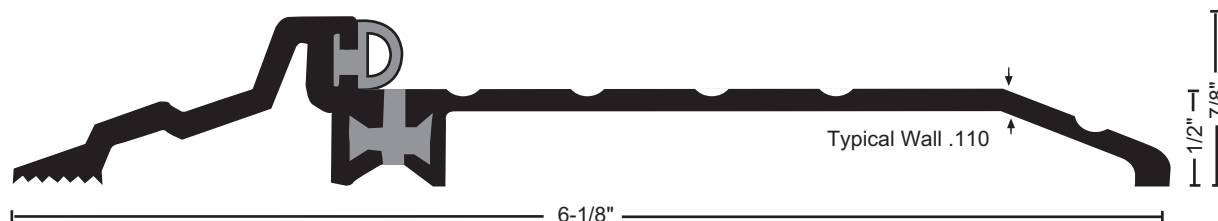
8434 .82 lbs./ft.

8434DKB .82 lbs./ft.



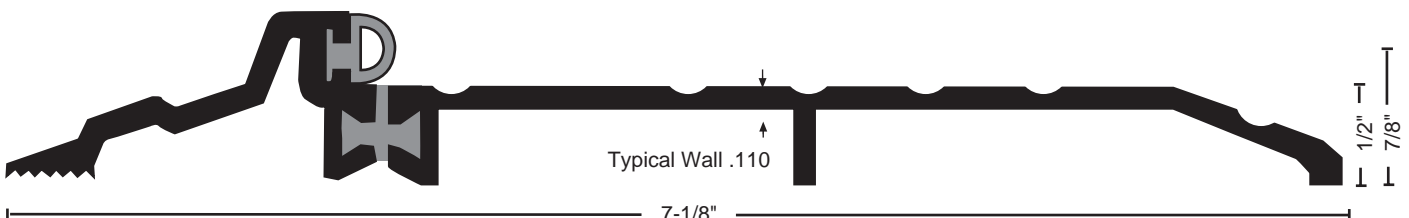
8435 .95 lbs./ft.

8435DKB .95 lbs./ft.



8436 1.11 lbs./ft.

8436DKB 1.11 lbs./ft.



8437 1.29 lbs./ft.

8437DKB 1.29 lbs./ft.



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Pile ("P")



Extended Width Bumper Seal Thresholds

All thresholds this page



884-6 1.10 lbs./ft.

884-6DKB 1.10 lbs./ft.

6"

884-7 1.31 lbs./ft.

884-7DKB 1.31 lbs./ft.

7"

884-8 1.52 lbs./ft.

884-8DKB 1.52 lbs./ft.

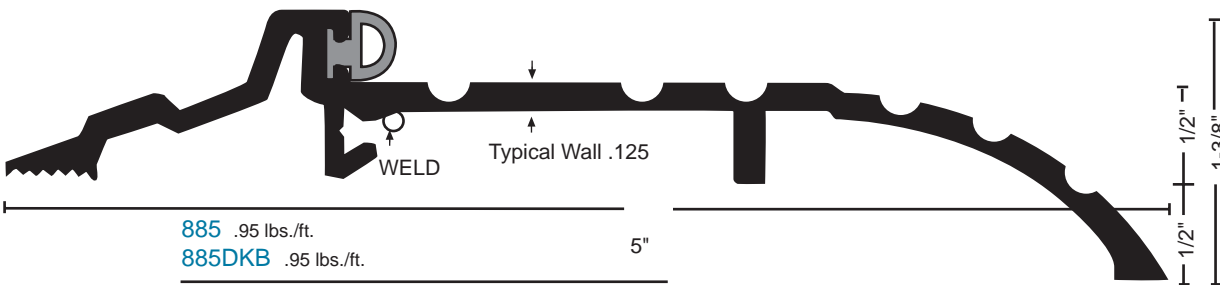
8"



VINYL FOOT SEAL OPTION:

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

Offset Bumper Seal Thresholds



885 .95 lbs./ft.

885DKB .95 lbs./ft.

5"

885-6 1.16 lbs./ft.

885-6DKB 1.16 lbs./ft.

6"

885-7 1.37 lbs./ft.

885-7DKB 1.37 lbs./ft.

7"



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Pile ("P")

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish

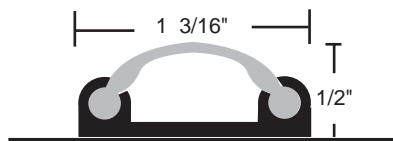


- Optional: Slip Resistant SIA Finish

FASTENERS

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

Vinyl Top Thresholds



12V .31 lbs./ft.
12VDKB .31 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

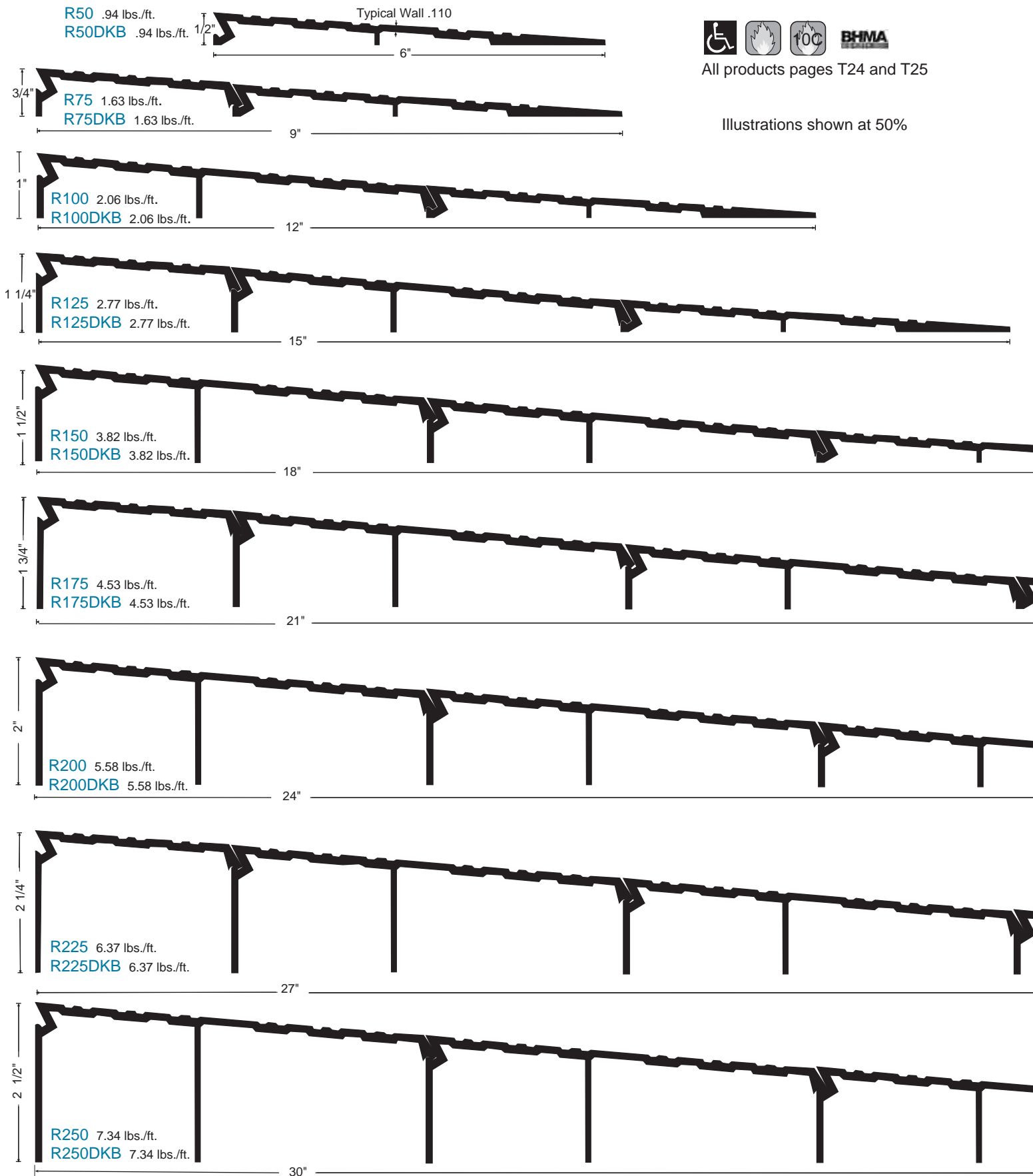
Elevators

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



58 .16 lbs./ft.
58DKB .16 lbs./ft.





All products pages T24 and T25

Illustrations shown at 50%

ADA Compliant Interlocking Ramps

Return Closed Ends for Ramps

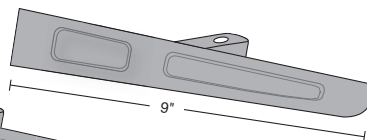
Return closed ends provide an attractive finished appearance to ramps. They are available in several lengths and can be field trimmed to accommodate any size ramp assembly.



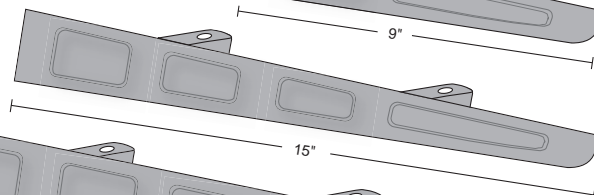
RCE's are also available with slip-resistant "SIA" finish (suffix "SIA").



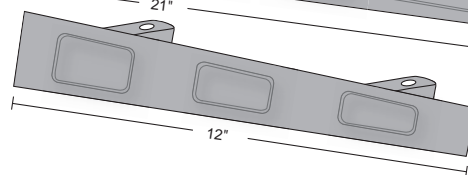
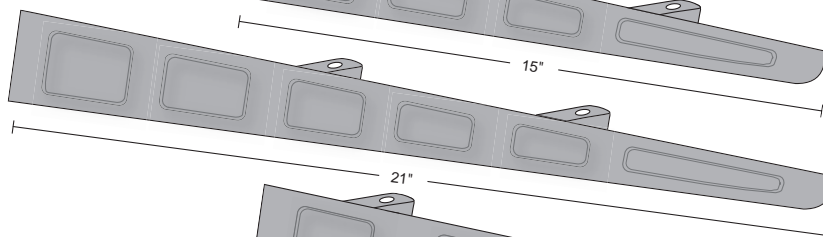
RCE-9
RCE-9DKB



RCE-15
RCE-15DKB



RCE-21
RCE-21DKB



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

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish



ADA Compliant Interlocking Offset Ramps

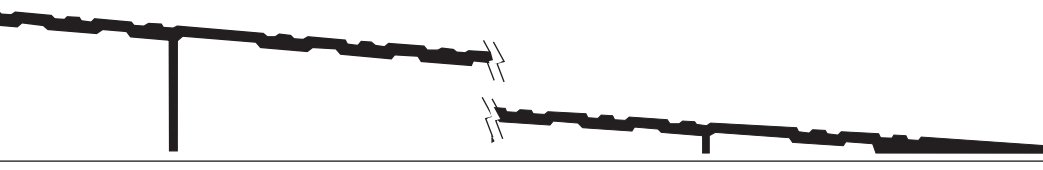
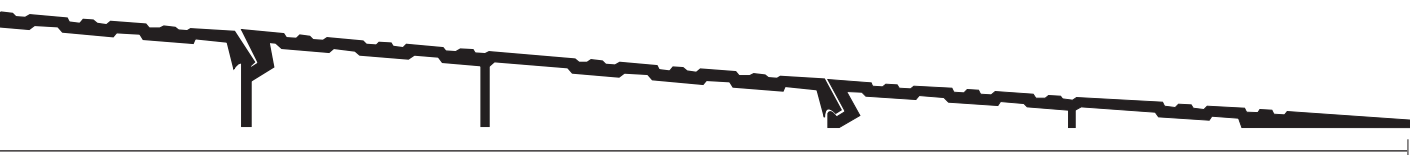
All products pages T26 and T27



Available with Returned Closed Ends - See page T25

Slope = 1:12

Illustrations shown at 50%



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

Interlocking Ramp Components

Ramps Comply with:

- ADA Standards for Accessible Design
- ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities

Requirements:

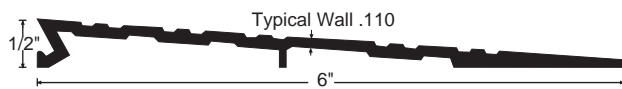
- Maximum Threshold Height = 1/2"
- Thresholds above 1/4" must be beveled with a slope no greater than 1:2
- Height changes over 1/2" require use of a ramp with slope not steeper than 1:12

All products this page



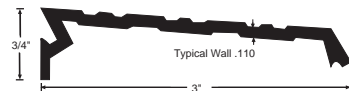
When installed as part of interlocking ramp assembly.

illustrations shown at 50%



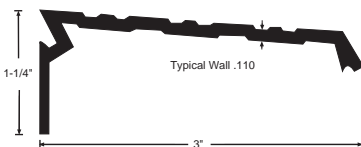
R50 .94 lbs./ft.

R50DKB .94 lbs./ft.



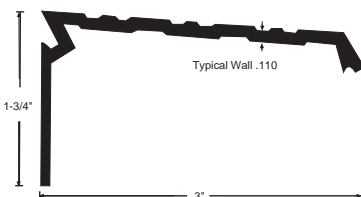
953 .69 lbs./ft.

953DKB .69 lbs./ft.



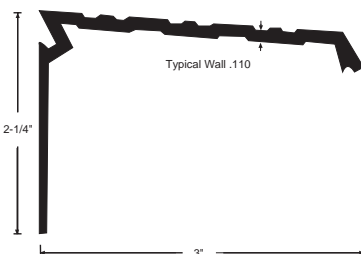
955 .71 lbs./ft.

955DKB .71 lbs./ft.



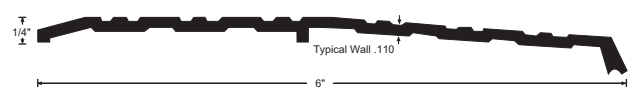
951 .71 lbs./ft.

951DKB .71 lbs./ft.



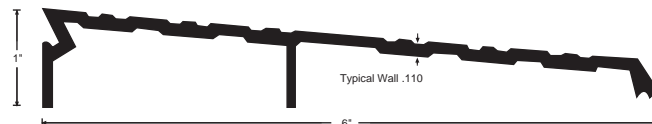
959 .79 lbs./ft.

959DKB .79 lbs./ft.



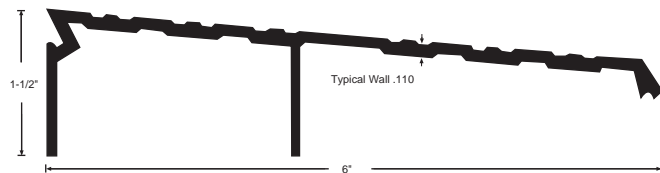
957 .93 lbs./ft.

957DKB .93 lbs./ft.



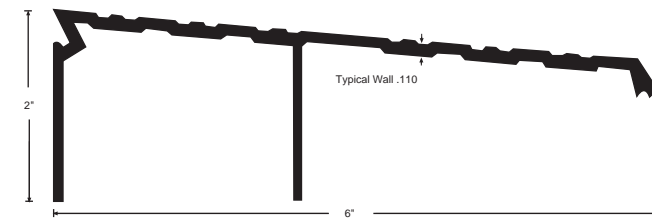
954 1.12 lbs./ft.

954DKB 1.12 lbs./ft.



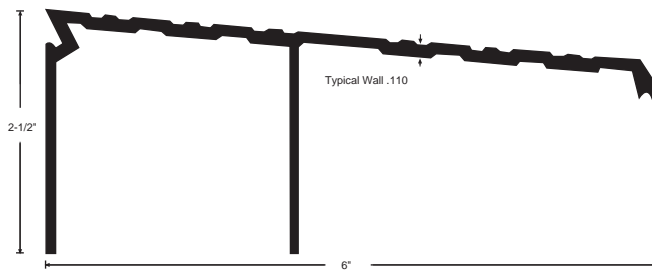
962 1.23 lbs./ft.

962DKB 1.23 lbs./ft.



961 1.34 lbs./ft.

961DKB 1.34 lbs./ft.

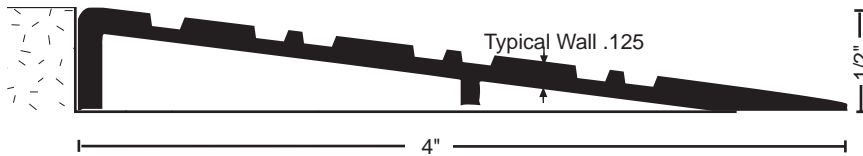


960 1.76 lbs./ft.

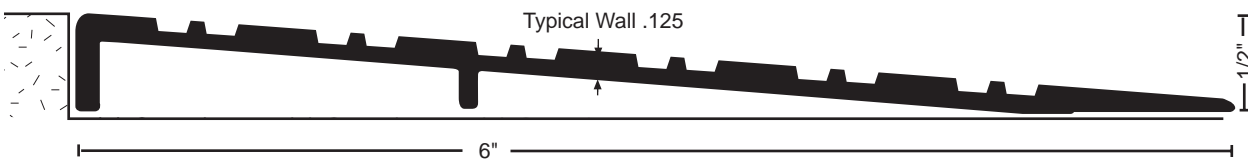
960DKB 1.76 lbs./ft.

Aluminum Ramps

All aluminum ramps this section



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



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



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

Interlocking Rubber Ramps

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



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



RR952 1.0 lbs./ft.
maximum length = 120"



Slope = 1:12
Illustrations shown at 50%

Custom Fabricated Thresholds

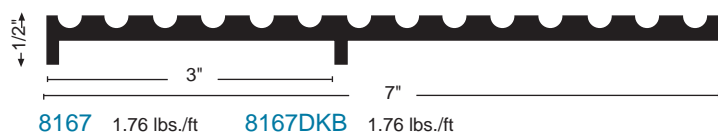
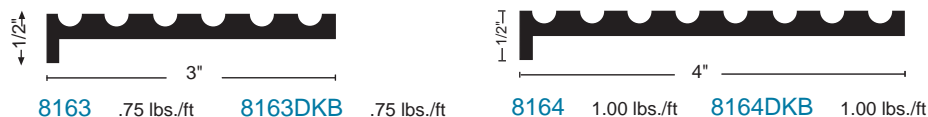
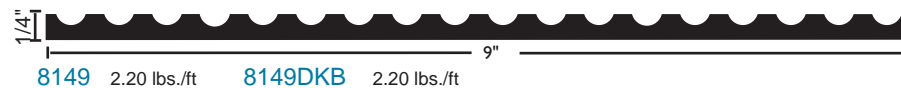
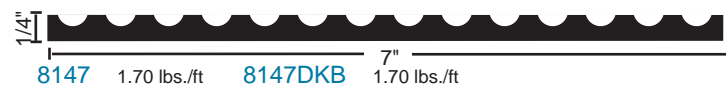
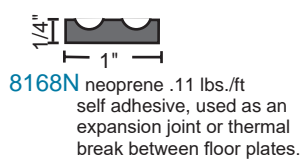
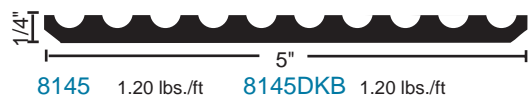
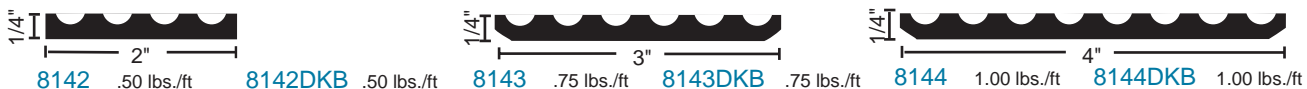
Choose from various height and width components to build custom thresholds to meet special job requirements. See the custom fabricated threshold example illustrated on page T4. For assistance contact our tech support team.

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

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

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


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



All products this page



BHMA except 8168N

 except 8163, 8164, 8167

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

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

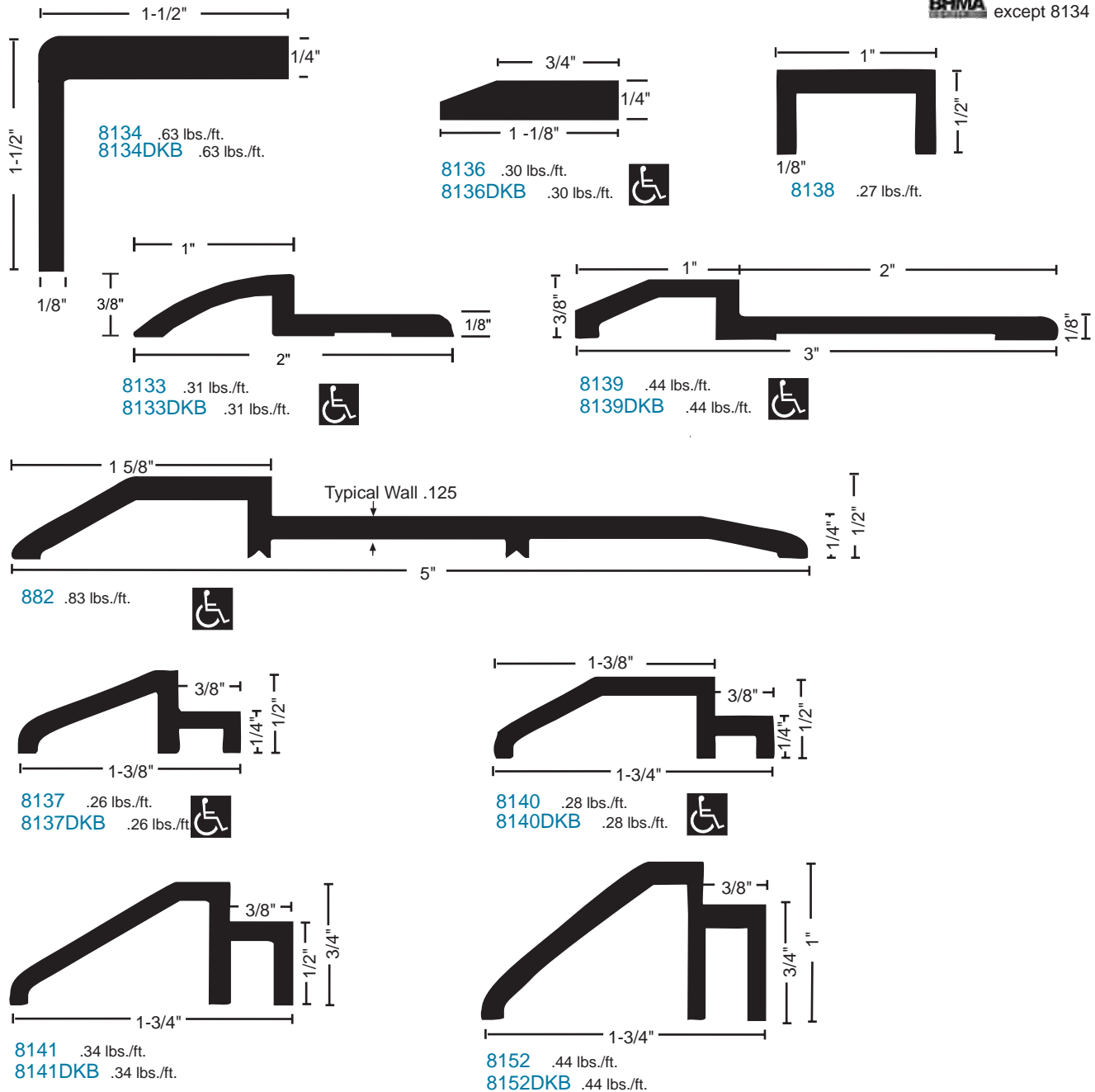
illustrations shown
at 50%

Edge Components

All products this page



BHMA except 8134



Bar Supports

Used as support under threshold assemblies



Aluminum Cover Plates

All products this page



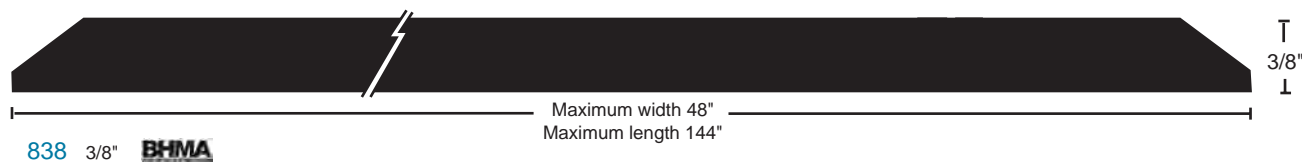
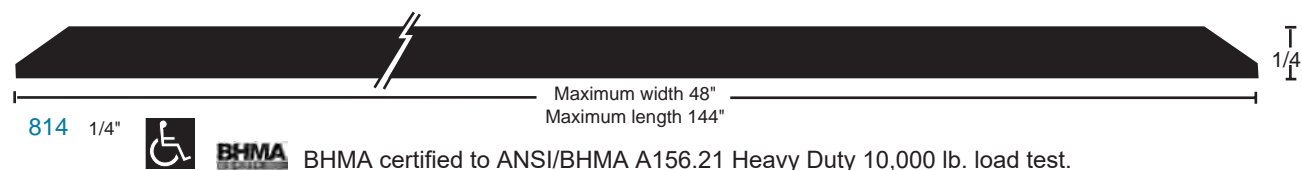
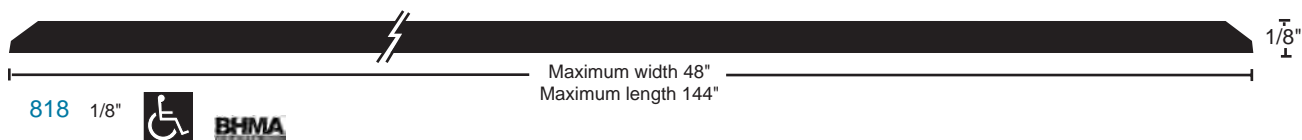
- Great for expansion joint covers or anywhere extra width and strength are required
- Cover plates are made to order; non-returnable and non-cancelable once fabricated
- Manufactured through a rolled process providing extra durability
- PVC coating applied to protect the finish during shipping and installation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

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



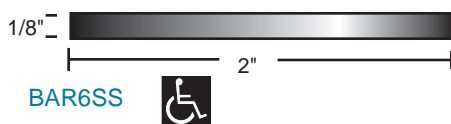
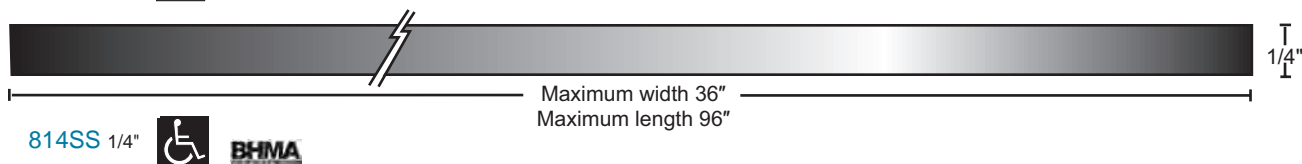
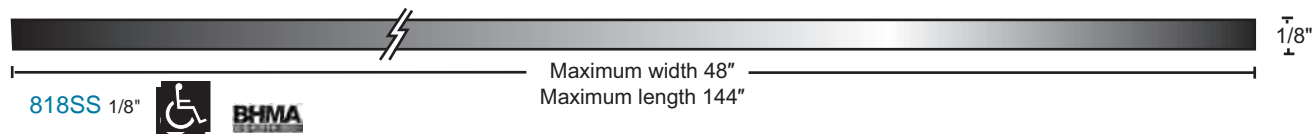
• Optional: Slip Resistant SIA Finish



Stainless Steel Cover Plates

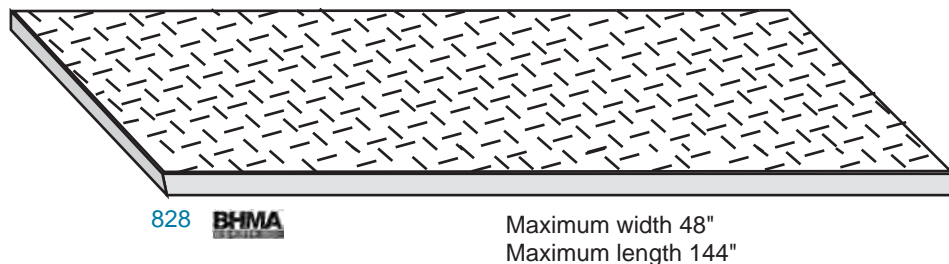
- #304 stainless steel material, mill finish
- Optional finishes: Polished US32, 629, suffix "POL",
Brushed US32D, 630, suffix "Brushed"
- PVC coating applied to protect the finish during shipping and installation.
- Square cut edges standard. Specify if beveled edge is required.
- Furnished undrilled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

Optional Slip Resistant SIA Finish
Suffix "SIA"



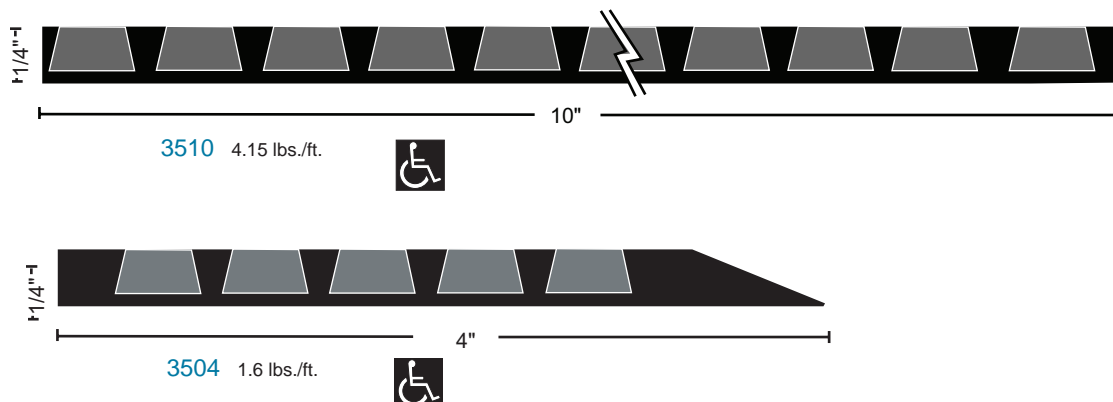
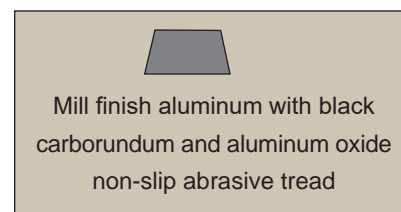
Diamond Tread Plate

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



Safety Tread Plates

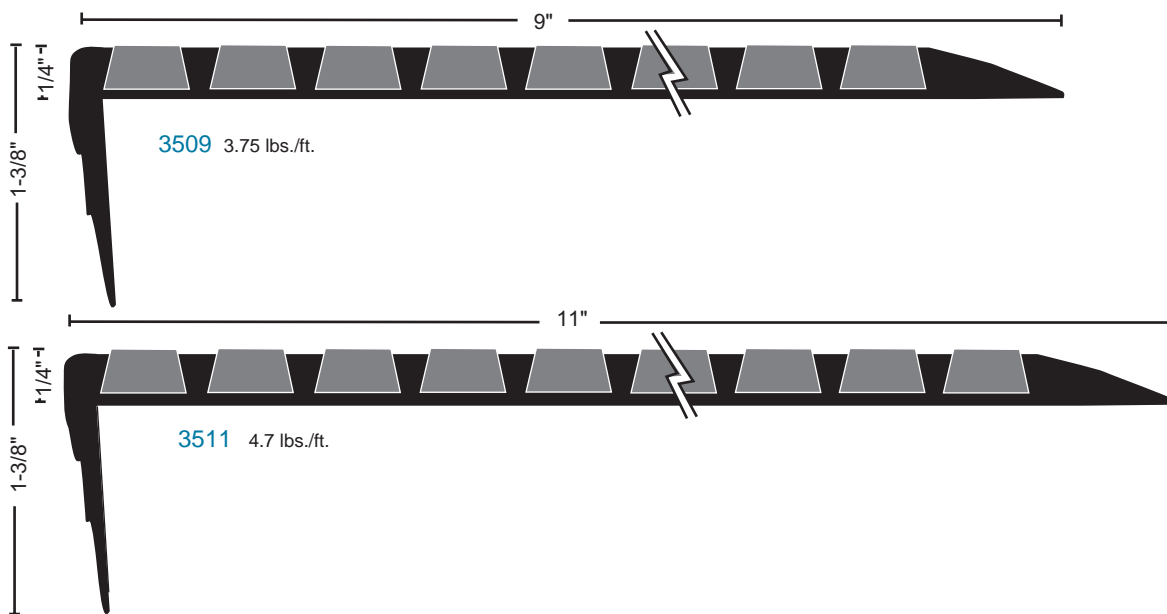
- Non-slip abrasive tread material is a blend of carborundum and aluminum oxide, bonded and locked into the aluminum tread base
- Treads exceed ADA requirements for coefficient of friction tested to ASTM F609 and MIL-D-23003A
The coefficient of friction for NGP safety tread plates is .94 dry and .86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



Safety Tread Stair Nosings

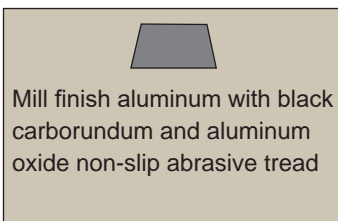
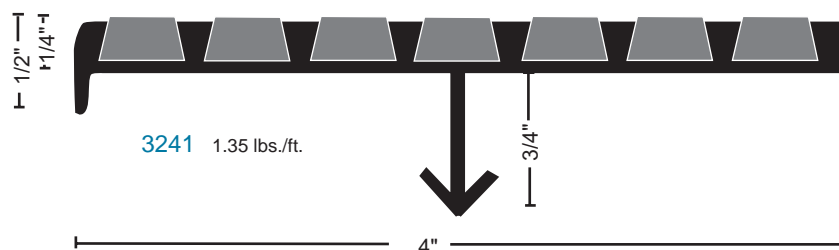
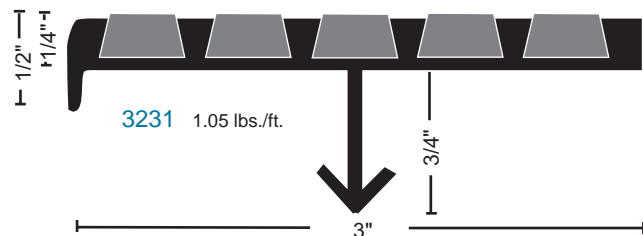
- Non-slip abrasive tread material is a blend of carborundum and aluminum oxide, bonded and locked into the aluminum tread base
- Treads exceed ADA requirements for coefficient of friction tested to ASTM F609 and MIL-D-23003A. The coefficient of friction for NGP stair nosings is .94 dry and .86 wet
-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

Renovation Nosings



Safety Nosings

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

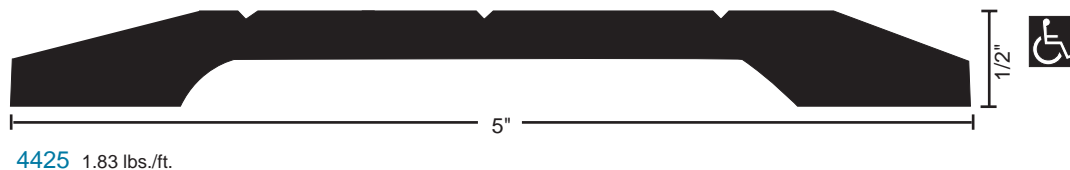


Cast Aluminum Thresholds With Abrasive Surface

All products this page



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



Floor Closer Thresholds

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

Specify when ordering:

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

TYPES 1, 3, & 4

ALUMINUM

1/2" x 7"	427E
1/2" x 8"	428E
1/4" x 7"	713
1/4" x 8"	813
1/2" x 9"	429E
1/2" x 10"	430E
1/4" x 9"	913
1/4" x 10"	1013

ARCHITECTURAL BRONZE

1/2" x 7"	427BR
1/2" x 8"	428BR
1/4" x 7"	713BR
1/4" x 8"	813BR

TYPE 5

ALUMINUM

1/2" x 7" x 4"	427E x 424E	1/2" x 7" x 4"	427BR x 424BR
1/4" x 7" x 4"	713 x 413	1/4" x 7" x 4"	713BR x 413BR
1/2" x 8" x 5"	428E x 425E	1/2" x 8" x 5"	428BR x 425BR
1/4" x 8" x 5"	813 x 513	1/4" x 8" x 5"	813BR x 513BR

ARCHITECTURAL BRONZE

1/2" x 7" x 4"	427BR x 424BR
1/4" x 7" x 4"	713BR x 413BR
1/2" x 8" x 5"	428BR x 425BR
1/4" x 8" x 5"	813BR x 513BR

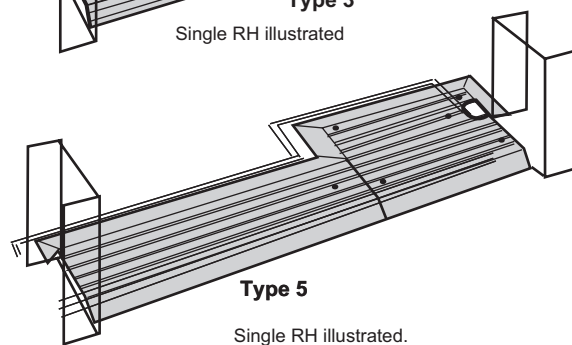
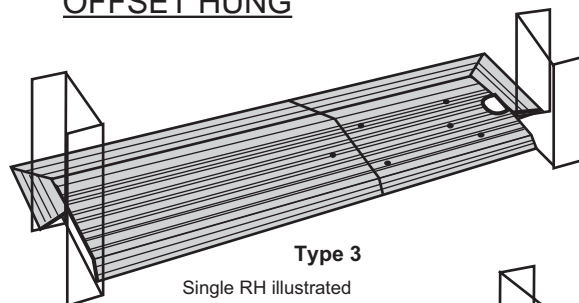
Other thresholds and custom assemblies may be prepped for floor closers. Consult factory for custom applications.

Special Finishes available

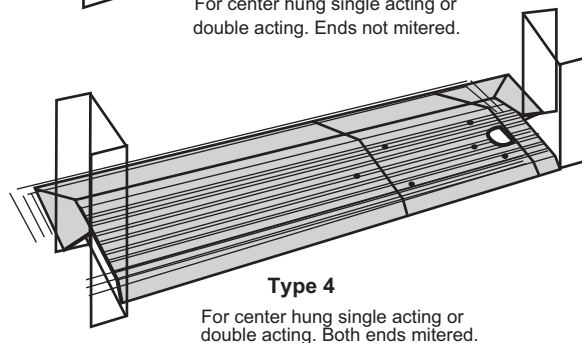
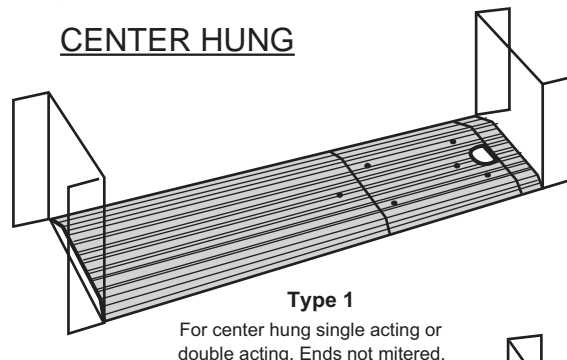
- Polished, suffix "POL"
- Dark oxidized bronze US10B, suffix "DKB"
- Slip-resistant SIA finish, suffix "SIA"



OFFSET HUNG



CENTER HUNG



Stainless steel available

- Specify type (1, 3 or 4) x stainless steel threshold model number

Optional Finishes:

- #304, Mill finish
- Polished US32, 629, suffix "POL"
- Brushed US32D, 630, suffix "Brushed"

Floor Closer Thresholds

All thresholds this page

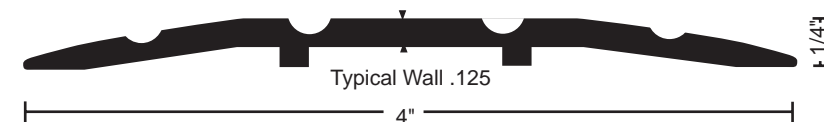


MATERIALS & FINISHES

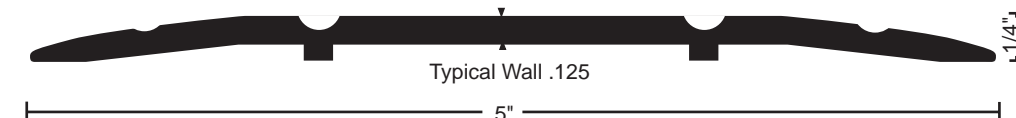
- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional:
Slip Resistant SIA Finish



413 .53 lbs./ft.
413DKB .53 lbs./ft.



513 .68 lbs./ft.
513DKB .68 lbs./ft.



713 1.01 lbs./ft.
713DKB 1.01 lbs./ft.



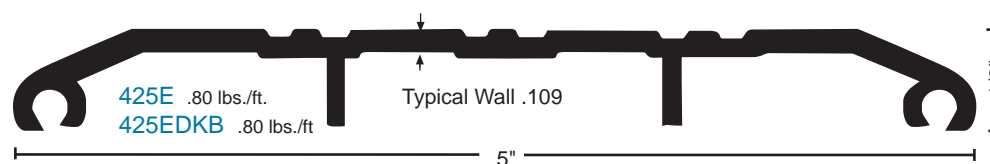
813 1.20 lbs./ft.
813DKB 1.20 lbs./ft.

FASTENERS

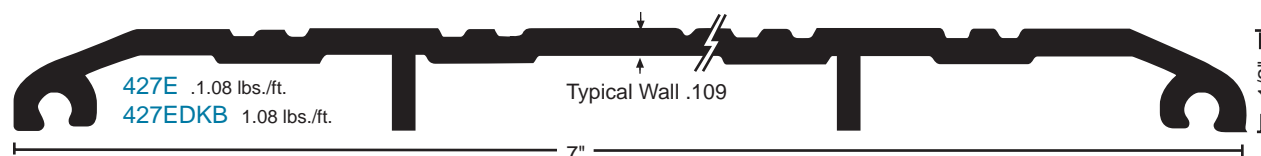
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.



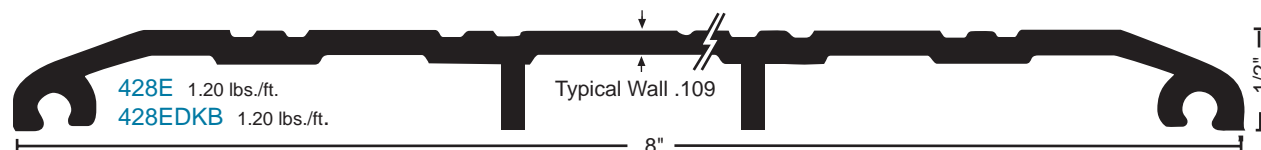
424E .60 lbs./ft.
424EDKB .60 lbs./ft.



425E .80 lbs./ft.
425EDKB .80 lbs./ft.



427E 1.08 lbs./ft.
427EDKB 1.08 lbs./ft.



428E 1.20 lbs./ft.
428EDKB 1.20 lbs./ft.



Stainless Steel 1/4" Saddle Thresholds

All thresholds this page



Widths and heights other than shown are available upon request.

Return Closed Ends are available - see page T4.

Stainless steel thresholds are type #304, mill finish.

Optional Finishes:

Polished US32, 629 suffix "POL"

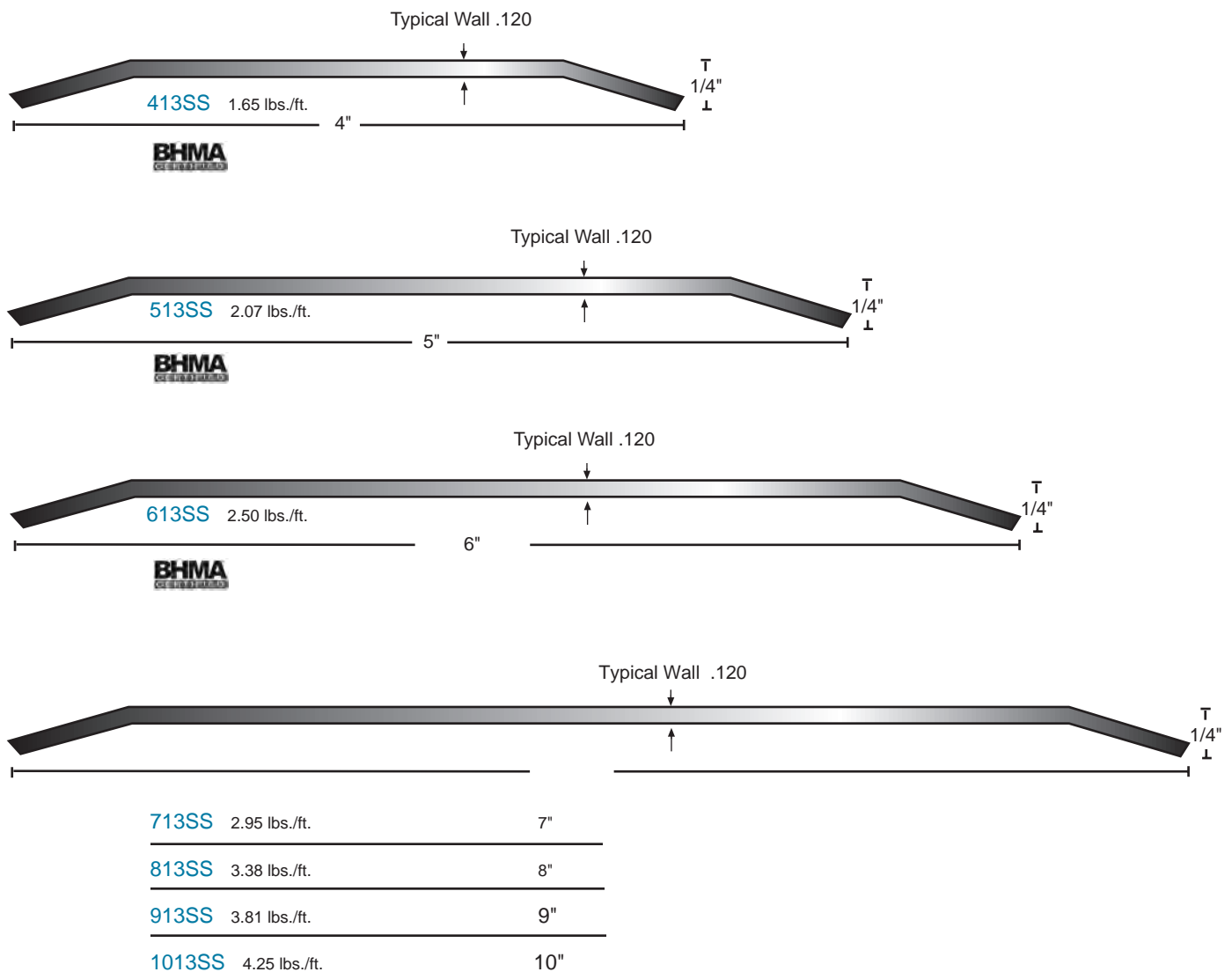
Brushed US32D, 630 suffix "Brushed"



Slip-resistant suffix "SIA"

FASTENERS

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



Stainless Steel 1/2" Saddle Thresholds

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

Optional Finishes:

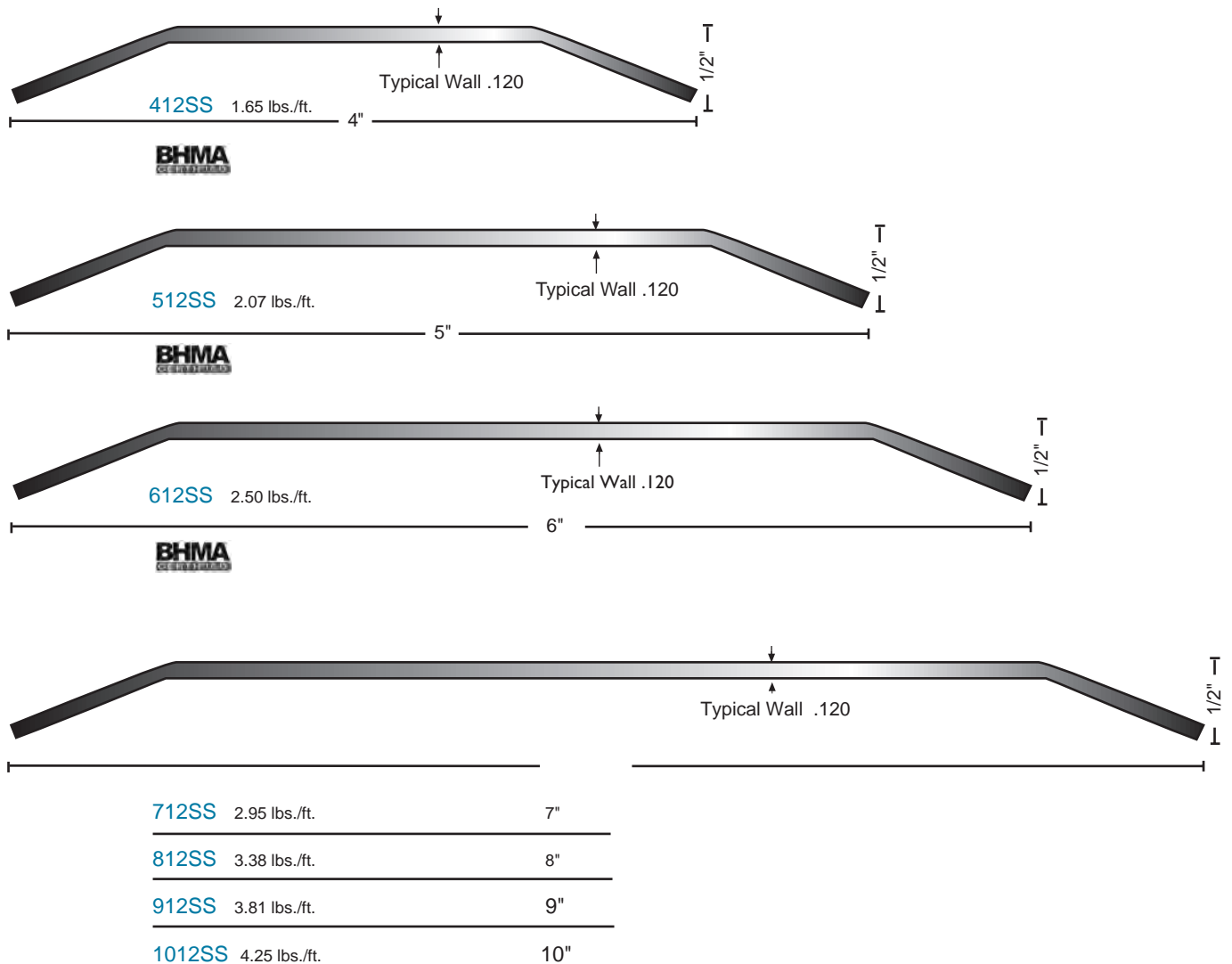
Polished US32, 629 suffix "POL"
Brushed US32D, 630 suffix "Brushed"
Slip-resistant suffix "SIA"



FASTENERS

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

All thresholds this page





Stainless Steel Bumper Seal Thresholds

#304 stainless steel, mill finish

Optional finishes:

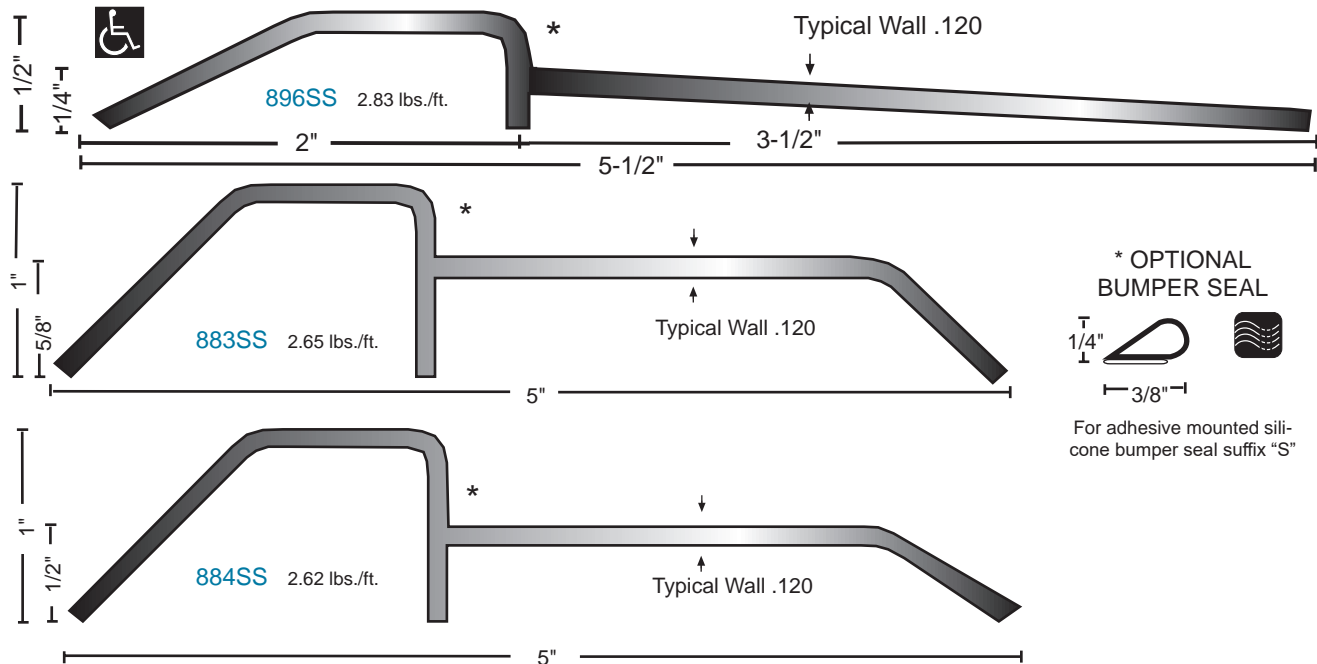
Polished US32, 629 suffix "POL"

Brushed US32D, 630 suffix "Brushed"



Slip-resistant suffix "SIA"

All products this page



Stainless Steel Cover Plate

• #304 stainless steel material, Mill finish

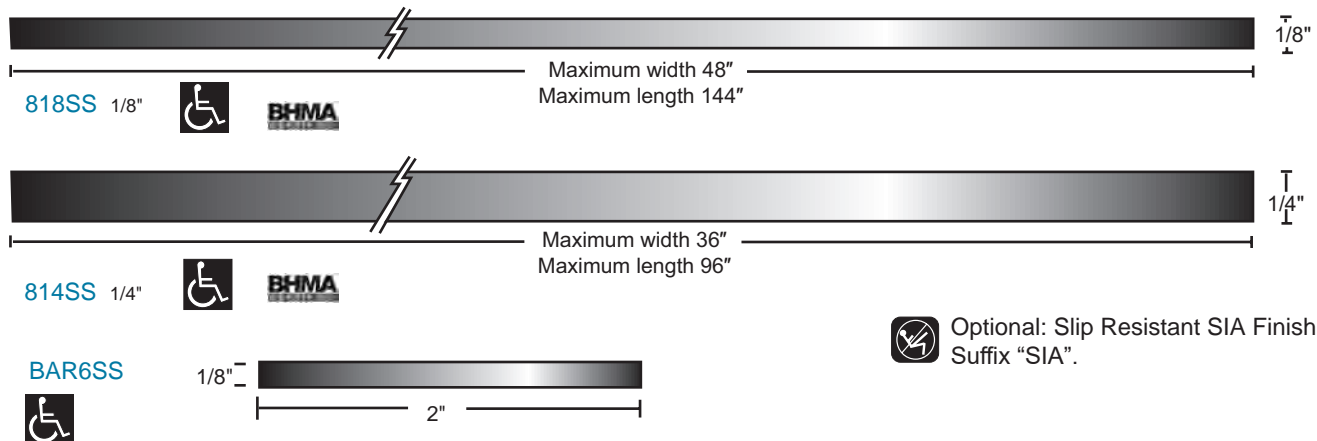
Optional finishes: Polished US32, 629 suffix "POL"

Brushed US32D, 630 suffix "Brushed"

- PVC coating applied to protect the finish during shipping and installation.
- Square cut edges standard. Specify if beveled edge is required.
- Furnished undrilled although custom drilling is available to your detail.
- Minimum width 3" on 818SS and 4" on 814SS.
- #10 x 1-1/2" stainless steel wood screws furnished.



Beveled edges
available
at extra charge



Architectural Bronze Bumper Seal Thresholds

Architectural Bronze satin finish (728) similar to US4.

Optional finishes:

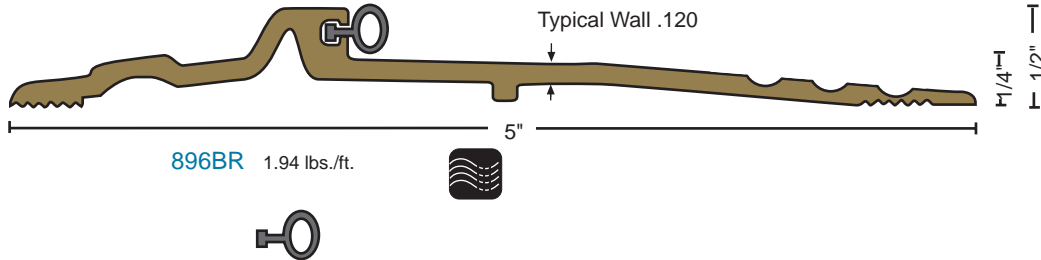
Polished (721), suffix "POL"

Dark oxidized oil rubbed (722) similar to US10B, suffix "DKB"



Slip-resistant, suffix "SIA"

All products this page



896BR 1.94 lbs./ft.

BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

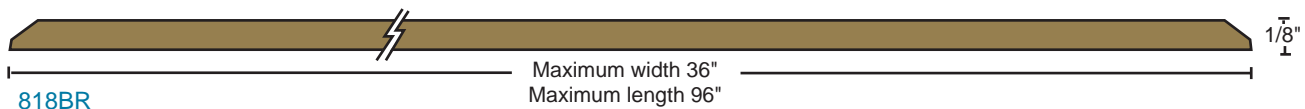
Options:

NGP-TPV ("N")

Silicone ("S")

Brass Cover Plate

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

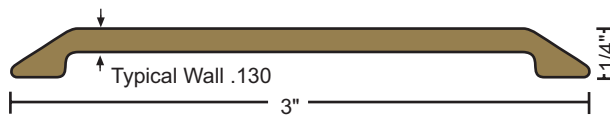


Optional: Slip Resistant SIA Finish
Suffix "SIA".

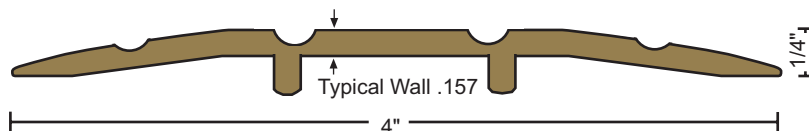


Architectural Bronze 1/4" Saddle Thresholds

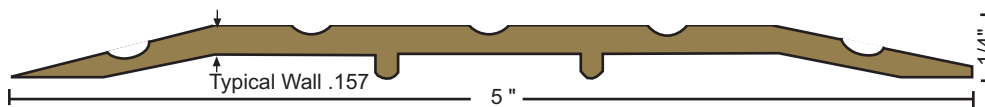
All thresholds this page



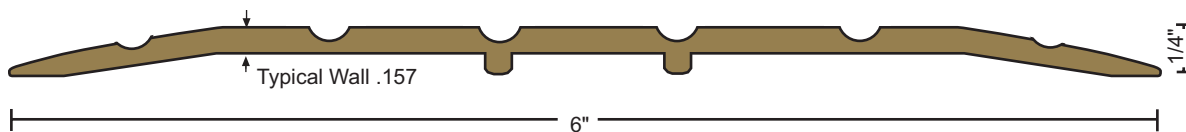
411BR 1.42 lbs./ft.



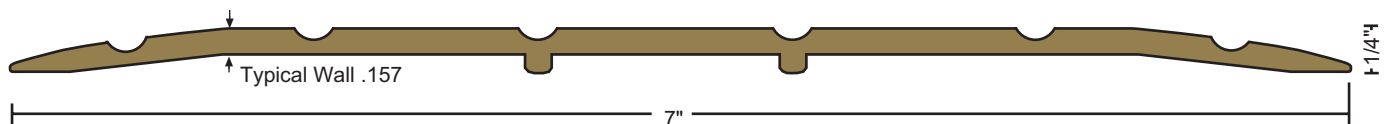
413BR 1.52 lbs./ft.



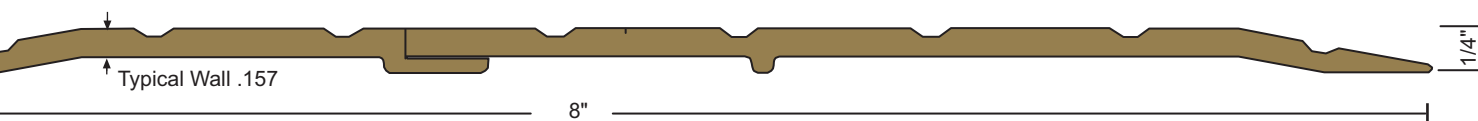
513BR 1.96 lbs./ft.



613BR 3.06 lbs./ft.



713BR 3.62 lbs./ft.



813BR 4.60 lbs./ft.

Architectural Bronze satin finish (728)
similar to US4.

Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)

similar to US10B, suffix "DKB"

Slip-resistant, suffix "SIA"



FASTENERS

#10 X 1-1/2" solid brass
wood screws furnished.

Antique bronze finish
screws provided with dark
bronze thresholds.

Architectural Bronze 1/2" Saddle Thresholds

All thresholds
this page



Architectural Bronze satin finish (728)
similar to US4.

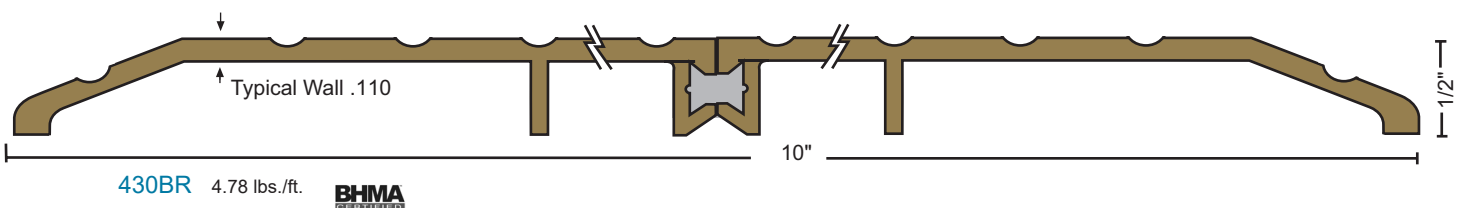
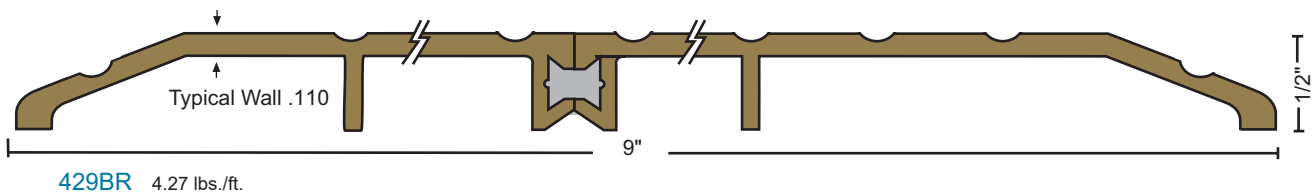
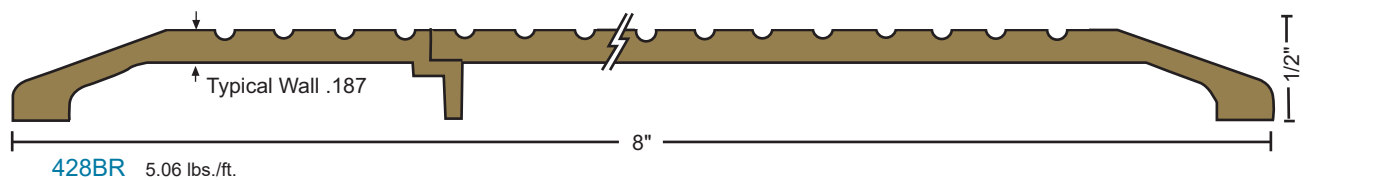
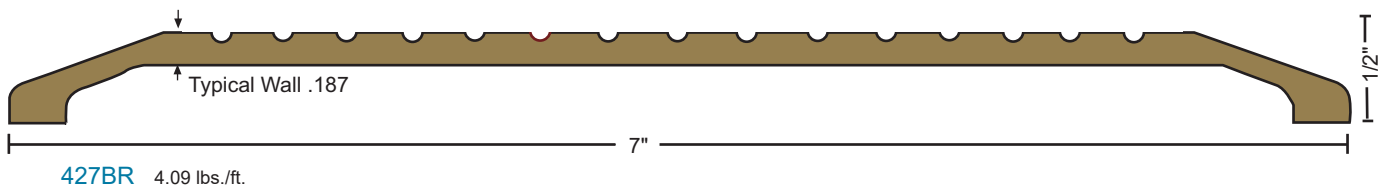
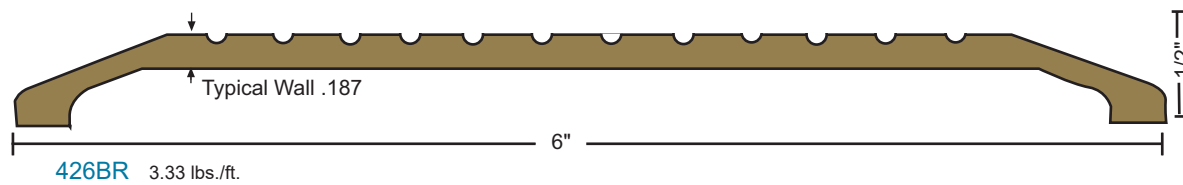
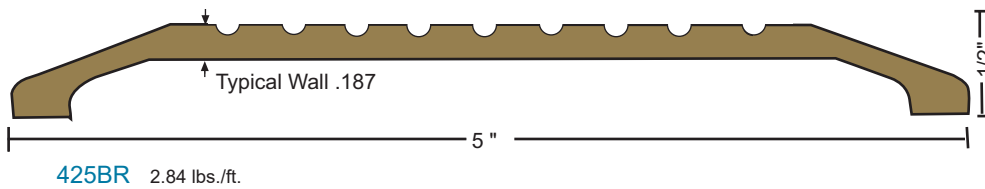
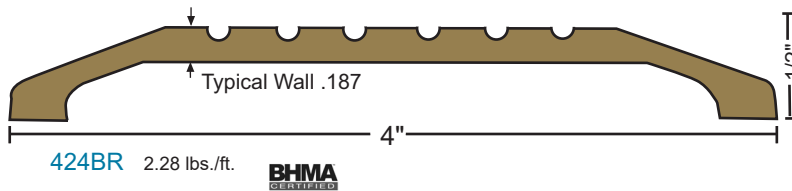
Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)
similar to US10B, suffix "DKB"



Slip-resistant, suffix "SIA"



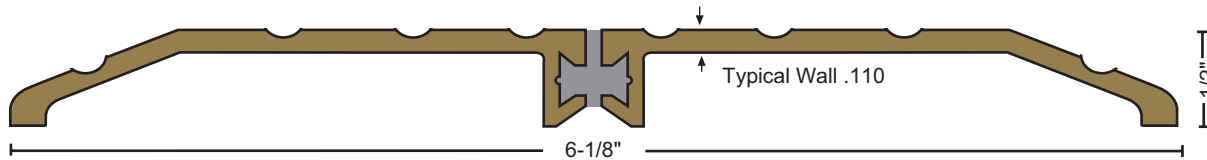


Architectural Bronze Thermal Break Saddle Thresholds

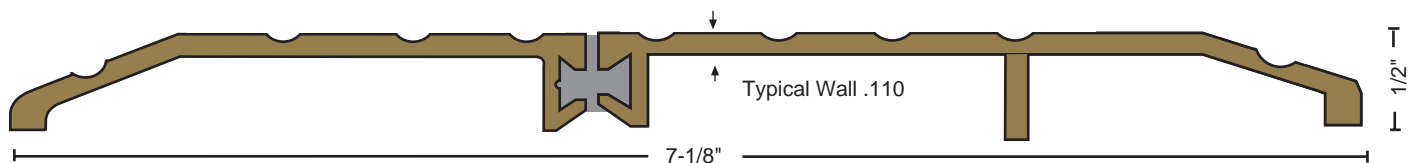
All Thresholds this Page



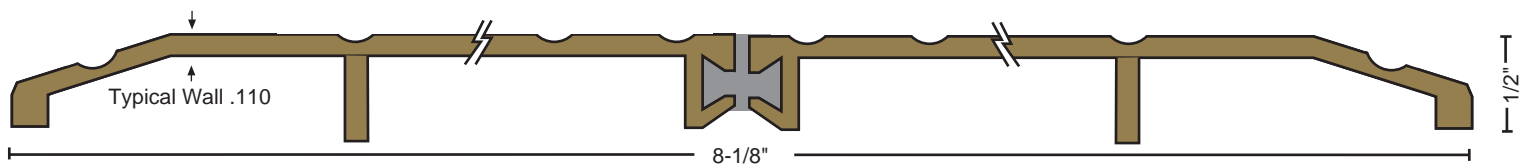
Thermal Break thresholds feature a rigid thermoplastic spline creating a separation to prevent the transfer of outside temperature and frost through the threshold.



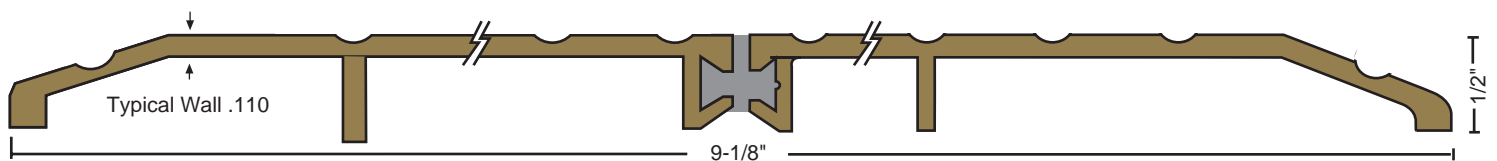
8426BR 2.84 lbs./ft.



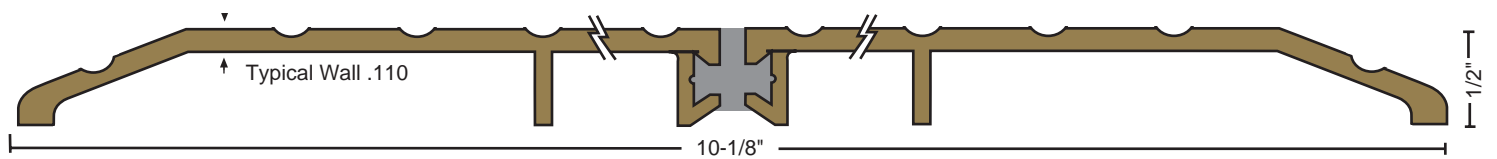
8427BR 3.23 lbs./ft.



8428BR 3.62 lbs./ft.



8429BR 4.16 lbs./ft.



8430BR 4.70 lbs./ft.



Architectural Bronze satin finish (728)
similar to US4.

Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)

similar to US10B, suffix "DKB"

Slip-resistant, suffix "SIA"



FASTENERS

#10 X 1-1/2" solid brass
wood screws furnished.

Antique bronze finish
screws provided with dark
bronze thresholds.

Architectural Bronze Half-Saddle Thresholds

All products this page



*

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

Architectural Bronze satin finish (728) similar to US4.

Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)

similar to US10B, suffix "DKB"

Slip-resistant, suffix "SIA"

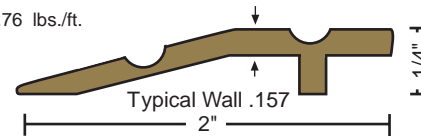


FASTENERS

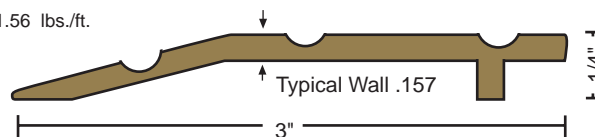
#10 X 1-1/2" solid brass wood screws furnished.

Antique bronze finish screws provided with dark bronze thresholds.

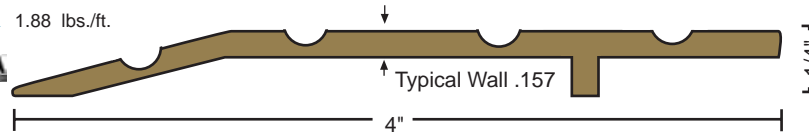
215BR .76 lbs./ft.



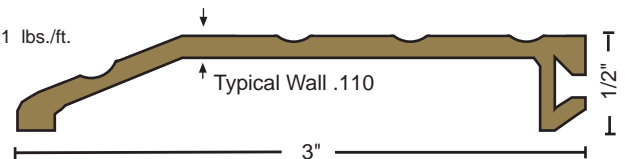
315BR 1.56 lbs./ft.



415BR 1.88 lbs./ft.

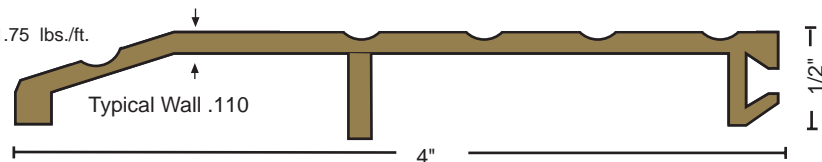


322BR 1.31 lbs./ft.



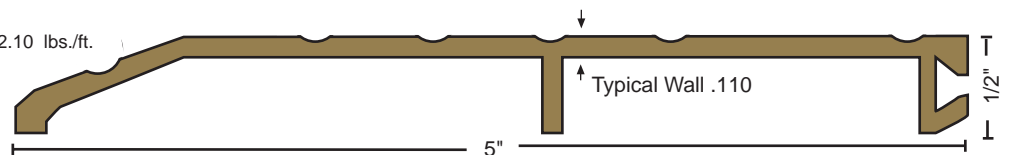
Not intended for insert

327BR 1.75 lbs./ft.



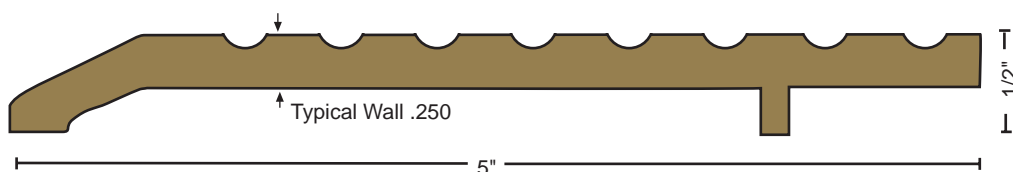
Not intended for insert

350BR 2.10 lbs./ft.



Not intended for insert

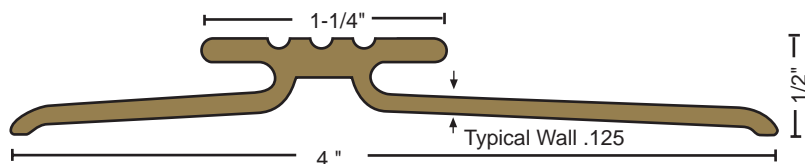
325BR 3.95 lbs./ft.



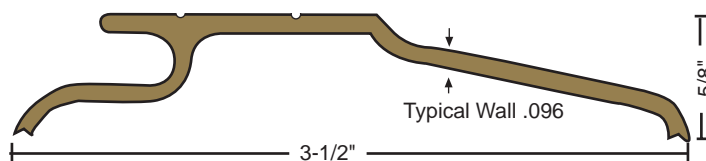


Architectural Bronze Interlocking Thresholds

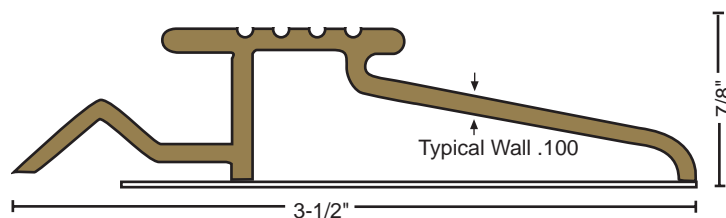
All products this page



442BR 2.01 lbs./ft.

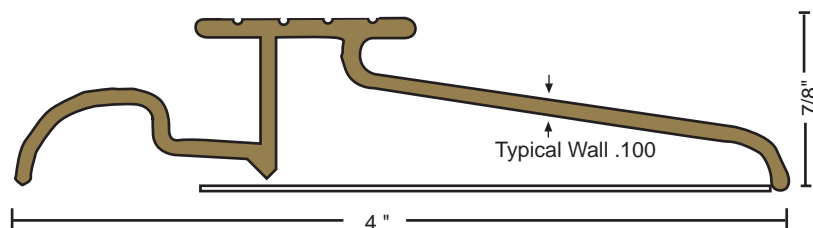


473BR 1.54 lbs./ft.



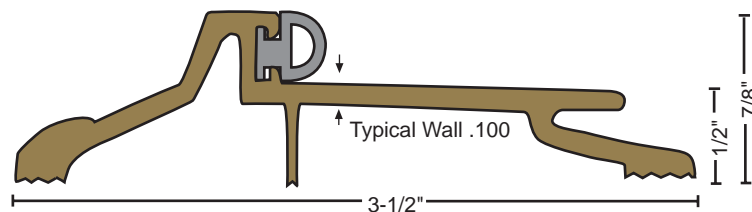
483BR 1.80 lbs./ft.

Weep holes furnished standard.
Bronze pan optional - please specify



484BR 1.83 lbs./ft.

Weep holes furnished standard.
Bronze pan optional - please specify



895BR 2.06 lbs./ft.

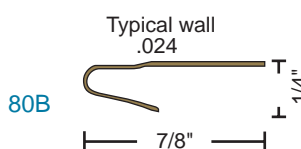


Bronze Hook

Supplied Standard with bronze interlocking thresholds:

Furnished with #18 x 7/8" nails

Available in 36" & 48" lengths



80B

Architectural Bronze satin finish (728) similar to US4.

Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)

similar to US10B, suffix "DKB"



Slip-resistant, suffix "SIA"

FASTENERS

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



BUMPER SEAL

Seals against the door providing weather resistance

Vinyl ("V") supplied unless other material specified

Options:

NGP-TPV ("N")

Silicone ("S")

Pile ("P")

Architectural Bronze Custom Thresholds

All products this page



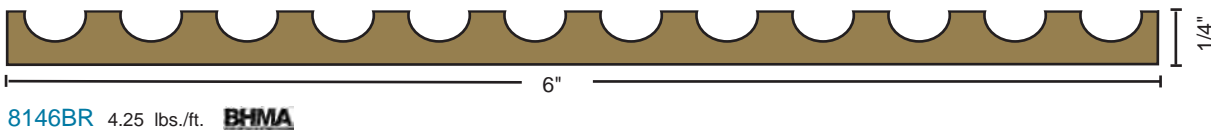
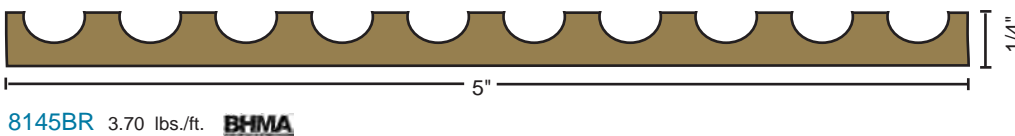
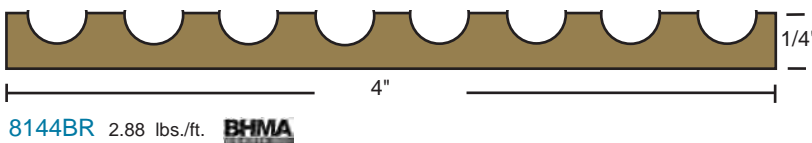
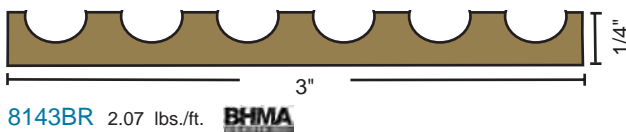
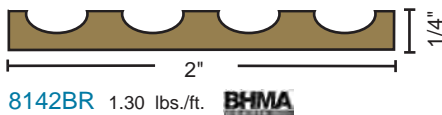
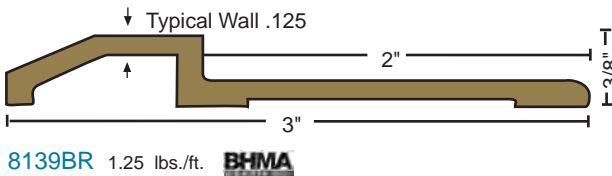
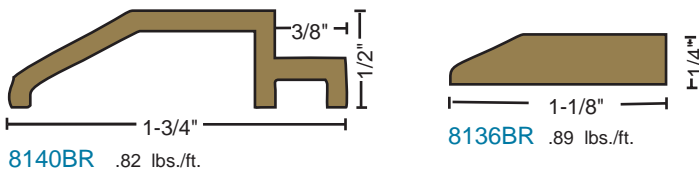
Choose from various height and width components to build custom thresholds to meet special job requirements. See the custom fabricated threshold example illustrated on page T4. For assistance contact our tech support team.

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

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

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

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



Architectural Bronze satin finish (728) similar to US4.

Optional finishes:

Polished (721), suffix "POL"

Dark oxidized oil rubbed (722)

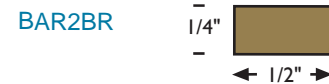
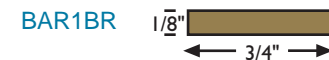
similar to US10B, suffix "DKB"

Slip-resistant, suffix "SIA"



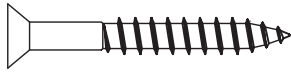
Bar Supports **BHMA**

used as support under threshold assemblies





Threshold Fasteners



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



Phillips Head
Top View



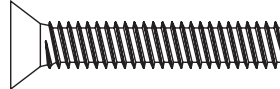
Spanner Head
Top View



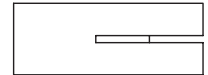
Torx Security
Top View



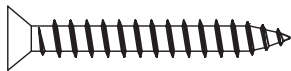
#12 x 1 1/2" Phillips Flat Head Wood Screw
Use 9/64" Drill bit
Also #12 x 1"



#1/4-20 x 1 1/2" Phillips Flat Head
Machine Screw



#1/4-20 Expansion Anchor
Carbon Steel
Use 3/8" Drill bit



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



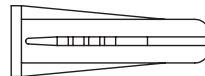
#10-24 x 1 1/2" Phillips Flat Head
Machine Screw
Also #10-24 x 3/4", #10-24 x 1"



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



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



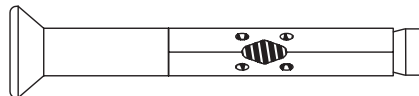
Plastic Anchor Various Sizes
Use Drill Size = Anchor Size



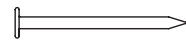
Lead Expansion Shield
4% Antimonial Lead
Use 5/16" Drill bit



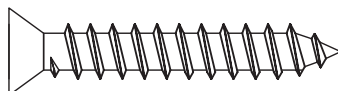
#6 x 3/4" Phillips Flat Head Self-tapping
Machine Screw
Use 3/32" Drill bit



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



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



Hilti Kwik-Con II 1/4" x 1-3/4" Screw,
Available with Phillips Head or Torx Head.
Use Hilti TKC large concrete bit SDS 1/4"
Tough Carbide