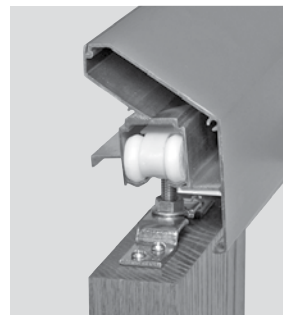
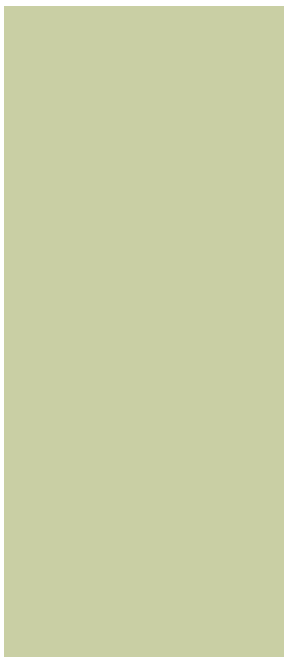
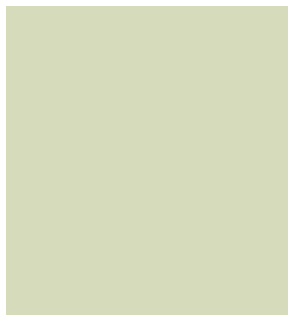


Architectural Accessories & Door Trim

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Pemko Catalog

Featuring Markar Architectural Products

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Who is PEMKO?

Since 1952, PEMKO has been a key manufacturer in weatherstripping products. Over the years we have expanded our product line into a full line of architectural door trim products to include thresholds, fire/smoke gaskets, door bottoms, perimeter gasketing, brush seals, astragals, continuous geared and stainless steel hinges, fire and life-safety products, lites and louvers, and sliding door hardware.

PEMKO offers sound-tested, smoke-labeled, fire-labeled, skid resistant, and ADA-compliant products, and aggressively pursues new product development to create solutions for new applications and requirements.

Applications

- **Energy Efficiency:** PEMKO has the products to make a complete energy efficient door solution – door bottoms, astragals, meeting stiles, brush gasketing, perimeter gasketing, and thermal barrier thresholds.
- **Smoke and Fire Gasketing:** Hot Smoke Seal™ is an intumescent fire life-safety product that meets UBC7-2 (proposed UL10C) positive pressure testing. PEMKO's S88 and S773 silicone seals are also smoke and fire rated gaskets that meet UBC7-2 positive pressure testing and are Category G gaskets for edge sealing systems for use with Category B doors.
- **PEMKO Acoustic Solutions:** As a result of extensive acoustic testing, PEMKO gasketing systems are used on openings with STC Ratings from the low-30's and into the mid-50's. Acoustic seal sets have been assembled to better assist with determining an operable rating when a door's sealed-in-place rating is known. See pages 222 to 224 for more info.
- **Electrically Modified PEMKO Hinges:** Continuous geared hinges are designed for commercial doors of all traffic levels and offer many benefits for your opening. All of PEMKO's commercial-grade continuous geared hinges have the added option for electrical modification. Some of these options allow for electrical modifications to be made without removing the door from the opening.
- **ADA-compliant aluminum and rubber ramps** provide wheelchair access in public access doorways.
- **Sustainability:** Products are certified to GREENGUARD GOLD standards for low chemical emissions into indoor air during product usage.

PEMKO products undergo rigorous testing to ensure that they meet or exceed the industry standards. Look for the logos next to the product drawings and see pages 12-13 for more information.



LEED Certification Contribution

PEMKO can help to achieve prerequisites and accumulate points in several categories and credit areas for LEED. For further information, please call 1-800-824-3018 or refer to our website to view our prepared LEED statement.



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ASSA ABLOY is a member of the USGBC and CaGBC

Sales & Support

Customer Service Representatives are available from 7am to 7pm Central time at 1-800-824-3018 or visit the website for the current catalogs, sell sheets, and the most up-to-date templates.

There are over 50 items on the PEMKO Quick Ship Program that ship within 24 hours. For the most up-to-date list see the Quick Ship flyer posted on www.pemko.com, in the literature section.

Need a Sales Rep?

PEMKO is largely represented by the ASSA ABLOY Door Security Solutions team (except N CA, N NV). Contact your local ASSA ABLOY Door Security Solution Representative via e-mail by going to www.assaabloydss.com and clicking on "Sales Support" or call 1-800-DSS-EZ4U (800-377-3948).

For representation information in Northern California or Northern Nevada, please visit www.pemko.com to locate and view the sales contact for your area or call PEMKO Customer Service at 1-800-824-3018.

Website: www.pemko.com and www.markar.com

Facebook: www.facebook.com/pemkomfg

Twitter: <http://twitter.com/#!/PemkoMfg>

PEMKO has manufacturing and warehouse locations in Memphis TN and Ventura CA as well as warehouse locations in Toronto ON and Vancouver BC.

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General Information and Terms

Terms:

All prices are F.O.B. factory. To customers with satisfactory and / or prior approved credit and account status, terms of 2% 10th prox., NET 20th will be allowed. Please enclose an account application prior to or with your initial order.

Credit Card Capabilities:

Visa, Mastercard and American Express are accepted (only for established open accounts). Payment terms are NET.

Freight Terms:

All orders are F.O.B. factory. For NET orders of \$1000.00 or more, freight will be prepaid in the continental U.S. for shipment the most economical way. For shipments to Hawaii on NET orders of \$1350.00 or more, freight will be prepaid the most economical way. A freight allowance of \$13.00 / cwt will apply on shipments to Canada, Alaska, or Puerto Rico for NET orders of \$1100.00 or more. All shipments that exceed 108" in packaged length must be shipped LTL. Add 4" to the length of the product for finish package length. Minimum freight on these orders is \$130.00.

Oversized/Special Packaging:

\$50.00 NET. This will be added to any order not meeting prepaid freight where: a) the product is over 10' length, b) for welded threshold assemblies, or c) as deemed appropriate to ensure product safety while in transit.

Minimum Order Level:

A surcharge of \$8.00 NET will be added to NET orders less than \$40.00.

Returns And Allowances:

No merchandise will be accepted for return or credit unless prior written approval is obtained. Returned merchandise must be of recent sale (12 months), in restockable / resalable quality, size, and condition. S88, S44, S442, S776, S773, S772, S771, S771x6, PK55, and PK33 may only be returned within six (6) months of the date of sale.

Contact PEMKO Customer Service for rules and Return Goods Authorization paperwork.

Cancellation Charges:

Cancelled orders for special material, non-stock sizes, or special sizes are subject to cancellation charges, based on factory expense and material used.

Guarantee:

PEMKO products are guaranteed for (5) years against defects in material or workmanship, except: 1) PemKote abrasive surface for thresholds is guaranteed for ten (10) years. 2) Polyurethane foam tapes are guaranteed for 90 days. 3) Grade 1 PemkoHinges are guaranteed for the life of the opening against defects in material or workmanship. All other grades of PemkoHinge carry a ten (10) year warranty. 4) Electrical modification performance is guaranteed for five (5) years on Heavy Duty Grade 1 (HDI) and 1100 Series hinges. Electrical modification performance is guaranteed for one (1) year on Standard Duty and Heavy Duty Grade 3 (HD3) hinges. 5) PC Henderson products are guaranteed for two (2) years against defects in material workmanship.

Markar Continuous Hinges and Pivots are guaranteed to be free from defects in materials and workmanship for a period of 10 years. Hinges with medical bearings are guaranteed for twenty-five (25) years. Markar Edge Guards and Astragals are guaranteed to be free from defects in materials and workmanship for a period of (1) year. Markar electrical modification performance is guaranteed for five (5) years.

PEMKO will not be liable for defects or damages arising from improper installation, product modification, incorrect application or storage of product. Written notice of damages must occur within the warranty period. Liability shall be limited to the replacement of product or component determined to be defective and shall not include costs arising from removal or reinstallation of product. Cost of replacement shall not exceed original purchase price. No other claims will be allowed. In no event shall liability be extended to include punitive, incidental or consequential damages arising from use of PEMKO products. This is the sole warranty given by Pemko Manufacturing Company. No other warranty implied or expressed shall be allowed.

Claims For Shortage Or Damage In Transit:

All claims must be made within ten (10) days of receipt of goods. Consignee assumes the risk of loss or damage in transit.

Mill Lengths:

Most extrusions are available in mill lengths. Cut lengths over 12 feet are charged as mill lengths.



General Information and Terms

Ordering Information:

Please order material by product number, specifying length required per piece and the number of pieces. Most weatherstrips are stocked in standard sizes. If it is not practical to furnish the size ordered, the next larger size will be furnished and charged. Thresholds are maintained in standard sizes with $\frac{1}{2}$ " extra length on thresholds thru 47" and 1" extra length for thresholds 48" and longer to allow for fitting and field trim, unless exact net cut size is specified.

Thresholds, perimeter gaskets, astragals, and door bottoms are punched or drilled as standard, unless otherwise specified in this catalog.

Thresholds are punched with 12" centers. Thresholds over 8" in width will be punched with a double row. Thresholds are generally supplied with #10 flat head screws. Other fasteners are available on request.

Metal retainers for perimeter gaskets, door bottoms, and astragals are punched with 8" centers.

Items can be furnished undrilled or unpunched by specifying "No Holes" on your Purchase Order.

Non-Stock Finish Information:

Some items shown in this catalog are not stocked in certain finishes (i.e. BDG, G, PW, and SN). 'Batch charges' may be required on non-stock finishes to achieve our normally fast lead times. Contact PEMKO Customer Service for a quotation and lead time.

Option Tables:

The option tables are provided for selection of other than standard or normal finishes, components, fabrication, or fasteners. Since these are other than standard or normal, please allow for extra lead time for option(s) selected.

Cutting Tolerances:

Elastometric: -0 + 2" (50.8mm)

Thresholds (up to 48"): + $\frac{1}{2}$ " (12.7mm)

Thresholds (48" and up): +1" (25.4mm)

Net Cut: +/- 0.060, $\frac{1}{16}$ " (1.5mm)

Hinges: +/- 0.032, $\frac{1}{32}$ " (0.8mm)

Automatic Door Bottoms: +/- 0.060, $\frac{1}{16}$ " (1.5mm)

Orders are subject to acceptance by PEMKO. All prices and terms are subject to change without notice.

How to Order (Product Number Designations):

When placing your order, please specify the product profile number, finish, insert and size/length. Also make sure to clearly state any special fabrication needs, optional fasteners or custom finishes/sizes required.

Throughout the catalog, products are listed with an underscore (_) where variable finishes are available. More in-depth ordering information for specific lines is available in the individual product sections of the catalog.

Standard Products:

Example: 2001 A T 36 (Shown as 2001_T in catalog)

Profile#:	Finish:	Insert:	Size/Length:
2001	A	T = ThermoSeal™	36 = 36"
216	SN	PK = PemkoPrene™	48 = 48"
297	BDG	V = Eco-V™	3684 = 1 piece @ 36" + 2 pieces @ 84"

Adhesive Gasketing Products:

Example: S773 D 21 (Shown as S773_ in catalog)

Profile#:	Finish:	Size/Length:
S773	D	21 = 21' coil
PK55	BL	510 = 510' (bulk packaging)
S88	W	17 = 17' coil

For PemkoHinge™ and Modular Ramps, see detailed ordering information in their individual sections.

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Materials and Finishes Information

Metals:

PEMKO's extruded metal products are made from 6063 aluminum alloy or CDA alloy C38500 architectural bronze (brass). Roll-formed metal products are made from stainless steel, high-strength special-purpose zinc alloy, 70-30 yellow brass, or 85-15 red brass. Roll-formed aluminum weatherstripping is produced from various alloys selected for the particular properties required. See finishes information below for all finish designations. If you do not see the option you require, please inquire with our Customer Service Department about the feasibility of a custom finish.

Standard Finishes:

A	- Mill Finish Aluminum	K	- PemKote™ (on aluminum or bronze)
AK	- Mill Finish Aluminum w/PemKote™	PA	- Mill Finish Aluminum
B	- Mill Finish Extruded Bronze (Brass)	PD	- Painted Dark Bronze Aluminum
BDC	- Bright Dip Clear Anodized Aluminum	PG	- Painted Gold Aluminum
BDG	- Bright Dip Gold Anodized Aluminum	PW	- Painted White Aluminum
C	- Clear Anodized Aluminum	S	- Cladded Stainless Steel
CB	- Cladded Brass	SN	- Satin Nickel Anodized Aluminum
D	- Dark Bronze Anodized Aluminum	SP	- Galvannealed Steel
G	- Gold Anodized Aluminum	SS	- Stainless Steel (see individual part for finish)
		Z	- Zinc Metal

Special Order Finishes:

Champagne	Polished Bronze, Uncoated
Light/Medium Dark Bronze	Satin Brushed Aluminum, Uncoated
Painted Aluminum (any color)	Satin Brushed Bronze, Uncoated
Polished Aluminum, Uncoated	Oxidized and Oil Rubbed Bronze

Finish Options:

PemKote™	Satin Buff Brushed Brass
Anodized (clear, light/medium dark bronze, black, champagne, gold)	Oxidized & Oil Rubbed L-metal (ANSI/BHMA 722)
Chrome Plate	Oxidized & Oil Rubbed L-metal (custom finish)
Prime Coat	Oxidized & Oil Rubbed Thresholds (ANSI/BHMA 722)
Pewter Finish for Aluminum	Oxidized & Oil Rubbed Thresholds (custom finish)
Polish/Buf Brass	Oxidized & Oil Rubbed Weatherstrip (ANSI/BHMA 722)
Polish/Buf Aluminum	Oxidized & Oil Rubbed Weatherstrip (custom finish)

Adhesive Gasketing And Replacement Eco-V™ Finishes:

BL - Black	Lites & Louvers Finishes:
C - Clear	B - California Beige Powder Coat
D - Dark Brown	D - Dark Bronze Duranodic Powder Coat
GR- Light Gray	G - Gray Primer Powder Coat
TAN - Tan	
W - White	

Inserts:

PEMKO manufactures many products with gasket inserts (seals). See insert information below for all insert (seal) designations. Also, the available inserts (seals) for each individual product are shown adjacent to each individual product.

E - EPDM, Solid	PK - PemkoPrene™**	SB - Soft Brush
M - Magnetic	Q - Kerf-in Foam	T - ThermoSeal™
N - Neoprene or EPDM*	R - Sponge Neoprene or EPDM*	TF - Triple Foam
NB - Nylon Brush	S - SiliconSeal or Sponge Silicone (see individual part)	V - Eco-V™
P - Pile		

*N: As we "Green" PEMKO's inserts "N" may be either Neoprene or EPDM.

*R: As we "Green" PEMKO's inserts "R" may be either Sponge Neoprene or Sponge EPDM.

Over time, these inserts will move to EPDM material.

**PK: In order to best control our customers' costs some PK (Santoprene™) products may be a silicon based elastomeric material with comparable performance.

NOTE: If any of this may cause an issue, please contact PEMKO Customer Service for specific insert information or solutions.



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Fabrication Options:

PEMKO offers many fabrication options to fit specific job requirements. Please consult our Customer Service and/or Engineering departments for details. Custom fabrications are subject to engineering design costs and are quoted on a time and material basis.

Bevel	One Edge	Miter2-2	Double, Both Ends of Threshold
Cut	Thresho-Sill Nosing Flush	MiterDS1-1	Door Shoe Miter, One End of Door Shoe
Leadline	Leadline of Astragals, Door Bottoms	MiterDS1-2	Door Shoe Miter, Both Ends of Door Shoe
Rip	Width	Half Notch	1/2", Door Shoe, Both Ends, Drip Only
Tack Weld	One Line	Half Notch	3/4", Door Shoe, Drip Only, Both Ends
Tab	Welded Tab & Screw	Half Notch	5/8", Door Shoe, Drip Only, Both Ends
Support Leg	For Elevated Plates 3" Center to Center	Half Notch	9/16", Door Shoe, Drip Only, Both Ends
L-Notch	Both Ends of Threshold	Full Notch	1/2", Door Shoe, Both Ends
U-Notch	Both Ends of Threshold	Weep Holes	All Door Shoes
Drill	Thresho-Sill (Add "H" to Prod. #)	Custom Holes	Custom Hole Pattern
Mill & Drill	Thresho-Sill (Add "M" to Prod. #)		
Miter1-1	Single, One End of Threshold		
Miter1-2	Single, Both Ends of Threshold		
Miter2-1	Double, One End of Threshold		

Fabrication Options Important Note: Complicated fabrications are quoted based on time and materials.

Drawings:

Product drawings throughout the catalog may be a reduced representation/not drawn to scale. They are representations of the product size, dimensions, shape, etc. For scale drawings in PDF or AutoCAD (DWG or DXF) format, please visit our website: www.pemko.com

Product Testing/Classification Symbols

These symbols are shown adjacent to products throughout the catalog so that one can readily identify and select products which meet specification and/or code requirements.

**GREENGUARD GOLD Certification:**

Tested To: UL2818

GREENGUARD GOLD Certified products are certified to GREENGUARD GOLD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

**Air Infiltration Tested**

Tested To: ASTM E-283-04 (2012)

Products indicated by this symbol have been air infiltration tested in accordance with the requirements of ASTM E-283 Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.

**Sound Tested**

Tested To: ASTM E 90-2009

Products indicated by this symbol have been acoustically tested in accordance with ASTM E 90-2009. Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions Tests were conducted by accredited laboratories for acoustic testing. Contact PEMKO for recommended PEMKOSTCSET kits.

**Barrier-Free**

Meets Requirements of: ADAAG-2010 (Amended) and ICC / ANSI A117.1-2009

Products indicated by this symbol are access compliant by having installed height differences not over 1/2" with allowable edge and slope conditions. All ramp products (found in the Modular Ramp section) have ADA compliant 1:12 slopes: PEMKO Modular Ramp Thresholds, Rubber Ramp Thresholds and Recycled Rubber Ramps. Contact PEMKO or refer to page 14 for recommended Barrier-Free Systems.

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Non-Skid/PemKote™

Meets Requirements of: ASTM D 2047, UL 410 & Federal Specifications P-F-430C

PemKote™ is a rugged abrasive finish of nickel-aluminum composite which is fused to the metal surface by an exothermic reaction. This process produces an aesthetically pleasing skid resistant coating with extremely high bond strength and excellent resistance to oxidation. PemKote™ carries a TEN (10) YEAR GUARANTEE, and is available on all PEMKO metal thresholds and metal modular ramps. PEMKO highly recommends the use of PemKote™ for all Barrier-Free Modular Ramps and as a durable, economical alternative for cast abrasive products.



Smoke Tested

Tested To: UL 1784

Meets Requirements of: NFPA 105-2013

Products indicated by this symbol are Listed by WYLE Laboratories as having been tested in accordance with Underwriters Laboratories Inc.®, Standard UL 1784 Air Leakage Tests of Door Assemblies, and meet the performance criteria for allowable air leakage as specified in NFPA 105-2013 Installation of Smoke Control Door Assemblies.



Fire Rated

Products indicated by this symbol are fire rated, classified and listed (U.S.A. and Canada) to meet the requirements/standards of UL10B, UL10C, and UL10C (Edge Sealing). For a complete listing of fire rated and UL rated products, please refer to the UL website.



PemkoHinge™ Rating:

All models designated with these symbols are tested and certified by Underwriters Laboratories Inc.® (U.S.A. and Canada) to standards UL10B and UL10C for up to a 3-Hour Fire Listing for all 4'-0" x 10'-0" and 8'-0" x 10'-0" door and frame assemblies. Fire listing certifications apply to all approved hollow metal and wood door assemblies in drywall or masonry wall construction. Check UL Rating #R14745 on the UL website for a complete and current listing of applicable PemkoHinge™ products.



Builders Hardware Manufacturers Association:

Products indicated by this symbol have been voluntarily submitted to rigid third party testing and follow-up audits to confirm that they fully and continuously meet or exceed the requirements of their underlying ANSI / BHMA Standards. These products are listed in the BHMA Certified Products Directory, which is, published annually, and is available for purchase from BHMA. They are also posted and frequently updated on the BHMA website at www.buildershardware.com. PEMKO products are covered by the following: ANSI / BHMA A156.21-2014 Standard for Thresholds, ANSI / BHMA A156.22-2012 Standard for Door Gasketing Systems, and ANSI / BHMA A156.26-2012 Standard for Continuous Hinges.



UL1S47 - Check UL File #R18375 on the UL website for a complete and current listing of applicable PEMKO edge sealing and fire glazing products (not specifically listed by item in this product catalog).



UL4L10 - Check UL File #R14369 on the UL website for a complete and current listing of applicable PEMKO products (not specifically listed by item in this product catalog).



Check PEMKO's Category G, Category H and Category J listings on ITS website www.intertek.com for a complete and current listing of applicable PEMKO edge sealing, perimeter gasketing and fire glazing products.



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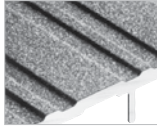












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Barrier-Free Systems



PEMKO offers many products, including modular ramps, thresholds and floor treads, that help you meet the requirements of the Americans with Disabilities Act (ADA) as outlined in the Americans with Disabilities Act Accessibility Guidelines (ADAAG-2010 amended); ICC /ANSI A117.1-2009 Standard Accessible and Usable Buildings and Facilities; any of the various Uniform Building Codes; or state access codes (e.g. California Building Code, Title 24).

The following table shows which PEMKO products comply with the ADAAG and ICC /ANSI standard and also notes their respective sections.

ICC / ANSI A117.1 (ADAAG)	PEMKO Recommendation
302 (4.5) Floor or Ground Surfaces. 302.1 (4.5.1) General. "shall be slip resistant"  <i>Skid resistant.</i>	<p>"Slip resistant" PemKote™, non-skid surface</p> <ul style="list-style-type: none"> PemKote™ (finish code: "K") is a rugged abrasive finish of nickel-aluminum composite PemKote™ provides safety in environments used by youths and people with disabilities For more information, see the Modular Ramps section  <i>PemKote™: skid resistant surface.</i>
302.2 (4.5.3) Carpet. "Exposed edges of carpet... shall have trim along the entire length of the exposed edge. Trim shall comply with Section 303"	  Note: See Commercial Thresholds section (page 134) for more options.
303 (4.5) Changes in Level 303.2 (4.5.2) Vertical. "Changes in level of 1/4" (6mm) high maximum shall be permitted to be vertical"	 Note: See Commercial Thresholds section (pages 132-133) for more options.
303.3 (4.5.2) Beveled. "Changes in level between 1/4" (6mm) high minimum and 1/2" (13mm) high maximum shall be beveled with a slope not steeper than 1:2"	 Note: See Commercial Thresholds section (pages 104-110) for more options.
303.4 (4.5.2) Ramped. "Changes in level greater than 1/2" (13mm) shall be ramped and comply with Section 405 (4.8)"	<ul style="list-style-type: none"> Assemblies accommodate 1/2" to 2 1/4" floor offsets in meeting the 1:12 slope requirements of the "Americans with Disabilities Act" Rubber ramp component assemblies meet the same requirements. Answer the needs of architects, specifiers, building owners, installers, and physically challenged people For use in schools, hospitals, stadiums, offices, restaurants, hotels, airports, and more For complete information, see the Modular Ramps section
404 (4.13) Doors and Doorways. 404.2.5 (4.13.8) Thresholds at Doorways. "...shall be 1/2" high maximum...shall comply with Sections 302 and 303"	  Note: See Commercial Thresholds section (pages 104-110 and 121) for more options.
404.2.9 (4.13.11) Door-Opening Force	  
405 (4.8) Ramps 405.2 (4.8.2) Slope. "Ramp runs shall have a running slope not steeper than 1:12" <i>(Note: Some exceptions apply to this with respect to existing buildings having space limitations. Consult PEMKO for specific applications.)</i>	 Note: See Modular Ramp section (pages 142-146) for more options.
504 (4.9) Stairways 504.4 Tread Surface 504.5 (4.9.3) Nosings	  Note: See Floor Treads section (pages 132-133) and Floor Molding, Trim section (page 284) for more options.

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ANSI/BHMA

The following interprets 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 on line at www.buildershardware.com.

American National Standard for Thresholds ANSI/BHMA A156.21 (2014)

1 Product Section "J" Designates Architectural Door Trim, Thresholds				
2 Material	3 Configuration	4 Surface	5 Description	6 Description
1. Architectural Extruded Brass or Bronze 3. Aluminum 5. Stainless Steel 7. Rubber & similar nonmetallic 0. Other (ie: cast iron, safety abrasive, etc.)	1. Compressing top 2. Flat Saddle 3. Half Saddle 4. Interlocking 5. Rabbeted, Latching/Panic with Gasket 7. Plate 8. Ramped 9. Saddle for Floor Closer 0. None designated	1. Fluted 2. Fluted with abrasive 3. Smooth 4. Smooth with abrasive	1. Applied Stop 2. Applied Stop with 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 with gasket 3. Carpet Separator 5. Ends Mitered 6. Expansion Assembly 7. Hook Strip applied to door 8. Offset 9. Thermal Barrier 0. None Designated

Suffix "-HD" designates thresholds meeting Heavy Duty requirements

American National Standard for Door Gasketing and Edge Seal Systems ANSI/BHMA A156.22 (2012)

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

American National Standard for Continuous Hinges ANSI/BHMA A156.26 (2012)

First letter denotes BHMA Product Section (A)					
First Numeral-Product Material	Second Numeral-Type of Product	Third Numeral-Electrical Modifications	Fourth Numeral-Door Weight (lbs)	Fifth Numeral-Grade Classification	Second Letter-Hinge Type
1. Brass, Bronze 3. Aluminum 5. Stainless Steel 8. Steel	1. Edge Mounted Hinges 2. Half Edge Mounted Hinges 3. Full Surface Hinges 4. Half Surface Hinges 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


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Markar Continuous Pin and Barrel Hinges

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NOTE: Products shown in this section may not be drawn to scale



Markar Continuous Pin and Barrel Hinges

Markar has been a leader in innovative products for the hardware industry since 1969. In 1983, Markar was the first manufacturer to produce an architectural grade, adjustable continuous pin and barrel hinge line, and that innovation continues today with quality continuous hinges and edge guards.

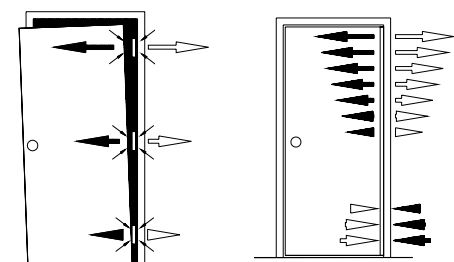
Markar leads the industry in development of fire rated continuous hinges with their flagship 300 Series Stainless Steel, 3500 Series institutional grade, and 200 Series cold rolled steel hinges. Building on customer feedback, Markar has developed over 75 standard continuous hinge models providing products for a wide variety of applications and challenges.

Custom Designs

Whether the need is for a custom color to match a specific pallet, hospital tips for patient rooms, hardware cutouts, wide throw models, custom hole patterns, security fasteners, current transfers, monitoring switches, or medical bearings, Markar hinge modifications will enhance the fit and function of an opening (See pages 22-24). Markar hinges are available in a wide range of finishes including powder coat, anodized (for aluminum), and architectural finishes.

Medical Bearings are Standard

Medical Bearings are standard for all Pin and Barrel hinges. You benefit from this standard offering with permanently lubricated hinges with no metal to metal contact, improving the life and overall function of the hinge.



Most door and frame stress is put on the top of conventional hinge systems.

A continuous hinge spreads the stress along the full length of the door and frame.

Why Continuous Hinges?

Did you know that on a door with traditional butt hinges, 70% of the door weight is on the top hinge? The top hinge also bears the brunt of abuse when doors are opened beyond the stop device, resulting in kickback shock and eventual failure of the hinge and damage to the frame. This is why continuous hinges are recommended for heavy doors and for situations where doors are exposed to misuse.

Continuous hinges reduce the factors leading to hinge failure by distributing weight evenly so wear and tear to the frame and door is reduced significantly. In addition, continuous hinges:

- Increase security and reduce vandalism by preventing insertion of devices between the door and frame
- Ease installation by providing simple alignment of electrical transfers and of monitoring switches
- Reduces air infiltration by creating a complete seal from top to bottom of the door at the hinge jamb

Markar manufactures pin and barrel hinges as well as spring loaded toilet partition pin and barrel models. There are over 75 different models to choose from offering a variety of configurations, options, and materials.

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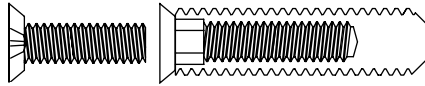
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Optional Features

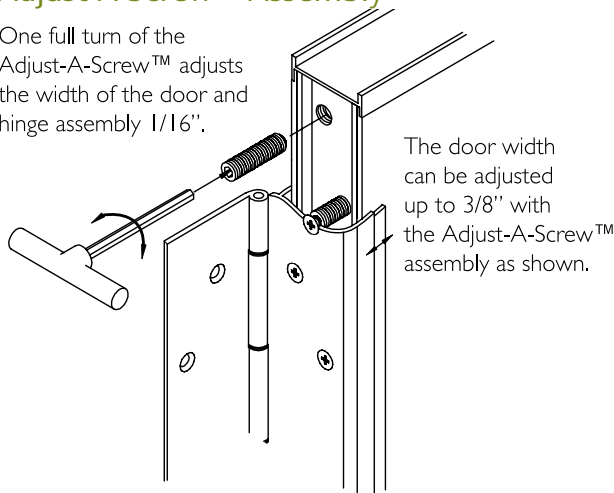
The Unique Adjust-A-Screw™ Fastener

An optional Markar fastener available on Hinge Guard models permits up to 3/8" width adjustment. Full door length adjustment means doors can be squared accurately and easily in new installations and existing frames can be used in retrofits. Maintenance staff can make future adjustments of the door by re-positioning the Adjust-A-Screw™ Fasteners.



Adjust-A-Screw™ Assembly

One full turn of the Adjust-A-Screw™ adjusts the width of the door and hinge assembly 1/16".

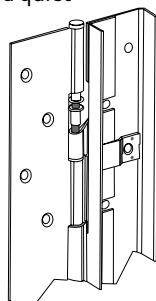


Recommended 14 gauge reinforcements on frame and door. If using an adjustable Hinge Guard with Adjust-A-Screw, use 14 gauge reinforcements on frame and 12 gauge reinforcements on door.

For more information, including technical memos, door clearance guides and templates visit markar.com

Exclusive Fiber-Reinforced Polymer Bearings

- Uniquely designed to provide clean and quiet hinge operation
- Self lubricating with high resistance to wear
- Exceeds ANSI/BHMA Grade 1 requirements
- 25 year warranty



Windstorm Rated Hinges

Windstorm/hurricane testing on Markar continuous hinges was completed with UL, and was subsequently reviewed, passed and approved by the Florida Building Code (FBC) Commission in January of 2008. There were three categories of testing conducted on the hinges: an Impact Test (TAS 201), Static Load/Cyclical Test (TAS 202), and a Water and Leakage Test (TAS 203). Markar excelled in all three categories of testing.

Based on this performance, the FBC approved most Markar hinges in the following series:

(Up to openings of 4'0" x 8'0" singles and 8'0" x 8'0" pairs)

- 100 – Aluminum
- 200 – Cold Rolled Carbon Steel
- 300 – Stainless Steel
- 3500 – Stainless Steel (Security Grade)



Tornado



Hurricane



Fire Rated Continuous Hinges

Markar Stainless Steel hinges (300 Series and 3500 Series) and carbon steel hinges (200 Series) are available with two labeling options: Underwriters Laboratories Inc. or Warnock Hersey Int'l.

- 20 minute labeled wood doors
- One and a half hour labeled hollow metal and composite-core wood fire doors
- Three hour labeled hollow metal doors

Maximum Door Opening:

Single Doors: 4'0" x 10'0"

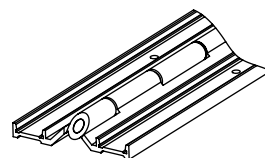
Pair of Doors: 8'0" x 10'0"



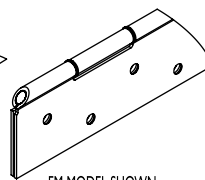
In accordance with UL10C for positive pressure.

Behavioral Health Hinges

The Markar 200 and 300 Series Continuous Hinges with Hospital Tips are accepted by the New York State Office of Mental Health (OMH) for use in high risk areas.



FS MODEL SHOWN



FM MODEL SHOWN



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Standard Powder Coat Finishes

Tough, Durable, Long-Lasting

Designed for general purpose interior and exterior use and applications where maximum chemical and solvent resistance is required.

Performance Properties

The data below is based on 24 gauge Bonderite 1000 panels with 1.5 mil to 2.0 mil of high gloss formulation.

Adhesion (ASTM D-3359B): There is no lifting of $\frac{1}{8}$ " squares of coating between scribed lines in crosshatch adhesion testing using pressure sensitive adhesive backed tape.

Pencil Hardness (ASTM D-3363): 2H – 4H

Flexibility (ASTM D-522 modified): The coating withstands a 180° bend over a $\frac{1}{4}$ " diameter mandrel without cracking or loss of adhesion.

Impact Resistance (ASTM D 2794 modified): The coating withstands 160 inch-pound impacts, both direct and reverse, without cracking or loss of adhesion using the standard Gardner impact tester.

Abrasion Resistance (ASTM D-4060 modified): The weight loss of coating after 1,000 cycles on a Taber abraser equipped with CS-10 wheels and operating under a 1 kilogram loading per wheel is on the order of 35 to 50 milligrams.

Salt Spray Resistance (ASTM B-117): Bonderite 1000 steel panels, in a scribed condition, exhibit no undercutting after 1,000 hours in 5% salt spray testing at 95°F and 95% relative humidity. There was no rusting or blistering on the panel face away from the scribe.

Humidity Resistance (ASTM D-2247): Bonderite 1000 steel panels in an unscribed condition exhibit no effect after 1000 hours exposure to 100% relative humidity at 100°F.

Chemical and Solvent Resistance: After 60 days immersion in the test fluid, the following data was obtained for epoxy powder coatings:

15% Hydraulic Acid	No Effect
Lacquer Thinner	No Effect
Dilute "HTH" Pool Chemical	No Effect
15% Sulfuric Acid	Pinhole Rust
15% Caustic Soda	#8 Blisters
Ammonia Hydroxide	#8 Blisters
Petrochloroethylene	No Effect
15% Acetic Acid	#4 Blisters
Gasoline	No Effect

Verification of resistance properties should be made for each chemical or solvent proposed for use with the coating.

Closest US Standard & BHMA Finishes

No minimum quantity.

PC-1 Dark Bronze	690
PC-2 Eggshell White	714
PC-3 Semi-Gloss Black	693
PC-4 Aluminum	689
PC-5 Sun Gold	706
PC-6 Light Copper	691
PC-7 Polished Brass	605

PC-7 available only on 100 & 300 series hinges

*NOTE: The PC-7 will have an additional charge for two-step polishing process.

Special Finishes

Polished Aluminum	US26	672
Polished Stainless	US32	629
Kynar Paint	With Color Approval	

*NOTE: Additional setup charges will apply.

Special Anodized Finishes

Gold Anodized	US3	310
Light Bronze Anodized	US9	311
Medium Bronze Anodized		312
Black Anodized	US19	315

Custom Powder Coat Finishes

All RAL Powder Coat finishes available. Sample color chip must accompany order. Priced at time of order.

U.S. Standard & B.H.M.A. Finish Codes

US3	310	gold anodized
US9	311	light bronze anodized
	312	medium bronze anodized
US20A	313	dark bronze anodized
US19	315	black anodized
USP	600	primed for paint
US2G	603	zinc plated
US28	628	clear anodized
US32	629	bright Stainless Steel
US32D	630	satin Stainless Steel
US26	672	bright polished aluminum
US28	689	aluminum paint
US20A	690	dark bronze paint
US10	691	light bronze paint
US19	693	black paint
US4	706	gold paint
	714	white paint



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Hinge Numbering System

Hinge Prefixes

EG	Edge Guard
FM	Edge Mount
FS	Full Surface
HG	Hinge/Guard
HM	Half Mortise
HS	Half Surface
SC	Swing Clear

Hinge Series

This series number indicates the type of hinge and base material used:

100	Aluminum barrel hinges with stainless pin
200	Carbon steel barrel hinges with stainless pin
300	Stainless steel barrel hinges with stainless pin
400	Spring loaded aluminum toilet partition hinges
900	Spring loaded stainless steel toilet partition hinges
1900	Reinforcing pivots
3500	12 Gauge stainless steel pin and barrel security hinges

Hinge Models

The last two digits of the model number indicate the application:

00	Edge mount (formerly full mortise)
01	Full surface, $\frac{1}{8}$ " offset
02	Full surface, flush
03	Half surface, $\frac{1}{8}$ " offset
04	Half mortise, $\frac{1}{8}$ " offset
05	Edge mount hinge/guard
06	Half mortise hinge/guard
07	Double hinge/guard
08	Edge guard
09	Full surface, swing clear
10	Swing clear hinge/guard
11	Edge mount, self aligning
15	Edge mount, self aligning flush edge guard
21	Full surface inset, $\frac{3}{4}$ " offset
22	Edge mount hinge/guard, deep
23	Edge mount hinge/guard, deep, thru bolt
25	Edge mount swing clear
26	Edge mount hinge/guard, swing clear
27	Edge mount, safety hinge
29	Edge mount, self aligning

Other numbers are used for specific applications

Optional Suffixes

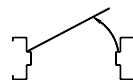
AMS	Adjustable Monitoring Switch
CTP	Current Transfer Preparation
DDP	Dutch Door Prep
EL	ElectroLynx® Wires (Specify 4, 8, or 12)
ETAP	Electrical Transfer Access Prep
EPT	Electric Power Transfer
HT	Hospital Tip
LL	Lead Lined
PC	Powder Coated
RB	Raised Barrel
WT	Wide Throw

Hinge Standard Lengths

Standard Hinge Length Conversion Chart

A 6'8"	door opening	=	actual length	79 $\frac{3}{16}$ "
A 7'0"	door opening	=	actual length	83 $\frac{1}{8}$ "
A 7'2"	door opening	=	actual length	85 $\frac{1}{8}$ "
A 8'0"	door opening	=	actual length	95"
A 10'0"	door opening	=	actual length	118 $\frac{3}{4}$ "

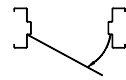
Custom hinge length will be evaluated at the time of request to ensure proper pin to knuckle alignment. Some custom length requests may be adjusted to ensure a proper hinge assembly. Specify handing on all custom hinge lengths.



LEFT HAND



RIGHT HAND



LEFT HAND
REVERSE



RIGHT HAND
REVERSE

Continuous Hinge Modifications

Special Length

Please specify handing on all custom hinge lengths

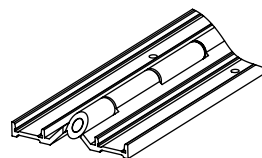
Some custom lengths may require two cuts due to location of screw holes

Hospital Tip

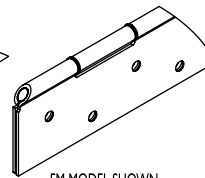
Available on all models except spring-loaded toilet partition hinges, FS321 and FM327

Suffix hinge "-HT"

Helps provide a safe, clean environment



FS MODEL SHOWN



FM MODEL SHOWN

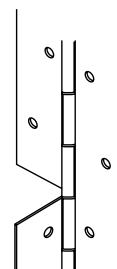
Dutch Door Prep

Available on all hinge models

Suffix hinge "-DDP"

Continuous frame leaf with two-piece door leaf

Indicate handing, clearances, door and frame heights, and materials when ordering



Wide Throw

Only available on 300 and 3500 series hinges

Markar Custom Hinge Information Form must be filled out

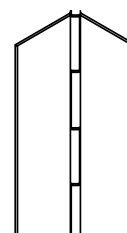
Reinforcement may be required on extreme wide throw applications

These conditions will be determined through a drawing approval process

Blank

Holes omitted for special applications, such as welded installation

Not available on adjustable models



Welded End Pins

End pins are tack-welded and are non-removeable

Not available on aluminum, powder coated hinges and 200 series hinges

Plug Weld

Plug welding hole prep

Automatic Door Bottom Cut

Standard "U" shape cut accepts most automatic door bottoms

Make and model are needed

For custom cuts, specify net door height and specific drop seal

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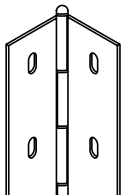
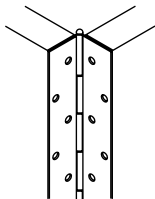
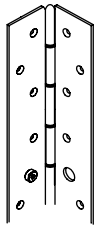
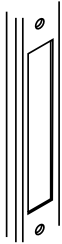
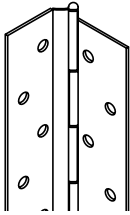
Continuous Hinge Modifications (Cont.)

Raised Barrel (Swaged)

Available on all edge mount, half surface, and half mortise models except on aluminum hinges

Suffix hinge "-RB"

For cased open or center pivot doors



Standard Edge Guard Cut-Outs

The Edge Guard Order form must be filled out to properly locate the hardware cut-outs

4⁷/₈" ASA strike

161 latch

161 strike

86 mortise

Manual flush bolt

Automatic flush bolt

Fire bolt

Security Studs

Stainless Steel security studs mounted to the frame leaf

Door leaf is drilled to accommodate studs

Three studs installed on hinges up to 7'2"

Four studs installed on hinges over 7'2"

Door and frame must be specially prepared to accommodate security studs

Sheared Leaf

Used for narrow door thicknesses, unevenly rabbeted frames, or other special applications

Markar Custom Hinge Information Form must be filled out

Custom Hole Pattern

Any hole shape or pattern other than Markar's standard templated hole pattern

Markar Custom Hinge Information Form must be filled out

Custom Design

Markar's Engineering Department will assist you in developing custom applications to solve any of your unique door hinging problems.

Markar Custom Hinge Information Form must be filled out

Lead Lined (Standard 4 Lbs./SQ.FT.)

Used for X-ray room doors and other locations where radiation leakage could be a problem

Available on surface mounted hinges and astragal

Continuous Hinge Modifications (Cont.)

EL ElectroLynx® Current Transfer

EL4 For 300, 3500, 200, and 100 series edge mount only. 2 wires at 22 gauge and 2 wires at 26 gauge - with ElectroLynx® connectors (4 wire)

EL8 For 300, 3500, 200, and 100 series edge mount only. 2 wires at 22 gauge and 6 wires at 26 gauge - with ElectroLynx® connectors (8 wire)

EL12 For 300, 3500, 200, and 100 series edge mount only. 2 wires at 22 gauge and 10 wires at 26 gauge - with ElectroLynx® connectors (12 wire)

*We recommend an Electrical Transfer Access Prep (ETAP) with all ElectroLynx® modifications

Replacement wire harness available (EL4-REPLKIT, EL8-REPLKIT & EL12-REPLKIT)

ETAP Electrical Transfer Access Prep

Cutout prep for the AMS and EL modifications. This allows for easy, one-person access to wiring between the hinge and door

Security Fasteners

Specify Torx or Torx-Pin security fasteners in lieu of standard fasteners

Contact factory for compatible models

CTP Current Transfer Prep

Centerline of hinge is standard location

Hinge leaf cutout to accommodate Markar's EPT Electric Power Transfer or other manufacturers' power transfer units

Please provide center line location (from top of hinge) and handing for all prep locations, see CTP Form on Page 79

EPT Electric Power Transfer Units

EL-EPT Stamped steel, for up to 105° opening

EL-EPTL Stamped steel, long for 180° opening

EL-EPT-SC Stamped steel, for swing clear hinges

EL-CEPTx32D Cast Stainless Steel, satin

EL-CEPTx10B Cast Stainless Steel, oil rubbed bronze

12-Wire with ElectroLynx® connectors standard on all power transfer units

CTP prep is additional charge

Note: Ordering EPT unit does not constitute CTP prep on hinge

AMS Adjustable Monitoring Switch

Rigid welded assembly gives you the ability to adjust your monitoring switch to work with all applications 300 and 3500 Series

Rating: 30v AC/DC .25 amps MAX

We recommend an Electrical Transfer Access Prep (ETAP) with this modification.

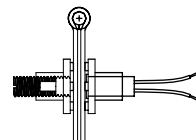
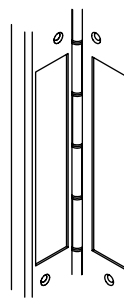
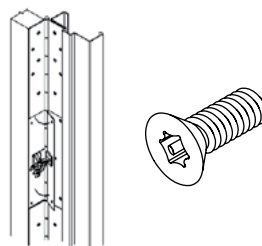
Hardwiring Made Easy™



ElectroLynx®

As part of their promise to provide innovative, fast and effective high security solutions to their customers, certain ASSA ABLOY Group brands offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx® is a registered trademark of ASSA ABLOY Inc.



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Markar 3500 Series Stainless Steel Pin & Barrel Continuous Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 900 lbs. 4'0" maximum door width
- Material to be 12 gauge (.105) Stainless Steel
- .187" diameter Stainless Steel pin (rod)
- Each knuckle 2", including nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: US32D Satin Stainless Steel (630)
Optional Finish: US32 Bright Stainless Steel (629), Scratch-Resistant Powder Coated Paint.
- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Must be able to carry UL label for fire rated doors and frames up to 3 hours
- Hinges shall meet ANSI/BHMA Standard A 156.26 Grade 1
- Symmetrically templated hole pattern

Note: 25-Year Warranty on Continuous Pin & Barrel Hinges

Note: Fire label for doors and frames should be placed on the header and top rail of fire rated doors and frames

Markar FM3500 Edge Mount Security Hinge

Standard Features

Barrel Type Hinge

.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins

Material

Heavy-duty 12 gauge (.105")
Stainless Steel

Finishes

US32D Satin Stainless Steel (630)

Hospital Tip

Standard

Standards

ANSI/BHMA Standard A156.26 Grade 1

Hole Pattern

Symmetrically templated

Mounting Hardware

Fasteners concealed when door is closed

Custom 12-24 x 7/16" S.S Phillips Flat
Head Undercut Machine Screw

Capacity

Supports weights up to 900lbs. 4'0"
maximum door width

Standard Sizes

6'8", 7'0", 7'2", 8'0", 10'0"

Handing

Handing not required on standard
hinges. Specify handing when
ordering a hinge with modification

Fire Rating

3 hours- hollow metal doors
90 minutes- hollow metal and
composite
20 minutes- wood doors



Classified in accordance
with UL10C for positive
pressure



Fire-rated label

Windstorm

Evaluated in accordance with TAS
201-94, TAS 202-94, TAS 203-94,
ASTM E330, ASTM E1886, ASTM
E1996 and ANSI A250.13.

Optional Features

Finish

US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

Hole Patterns

Plug weld hole pattern
Custom hole pattern

Fasteners

Tamper-proof security screws

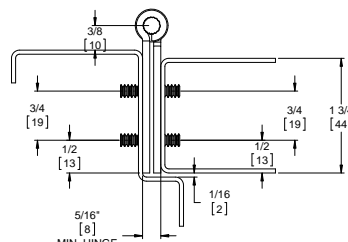
Other Features

Custom lengths - specify in inches
Dutch door hinges - suffix "DDP"
Raised barrel - suffix "RB"
Welded End Pins
Security studs

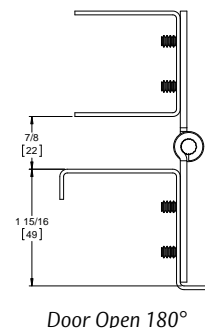
Electrical Modifications

Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge mount pin and barrel type hinge is fabricated with extra-heavy duty components for use on high traffic, high abuse doors. The hinge is specially designed and well suited for correctional facilities and other high security locations using up to 2 1/4" thick swing-type doors. Prison doors, gates, extremely tall doors and extra heavy doors are all good candidates for Markar's 3500 Security Hinge.



Door Closed



Door Open 180°





Markar FS3501 1/8" Inset Full Surface Security Hinge

Standard Features

Barrel Type Hinge
 .187" diameter Stainless Steel pin (rod)
 Medical bearings
 Stainless Steel end pins
Material
 Heavy-duty 12 gauge (.105")
 Stainless Steel
Finishes
 US32D Satin Stainless Steel (630)
 Hospital Tip
 Standard

Standards
 ANSI/BHMA Standard A156.26
 Grade 1
Mounting Hardware
 Custom 12-24 x 7/16" S.S Phillips
 Flat Head Undercut Machine
 Screw
Capacity
 Supports weights up to 900lbs.
 4'0" maximum door width
Standard Sizes
 6'8", 7'0", 7'2", 8'0", 10'0"

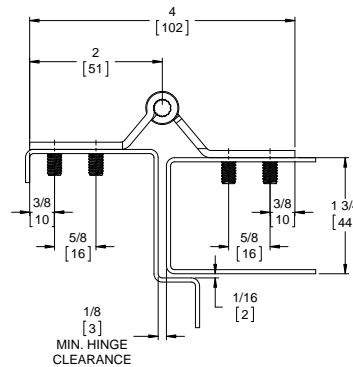
Hole Pattern
 Symmetrically templated
Handing
 Specify handing
Fire Rating
 3 hours- hollow metal doors
 90 minutes- hollow metal and composite
 20 minutes- wood doors
 Classified in accordance with UL10C
 for positive pressure
 Fire-rated label

Optional Features

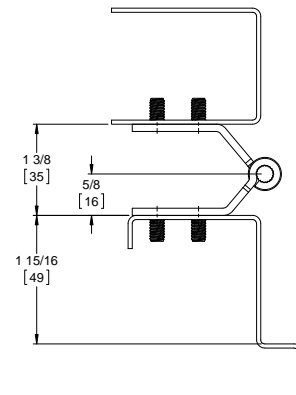
Finish
 US32 Bright Stainless Steel (629)
 Scratch-Resistant Powder Coated Paint
Hole Patterns
 Plug weld hole pattern
 Custom hole pattern

Fasteners
 Tamper-proof security screws
Other Features
 Custom lengths – specify in inches
 Dutch door hinges – suffix "DDP"
 Welded End Pins

For 1/8" inset doors. This hinge allows for perfect alignment for the retrofitting of doors in correctional facilities and other high security locations using 2" thick swing-type doors. Prison doors, gates, extremely tall doors and extra heavy doors are all good candidates for Markar's 3501 Security Hinge.



Door Closed



Door Open 180°

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Markar FS3502 Flush Full Surface Security Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Stainless Steel end pins
Medical bearings
Material
Heavy-duty 12 gauge (.105")
Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Hospital Tip
Standard
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Custom 12-24 x $7/16$ " S.S Phillips Flat
Head Undercut Machine Screw
Capacity
Supports weights up to 900lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Handing not required on standard
hinges Specify handing when
ordering a hinge with modification

Fire Rating
3 hours- hollow metal doors 90
minutes- hollow metal and composite
20 minutes- wood doors

 Classified in accordance with
UL10C for positive pressure
 Fire-rated label

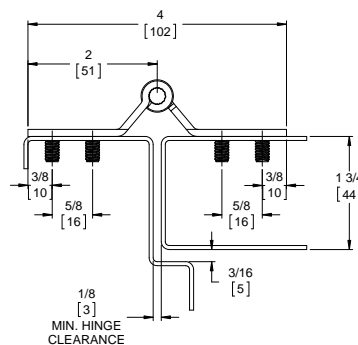
Optional Features

Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Hole Patterns
Plug weld hole pattern
Custom hole pattern

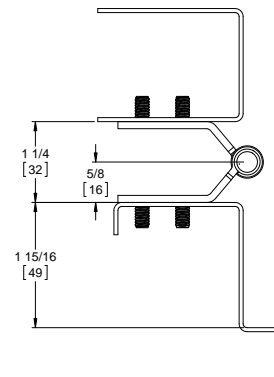
Fasteners
Tamper-proof security screws
Other Features
Custom lengths - specify in inches
Dutch door hinges - suffix "DDP"
Welded End Pins

This surface-mounted pin and barrel type hinge is fabricated with extra-heavy duty components and designed for solving door sag problems on high traffic, high abuse doors. This hinge is well suited for correctional facilities and other high security locations using 2" thick swing-type doors.

Prison doors, gates extremely tall doors and extra heavy doors are all good candidates for Markar's 3502 Security Hinge.



Door Closed



Door Open 180°




Markar HG3505 Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 12-gauge (.105") Stainless
Steel hinge leaves
14 gauge Stainless Steel angle on door leaf
Finishes
US32D Satin Stainless Steel (630)
Hospital Tip
Standard

Standards
ANSI/BHMA Standard A156.26
Grade 1
Mounting Hardware
Custom 12-24 x $\frac{7}{16}$ " S.S Phillips
Flat Head Undercut Machine
Screw
Capacity
Supports weights up to 900lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"

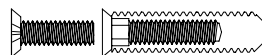
Hole Pattern
Symmetrically templated
Handing
Specify handing
 Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and
composite 20 minutes- wood doors
Classified in accordance with UL10C for
positive pressure
Fire-rated label

Optional Features

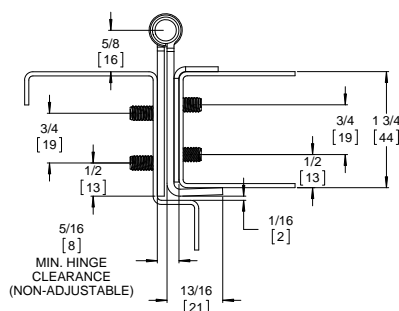
Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Mounting Hardware
Tamper-proof security screws
Adjust-A-Screw™ for correcting alignment
problems up to $\frac{3}{8}$ "

Other Features
Custom lengths – specify in
inches
Custom hole pattern
Dutch door hinges – suffix "DDP"
Raised barrel - suffix "RB"
Welded end pins
Security studs

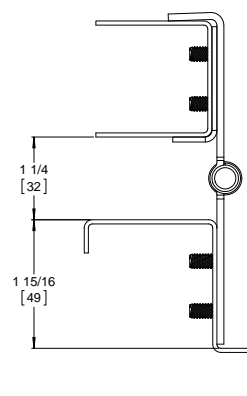
Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electronic Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)



The integral hinge guard protects the door from dings and gouges from carts and gurneys while providing clean lines and aesthetic appearance. Our HG products also have fire ratings up to and including 3 hours.



Door Closed



Door Open 180°

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Markar 300 Series Stainless Steel Pin & Barrel Continuous Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 600 lbs. 4' 0" maximum door width
- Material to be 14 gauge Stainless Steel
- .187" diameter Stainless Steel pin (rod)
- Exterior barrel diameter .438" ($\frac{7}{16}$ ")
- Each knuckle 2", including nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: US32D Satin Stainless Steel (630)
Optional Finish: US32 Bright Stainless Steel (629), Scratch-Resistant Powder Coated Paint.
- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Must be able to carry Warnock Hersey Int. or UL for fire rated doors and frames up to 3 hours
- Hinges shall meet ANSI/BHMA Standard A 156.26 Grade 1
- Symmetrically templated hole pattern

NOTE: 25-Year Warranty on Continuous Pin & Barrel Hinges



NOTE: Fire label for doors and frames should be placed on the header and top rail of fire rated doors and frames

Markar FM300 Edge Mount Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Hole Pattern
Symmetrically templated

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $\frac{11}{16}$ " S.S Phillips
Flat Head Undercut TEK Screws
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification.

Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label
Windstorm
Evaluated in accordance with TAS 201-94, TAS 202-94, TAS 203-94, ASTM E330, ASTM E1886, ASTM E1996 and ANSI A250.13

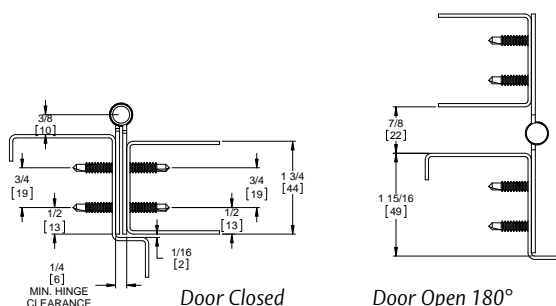
Optional Features

Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws
Other Features
Custom lengths- specify in inches
Custom hole pattern

Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins
Security studs.
Electrical Modifications
Adjustable Monitoring Switch - "AMS"

Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge-mounted pin & barrel hinge is used on many of today's high traffic, high abuse doors. The hinge works well in locations that would normally call out for anchor hinges, pivot reinforcement hinges or thrust pivot unit and hinge sets. This hinge saves on special door and frame preparation charges and makes the installer's job easier. It can be used on both fire labeled and non-labeled openings.





Markar FM300WT Wide Throw Edge Mount Hinges

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Heavy-duty 12 gauge support angles, where applicable
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Custom 12-24 x $1\frac{1}{16}$ " S.S Phillips
Flat Head Undercut TEK Screws
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated

Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification
Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors

 Classified in accordance with UL10C for positive pressure
 Fire-rated label

Optional Features

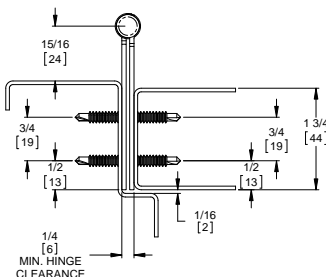
Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Welded end pins
Security studs

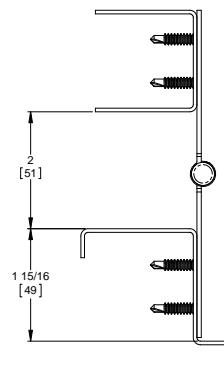
Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge-mounted pin & barrel hinge is used on many of today's high traffic, high abuse doors. The hinge works well in locations that would normally call out for anchor hinges, pivot reinforcement hinges or thrust pivot unit and hinge sets. This hinge saves on special door and frame preparation charges and makes the installer's job easier. It can be used on both fire labeled and non-labeled openings.

FM300WT10



Door Closed



Door Open 180°

More profiles on next page

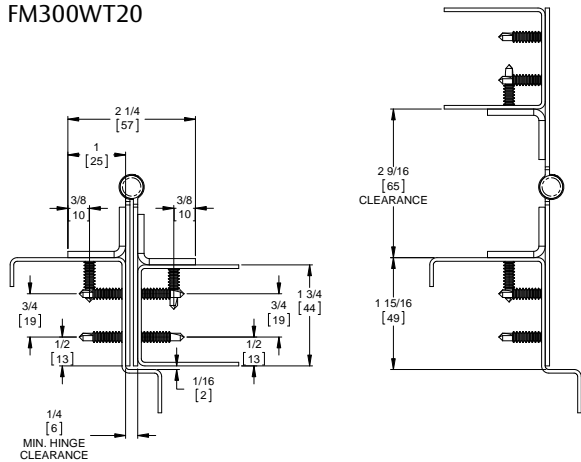
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Markar FM300WT Wide Throw Edge Mount Hinges (cont)

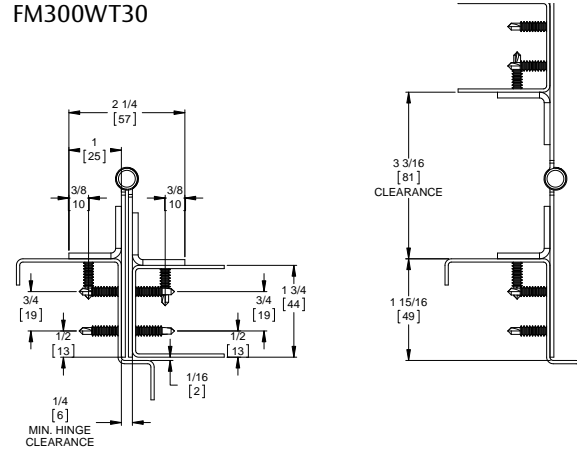
FM300WT20



Door Closed

Door Open 180°

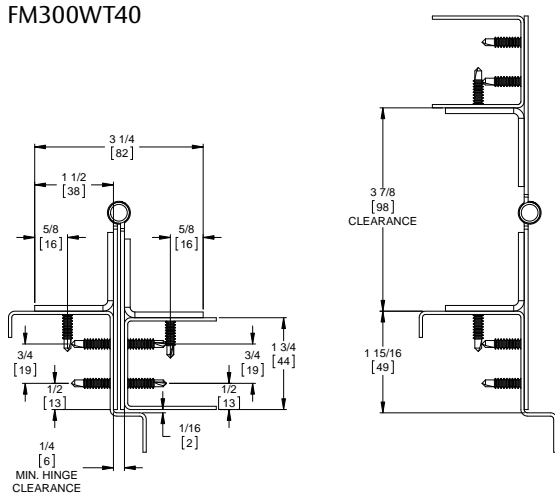
FM300WT30



Door Closed

Door Open 180°

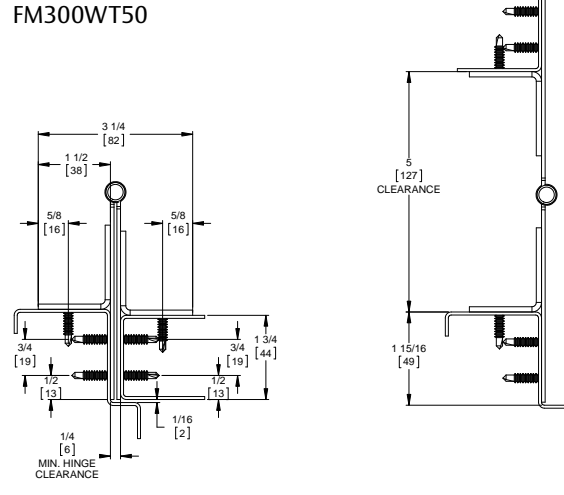
FM300WT40



Door Closed

Door Open 180°

FM300WT50



Door Closed

Door Open 180°

Markar FS301 1/8" Inset Full Surface Hinge

Standard Features

Barrel Type Hinge
 .187" diameter Stainless Steel pin (rod)
 Medical bearings
 Stainless Steel end pins
Material
 Heavy-duty 14 gauge Stainless Steel
 Cover - extruded aluminum
Finishes
 US32D Satin Stainless Steel (630)
 Cover - brushed aluminum
Standards
 ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
 Fasteners concealed underneath aluminum cover
 1/4"-14 x 3/4" Security TORX
 TEK Screws
Capacity
 Supports weights up to 600 lbs.
 4'0" maximum door width
Standard Sizes
 6'8", 7'0", 7'2", 8'0", 10'0"
Handing
 Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'2" and for most optional features listed

Fire Rating
 3 hours- hollow metal doors
 90 minutes- hollow metal and composite core wood fire doors
 20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



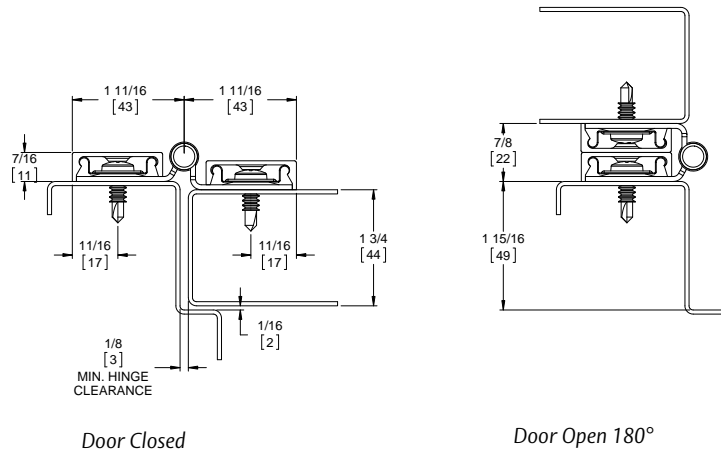
Fire-rated label

Optional Features

Finishes
 US32 Bright Stainless Steel (629)
 Scratch-Resistant Powder Coated Paint
Fasteners
 1 5/8" S.S. sleeve bolts
 Tamper-proof security screws

Other Features
 Custom lengths- specify in inches
 Custom hole pattern
 Dutch door hinges - suffix "DDP"
 Hospital tips - suffix "HT"
 Lead lined covers with 4 lbs. lead lining - suffix "LL"
 Welded end pins

This surface-mounted pin & barrel continuous hinge can be used to repair or replace existing hinges on both fire labeled and non-labeled doors that have very tight clearances. The hinge has a built-in 1/8" offset to assist in weather seal and sound barrier areas.



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Markar FS302 Full Surface Flush Mount

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Cover - brushed aluminum
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Fasteners concealed underneath aluminum cover
 $\frac{1}{4}$ - 14 x $\frac{3}{4}$ " Security TORX
TEK Screws Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification

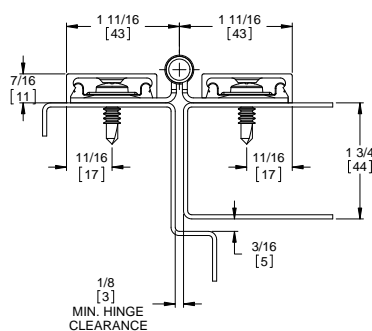
Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label

Optional Features

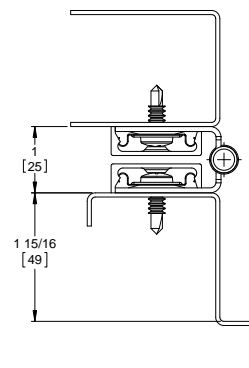
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
 $1\frac{5}{8}$ " S.S. sleeve bolts
Tamper-proof security screws

Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Lead lined covers with 4 lbs. lead lining - suffix "LL"
Welded end pins

This surface-mounted pin & barrel continuous hinge can be used to replace and repair existing hinges on both fire labeled and non-labeled doors. Designed for retrofit market.



Door Closed



Door Open 180°

Markar HS303 Half Surface Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Cover - brushed aluminum
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x 11/16" S.S Phillips Flat Head Undercut TEK Screws & 1/4-14 x 3/4" Security TORX TEK Screws
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated

Handing
Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'0" and for most optional features listed

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

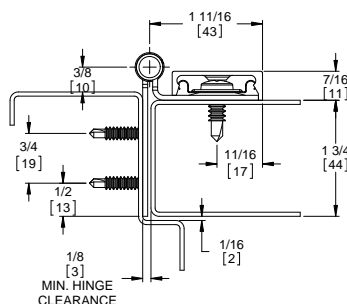
Optional Features

Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
1 5/8" S.S. sleeve bolts
Tamper-proof security screws

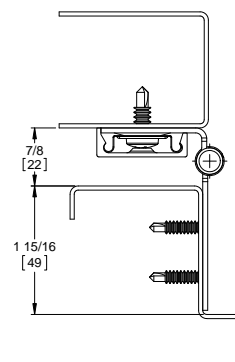
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins
Lead lined cover with 4 lbs. lead lining - suffix "LL"

Electrical Modifications
Current Transfer Prep (frame leaf only) - suffix "CTP"

This half-surface pin & barrel continuous hinge can be used to repair or replace existing hinges on both fire labeled openings. The hinge fits into the gap left after standard butt hinges are removed. It can assist in reversing the handing of a door, or to reverse the swing of a door hung in an evenly-rabbetted frame. (Please consult factory for instructions for unevenly-rabbetted frames.)



Door Closed



Door Open 180°

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Markar HM304 Half Mortise Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Cover - brushed aluminum
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $1\frac{1}{16}$ " S.S Phillips Flat Head Undercut TEK Screws & $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated

Handing
Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'2" and for most optional features listed
Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
 20 minutes- wood doors
Classified in accordance with UL10C for positive pressure
Fire-rated label

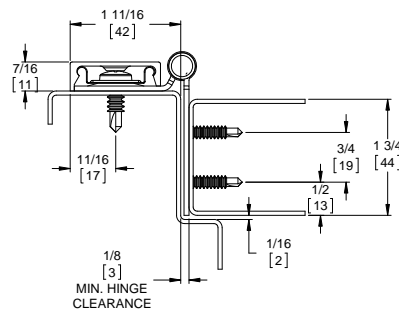
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

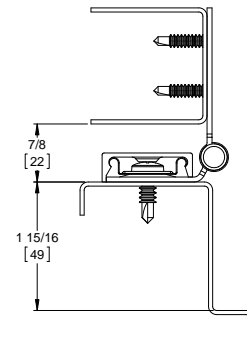
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins

Electrical Modifications
Current Transfer Prep (door leaf only) - suffix "CTP"

This pin & barrel type hinge is used on wooden doors to hide splits, chips and dents from traffic abuse. The surface mounted frame leaf allows for easy retrofit installation.



Door Closed



Door Open 180°

Markar HG305 Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'2" and for most optional features listed

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure

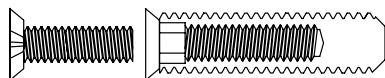


Fire-rated label

Windstorm
Products is constructed in accordance with Guidelines FEMA 320 & FEMA 361.

Optional Features

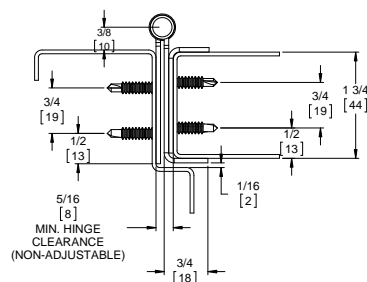
Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Adjust-A-Screw™ for correcting frame fit problems up to $3/8$ "



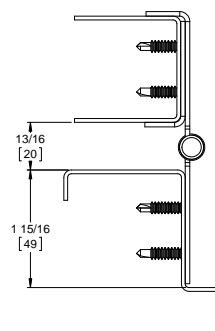
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips – suffix "HT"
Raised barrel – suffix "RB"
Welded end pins
Security studs

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

The integral hinge guard protects the door from dings and gouges from carts and gurneys while providing clean lines and aesthetic appearance. Our HG products also have fire ratings up to and including 3 hours. Not only that, but the wrap-around edge guard protects the door from unsightly dents and gouges and will deflect objects, preventing further damage.



Door Closed



Door Open 180°

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Markar HG306 Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Cover - brushed aluminum
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed

Custom 12-24 x $\frac{11}{16}$ " S.S Phillips Flat
Head Undercut TEK Screws & $\frac{1}{4}$ -14 x $\frac{3}{4}$ "
Security TORX TEK Screws
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'2" and for most optional features listed

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

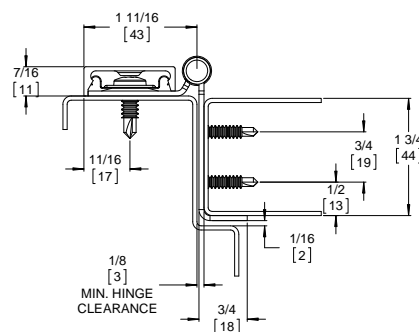
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

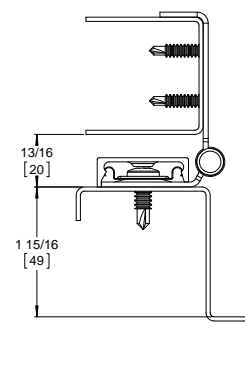
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded End Pins

Electrical Modifications
Current Transfer Prep (door leaf only) - suffix "CTP"

This hinge is used with hollow metal frames and wood or hollow metal doors. The guard that wraps the door covers up dents, scratches, and splits in the door the door. This product covers the door's edge and wraps the door face to prevent further damage. This hinge can also be used to reverse the swing of a door.



Door Closed



Door Open 180°





Markar FS/SC309 Full Surface Swing Clear Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Cover - brushed aluminum
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $1\frac{1}{16}$ " S.S. Phillips Flat Head Undercut TEK Screws & $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features

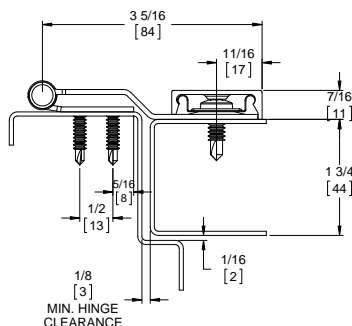
Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label

Optional Features

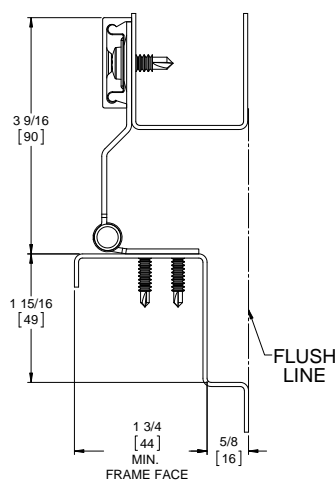
Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Other Features
Custom lengths- specify in inches
Custom hole pattern
 $1\frac{5}{8}$ " S.S. aluminum sleeve bolts
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Lead lined cover with 4 lbs. lead lining - suffix "LL"
Welded End Pins

This hinge is used to ensure that a door opened to a 90-degree angle is removed from the opening. This hinge will mount on a $1\frac{3}{4}$ " face, and is especially useful for ADA upgrade work.



Door Closed



Door Open 90°

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Markar HG310 Swing Clear Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features
Door Edge
Square hinge edge
Recommend Adjust-A-Screw for beveled hinge edge

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



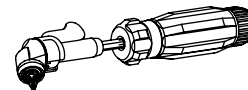
Fire-rated label

Optional Features

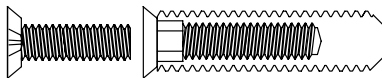
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws
Adjust-A-Screws™ for correcting frame fit problems up to $3/8$ "

Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Welded End Pins

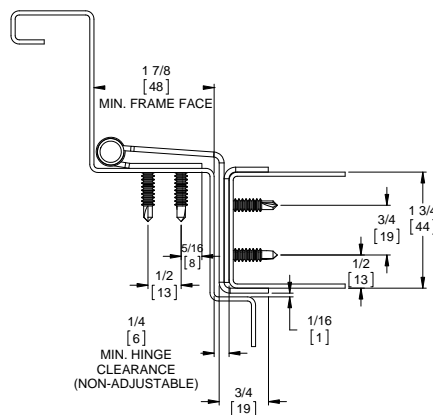
Tools
MTSP-100 Right angle skewdriver for ease of installation



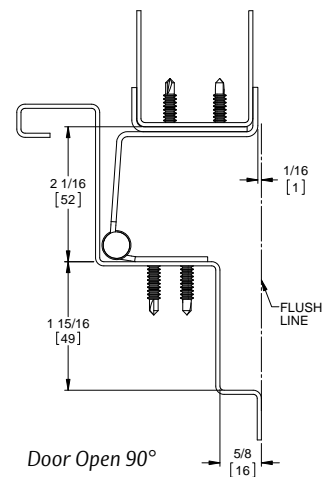
Electrical Modifications
Current Transfer Prep (door leaf only) - suffix "CTP"
(EL-EPT-SC Power Transfer Recommended)



The ADA-compliant hinge is used on operating room doors to swing the door out of the opening when moving equipment in and out. The hinge guard also protects the door in the open position.



Door Closed



Door Open 90°



Markar HG311 Swing Clear Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features
Door Edge
Square hinge edge
For beveled hinge edge use HG310

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



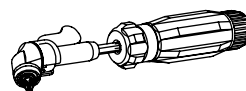
Fire-rated label

Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

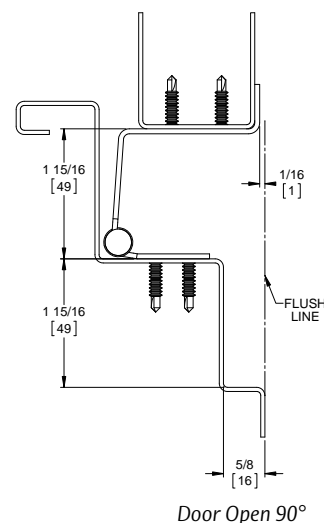
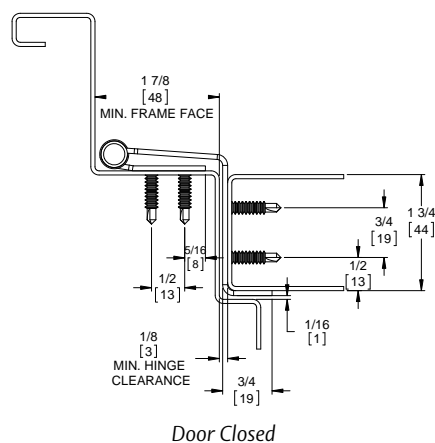
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Welded End Pins

Tools
MTSP-100 Right angle skewdriver for ease of installation



Electrical Modifications
Current Transfer Prep (door leaf only) - suffix "CTP"
(EL-EPT-SC Power Transfer Recommended)

This surface applied swing clear version allows doors to meet ADA requirements. The single wrap protects door edges from cart damage.



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Markar HG315 Edge Mount Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $1\frac{1}{16}$ " S.S Phillips Flat Head
Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

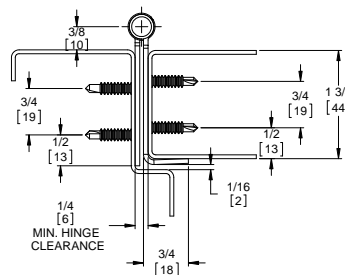
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

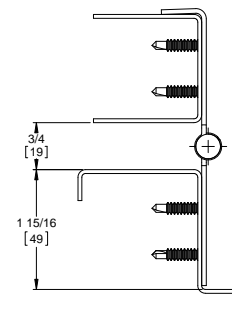
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins
Security studs

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

Featuring our unique edge guard, this economical hinge prevents objects from being placed between the door and frame as well as protects the door's edge while supporting the door's weight along the entire length of the jamb.



Door Closed



Door Open 180°



ASSA ABLOY

Markar FS321 Full Surface $\frac{3}{4}$ " Offset Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Cover - extruded aluminum
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed underneath
aluminum cover
 $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
brushed aluminum
Handing
Not required for standard 7'0", 8'0"
or 10'0". Specify handing for 6'8" and
7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and
composite core wood fire doors
20 minutes- wood doors



Classified in accordance
with UL10C for positive
pressure



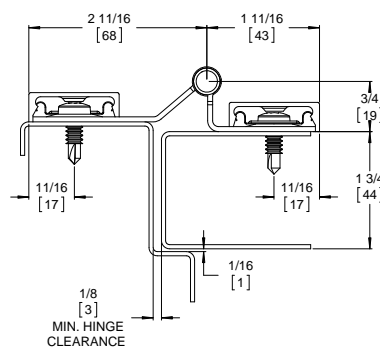
Fire-rated label

Optional Features

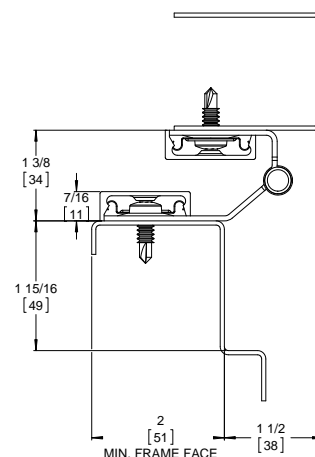
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Lead lined covers with 4 lbs. lead lining
- suffix "LL"
Welded end pins

This surface mount pin & barrel model was developed to work in conjunction with existing $\frac{3}{4}$ " offset floor closers. Where top or intermediate pivots have worn and the floor closer will remain, the FS321 is the solution to extending the life of the opening.



Door Closed



Door Open 180°

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Markar HG322 Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat
Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0"
or 10'0". Specify handing for 6'8" and
7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and
composite core wood fire doors
20 minutes- wood doors



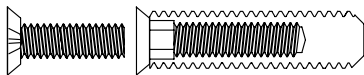
Classified in accordance
with UL10C for positive
pressure



Fire-rated label

Optional Features

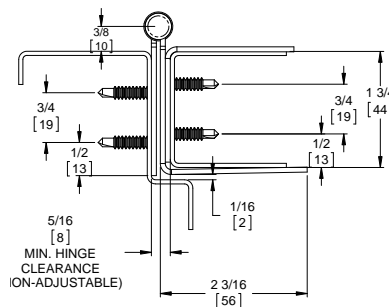
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated
Paint
Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting frame
fit problems up to $3/8$ "



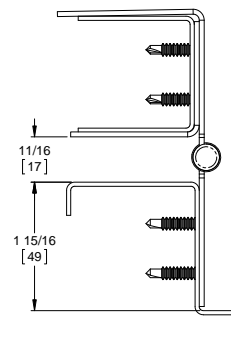
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Special sheared leaf
Welded end pins
Security studs

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

Occasionally the need arises for an extended door wrap. Markar meets this need with the HG322. All the features of the HG305 Hinge/Guard plus 2" extensions.



Door Closed



Door Open 180°

Markar HG323 Edge Mount Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat Head Undercut TEK Screws & $1/4$ -20 x $1\frac{5}{8}$ " Thru Bolt Stainless Steel

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

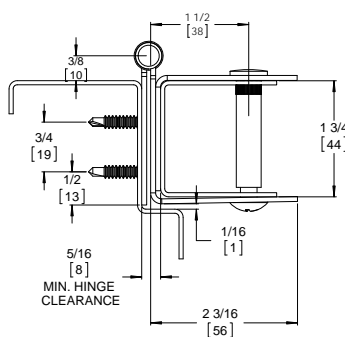
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

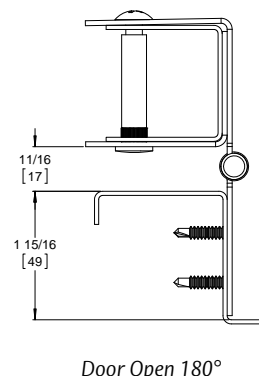
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Special sheared leaf

Electrical Modifications
Adjustable Monitoring Switch – suffix "AMS"
Current Transfer Prep – suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This extended wrap model allows you to sandwich the door between two leafs of Stainless Steel and through bolt them together. It is ideal where doors have split and you want to save them.



Door Closed



Door Open 180°

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Markar FM/SC325 Edge Mount Swing Clear Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x 11/16" S.S Phillips
Flat Head Undercut TEK Screws

Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features
Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Door Edge
Square hinge edge

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

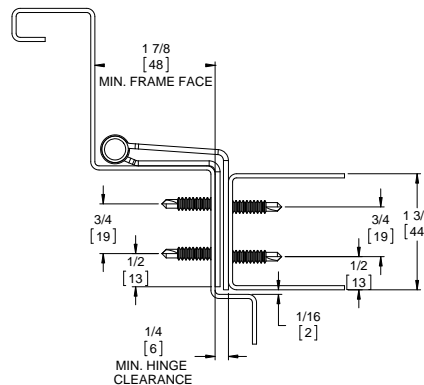
Optional Features

Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

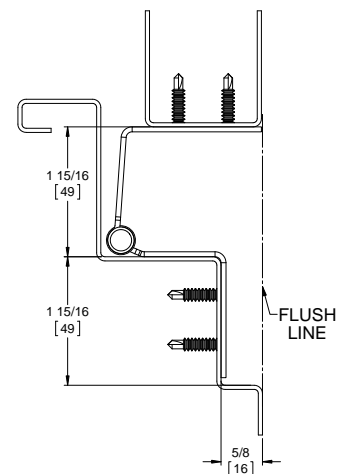
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Welded end pins

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
(EL-EPT-SC Power Transfer Recommended)

This hinge is used to ensure that a door opened to a 90-degree angle is removed from the opening. This hinge will mount on a 1 7/8" face, and is especially useful for ADA upgrade work.



Door Closed



Door Open 90°



Markar HG326 Swing Clear Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Custom 12-24 x 11/16" S.S Phillips Flat
Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Door Edge
Square hinge edge
Recommend Adjust-A-Screw for
beveled hinge edge
Handing
Not required for standard 7'0", 8'0"
or 10'0". Specify handing for 6'8" and
7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and
composite core wood fire doors
20 minutes- wood doors



Classified in accordance
with UL10C for positive
pressure

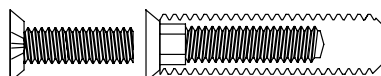


Fire-rated label

Optional Features

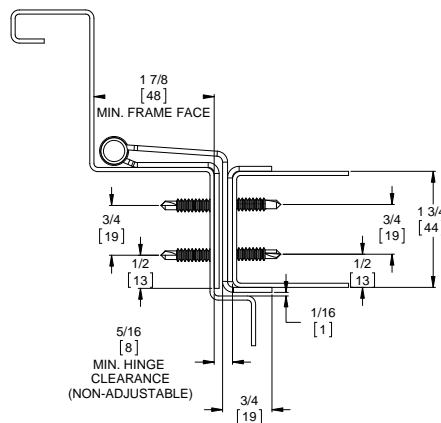
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Welded end pins

Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting
frame fit problems up to 3/8"

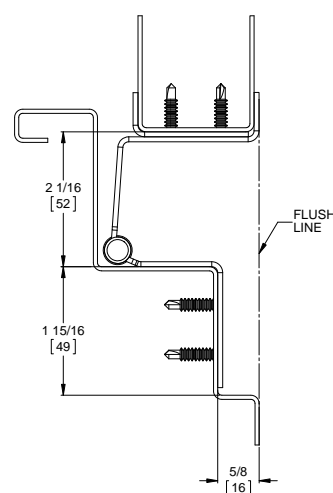


Electrical Modifications
Current Transfer Prep - suffix "CTP"
(EL-EPT-SC Power Transfer Recommended)

The incorporated edge guard protects
the door from unsightly dents and
gouges while also protecting the hinge
from vandalism.



Door Closed



Door Open 90°

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Markar FM327 Edge Mount Safety Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Custom 12-24 x 1 1/16" S.S Phillips Flat
Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0"
or 10'0". Specify handing for 6'8" and
7'2" and for most optional features
Door Edge
Square hinge edge

Fire Rating
This hinge is not fire rated

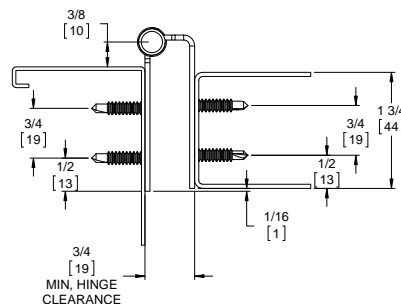
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

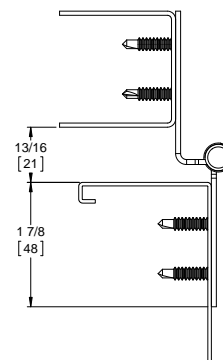
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Welded end pins

Fasteners
Tamper-proof security screws

This unique design prevents small fingers from getting pinched in the door. It is ideal for elementary schools, day care, childcare, and nursing home facilities. This full-length continuous pin & barrel hinge also provides privacy by blocking sight lines into rooms. The hinge must be used with a cased open type frame.



Door Closed



Door Open 180°





Markar HG329 Swing Clear Hinge Guard for Square Edge Door

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $11/16$ " S.S Phillips Flat Head Undercut TEK Screws

Capacity
Supports weights up to 600 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Door Edge
Square hinge edge
For beveled hinge edge use HG326
Hole Pattern
Symmetrically templated
Specify handing

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label

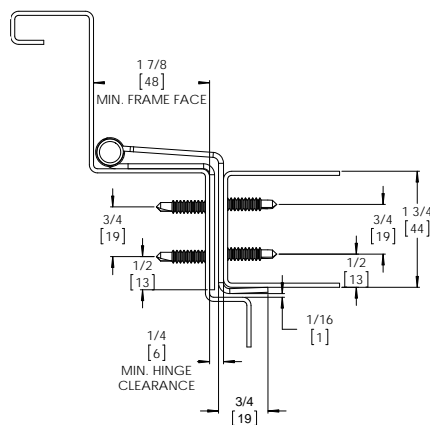
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

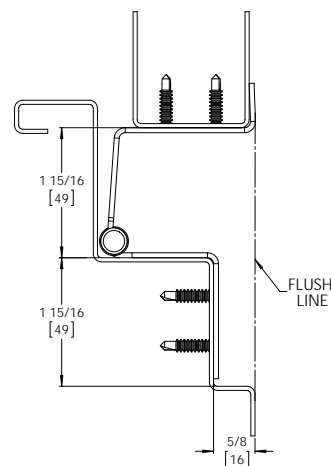
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips- suffix "HT"
Welded end pins
Fasteners
Tamper-proof security screws

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
(EL-EPT-SC Power Transfer Recommended)

The incorporated edge guard protects the door from unsightly dents and gouges while also protecting the hinge from vandalism.



Door Closed



Door Open 90°

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Markar FM338 Edge Mount Hinge (1³/₈" Thick Door)

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Hole Pattern
Symmetrically templated

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x 1¹/₁₆" S.S Phillips
Flat Head Undercut TEK Screws
Capacity
Supports weights up to 300 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label

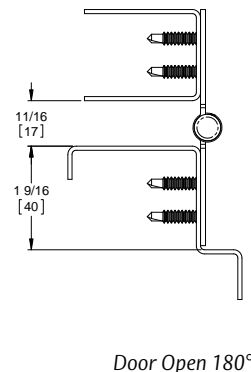
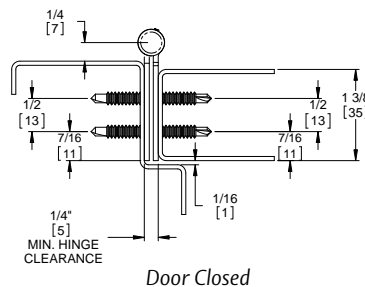
Optional Features

Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins
Security studs

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge-mounted pin & barrel hinge is used on many of today's high traffic, high abuse doors. This hinge is designed to work with 1³/₈" thick doors



Markar FM344 Edge Mount Hinge

Standard Features

Barrel Type Hinge
.187" diameter Stainless Steel pin (rod)
Medical bearings
Stainless Steel end pins
Material
Heavy-duty 14 gauge Stainless Steel
Finishes
US32D Satin Stainless Steel (630)
Standards
ANSI/BHMA Standard A156.26 Grade 1
Hole Pattern
Symmetrically templated

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $\frac{11}{16}$ " S.S Phillips
Flat Head Undercut TEK Screws
Capacity
Supports weights up to 300 lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite core wood fire doors
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

Windstorm
Evaluated in accordance with TAS 201-94, TAS 202-94, TAS 203-94, ASTM E330, ASTM E1886, ASTM E1996 and ANSI A250.13

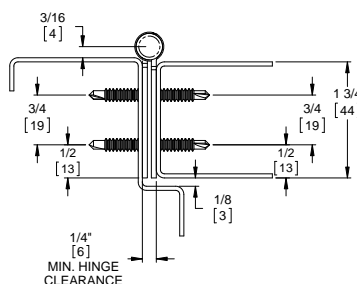
Optional Features

Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

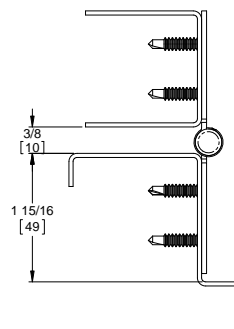
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins
Security studs

Electrical Modifications
Adjustable Monitoring Switch - suffix "AMS"
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge-mounted pin & barrel hinge is used on many of today's high traffic, high abuse doors. This hinge is great for $1\frac{3}{4}$ " thick door where the hinge barrel is close to the frame and door face



Door Closed



Door Open 180°

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Markar EG308 Adjustable Edge Guard

Standard Features

Material
Heavy-duty 16 gauge stainless steel

Finishes
US32D Satin Stainless Steel (630)

Mounting Hardware
Fasteners concealed when door is closed

Included fasteners are:
Custom 12-24 x 1¹/₁₆" S.S. Phillips Flat Head Undercut TEK Screws
Custom 12-24 x 1¹/₂" S.S. Phillips Flat Head Particle Board Screws

Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"

Door Edge
Specify square or beveled edge when ordering (beveled edge standard)

Fire Rating



Classified in accordance with UL10(b)



Fire-rated label

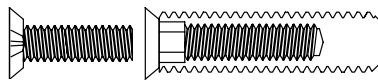
MAY NOT APPLY TO ALL WOOD DOORS. PLEASE CONSULT FACTORY FOR SPECIFIC WOOD DOOR APPLICATIONS.

Optional Features

Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

Hardware Cutouts
(Edge Guard order form must be filled out)
Flush bolts
ASA strike
Deadlock strike and latch
86 edge
Hospital latch
161 cutout

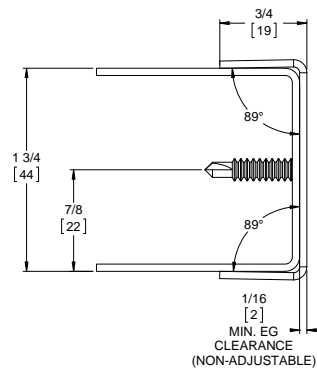
Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting frame fit problems up to 3/8"



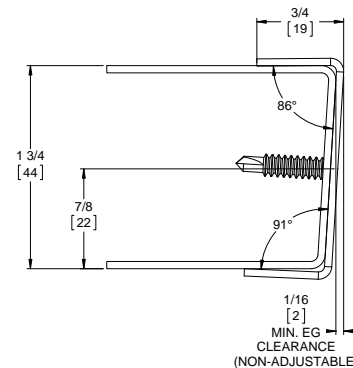
Other Features

Custom lengths - specify in inches
Staggered hole pattern for lead lined doors
Custom cutouts
Dutch door application - suffix "DDP"

This fire-labeled edge guard is used in conjunction with the HG305 Hinge/Guard for a balanced aesthetic look. It also provides protection for the leading edge of the door.



Square edge door



Bevel edge door

Markar EGC308 Single Return Edge Guard

Standard Features

Material
Heavy-duty 16 gauge stainless steel

Finishes
US32D Satin Stainless Steel (630)

Mounting Hardware
Fasteners concealed when door is closed
Included fasteners are:
Custom 12-24 x 11/16" S.S Phillips Flat Head Undercut TEK Screws
Custom 12-24 x 11/2" S.S. Phillips Flat Head Particle Board Screws

Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"

Door Edge
Specify square or beveled edge when ordering (beveled edge standard)

Fire Rating



Classified in accordance with UL10(b)



Fire-rated label

MAY NOT APPLY TO ALL WOOD DOORS. PLEASE CONSULT FACTORY FOR SPECIFIC WOOD DOOR APPLICATIONS.

Optional Features

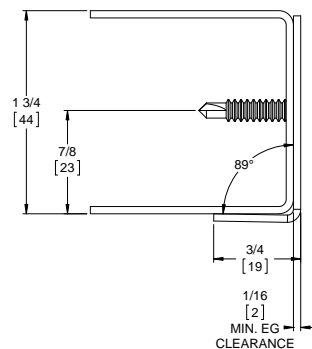
Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

Hardware Cutouts
(Edge Guard order form must be filled out)
Flush bolts
ASA strike
Deadlock strike and latch
86 edge
Hospital latch
161 cutout

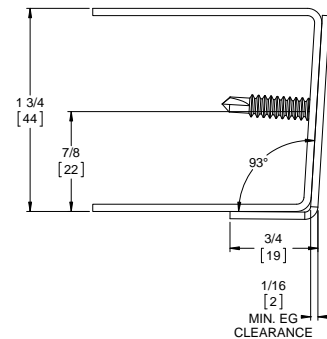
Fasteners
Tamper-proof security screws

Other Features
Custom lengths - specify in inches
Staggered hole pattern for lead lined doors
Custom cutouts
Dutch door application - suffix "DDP"

This fire-labeled edge guard works with the HG315 Hinge/Guard. It provides protection to the leading edge of the door, while maintaining the door's aesthetic appearance in the closed position.



Square edge door



Bevel edge door

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Markar EGT308 Adjustable Edge Guard with Astragal

Standard Features

Material
Heavy-duty 16 gauge stainless steel

Finishes
US32D Satin Stainless Steel (630)

Mounting Hardware
Fasteners concealed when door is closed
Included fasteners are:
Custom 12-24 x 1¹/₁₆" S.S Phillips Flat Head Undercut TEK Screws
Custom 12-24 x 1¹/₂" S.S. Phillips Flat Head Particle Board Screws

Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"

Door Edge
Specify square or beveled edge when ordering (beveled edge standard)

Fire Rating



Classified in accordance with UL10(b)



Fire-rated label

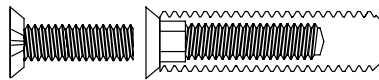
MAY NOT APPLY TO ALL WOOD DOORS. PLEASE CONSULT FACTORY FOR SPECIFIC WOOD DOOR APPLICATIONS.

Optional Features

Finish
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

Hardware Cutouts
(Edge Guard order form must be filled out)
Flush bolts
ASA strike
Deadlock strike and latch
86 edge
Hospital latch
161 cutout

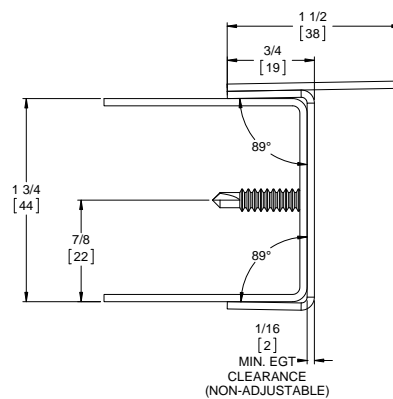
Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting frame fit problems up to 3/8"



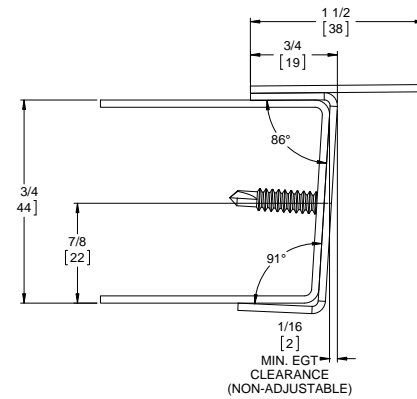
Other Features

Custom lengths - specify in inches
Staggered hole pattern for lead lined doors
Custom cutouts
Dutch door application - suffix "DDP"
Lead lined astragal with 4 lbs. lead lining - suffix "LL"

The integral overlapping astragal of the EGT308 provides additional security by protecting the latch protector. It is ideal for exterior pairs of doors or doors that require added protection from vandalism.



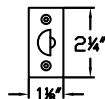
Square edge door



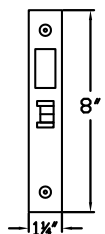
Bevel edge door

MARKAR EDGE GUARD ORDER FORM

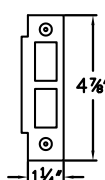
☐ **161 Latch Bolt**
Auto Flush Bolts



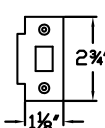
☐ **86 Mortise Lock**



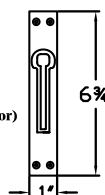
☐ **ASA Strike**



☐ **161 Strike**

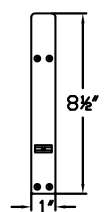


☐ **Manual Flush Bolt**
Auto Flush Bolt
(Hollow Metal Door)

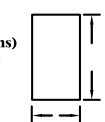


☐ **Auto Flush Bolt**
(Wood Door)

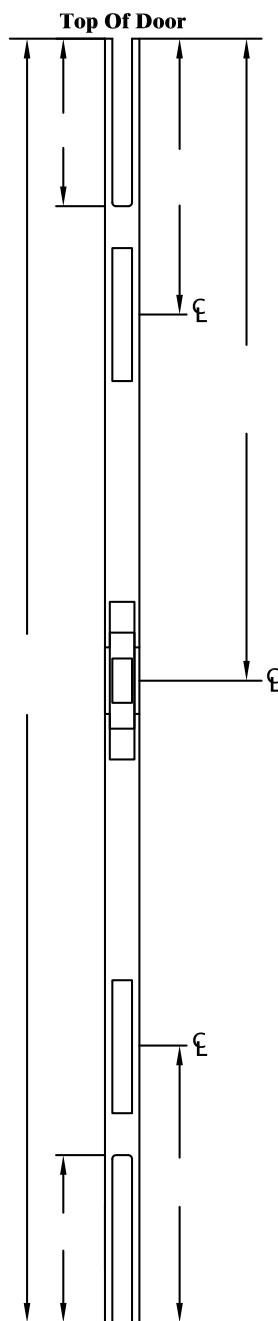
REMAINING SUPPORT
STRIP CAN BE REMOVED AT
THE CUSTOMER DISCRETION
IF NEEDED



☐ **Custom**
(Specify Dimensions)
Lead-time will vary



☐ **Fire Bolt**
(Specify Hole Size) _____



- ☐ For use on 1 3/4" door
- ☐ For use on 1 7/8" door
- ☐ For use on _____" door

☐ **EG308**

☐ **EGT308**

☐ **EGC308**

QUANTITY: _____

DOOR EDGE

- ☐ **BEVEL** (standard If not specified)
- ☐ **SQUARE**

HANDING

- ☐ **LH/ RHR ACTIVE**
- ☐ **RH/LHR ACTIVE**
- ☐ **LH/RHR INACTIVE**
- ☐ **RH/LHR INACTIVE**

Butt Hinge Size

- ☐ **4 1/2" x 4 1/2"**
- ☐ **5" x 5"**
- ☐ **Custom**

DOOR TAG INFO

Special Instructions

Customer: _____

P.O. No. _____

I, THE UNDERSIGNED, APPROVE THE DESIGN AND DIMENSIONS AS SHOWN ON THIS PRINT, AND AUTHORIZE THE FABRICATION OF THESE EDGE GUARDS AS INDICATED.

Signed: _____

phone: 800 824-3018
fax: 800 243-3656

4226 Transport Street
Ventura, CA 93003 USA

5535 Distribution Drive
Memphis, TN 38141 USA

information@markar.com
www.markar.com

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Markar 200 Series Carbon Steel Pin & Barrel Continuous Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 600 lbs. 4'0" maximum door width
- Material to be 14 gauge 1012 carbon steel
- .187" diameter stainless steel pin (rod)
- Each knuckle 2", including nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: Zinc Plated
Optional Finish: Scratch-Resistant Powder Coated Paint
- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Must use undercut head screws
- Must be able to carry Warnock Hersey Int. or UL fire rated doors and frames up to 3 hours
- Hinges shall meet ANSI/BHMA Standard A 156.26 Grade 1
- Symmetrically templated hole pattern

NOTE: 25-Year Warranty on all Continuous Hinges

NOTE: Fire label for doors and frames should be placed on the header and top rail of fire rated doors and frames

Markar FM200 Edge Mount Hinge

Standard Features

Barrel Type Hinge

.187" diameter stainless steel pin (rod)

Medical bearings

Stainless steel end pins

Material

Heavy-duty 14 gauge 1012 carbon steel

Finishes

Zinc Plated

Standards

ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware

No exposed mounting fasteners

Custom 12-24 x 1 1/16" S.S Phillips

Flat Head Undercut TEK Screws

Capacity

Supports weights up to 600lbs.

4'0" maximum door width

Standard Sizes

6'8", 7'0", 7'2", 8'0", 10'0"

Handing

Handing not required on standard hinges. Specify handing when ordering a hinge with modification

Fire Rating

3 hours- hollow metal doors

90 minutes- hollow metal and

composite core wood fire doors

20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

Windstorm

Evaluated in accordance with TAS 201-94, TAS 202-94, TAS 203-94, ASTM E330, ASTM E1886, ASTM E1996 and ANSI A250.13

Optional Features

Finish

Scratch-Resistant Powder Coated Paint

Fasteners

Tamper-proof security screws

Other Features

Custom lengths - specify in inches

Custom hole pattern

Dutch door hinges - suffix "DDP"

Hospital tips - suffix "HT"

Raised barrel - suffix "RB"

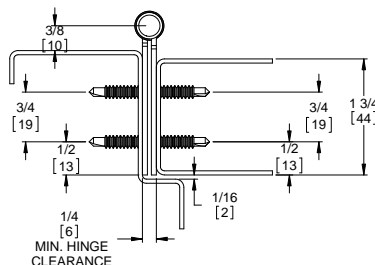
Electrical Modifications

Current Transfer Prep (frame leaf only) - suffix "CTP"

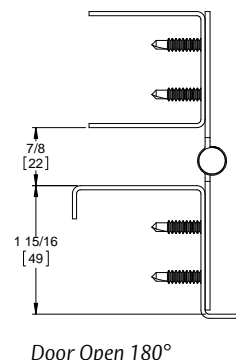
ElectroLynx®

EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This edge-mounted pin & barrel hinge is used on many traffic, high abuse interior doors. The hinge works well in locations that used anchor hinges, pivot reinforced hinges, or thrust pivot unit and hinge sets. This hinge saves on special door and frame preparation charges. It can be used on both fire labeled and non-labeled openings.



Door Closed



Door Open 180°





Markar FS201 1/8" Inset Full Surface Hinge

Standard Features

Barrel Type Hinge
 .187" diameter stainless steel pin (rod)
 Medical bearing
 Stainless steel end pins
Material
 Heavy-duty 14 gauge 1012 carbon steel
Finishes
 Zinc Plated
Standards
 ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
 No exposed mounting fasteners
 1/4-14 x 3/4 Security TORX TEK Screws

Capacity
 Supports weights up to 600lbs.
 4'0" maximum door width
Standard Sizes
 6'8", 7'0", 7'2", 8'0", 10'0"
Handing
 Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features

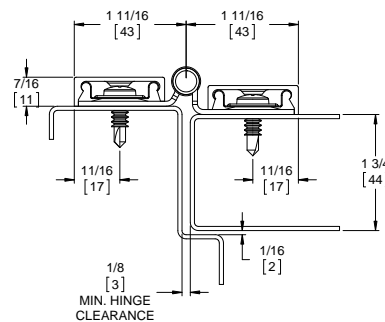
Fire Rating
 3 hours- hollow metal doors
 90 minutes- hollow metal and composite core wood fire doors
 20 minutes- wood doors
 Classified in accordance with UL10C for positive pressure
 Fire-rated label

Optional Features

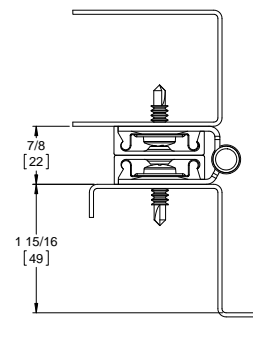
Finish
 Scratch-Resistant Powder Coated Paint
Fasteners
 1 5/8" S.S. sleeve bolts
 Tamper-proof security screws

Other Features
 Custom lengths - specify in inches
 Custom hole pattern
 Dutch door hinges - suffix "DDP"
 Hospital tips - suffix "HT"
 Lead-lined cover with 4 lbs. lead lining - suffix "LL"

This surface-mounted pin & barrel continuous hinge can be used to repair and replace existing hinges on both fire-labeled and non-labeled doors that have very tight clearances. The hinge has a built-in 1/8" inset to assist in weather seal and sound barrier areas.



Door Closed



Door Open 180°

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Markar FS202 Full Surface Flush Mount Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearing
Stainless steel end pins
Material
Heavy-duty 14 gauge 1012 carbon steel
Finishes
Zinc Plated
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
No exposed mounting fasteners
1/4-14 x 3/4 Security TORX
TEK Screws

Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Decorative Fastener Covers
Aluminum
Handing
Not required for standard 7'0",
8'0" or 10'0". Specify handing
for 6'8" and 7'2" and for most
optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and
composite core wood fire doors
20 minutes- wood doors



Classified in accordance
with UL10C for positive
pressure

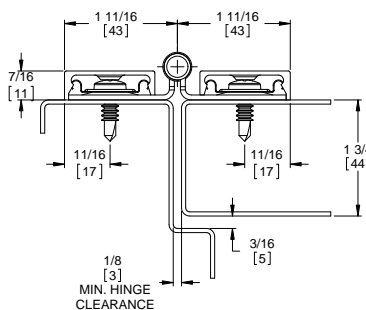
Fire-rated label

Optional Features

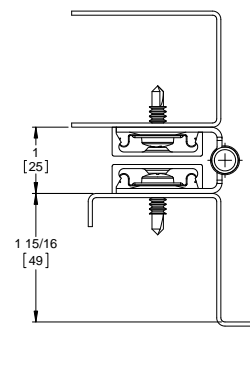
Finish
Scratch-Resistant Powder Coated Paint
Fasteners
1 5/8" S.S. sleeve bolts
Tamper-proof security screws

Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Lead-lined cover with 4 lbs. lead
lining - suffix "LL"

For flush doors. This surface-mounted
pin & barrel continuous hinge can be
used to repair and replace existing hinges
on both fire-labeled and non-labeled
doors that have very tight clearances.



Door Closed



Door Open 180°



Markar HS203 Half Surface

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Stainless steel end pins
Material
Heavy-duty 14 gauge 1012 carbon steel
Cover - extruded aluminum
Finishes
Zinc Plated
Cover - Mill Finish
Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
No exposed mounting fasteners
Custom 12-24 x $1\frac{1}{16}$ " S.S Phillips Flat Head
Undercut TEK Screws
 $\frac{1}{4}$ -14 x $\frac{3}{4}$ Security TORX TEK Screws

Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0", 8'0" or 10'0". Specify handing for 6'8" and 7'2" and for most optional features

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

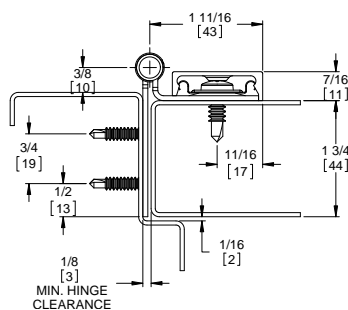
Optional Features

Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
 $1\frac{5}{8}$ " steel sleeve bolts
Tamper-proof security screws

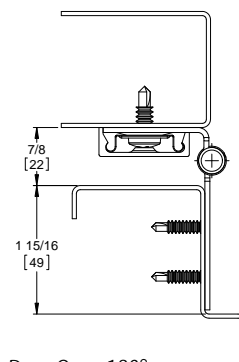
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Lead-lined cover with 4 lbs. lead lining - suffix "LL"

Electrical Modifications
Current Transfer Prep (frame leaf only)
- suffix "CTP"

This half-surface pin & barrel continuous hinge can be used to repair and replace existing hinges on both fire-labeled and non-labeled openings. The hinge fits into the gap left after standard butt hinges are removed. It can assist in reversing the handing of a door, or to reverse the swing of a door hung in an evenly-rabbetted frame. (Please contact the factory for instructions for unevenly-rabbetted frames.)



Door Closed



Door Open 180°

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Markar HM204 Half Mortise Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Stainless steel end pins
Material
Heavy-duty 14 gauge 1012 carbon steel
Cover - extruded aluminum
Finishes
Zinc Plated
Cover - Mill Finish
Standards
ANSI/BHMA Standard A156.26 Grade 1

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $1\frac{1}{16}$ " S.S Phillips Flat Head Undercut TEK Screws
 $\frac{1}{4}$ -14 x $\frac{3}{4}$ Security TORX TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0", 10'0"
Hole Pattern
Symmetrically templated

Handing
Not required for standard 7'0", 8'0" or 10'0". Handing required for 6'8" and 7'2" and for most optional features listed

Fire Rating
3 hours- hollow metal doors
90 minutes- hollow metal and composite
20 minutes- wood doors



Classified in accordance with UL10C for positive pressure



Fire-rated label

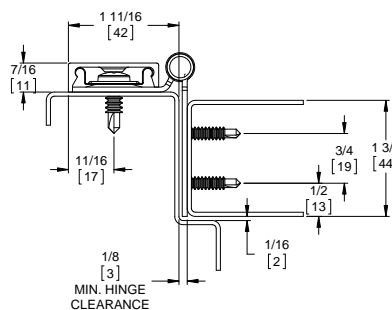
Optional Features

Finishes
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

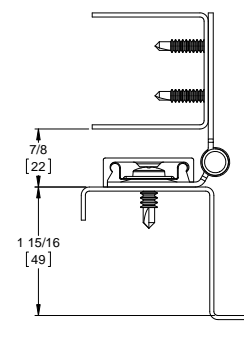
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Raised barrel - suffix "RB"
Welded end pins

Electrical Modifications
Current Transfer Prep (door leaf only)
- suffix "CTP"

This pin & barrel type hinge is used on wooden doors to hide splits, chips and dents from traffic abuse. The surface mounted frame leaf allows for easy retrofit installation.



Door Closed



Door Open 180°

Markar 100 Series Aluminum Pin & Barrel Continuous Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 600 lbs. 4'0" maximum door width
- Material to be extruded aluminum 6063-T6 alloy
- .187" diameter stainless pin (rod)
- Each knuckle 2", including nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: Clear Anodized (628), Dark Bronze Anodized (313)
Optional Finish: Light Bronze Anodized (311), Black Anodized (315), Scratch-Resistant Powder Coated Paint.
Other finishes available upon request.
- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Exterior barrel diameter .515" (1/2")
- Material thickness less than .125"
- Material weight will be no less than 1.5 lbs. per foot
- Hinges shall meet ANSI/BHMA Standard A 156.26 Grade 2
- Symmetrically templated hole pattern

NOTE: 25-Year Warranty on all Continuous Pin & Barrel Hinges

Markar FM100 Edge Mount Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Aluminum end pins
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)

Standards
ANSI/BHMA Standard A156.26 Grade 2
Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x 11/16" S.S Phillips Flat Head Undercut TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width

Standard Sizes
6'8", 7'0", 7'2", 8'0"
Hole Pattern
Symmetrically templated
Handing
Handing not required on standard hinges. Specify handing when ordering a hinge with modification
Windstorm
Evaluated in accordance with TAS 201-94, TAS 202-94, TAS 203-94, ASTM E330, ASTM E1886, ASTM E1996 and ANSI A250.13.

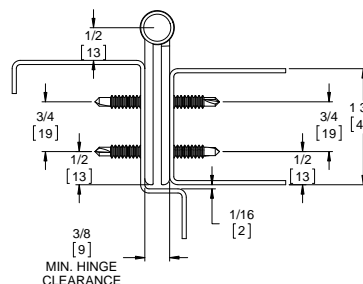
Optional Features

Finishes
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint

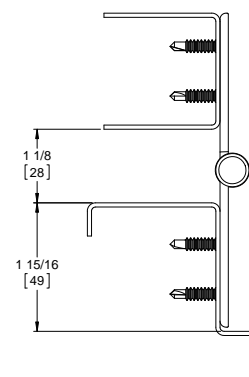
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"

Electrical Modifications
Current Transfer Prep - suffix "CTP"
Electrical Transfer Access Prep - suffix "ETAP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This door-edge mounted aluminum pin & barrel type hinge is extruded using 30% more aluminum than most geared hinges, giving it exceptional strength and durability. This product is specified in lieu of pivots or butt hinges due to its unique design which distributes the weight of the door down the entire length of the hinge.



Door Closed



Door Open 180°

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Markar FS101 1/8" Inset Full Surface Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Aluminum end pins
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)

Standards
ANSI/BHMA Standard A156.26 Grade 2
Mounting Hardware
No exposed mounting fasteners
1/4-14 x 3/4" Security TORX TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0"

Locking Security Covers
Brushed aluminum finish
Handing
Not required for standard 7'0" and 8'0". Handing required for 6'8" and 7'2" and for most optional features listed

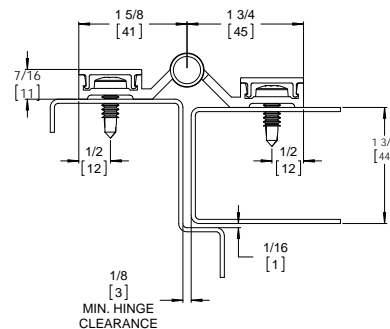
Optional Features

Finishes
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint
Fasteners
1 5/8" aluminum sleeve bolts
Tamper-proof security screws

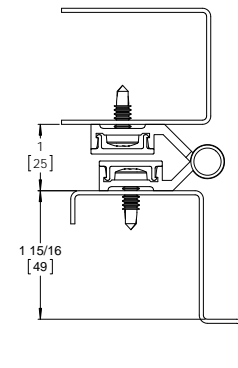
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Lead lined cover with 4 lbs. lead lining - suffix "LL"

Electrical Modifications
Electrical Transfer Access Prep - suffix ETAP
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This surface-mounted pin & barrel type continuous hinge is the correct hinge to solve door sag problems. The 1/8" inset allows perfect alignment for retrofitting hollow metal, wood or aluminum doors within the existing conditions - no need to readjust your weather-stripping!



Door Closed



Door Open 180°

Markar FS102 Full Surface Flush Mount Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Aluminum end pins
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)

Standards
ANSI/BHMA Standard A156.26 Grade 2
Mounting Hardware
Fasteners concealed when door is closed
 $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width

Standard Sizes
6'8", 7'0", 7'2", 8'0"
Locking Security Covers
Brushed aluminum finish
Handing
Not required for standard 7'0" or 8'0".
Handing required for 6'8" and 7'0" and for most optional features listed

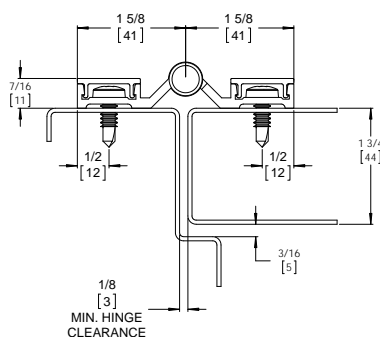
Optional Features

Finish
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint
Fasteners
 $1\frac{5}{8}$ " aluminum sleeve bolts
Tamper-proof security screws

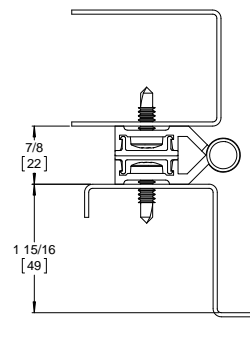
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"
Lead lined cover with 4 lbs. lead lining
- suffix "LL"

Electrical Modifications
Electrical Transfer Access Prep - suffix ETAP
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

For flush-mounted doors. This surface-mounted pin & barrel type continuous hinge is for flush-mounted doors for solving your door sag problems. This unit works well on all types of aluminum, wood and hollow metal door applications. The hinge also features tamper-resistant cover caps to prevent vandalism or break-ins.



Door Closed



Door Open 180°

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Markar HS103 Half Surface Hinge

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Aluminum end pins
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)
Standards
ANSI/BHMA Standard A156.26 Grade 2

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 x $\frac{11}{16}$ " S.S Phillips Flat Head Undercut TEK Screws & $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0"

Locking Security Covers
Brushed aluminum finish
Handing
Not required for standard 7'0" or 8'0".
Specify handing for 6'8" and 7'2" and for most optional features

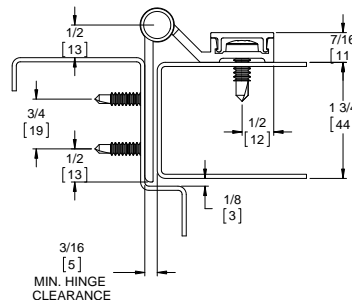
Optional Features

Finish
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint
Fasteners
 $1\frac{5}{8}$ " aluminum sleeve bolts
Tamper-proof security screws

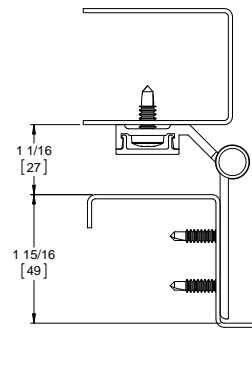
Other Features
Custom lengths- specify in inches
Custom hole pattern
Dutch door hinges- suffix "DDP"
Hospital tips - suffix "HT"
Lead lined cover with $\frac{1}{16}$ " lead lining - suffix "LL"

Electrical Modifications
Current Transfer Prep (frame leaf only) - suffix "CTP"
Electrical Transfer Access Prep - suffix ETAP
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This half-surface aluminum pin & barrel hinge can be used to repair doors that need the frame reinforced. This hinge can also be used on openings that have too large a gap between the door and frame. The hinge is edge mounted on the frame mounted on the frame and surface mounted on the door.



Door Closed



Door Open 180°

Markar HM104 Half Mortise Hinge

Standard Features

Barrel Type Hinge
 .187" diameter stainless steel pin (rod)
 Medical bearings
 Aluminum pins
Material
 6063-T6 aluminum alloy
Finishes
 Clear Anodized (628)
 Dark Bronze Anodized (313)
Standards
 ANSI/BHMA Standard A156.26 Grade 2

Mounting Hardware
 Fasteners concealed when door is closed
 Custom 12-24 x $\frac{11}{16}$ " S.S Phillips Flat Head Undercut TEK Screws & $\frac{1}{4}$ -14 x $\frac{3}{4}$ " Security TORX TEK Screws
Capacity
 Supports weights up to 600lbs.
 4'0" maximum door width
Standard Sizes
 6'8", 7'0", 7'2", 8'0"

Locking Security Covers
 Brushed aluminum finish
Handing
 Not required for standard 7'0" or 8'0".
 Specify handing for 6'8" and 7'2" and for most optional features

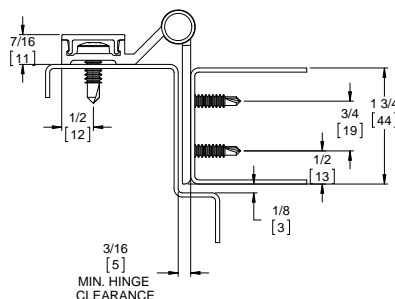
Optional Features

Finish
 Light Bronze Anodized (311)
 Black Anodized (315)
 Scratch-Resistant Powder Coated Paint
Fasteners
 $1\frac{5}{8}$ " aluminum sleeve bolts
 Tamper-proof security screws

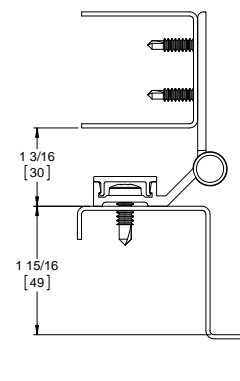
Other Features
 Custom lengths - specify in inches
 Custom hole pattern
 Dutch door hinges - suffix "DDP"
 Hospital tips - suffix "HT"

Electrical Modifications
 Current Transfer Prep (door leaf only) - suffix "CTP"
 Electrical Transfer Access Prep - suffix ETAP
 ElectroLynx®
 EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This pin & barrel type hinge is used on wooden doors to hid splits, chips and dents from traffic abuse. The surface mounted frame leaf allows for easy installation.



Door Closed



Door Open 180°

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Markar HG105 Adjustable Hinge Guard

Standard Features

Barrel Type Hinge
.187" diameter stainless steel pin (rod)
Medical bearings
Aluminum end pins
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)
Standards
ANSI/BHMA Standard A156.26 Grade 2

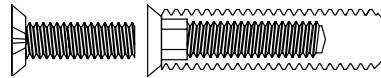
Mounting Hardware
No exposed mounting fasteners when door is closed
Custom 12-24 x $\frac{11}{16}$ " S.S Phillips Flat Head Undercut TEK Screws
Capacity
Supports weights up to 600lbs.
4'0" maximum door width
Standard Sizes
6'8", 7'0", 7'2", 8'0"

Hole Pattern
Symmetrically templated
Handing
Not required for standard 7'0" or 8'0".
Handing required for 6'8" and 7'2" and for most optional features listed

Optional Features

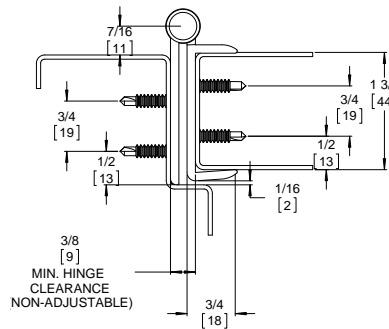
Finishes
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint
Other Features
Custom lengths - specify in inches
Custom hole pattern
Dutch door hinges - suffix "DDP"
Hospital tips - suffix "HT"

Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting frame fit problems up to $\frac{3}{8}$ "

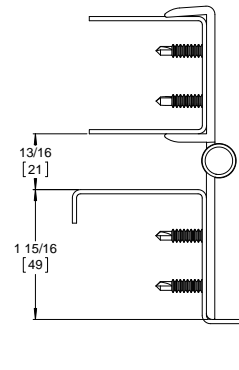


Electrical Modifications
Current Transfer Prep - suffix "CTP"
ElectroLynx®
EL4 (4 wire), EL8 (8 wire), EL12 (12 wire)

This pin & barrel edge-mounted hinge can be used in conjunction with automatically operated aluminum doors that have heavy cart traffic. Ideal for both commercial and institutional doors, shipping and receiving doors, as well as storefronts where door edge protection is critical.



Door Closed



Door Open 180°

Markar EG108 Adjustable Edge Guard

Standard Features

Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)
Dark Bronze Anodized (313)
Standards
ANSI/BHMA Standard A156.26 Grade 2

Mounting Hardware
Fasteners concealed when door is closed
Custom 12-24 S.S Phillips Flat Head Undercut TEK Screws
Custom 12-24 x 1½" S.S. Phillips Flat Head Particle Board Screws

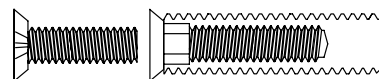
Standard Sizes
6'8", 7'0", 7'2", 8'0"
Hole Pattern
Symmetrically templated
Non-handed
Door Edge
Square edge

Optional Features

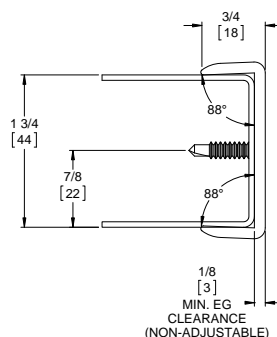
Finishes
Light Bronze Anodized (311)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint
Other Features
Custom lengths - specify in inches
Custom cutouts
Staggered hole pattern for lead lined doors
Dutch door application - suffix "DDP"

Hardware Cutouts
(Edge Guard order form must be filled out)
Flush bolts
ASA strike
Deadlock strike and latch
86 edge
Hospital latch
161 cutout

Fasteners
Tamper-proof security screws
Adjust-A-Screw™ for correcting frame fit problems up to ⅜"



This aluminum edge guard features a full wrap on the lock side of the door that prevents unsightly dents and gouges. When used in conjunction with the HG105 Hinge/Guard it provides a balanced, aesthetic look.



Door Closed

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Markar 900 Series Spring Loaded Pin & Barrel Type Continuous Stainless Steel Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 80 lbs. 3'0" maximum door width
- Material to be 14 gauge stainless steel
- Patented .25" diameter 303 stainless steel self closing pin assembly
- Exterior barrel diameter .438" ($\frac{7}{16}$ ")
- Adjustable, tamper resistant Torx Head end caps
- Each knuckle 2", including split nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: US32D Satin Stainless Steel (630)
Optional Finish: US32 Bright Stainless Steel (629)
- Non-Handed
- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Removable roll pin for spring loaded adjustment
- Symmetrically templated hole pattern

NOTE: 10-Year Warranty

Markar FM900 Edge Mount

Standard Features

Spring-Loaded Barrel Type Hinge
.25" diameter stainless steel pin with stainless steel spring mechanism
Torx tip cap to adjust spring tension
Split nylon bearings
Material
Heavy-duty 14 gauge stainless steel
Finishes
US32D Satin Stainless Steel (630)

Torx Adjusting Screw
Adjust tension on door to close tightly for out-swinging ADA compliance
Mounting Hardware
Custom 12-24 x $\frac{11}{16}$ " S.S Phillips Flat Head Undercut TEK Screws
Capacity
Close door weighing up to 80 lbs.

Sizes
54", 57"
Non-Handed
Use the same hinge for right- or left-handed doors
For Doors over 3'0" consult factory
USA patent no. 4823437
Canadian patent no. 1303804

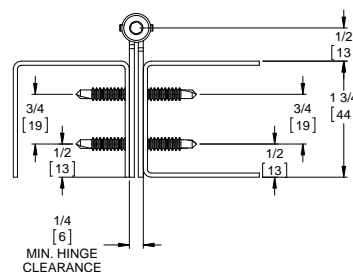
Optional Features

Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint

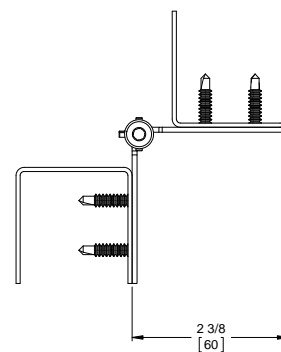
Fasteners
Tamper-proof security screws

Other Features
Custom lengths -Custom sizes 24" to 72" available
Custom hole pattern

Ideal for damp or corrosive environments, Markar's stainless steel toilet partition hinge adds years of life to your high-quality partition.



Door Closed



Door Open 90°



ASSA ABLOY

Markar FS902 Flush Full Surface Hinge

Standard Features

Spring-Loaded Barrel Type Hinge
.25" diameter stainless steel pin with stainless steel spring mechanism
Torx tip cap to adjust spring tension
Split nylon bearings

Material
Heavy-duty 14 gauge stainless steel
Covers - extruded aluminum

Finishes
US32D Satin Stainless Steel (630)
Covers - Brushed Aluminum
Torx Adjusting Screw
Adjust tension on door to close tightly for out-swinging ADA compliance
Mounting Hardware
1/4" x 20 pan head machine screws
Concealed by cover caps

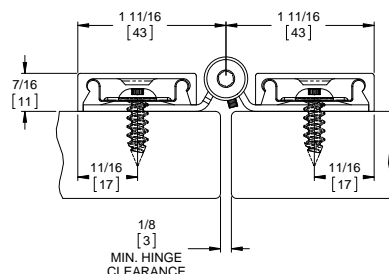
Capacity
Close door weighing up to 80 lbs.
Sizes
54", 57"
Non-Handed
Use the same hinge for right- or left-handed doors
For Doors over 3'0" consult factory
USA patent no. 4823437
Canadian patent no. 1303804

Optional Features

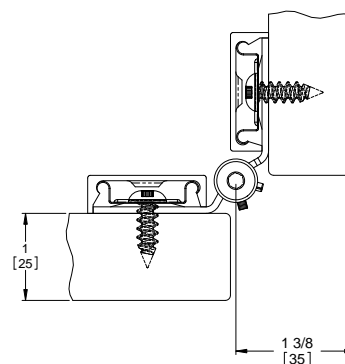
Finishes
US32 Bright Stainless Steel (629)
Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Ideal for damp or corrosive environments, Markar's stainless steel toilet partition hinge adds years of life to your high-quality partition.

Other Features
Custom lengths - Custom sizes
24" to 72" available
Custom hole pattern



Door Closed



Door Open 90°

Markar FS910 Flush Full Surface Hinge

Standard Features

Spring-Loaded Barrel Type Hinge
.25" diameter stainless steel pin with stainless steel spring mechanism
Torx tip cap to adjust spring tension
Split nylon bearings

Material
Heavy-duty 14 gauge stainless steel

Finishes
US32D Satin Stainless Steel (630)

Torx Adjusting Screw
Adjust tension on door to close tightly for out-swinging ADA compliance
Mounting Hardware
Custom 12-24 x 11/16" S.S Phillips Flat Head Undercut TEK Screws
Capacity
Close door weighing up to 80 lbs.

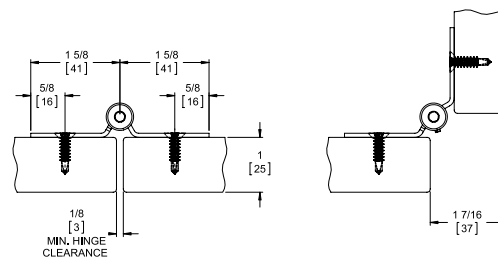
Sizes
54", 57"
Non-Handed
Use the same hinge for right- or left-handed doors
For Doors over 3'0" consult factory
USA patent no. 4823437
Canadian patent no. 1303804

Optional Features

Finishes
US32 Bright Stainless Steel (629) Scratch-Resistant Powder Coated Paint
Fasteners
Tamper-proof security screws

Other Features
Custom lengths - Custom sizes
24" to 72" available Custom hole pattern

Ideal for damp or corrosive environments, Markar's stainless steel toilet partition hinge adds years of life to your high-quality partition.



Door Open

Door Open

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HARDWARE**
WWW.TMHARDWARE.COM

Markar 400 Series Spring Loaded Pin & Barrel Type Continuous Aluminum Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 80 lbs. 3'0" maximum width
- Material to be extruded aluminum 6063-T6 alloy
- Patented .25" diameter 303 stainless steel self closing pin assembly
- Each knuckle 2", including split nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: Clear Anodized (628). Other finishes available upon request.
- Adjustable, tamper resistant Torx Head end caps
- Non-handed
- Exterior barrel diameter .515" (1/2")
- Material thickness less than .125"
- Removable roll pin for spring loaded adjustment
- Symmetrically templated hole pattern

NOTE: 10-Year Warranty

Markar FM400 Edge Mount Hinge

Standard Features

Spring-Loaded Barrel Type Hinge
.25" diameter stainless steel pin with stainless steel spring mechanism
Torx tip cap to adjust spring tension
Split nylon bearings
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)

Torx Adjusting Screw
Adjust tension on door to close tightly for out-swinging ADA compliance
Mounting Hardware
Custom 12-24 x 11/16" S.S Phillips Flat Head Undercut TEK Screws
Capacity
Close door weighing up to 80 lbs.

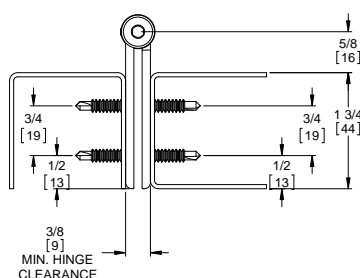
Sizes
54", 57"
Non-Handed
Use the same hinge for right- or left-handed doors
For Doors over 3'0" consult factory
USA patent no. 4823437
Canadian patent no. 1303804

Optional Features

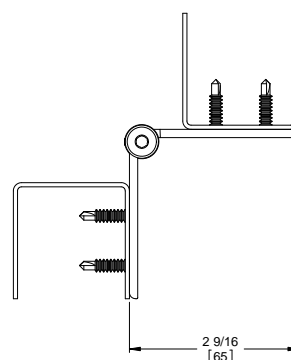
Fasteners
Tamper-proof security screws
Finishes
Scratch-Resistant Powder Coated Paint
Light Bronze Anodized (311)
Black Anodized (315)

Other Features
Custom lengths - Custom sizes
24" to 72" available
Custom hole pattern
Lift-up safety feature

Specify Markar to create the total finished look that your high-quality toilet partition deserves. The Markar continuous spring hinge gives a clean, finished look while virtually eliminating the "sight line" that multi-part systems cause. Continuous hinges also give complete support along the entire length of the partition door.



Door Closed



Door Open 90°



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Markar FS402 Flush Full Surface Hinge

Standard Features

Spring-Loaded Barrel Type Hinge
.25" diameter stainless steel pin with stainless steel spring mechanism
Torx tip cap to adjust spring tension
Split nylon bearings

Material
6063-T6 aluminum alloy
Covers - extruded aluminum

Finishes
Clear Anodized (628)
Torx Adjusting Screw
Adjust tension on door to close tightly for out-swinging ADA compliance
Mounting Hardware
1/4" x 20 pan head machine screws
Concealed by cover caps

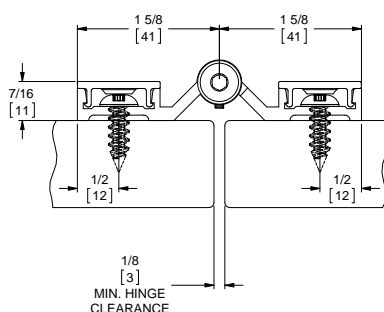
Capacity
Close door weighing up to 80 lbs.
Sizes
54", 57"
Non-Handed
Use the same hinge for right- or left-handed doors
For Doors over 3'0" consult factory
USA patent no. 4823437
Canadian patent no. 1303804

Optional Features

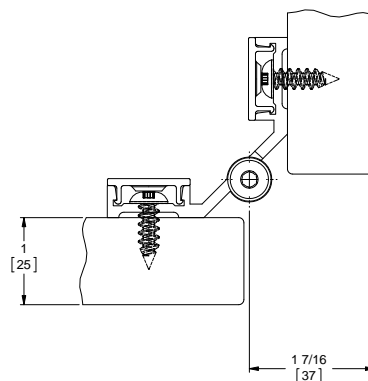
Fasteners
Tamper-proof security screws
Finishes
Scratch-Resistant Powder Coated Paint
Light Bronze Anodized (311)
Black Anodized (315)

Other Features
Custom lengths - Custom sizes
24" to 72" available
Custom hole pattern
Lift-up safety feature

Specify Markar to create the total finished look that your high-quality toilet partition deserves. The Markar continuous spring hinge gives a clean, finished look while virtually eliminating the "sight line" that multi-part systems cause. Continuous hinges also give complete support along the entire length of the partition door.



Door Closed



Door Open 90°

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Markar B1921 & B1923 Full Surface Reinforcing Pivots

This full-surface reinforcing pivot adds years of life to openings where the hinges or hinge reinforcements have failed. An economical way to solve door sag problems, reinforcing pivots take the load off the top hinge and transfer it to screws that will not pull out.

Material:

Heavy Duty $\frac{3}{16}$ " (.187) Cold-Rolled Steel

Finish:

Zinc Plated (US2G)

Mounting:

8 ea. $\frac{1}{4}$ -20 x $\frac{3}{4}$ " Phillips flat head machine screws

8 ea. #14 x $1\frac{1}{4}$ " Phillips flat head sheet metal screws

2 ea. $\frac{1}{4}$ -20 x $1\frac{3}{4}$ " Sleeve bolts

Capacity:

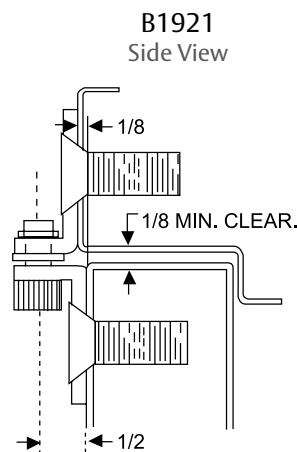
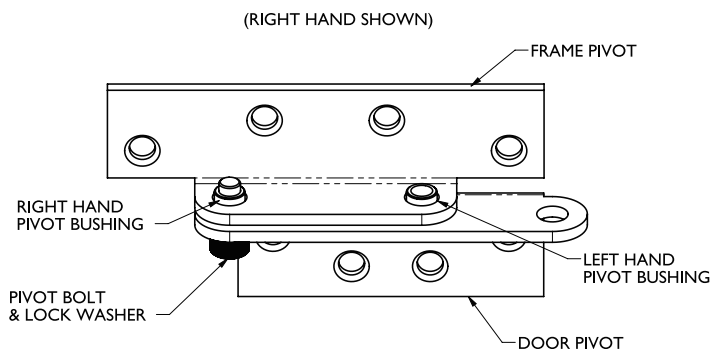
Supports Weights up to 300 lbs.

Hole Pattern:

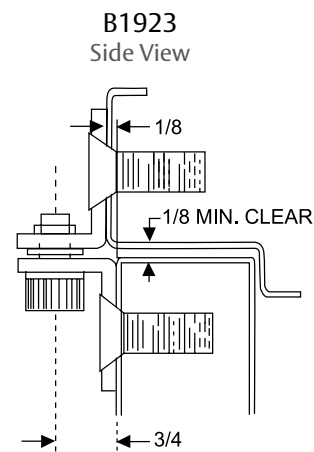
Symmetrically

Handing:

Non-handed



Matches 4" hinge barrel centerline

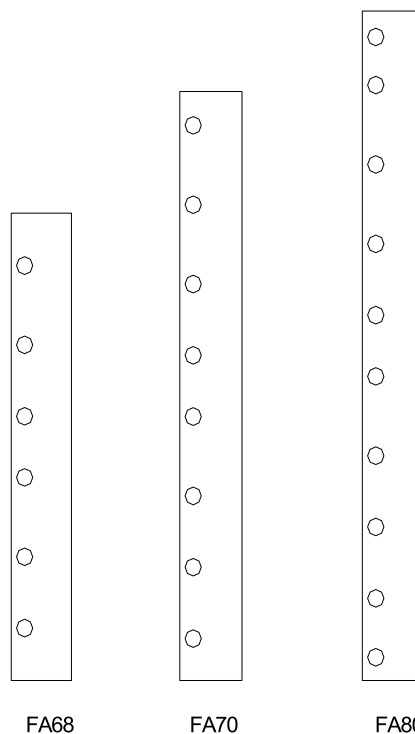


Matches 4 1/2" hinge barrel centerline

B1921	The B1921 pivot is designed with a $\frac{1}{2}$ " offset to match the pivot point of a 4" wide butt hinge.
B1923	The B1923 pivot is designed with a $\frac{3}{4}$ " offset to match the pivot point of a 4 1/2" wide butt hinge.

Markar Flat Astragals

- For 6'8", 7'0", and 8'0" doors
- Holes are countersunk and equally spaced
- 1/8" x 2" galvanized steel
- 1-pkg. # 6 x 1" F.H.S.M. screws
- Finish – galvanized steel
- Available with thru-bolt option – nine-pack (ZTB-KIT9) or eleven-pack (ZTB-KIT11)



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Markar Universal Screw Packs – Edge Mount Hinges

For hinge models FM100

Screw type	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	TKS1267SP10BLR	42	46	54

For hinge models FM200, FM300, HG311, HG315, FM/SC325, FM327, HG329, FM338, FM344

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	42	46	54

For hinge/guard model HG105

Screw type	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	TKS1267SP10BLR	42	46	54
Adjust-A-Screw™ option	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
10-32 x 3/4" Phillips flat head undercut machine screw	MS10075SS	MS10075SS	21	23	27
1 3/8" Adjust-A-Screw™ with 10-32 internal thread	M26-0031-01	M26-0031-01	21	23	27

For hinge/guard models HG305, HG310, HG322, HG326,

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	42	46	54
Adjust-A-Screw™ option	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
10-32 x 3/4" Phillips flat head undercut machine screw	MS10075SS	21	23	27
1 3/8" Adjust-A-Screw™ with 10-32 internal thread	M26-0031-01	21	23	27

For hinge/guard model HG323

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	21	23	27
1/4-20 x 3/4" Truss Head Phillips machine screw	MS14075TSS	9	9	11
1/4-20 x 1 5/8" sleeve bolt	TB1420SS	9	9	11

For edge/guard model EG108

Screw type	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
12 x 1 1/2" Phillips flat head undercut sheet metal screw	PBS12150SP10SS	PBS12150SP10BL	8	10	12
#12-24 x 11/16" Phillips flat head undercut self-drilling Tek Screw	TKS1267SP10SS	TKS1267SP10BL	8	10	12

For edge/guard models EG308, EGC308, & EGT308

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
#12 x 1 1/2" Phillips flat head undercut sheet metal screw	PBS12150SP10SS	8	10	12
#12-24 x 11/16" Phillips flat head undercut self-drilling Tek Screw	TKS1267SP10SS	8	10	12

For security hinge models FM3500, FS3501, & FS3502

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 7/16" flat head undercut machine screw	MS1244SP10SS	42	46	54



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Markar Universal Screw Packs – Full Surface Hinges

For models FS101, FS102

Screw type	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
1/4-14 x 3/4 Torx pan head self-drilling Tek screw	TORX-TKS14075R	TORX-TKS14075R	32	36	40
#8 x 3/4" Phillips flat head Tek screw	TKS8075Z	S323-08R12-663	4	4	4

For models FS201, FS202, FS301, FS302, FS321

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
1/4-14 x 3/4" Torx pan head self-drilling Tek screw	TORX-TKS14075R	32	36	40
606 Cover clips	M22-0130-01	10	12	16
#8 x 3/4" Phillips flat head Tek screw	TKS8075Z	4	4	4

For swing clear model FS/SC309

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	22	24	28
1/4-14 x 3/4" Torx Phillips pan head self-drilling Tek screw	TORX-TKS14075R	16	18	20
606 Cover clips	M22-0130-01	5	6	8
#8 x 3/4" Phillips flat head Tek screw	TKS8075Z	2	2	2

Universal Screw Packs – Half Surface & Half Mortise Hinges

For hinge models HS103 & HM104

Screw type	Aluminum	Bronze	6'8"-7'0"-7'2"	8'0"	10'0"
1/4-14 x 3/4" Torx pan head self-drilling Tek screw	TORX-TKS14075R	TORX-TKS14075R	16	18	10
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	TKS1267SP10BLR	21	23	27
#8 x 3/4" Phillips flat head Tek screw	TKS8075Z	S323-08R12-663	2	2	2

For hinge models HS203 & HM204

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
1/4-14 x 3/4" Torx pan head self-drilling Tek screw	TORX-TKS14075R	14	16	20
12-24 x 11/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	21	23	27
606 Cover clips	M22-0130-01	5	6	8
#8 x 3/4" Phillips flat head sheet metal screw	TKS8075Z	2	2	2

For hinge models HS303, HM304, & HG306

Screw type	Stainless Steel	6'8"-7'0"-7'2"	8'0"	10'0"
1/4-14 x 3/4" Torx pan head self-drilling Tek screw	TORX-TKS14075R	14	16	20
12-24 x 3/16" Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	21	23	27
606 Cover clips	M22-0130-01	5	6	8
#8 x 3/4" Phillips flat head sheet metal screw	TKS8075Z	2	2	2

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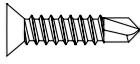
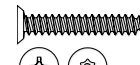



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Markar Universal Screw Packs – Toilet Partition Hinges

For hinge models FM400			
Screw type	Stainless Steel	54"	57"
12-24 x ¹¹ / ₁₆ " Phillips flat head undercut zinc self-drilling Tek screw	TKS1267SP10SS	26	26
³ / ₃₂ " x ³ / ₈ " Stainless Steel roll pin	RLPN33238SS	1	1
For hinge model FS402			
Screw type	Stainless Steel	54"	57"
¹ / ₄ -14 x ³ / ₄ " Torx button head sheet metal screw	TORX-TKS14075R	12	12
#8 x ³ / ₄ " TORX flat head self-drilling Tek screw	TORX-TKS8075Z	4	4
³ / ₃₂ " x ³ / ₈ " Stainless Steel roll pin	RLPN33238SS	1	1
For hinge models FM900			
Screw type	Stainless Steel	54"	57"
#12-24 x ¹¹ / ₁₆ " Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	26	26
³ / ₃₂ " x ³ / ₈ " Stainless Steel roll pin	RLPN33238SS	1	1
For hinge model FS902			
Screw type	Stainless Steel	54"	57"
¹ / ₄ -14 x ³ / ₄ " Torx button head sheet metal screw	TORX-TKS14075R	12	12
606 Cover clips	M22-0130-01	6	6
#8 x ³ / ₄ " TORX flat head self-drilling Tek screw	TORX-TKS8075Z	4	4
³ / ₃₂ " x ³ / ₈ " Stainless Steel roll pin	RLPN33238SS	1	1
For hinge models FS910			
Screw type	Stainless Steel	54"	57"
#12-24 x ¹¹ / ₁₆ " Phillips flat head undercut self-drilling Tek screw	TKS1267SP10SS	26	26
³ / ₃₂ " x ³ / ₈ " Stainless Steel roll pin	RLPN33238SS	1	1

Markar Fasteners

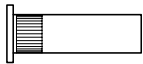
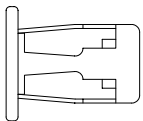
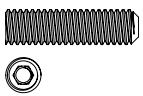
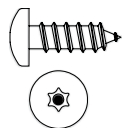
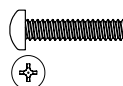
	Product Number	Description	Properties
		Custom 12-24 x $1\frac{1}{16}$ " Phillips Flat Head Undercut Self-Drilling Screw	
	TKS1267SP10SS	For attaching Edge Mounted hinge leaves	Stainless Steel Phillips
	TORX-TKS1267SP10SS	For attaching Edge Mounted hinge leaves	Stainless Steel Torx
		#8 x $\frac{3}{4}$ " Flat Head Self Drilling Tek Screw	
	TKS8075Z	For attaching 100, 200, and 300 series covers	Zinc Phillips
	S323-08R12-663	For attaching 100, 200, and 300 series covers	Bronze Phillips
	TORX-TKS8075Z	For attaching 100, 200, and 300 series covers	Zinc Torx
		Custom #12 x $1\frac{1}{2}$ " Flat Head Undercut Particle Board Screw	
	PBS12150SP10BLR	For edge mounting to wood	Bronze Phillips
	PBS12150SP10SS	For edge mounting to wood	Stainless Steel Phillips
	TORX-PBS12150SP10SS	For edge mounting to wood	Stainless Steel Torx
		Custom 12-24 x $\frac{7}{16}$ " Flat Head Undercut Machine Screw	
	MS1244SP10SS	Used with 3500 series hinges for mounting to metal	Stainless Steel Phillips
	TORX-MS1244SP10SS	Used with 3500 series hinges for mounting to metal	Stainless Steel Torx
		10-32 x $\frac{3}{4}$ " Flat Head Machine Screw	
	MS10075SS	Used with Adjust-A-Screw	Stainless Steel Phillips
	TORX-MS10075SS	Used with Adjust-A-Screw	Stainless Steel Torx

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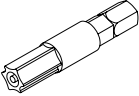
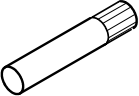
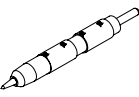
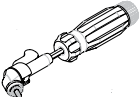
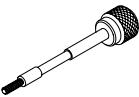
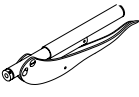
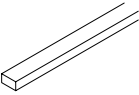
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Markar Fasteners

	Product Number	Description	Properties
	TB1420SS	1/4-20 x 1 5/8" Sleeve Bolt For surface mounting to wood	Stainless Steel
	M26-0030	10-24 Security Button Head Barrel Nut For surface mount toilet partition hinges Consult factory for pricing and availability	Stainless Steel
	TORX-BHMS1075SS	10-24 x 3/4" Button Head Security Torx For surface mount toilet partition hinges Consult factory for pricing and availability	Stainless Steel
	M26-0015-02	18 SJN 1/4-20 Molly Jack Nut 7/16" hole	Zinc
	M26-0031-01	1 3/8" Adjust-A-Screw™ with 10-32 Internal Thread and Hex Head Adjustment Used with MS10075SS screw Note: 5/16" pilot hole required for 3/8" - 16 tap	
	TORX-TKS14075R	1/4-14 x 3/4" T-27 Torx Button Head Sheet Metal Screw	Ruspert Coat Torx
	S222-416R16-603	1/4-20 x 1" Pan Head Machine Screw For surface mounting to metal	Zinc Phillips

Markar Tools, Parts and Accessories

	Product Number	Description
		MT-T20, 27, & 15 Torx Driver Bit
	TORXBIT20	Used on TORX-MS1244SP10SS, TORX-PBS12150SP10SS and TORX-MS10075SS
	TORXBIT27	Used on TORX-TKS14075R16 and to adjust 400 and 900 series spring-loaded hinges
	TORXBIT15	Used on TORX-TKS8075Z
	RLPN33238SS	Knurl Pin Replacement pin for spring-loaded toilet partition hinges
	MT-806	Center Punch For centering screw holes when installing hinges and other countersunk hardware. Bevel tip assures correct alignment
	MTSP100	Right Angle Skewdriver Used for installing HG310 & HG311 Hinge/Guards
	M29-0011-02	Installer Rod For 8S-JN 1/4-20 nuts For installing Molly Jack Nuts with MT1956 installer
	M29-0012-01	Molly Jack Nut Installer Used for installing Molly Jack Nuts. Includes 1/4-20 installer rod
	MP-UBOX	Hinge Carton Please Specify: • Length • Dimension: 1" x 3" or 1 1/2" x 3"

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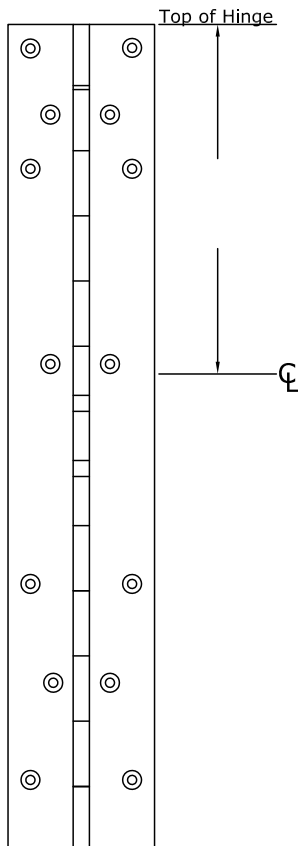


To process order, please circle handing illustrated below.

Markar Current Transfer Prep (CTP) Information Form

In order to assign an accurate ship date and begin production of your order, please provide us with the information requested. We appreciate your cooperation and time to assist us in providing you with the type of product that will meet our requirements.

ALL PT LOCATIONS ARE REQUIRED FROM TOP OF DOOR TO CENTERLINE OF PREP



Company Name: _____
Contact Name: _____
P.O.#: _____
Job Name: _____
Phone Number: _____
Fax Number: _____

CTP (Power Transfer Model)

- ☐ Pemko/Markar EL-CEPT
- ☐ Pemko/Markar EL-EPT ***
- ☐ Pemko/Markar EL-EPTL ***
- ☐ Pemko/Markar EL-EPT-SC
- ☐ Securitron CEPT
- ☐ Securitron EPT/Adams Rite 4612-1 ***
- ☐ Securitron EPTL/Adams Rite 4612-2 ***
- ☐ Securitron EPT-SC/Adams Rite 4612-SC
- ☐ Von Duprin EPT-2 & EPT-10
- ☐ Precision ***
- ☐ Other (Template Needed) _____

Specify Hinge Leaf to Recieve Mortise Prep *** (needed)

- ☐ Frame Leaf
- ☐ Door Leaf

Hinge Length: _____
RHR/LH: _____
LHR/RH: _____

Notes: _____

Order acknowledgement will be sent after all information requirements are met to determine a ship date

phone: 800 824-3018
fax: 800 243-3656

4226 Transport Street
Ventura, CA 93003 USA

5535 Distribution Drive
Memphis, TN 38141 USA

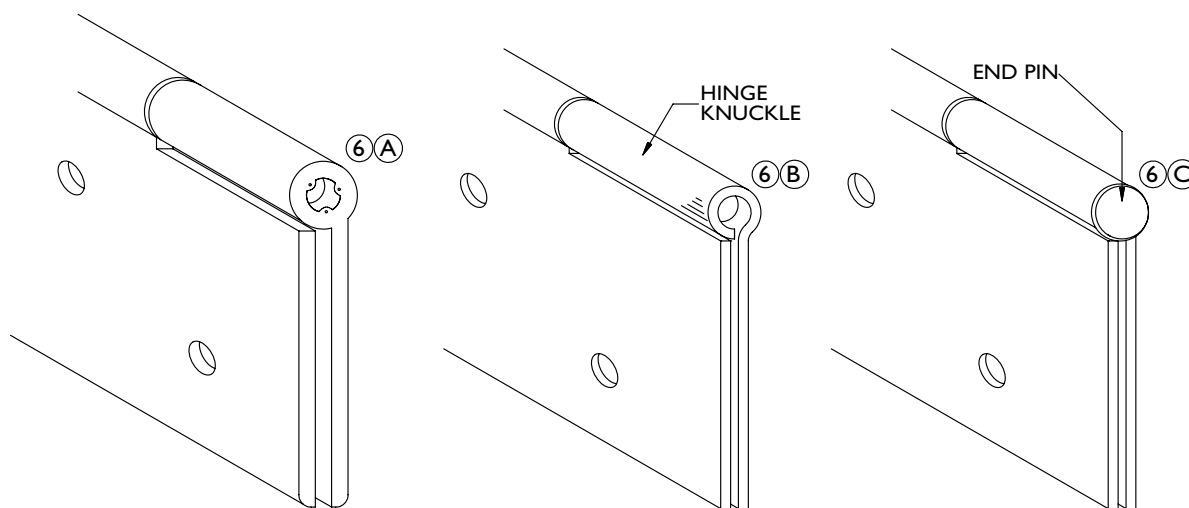
information@markar.com
www.markar.com



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Cutting Pin & Barrel Hinges to Custom Lengths

- Step 1** The following instructions will apply to all Markar pin and barrel hinges except for toilet partition hinges. The general instructions apply for the 100, 200, 300 and 3500 series hinges. Follow option **A** for specific directions related to 100 series aluminum hinges and option **B** or **C** for specific directions related to 200, 300 & 3500 series steel and stainless steel hinges.
- Step 2** Determine the amount the hinge needs to be shortened. Note the hand of the hinge before beginning to lay out your cut. All cuts should be done at the bottom of your hinge assembly so that the gang hole pattern is at the top.
- Step 3** Measure from the top of the hinge down and mark a cut line at the desired length.
For 200, 300 & 3500 series hinges, follow the instructions below
- If less than $\frac{3}{4}$ " of knuckle is remaining follow option **B**
 - If $\frac{3}{4}$ " or more of knuckle is remaining follow option **C**
- Step 4** Cut the hinge to length with a hacksaw or horizontal band saw, going through each hinge leaf, barrel and rod. If necessary, use a file to remove sharp edges and deburr.
- Step 5** Slide the stainless steel rod out approximately 1" making sure the assembly stays together as one unit.
- **A B** Remove $\frac{1}{4}$ " from the rod using hacksaw and then push back into it's original position.
 - **C** Remove $\frac{3}{4}$ " from the rod using a hacksaw and then push back into it's original position.
- Step 6** Follow instructions below based on option used.
- **A** Using a hammer and a center-punch, swage the aluminum material towards the center of the hole locking the hinge pin into place making sure it will not slide out.
 - **B** Using a pair of vice-grips, crimp the end of the steel barrel making sure the hinge pin will not slide out.
 - **C** Remove the end of the pin from the scrap hinge and insert it into the bottom of hinge using hammer.



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PemkoHinge™

Continuous Geared Aluminum Hinges

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NOTE: Products shown in this section may not be drawn to scale



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What is PemkoHinge™?

PemkoHinge™ consists of two full-height, paired and geared leaves. Each geared leaf rotates evenly from top to bottom riding on proprietary polymer blended bearings. The geared leaves and bearings are held together by a full-length channel cap. This assembly retains the smooth, clean lines of the door and frame, while easily supporting heavy vertical loads.

PemkoHinge™

SECURITY, SAFETY, PRIVACY, LOW WEAR AND TEAR

PemkoHinge™ Attributes:

- With a continuous hinge, typical alignment problems (such as door sag and binding) are eliminated
- The continuous hinge distributes load stress uniformly along the full length of the door and frame
- The gear design of the continuous hinge ensures symmetrical operation of each leaf
- 1/2 lb. or less operating force required to operate most doors, regardless of size
- Low operating force feature makes continuous hinges ideal for doors used by the physically challenged
- The continuous hinge, when installed on standard steel doors and frames, requires no additional reinforcement. However, hinge preps must have fillers installed for proper operation
- A high degree of security can be achieved for exterior openings or restricted spaces by using a continuous hinge. With the geared construction and the full-length channel cap, the common gap between the door and frame is sealed, which provides security against prying
- In addition, the continuous full-height hinge cap protects against pinching fingers in doors in public areas, particularly those where children are present
- Sight proof design of the continuous hinge provides privacy for lavatories, executive offices, or file rooms

PemkoHinge™ Superior Design:

- PemkoHinge™ has increased critical stress points of the hinge leaf extrusions providing additional strengths and rigidity to the completed product
- PemkoHinge™ bearing design eliminates premature wear, guarantees proper alignment, and requires fewer bearings to carry more weight. The bearing is produced for PEMKO using a chemical composition and injection process that provides a stronger, more accurately formed bearing
- PemkoHinge™ is designed with inter-meshing gear segments in the hinge which provide 50% more bearing surface resulting in less wear
- PemkoHinge™ goes through the anodizing process after completing all machining. This means the machined aluminum surfaces that are in direct contact with the bearing have a smoother, harder surface, thereby reducing wear
- PemkoHinge™ maintains uniform bearing spacing for the full length of the hinge even when lengths exceed 10'
- PemkoHinge™ uses #12-24 size fasteners with #10 head. (#12 Tek fasteners available upon request)
- PemkoHinge™ commercial models are ideal for use on lead lined doors (i.e. hospital X-ray rooms), without requiring special screw locations

How To Order (Hinge Part Designations)

Example: D | SPFM | 85 | SLI | HD1

Finishes		Hinge Types		Lengths	Hinge Options		Capacity	
BL	Black Anodized	AL_FM	Aluminum Full-Mortise	79	"blank"	Standard	"blank"	Standard Duty
C	Clear Anodized	AL_HS	Aluminum Half-Surface	83	CP	Center Pivot	HD1	Heavy Duty, Grade 1
D	Dark Bronze Anodized	FM	Full-Mortise	85	RG	Raised Gear	HD3	Heavy Duty, Grade 3
G	Gold Anodized	FS	Full-Surface	95	SF	Safety		
PW	Painted White	HS	Half-Surface	120	SL	Short Leaf (residential only)		
SN	Satin Nickel Anodized	RS138	Full-Mortise Residential: 1 3/8"		SLF	Short Leaf Flush		
		RS175	Full-Mortise Residential: 1 3/4"		SLI	Short Leaf Inset		
		SPFM	Special Full-Mortise					
		WT_FM	Wide Throw Full-Mortise					
		WT_HS	Half-Surface					

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BHMA Certification Program

This program was developed to establish product classifications through performance testing. Three grades (1, 2 and 3) of product classifications were established for continuous hinges, with three weight groups (150, 300 and 600) for each grade: Grade 3 being the lowest and Grade 1 being the highest classification. Each classification and weight group has a set of established cycle requirements and wear characteristics, with a minimum for vertical and lateral wear to establish a listing under a weight and grade classification, after the set number of cycles is completed.

Maximum Vertical Wear Allowable:

Grade 3 = 0.105"

Grade 2 = 0.030"

Grade 1 = 0.020"

Maximum Lateral Wear Allowable:

All Grades = 0.062"

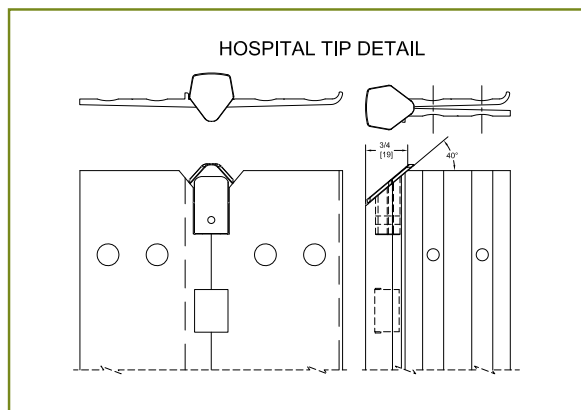
Cycle requirements range from Grade 3-600 requiring 100,000 cycles through Grade 1-150 requiring 2.5 million cycles.

For more information on certification testing or other product certification programs, please contact PEMKO Customer Service.



Hospital Tip

A special modification is available for certain hinges which provides a Hospital Tip Cap at the top of the gear cap, leaving no opening. A 45° angled cut on the gear cap and leaf covers provides a safe environment for hospitals and correctional facilities.



Cycle Requirements - Per BHMA Standard ANSI/BHMA A156.26-2012

- Standard Duty Hinges (excluding _RS175 & _RS138) conform to Grade 3-150 and Grade 3-300
- HD3 Hinges conform to Grade 3-150, Grade 3-300, and Grade 3-600
- HD1 Hinges conform to Grade 2-150, Grade 1-300, and Grade 1-600
- 1100 Series and X-Series Hinges conform to Grade 1-150

Weight Bearing - Per BHMA Standard ANSI/BHMA A156.26-2012

- This information pertains to all commercial models
- Heavier weight can be carried; please contact Customer Service for applications other than those listed in the chart
- Special hinge reinforcements are not required as hollow metal door and frame manufacturers' standard are acceptable. Removal of hinge reinforcements in the door and frame is not advised. Hinge preps must have fillers installed

UL Fire Labeled 1½ & 3 Hour



LISTED
DOOR HINGE
76Y2

- All models designated with these symbols are tested and certified by Underwriters Laboratories Inc.® (U.S.A. and Canada) to standards UL10B, UL10C and UBC7.2 (positive pressure) for a 1½-Hour Fire Listing for all 4'0" x 10'0" and 8'0" x 10'0" door and frame assemblies. Fire listing certifications apply to all approved hollow metal and wood door assemblies in drywall or masonry wall construction
- Special FirePins™ are only required on 3-Hour assemblies. Please refer to page 95 for illustrations and information regarding the application of PEMKO FirePins™

- All hinges are supplied with standard fastener kits. Replacement kits/individual fasteners may be purchased separately
- TEK/TORX fasteners may be purchased separately. Full-mortise hinges require 40 each; half-surface hinges require 20 each; full-surface hinges require 12 each
- All half-surface and full-surface hinges are supplied with a snap cover for the door leaf. Replacement snap covers may be purchased separately
- Rain caps may be purchased separately



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Electrically Modified Continuous Geared Hinges

Electrical Modifications

- PEMKO has vastly improved the cycle performance of the electrically modified hinge. Performance testing has shown that 3,000,000+ cycles can now be achieved using PEMKO's exclusive polyurethane-coated 4, 8, or 12 TRI-FLEX titanium copper alloy cables. Each cable is capable of carrying 6 amps continuous or 16 amps in-rush @ 24-volts for 820 milliseconds. When ordering, please use the "shorthand code" shown in the chart page 82. For example, if you require a Clear Anodized standard Full-Mortise hinge at 83" with Quick Connect transfer - 4-wire, modified 36 $\frac{1}{4}$ " from the top, right hand, you would order a CFM83 with QC4 at 36 $\frac{1}{4}$ " from top - RH

Options for Electrically Modified Continuous Geared Hinges

These options allow variable degrees of service to be performed at the specific locations of the current carrying cables by installing a serviceable/removable hinge which includes a removable module (SER), or installing a hinge with a pivoting accessible feature (ACC).

- Both options (SER & ACC) are available in 4 Wire (QC4), 8 Wire (QC8), 12 Wire (QC12) variants
- Available on FM, FS, HS, KFM, SLF, SLI, XF, XI, XK, XM, X25M Models

Serviceable/Removable (SER) Module

The hinge is furnished to be installed in three sections allowing the current carrying cable to be serviced or replaced without removing the door from the frame. Additionally, the SER option allows the current carrying cables to be safely stored or delivered to the electrician or security contractor prior to the installation of the electrified hardware, eliminating the necessity of the electrician or security contractor being present when the doors are being hung.

Product Numbering Example: CFM83HD1xSER4

Accessible (ACC) Feature

The hinge is furnished to be installed in a single section with the leaves modified to pivot at the location of the current carrying cable and allow access to the cables and connected wiring.

Product Numbering Example: CFM83HD1xACC4

Concealed Magnetic Monitoring (CM)

Concealed magnetic monitoring is also available with the SER and ACC options. Magnetic monitor is supplied with monitor and an adjustable magnet.

Product Numbering Example: CFM83HD1xSER4xCM
CFM83HD1xACC4xCM

Customer Information Needed:

- Specify handing and prep location if other than PEMKO standard

Included:

- HD1, 1100 and X-Series model hinges using Molex connectors with ElectroLynx® are warranted for five (5) years. Standard duty and HD3 hinges are warranted for one (1) year
- Each electrical prep is supplied with one 48" and one 180" cable lead

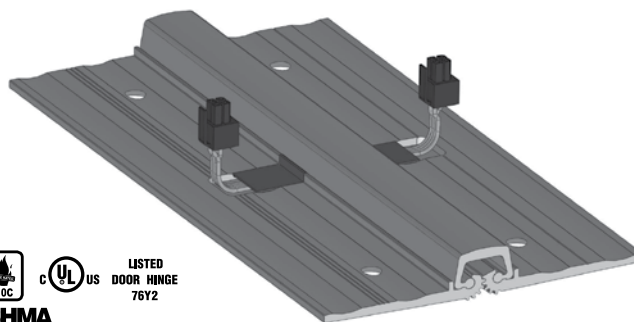
Hardwiring Made Easy™



ElectroLynx®

As part of their promise to provide innovative, fast and effective high security solutions to their customers, certain ASSA ABLOY Group brands offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx® is a registered trademark of ASSA ABLOY Inc.



LISTED
DOOR HINGE
76Y2

Quick Connect Transfer For Full Mortise (FM) Hinges	QC4 4 WIRE	Quick Connect Transfer For Full Surface (FS) & Half Surface (HS) Hinges	QC4_S 4 WIRE
	QC8 8 WIRE		QC8_S 8 WIRE
	QC12 12 WIRE		QC12_S 12 WIRE

Additional Electrical Modifications Options Code	
Additional Length of Quick Connect Cable Leads	
Adjustable Concealed Magnetic Monitoring	CM
Power Transfer - Prep Only	PT

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X-Series Hinges

- Thicker leaves than traditional continuous geared hinge and requires no additional clearance

- X-Series hinges allow for a deeper cavity for electrical wires when ordering an electrified hinge

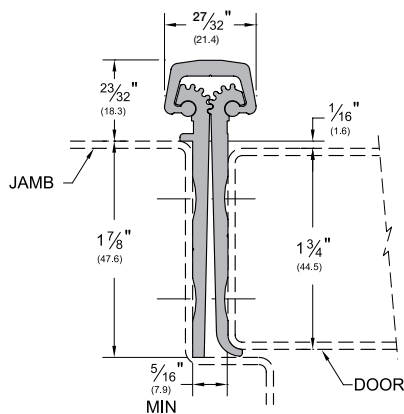
Full Mortise

XM_

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



Full Mortise for 2 1/2" Thick Door

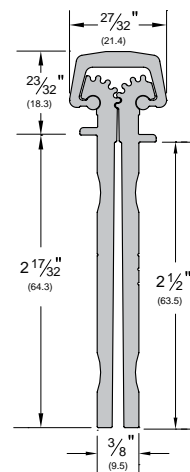
- Wider hinge leaves to accommodate doors 2 1/2" thick

X25M_

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



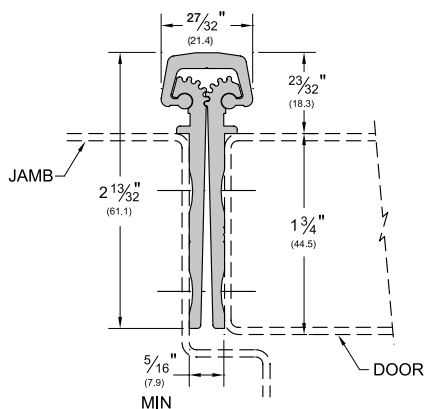
Short Leaf Flush

XF_

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



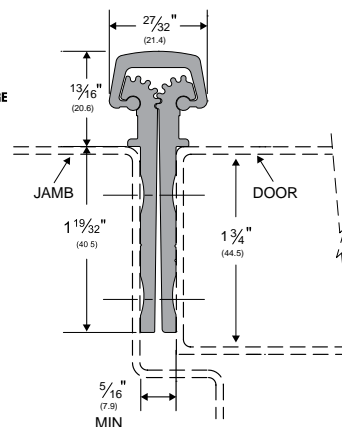
Kawneer Full Mortise

XK_

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



Short Leaf Inset

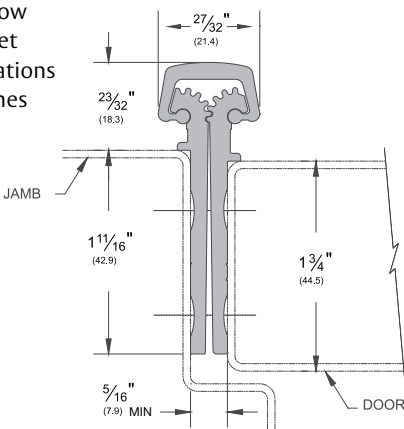
- Designed for use with hollow metal doors where the inset conforms to S.D.I. specifications for aligning doors and frames

XI_

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized)

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Offset Hinges

- Used when the door needs to swing out of the opening

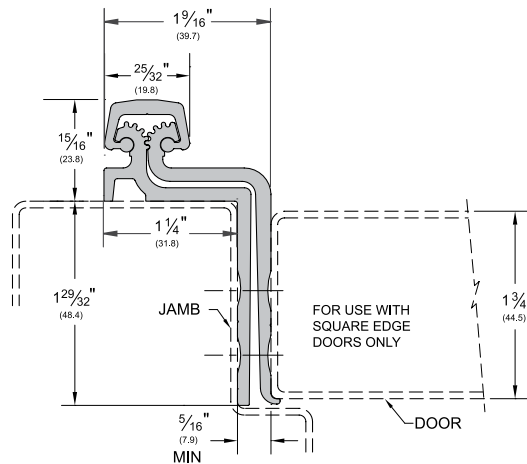
Offset Full Mortise

_OS_FM

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



Offset Half Surface

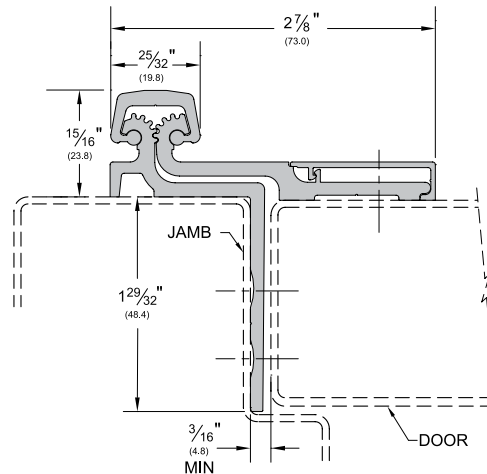
- Replacement snap cover is C1 for Clear Anodized or D1 for Dark Bronze Anodized

_OS_HS

AVAILABLE FINISHES: C, D



LISTED
DOOR HINGE
76Y2



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized)

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Full Mortise Hinges

- Full-Mortise units are designed mainly for new door applications and are applied to the frame rabbet and door edge to conceal both leaves

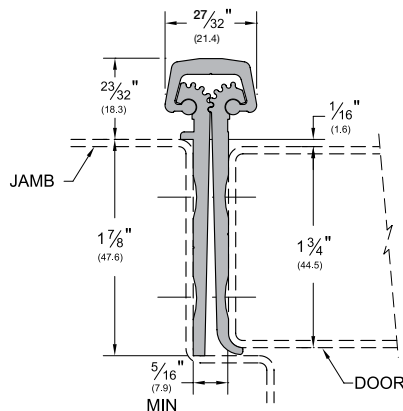
Full Mortise

_FM

AVAILABLE FINISHES: **BL, C, D, G, PW, SN**



LISTED
DOOR HINGE
76Y2



Full Mortise Short Leaf Inset

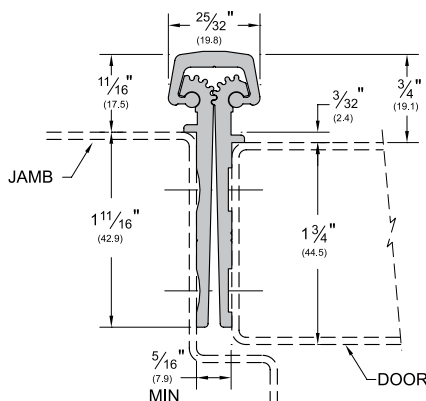
- Designed for use with doors which range between 1 3/4" to 2 1/4"
- Designed for use with hollow metal doors and frames where the inset conforms to S.D.I. specifications for aligning doors and frames

_FM_SLI

AVAILABLE FINISHES: **BL, C, D, G, PW, SN**



LISTED
DOOR HINGE
76Y2



Full Mortise Short Leaf Flush

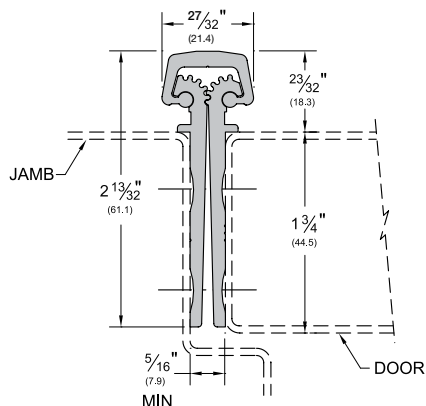
- Designed for use with doors which range between 1 3/4" to 2 1/4"
- Also used for bifold applications to keep the faces of the doors flush (not illustrated)

_FM_SLF

AVAILABLE FINISHES: **BL, C, D, G, PW, SN**



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DOOR HINGE
76Y2



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

BL (Black Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

PW (Painted White) and **SN** (Satin Nickel) are special finishes available upon request.

Special Full Mortise Hinges

- Special Full-Mortise units are designed for door and frame applications where the hinge leaf may interfere with the weatherstrip, thermal break, or applied stop of the frame
- Special Full-Mortise hinges are applied to the frame rabbet and door edge to conceal both leaves

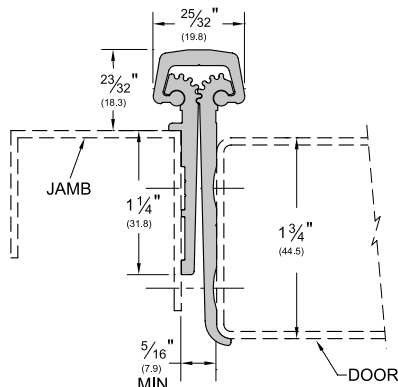
Special Full Mortise

_SPFM

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



LISTED
DOOR HINGE
76Y2



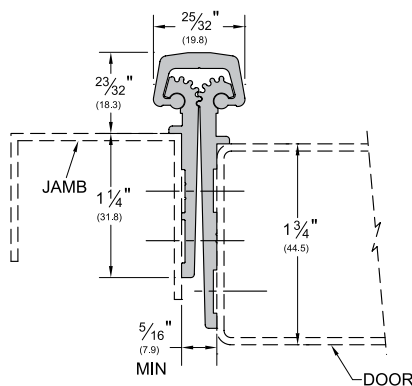
Special Full Mortise Short Leaf Inset

_SPFM_SLI

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



LISTED
DOOR HINGE
76Y2



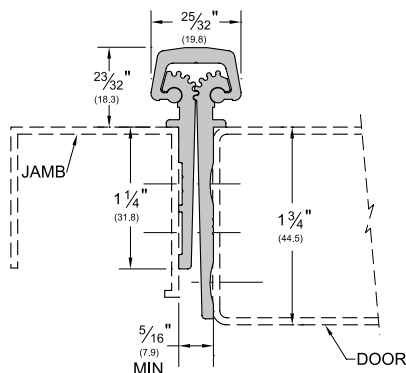
Special Full Mortise Short Leaf Flush

_SPFM_SLF

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



LISTED
DOOR HINGE
76Y2



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized)
PW (Painted White) and SN (Satin Nickel) are special finishes available upon request.

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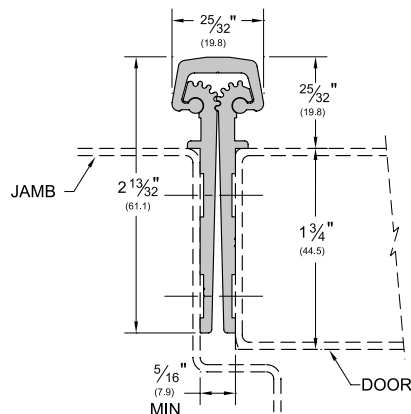
Full Mortise Hinge

- Like our other Full Mortise units, the Kawneer Hinges are designed mainly for new door applications and are applied to the frame rabbet and door edge to conceal both leaves
- Developed for the Kawneer "Tuffline" series of aluminum doors

Kawneer Full Mortise

K_FM

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



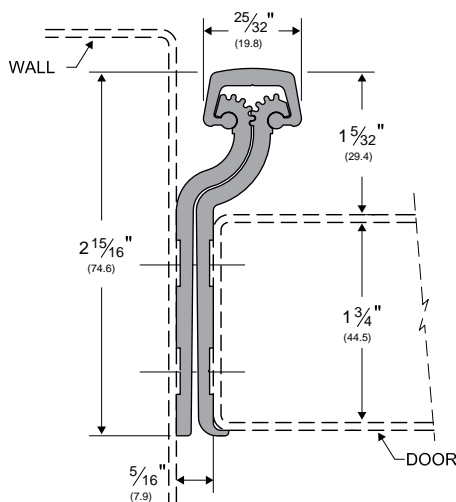
Raised Gear Hinge

- Designed for wood or metal cased openings when hinge is to be installed deep on the rabbet. The design of the leaves allows for the hinge to pivot without interference from the cap.
- Certain door/frame conditions may require an extra $\frac{1}{32}$ " to $\frac{1}{16}$ " clearance. Excessive clearance on fire rated assemblies may violate the requirements of NFPA80

Full Mortise Raised Gear

_FM_RG

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



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized)
PW (Painted White) and SN (Satin Nickel) are special finishes available upon request.

ASSA ABLOY

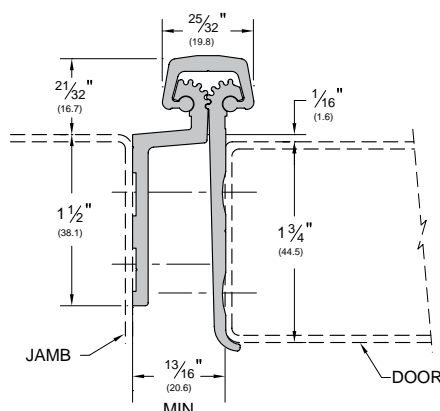
Full Mortise Safety Hinge

- Full Mortise Safety units are designed mainly for new door applications in child care and nursing facilities
- These hinges require extra clearance and are applied to conceal both leaves

Full Mortise Safety

_FM_SF

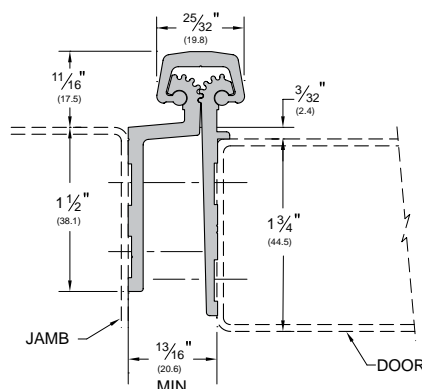
AVAILABLE FINISHES: **BL, C, D, PW, SN**



Full Mortise Short Leaf Inset Safety

_FM_SLISF

AVAILABLE FINISHES: **BL, C, D, PW, SN**



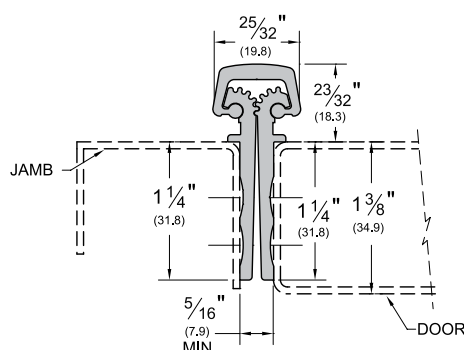
Full Mortise Hinge for 1 3/8" Door

- More bearings than _RS138 hinge to work in commercial grade application
- Shorter leaves for thinner doors

Full Mortise

FM_SLF138

AVAILABLE FINISHES: **BL, C, D, PW, SN**



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
PW (Painted White) and **SN** (Satin Nickel) are special finishes available upon request.

Wide Throw Full Mortise Hinge

- Wide Throw Full Mortise units are designed mainly for new door applications that require extra clearance due to special frame, door or wall design, and are applied to the frame rabbet and door edge to conceal both leaves
- More clearance between the door and frame when door is open 180°
- Available only in heavy duty to support larger doors

Wide Throw Full Mortise

WT_FM

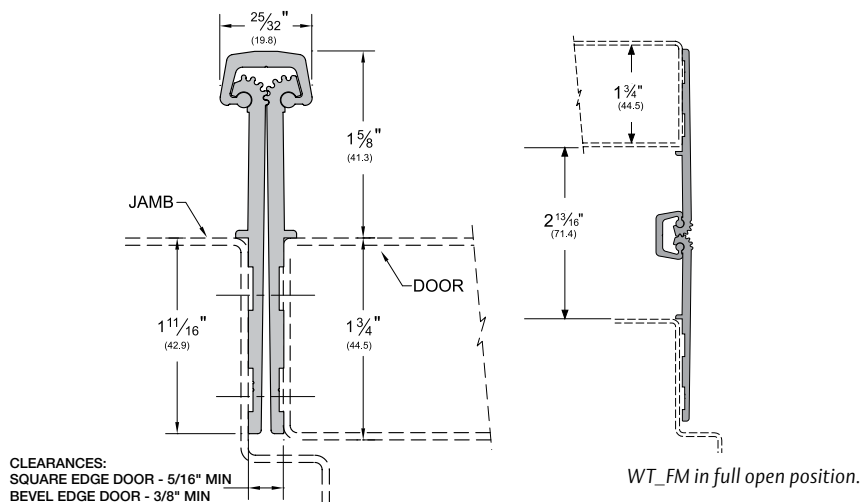
AVAILABLE FINISHES: C, D, G



BHMA
CERTIFIED



LISTED
DOOR HINGE
76Y2



Wide Throw Half Surface Hinge

- Wide Throw Half Surface units are designed mainly for retrofit applications that require extra clearance due to special frame, door, or wall design and are applied to the frame rabbet and the exposed door surface
- Wide Throw Half Surface units combine the versatility of the Half Surface unit and the clearance of a Wide Throw hinge into one
- Replacement snap cover is C1 for Clear Anodized or D1 for Dark Bronze Anodized

Wide Throw Half Surface

WT_HS

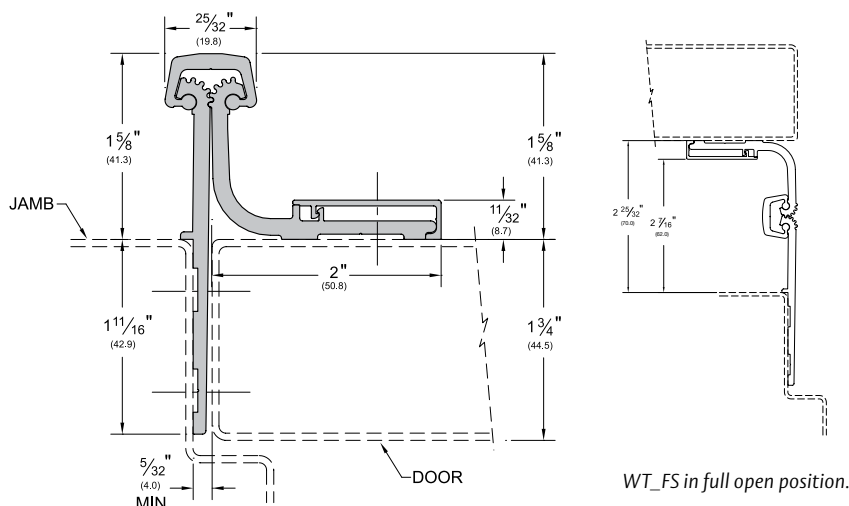
AVAILABLE FINISHES: C, D, G



BHMA
CERTIFIED



LISTED
DOOR HINGE
76Y2



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized)



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door opening solutions

Half Surface Hinge

- Half Surface units are designed mainly for retrofit work, and are applied to the exposed surface of the door and the frame rabbet
- Designed for use with hollow metal frames, where the inset conforms to S.D.I. specifications for aligning doors and frames

- Allows for adjustments in order to properly align edge of the door to the frame
- Replacement snap cover is C1 for Clear Anodized or D1 for Dark Bronze Anodized

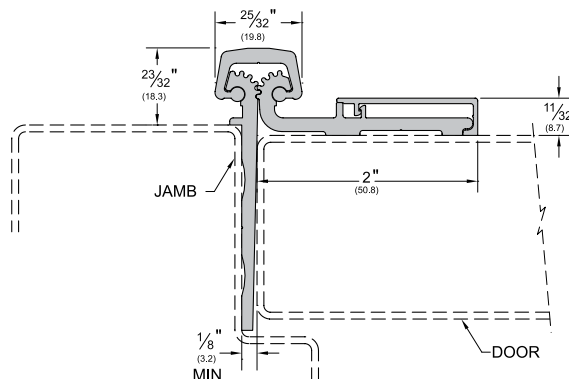
Half Surface

_HS

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



LISTED
DOOR HINGE
76Y2



Half Surface Safety Hinge

- Half Surface Safety units are designed mainly for retrofit work in child care and nursing facilities and are applied to the exposed surface of the door and the frame rabbet
- Replacement snap cover is C1 for Clear Anodized or D1 for Dark Bronze Anodized

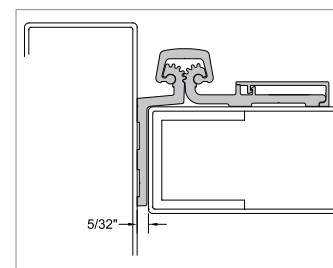
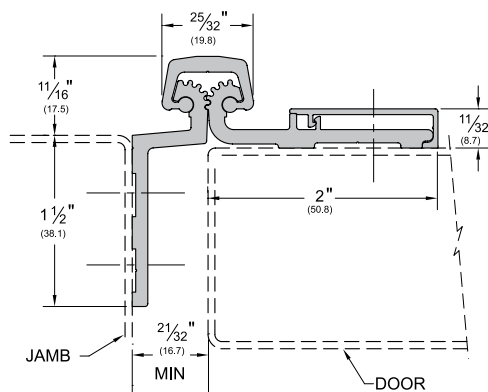
Half Surface Safety

_HS_SF

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



LISTED
DOOR HINGE
76Y2



HS_SF in deep frame application is no longer a safety hinge

Half Mortise Hinge

- Half Mortise units are designed mainly for retrofit work and are applied to the exposed surface of the frame and the door edge
- Designed to require only $\frac{5}{32}$ " clearance instead of $\frac{5}{16}$ " and also allows for adjustments to properly align edge of the door to the frame face
- Replacement snap cover is C29316 for Clear Anodized or D29316 for Dark Bronze Anodized

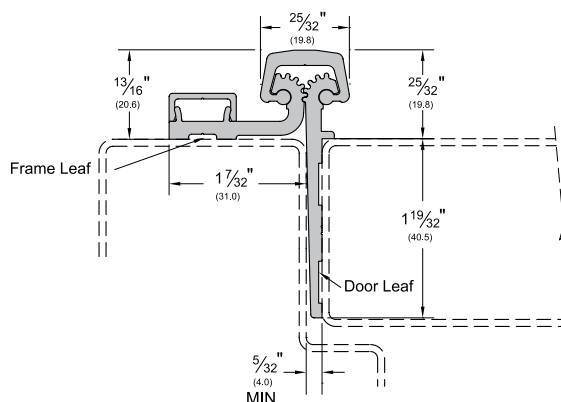
Half Mortise

_HM

AVAILABLE FINISHES: C, D, G



LISTED
DOOR HINGE
76Y2



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized)
PW (Painted White) and SN (Satin Nickel) are special finishes available upon request.

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Standard Full Surface Hinge

- Full Surface units are designed mainly for retrofit work, and are applied to the exposed surfaces of the door and frame
- Replacement snap cover is C1 for Clear Anodized or D1 for Dark Bronze Anodized

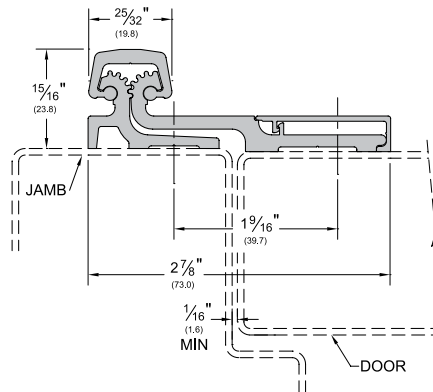
Full Surface

_FS

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



LISTED
DOOR HINGE
76Y2



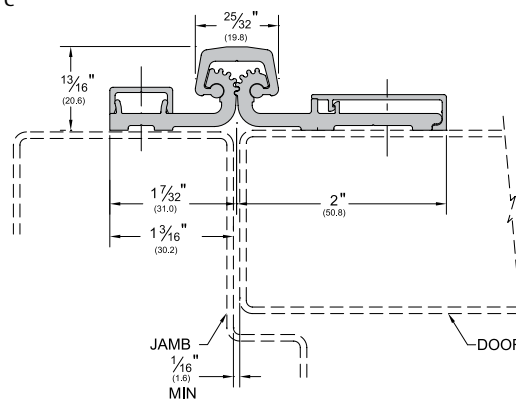
Full Surface Center Pivot Hinge

- Full Surface Center Pivot units are designed mainly for retrofit work and are applied to the exposed surfaces of the door and frame
- Full Surface Center Pivot units easily replace butt hinges since no door or frame adjustments are necessary and are more versatile with restricted frame faces
- Replacement snap cover for door leaf is C1 for Clear Anodized or D1 for Dark Bronze Anodized. Replacement snap cover for frame leaf is C29316 for Clear Anodized or D29316 for Dark Bronze Anodized

Full Surface Center Pivot

_FS_CP

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



Full Surface Balanced Pivot Hinge

- Allows for easy replacement from butt hinges as the pivot point remains the same and no door or frame adjustments are necessary
- No template adjustments are needed for existing door opening/closing devices
- Equal length leaves provide an aesthetic appearance
- Good in a bi-fold application where two doors need to be hinged
- Replacement snap cover for either leaf is C1 for Clear Anodized or D1 for Dark Bronze Anodized

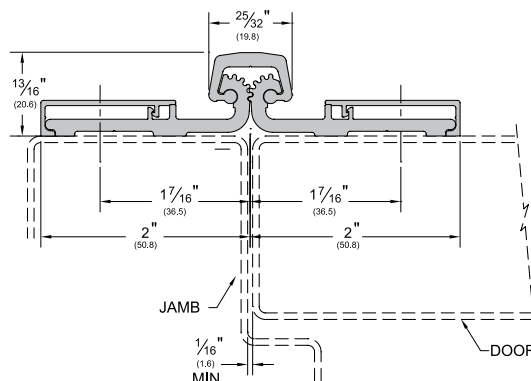
Full Surface Balanced Pivot

_FS_BP

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



LISTED
DOOR HINGE
76Y2



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

BL (Black Anodized) C (Clear Anodized) D (Dark Bronze Anodized)
PW (Painted White) and SN (Satin Nickel) are special finishes available upon request.

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Full Mortise Residential Hinges

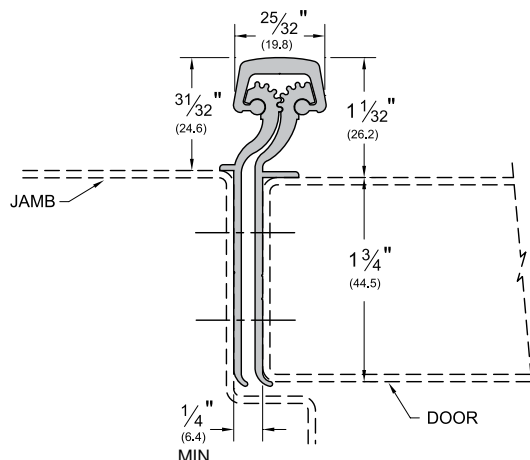
- Full Mortise Residential units are designed mainly for new door and frame applications, and are applied to conceal both leaves

NOTE: All RS series hinges are excluded from the "LIFE OF THE OPENING" guarantee, and instead carry a ten (10) year warranty

_RS175

AVAILABLE FINISHES: C, D

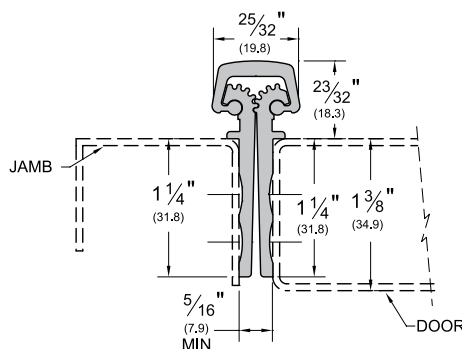
- Designed for $1\frac{3}{4}$ " MAXIMUM thickness with a weight up to 90 lbs.



_RS138

AVAILABLE FINISHES: C, D

- Shorter leaves for thinner doors
- Designed for doors $1\frac{3}{8}$ " thick with a weight limit up to 90 lbs.



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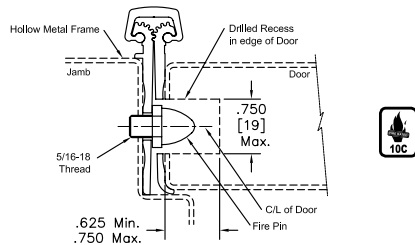
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door opening solutions

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized)

FirePins For Use With 3-Hour Fire Rated Assemblies

- FirePins™ are required to achieve 3-hour fire rating
- Although PemkoHinge™ Continuous Hinges carry UL Fire Ratings unequaled in the industry, some applications may require the use of FirePins™
- FirePin™ applications fall within the UL guidelines for retro-fitting assemblies in the field. Expensive shop modifications and door/frame reinforcements are not required
- FirePins™ also add extra security to a door assembly

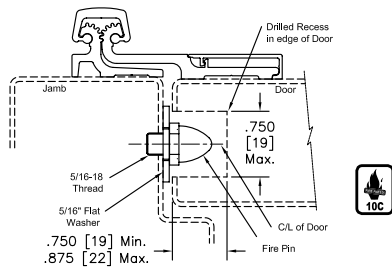
Full Mortise Hinges



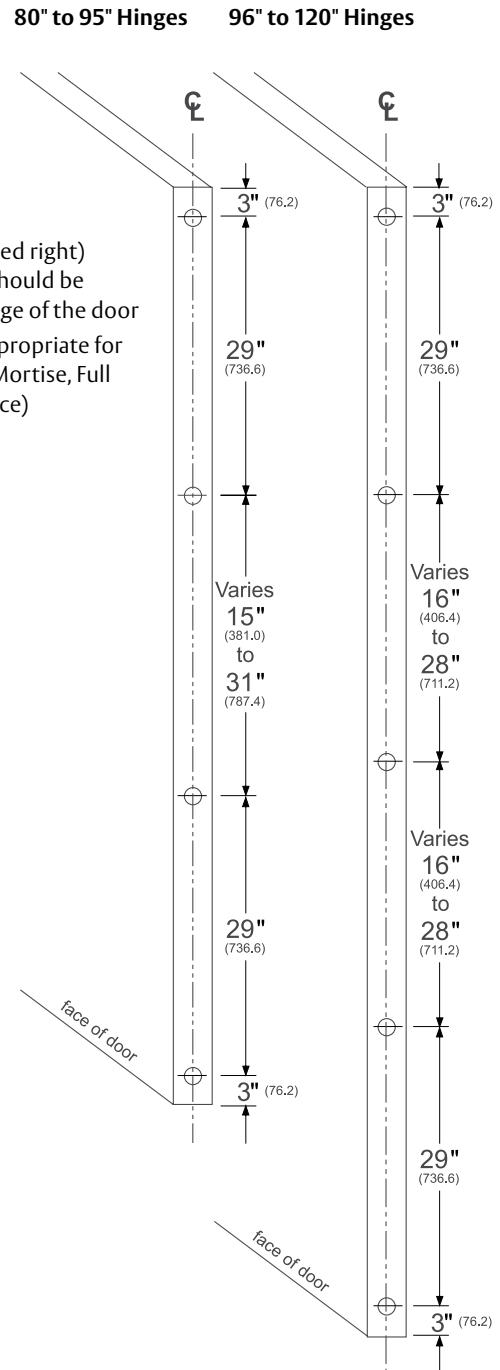
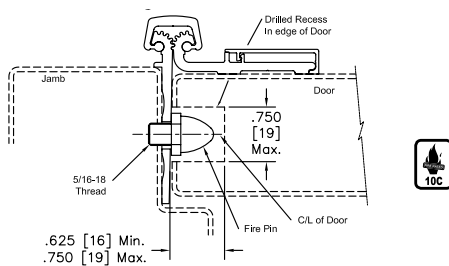
FirePin Locations

- The locations (illustrated right) indicate where holes should be drilled on the hinge edge of the door
- These locations are appropriate for all hinge models (Full Mortise, Full Surface, and Half Surface)

Full Surface Hinges



Half Surface Hinges



Double Swing Hinge and Emergency Release Stop

- Innovative healthcare solution that permits quick door opening in an emergency situation
- Double Swing Hinge has a unique 100° swing and allows the door to swing in either direction
- Emergency Release Stop features a special flush bolt that is used to release the door in an emergency situation. Hospital tip is standard.
- The Double Swing Hinge and Emergency Release Stop are accepted by the New York State Office of Mental Health (OMH) for use in high risk areas.

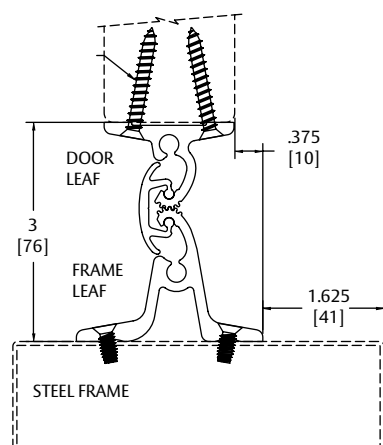
Double Swing Hinge

- Meets the cycle test requirements for ANSI/BHMA A156.26 for Continuous Hinges.
- Meets the barrier free requirements of ICC/ANSI A117.1 and ADAAG (2010)

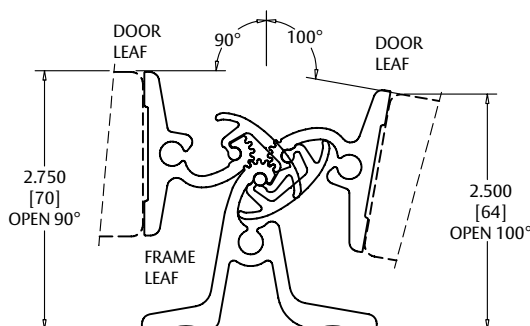
DSH_

AVAILABLE FINISHES: C, D

- Designed for 1 $\frac{3}{4}$ " MAXIMUM thickness with a weight up to 90 lbs.



Hinge Size	Opening	Clear Anodized
84"	7' 0"	DSHP01C-84
96"	8' 0"	DSHP01C-96
120"	10' 0"	DSHP01C-120

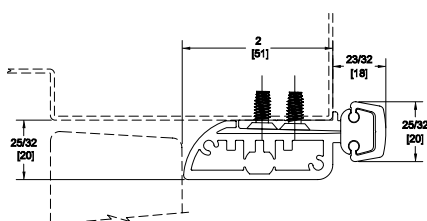


Emergency Release Stop

- Minimum 2 $\frac{3}{4}$ " backset for hardware trim
- To avoid using the extended lip strike, use a single rabbit jamb on strike side of frame.

ERS_

AVAILABLE FINISHES: C, D



Hinge Size	Opening	Clear Anodized – Left Hand	Clear Anodized – Right Hand
84"	7' 0"	ERS84CxHT-LH	ERS84CxHT-RH
96"	8' 0"	ERS96CxHT-LH	ERS96CxHT-RH
120"	10' 0"	ERS120CxHT-LH	ERS120CxHT-RH



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized)

Power Transfers

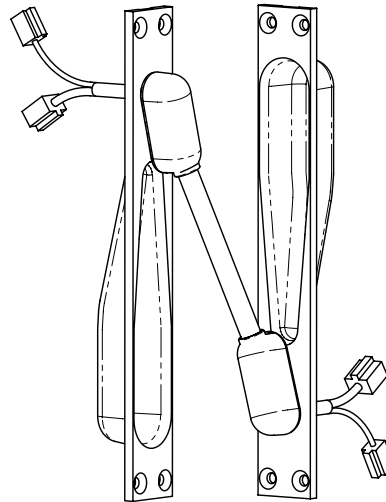
- These Securiton electronic power transfer units fit into doors and frames to transfer power from your power supply to the door-mounted electronic device

- Contact your hinge manufacturer for cutout availability

EL-CEPT

AVAILABLE COLORS:
US32D, US10B

- Mortises into the edges of the door and frame
- Tamper-resistant; no exposed openings
- All metal construction, including backboxes
- $\frac{7}{8}$ " knockouts on back boxes to accommodate EMF-type fitting
- 12-wire configuration with ElectroLynx compatible connectors
- Tested to 1,000,000 cycles
- Will not work on center-hung or balanced doors
- Works with most continuous hinges, up to 6" wide
- UL10B and UL10C listed



EL-EPT

AVAILABLE COLORS:
US2C

- Installs in the door and frame edges
- Flexible steel shield protects wires— $\frac{3}{8}$ " (9.5mm) I.D.
- New universal device; works with most butt and continuous hinges
- Not for use with center pivot doors or with pivot hinges with offset greater than $\frac{3}{4}$ "
- UL634, UL10B, UL10C Listed
- ANSI A250.13-2003-Windstorm Resistant



EL-EPTL

AVAILABLE COLORS:
US2C

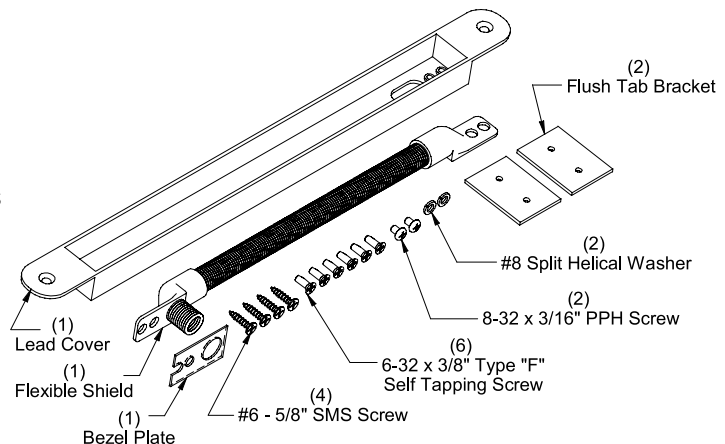
- Installs in the door and frame edges
- Flexible steel shield protects wires— $\frac{3}{8}$ " (9.5mm) I.D.
- New universal device; works with most butt and continuous hinges
- Not for use with center pivot doors or with pivot hinges with offset greater than $\frac{3}{4}$ "
- UL634, UL10B, UL10C Listed
- ANSI A250.13-2003-Windstorm Resistant



EL-EPT-SC

AVAILABLE COLORS:
US2C

- Installs in the door and frame edges
- Flexible steel shield protects wires— $\frac{3}{8}$ " (9.5mm) I.D.
- New universal device; works with most butt and continuous hinges
- Functions on off-set pivot and swing clear hinged doors
- UL634, UL10B, UL10C Listed
- ANSI A250.13-2003-Windstorm Resistant



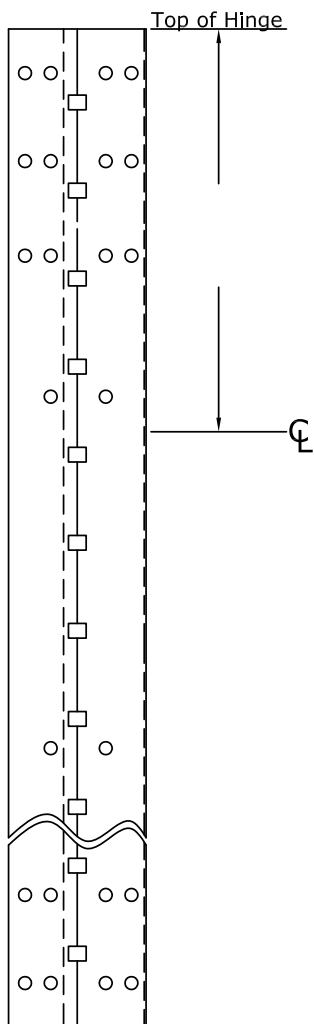
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PEMKO PT Information Form

In order to assign an accurate ship date and begin production of your order, please provide us with the information requested. We appreciate your cooperation and time to assist us in providing you with the type of product that will meet your requirements.

ALL PT LOCATIONS ARE REQUIRED FROM TOP OF DOOR TO CENTERLINE OF PREP



Company Name: _____
 Contact Name: _____
 P.O.#: _____
 Job Name: _____
 Phone Number: _____
 Fax Number: _____

CTP (Power Transfer Model)

- ☐ Pemko/Markar EL-CEPT
☐ Pemko/Markar EL-EPT ***
☐ Pemko/Markar EL-EPTL ***
☐ Pemko/Markar EL-EPT-SC
☐ Securitron CEPT
☐ Securitron EPT/Adams Rite 4612-1 ***
☐ Securitron EPTL/Adams Rite 4612-2 ***
☐ Securitron EPT-SC/Adams Rite 4612-SC
☐ Von Duprin EPT-2 & EPT-10
☐ Precision ***
☐ Other (Template Needed) _____

*** Specify Hinge Leaf to Receive Mortise Prep (needed)

- ☐ Frame Leaf
☐ Door Leaf

Hinge Length: _____

RHR/LH: _____

LHR/RH: _____

Notes: _____

Order acknowledgement will be sent after all information requirements are met to determine a ship date

REV. C, 08/14

Manufacturer reserves the right to make changes without formal notice. Contact Engineering for latest revision.

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**TRADEMARK
HARDWARE**
WWW.TMHARDWARE.COM

ERS_x DSH_ - Customer Form

PLEASE FILL IN ALL BOXES BELOW WITH THE RELEVANT INFORMATION. ALL BOXES MUST BE FILLED IN TO ENSURE YOU RECEIVE THE CORRECT DSH HINGE

PLEASE PROVIDE YOUR PO#

DOOR HANDING: RH/LH

WILL THERE BE A THRESHOLD? Y/N
IF YES, DESCRIBE BELOW:

CHECK ONE

☐ SER (SER4, SER8 OR SER12) (LOCATED TOP OF HINGE)

☐ FRAME & DOOR LEAF FLUSH (BOTTOM OF HINGE)

☐ FRAME & DOOR LEAF OFFSET (BOTTOM OF HINGE)

FRAME HEIGHT

BACKSET

LOCKSET & TRIM PART NUMBERS (DESCRIPTION)

DOOR UNDERCUT

ERS 1/8" PIVOT POINT

5/16"

2"

CASE FRAME STRIKE SIDE (OR SINGLE RABBIT OPTIONAL)

1/8" MIN.

36" FRAME OPENING

DSH 1 3/4" PIVOT POINT

3"

1 5/8"

3/8"

2 1/2"

1 1/4"

1 3/4"

REV. 5, 04/28/14

Manufacturer reserves the right to make changes without formal notice. Contact Engineering for latest revision.



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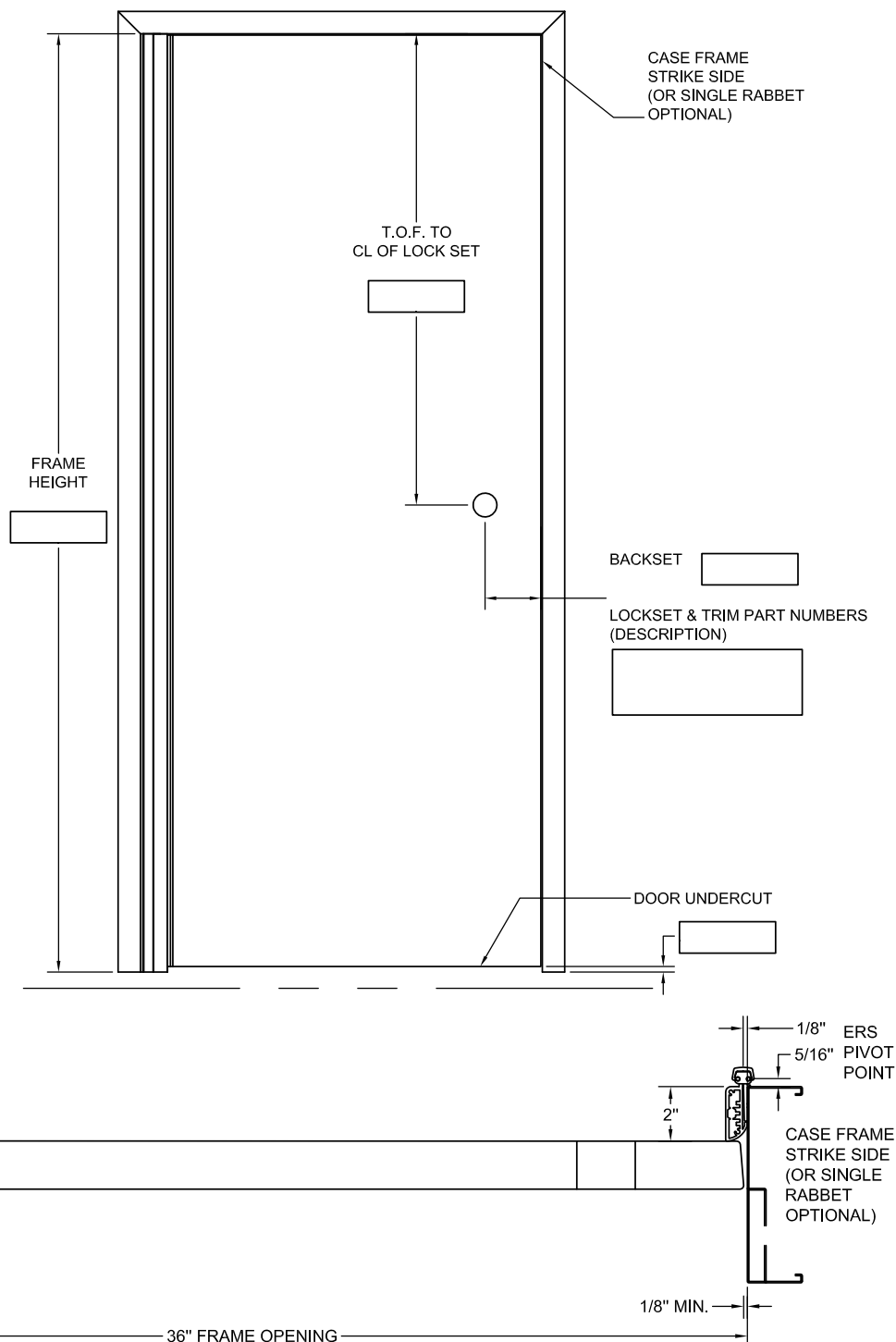
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ERS – Customer Form

PLEASE FILL IN ALL BOXES BELOW WITH THE RELEVANT INFORMATION. ALL BOXES MUST BE FILLED IN TO ENSURE YOU RECEIVE THE CORRECT ERS HINGE

PLEASE PROVIDE YOUR PO#

DOOR HANDING: RH/LH -



REV. 4, 01/10/14

Manufacturer reserves the right to make changes without formal notice. Contact Engineering for latest revision.

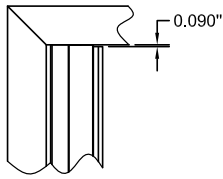
ASSA ABLOY

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door opening solutions



DSH_ - Customer Form

PLEASE FILL IN ALL BOXES BELOW WITH THE RELEVANT INFORMATION. ALL BOXES MUST BE FILLED IN TO ENSURE YOU RECEIVE THE CORRECT DSH HINGE



PLEASE PROVIDE YOUR PO#

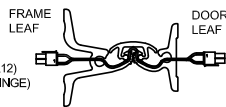
DOOR HANDING: RH/LH

WILL THERE BE A THRESHOLD? Y/N
IF YES, DESCRIBE BELOW:

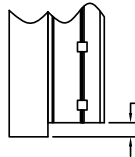
CHECK ONE

☐

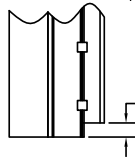
SER
(SER4, SER8 OR SER12)
(LOCATED TOP OF HINGE)


☐

FRAME & DOOR
LEAF FLUSH
(BOTTOM OF HINGE)

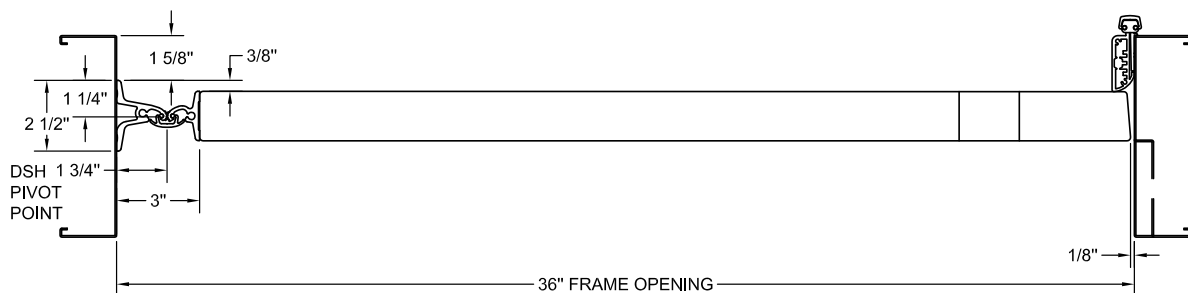

☐

FRAME & DOOR
LEAF OFFSET
(BOTTOM OF HINGE)



FRAME
HEIGHT

DOOR UNDERCUT



REV. 5, 04/28/14

Manufacturer reserves the right to make changes without formal notice. Contact Engineering for latest revision.



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COMMERCIAL THRESHOLDS

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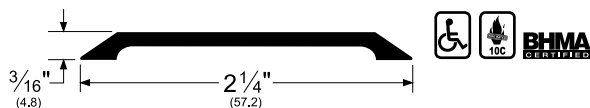
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Saddle Thresholds

- To use a saddle threshold in an offset condition, use an elevator (see page 135)

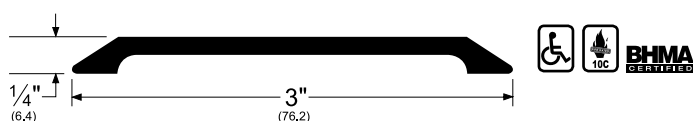
173_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32300, J32330**
ANSI (brass): **J12300, J12330**



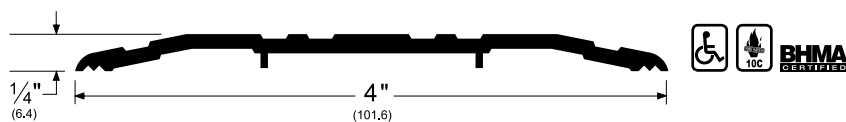
151_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32300, J32330**
ANSI (brass): **J12300, J12330**



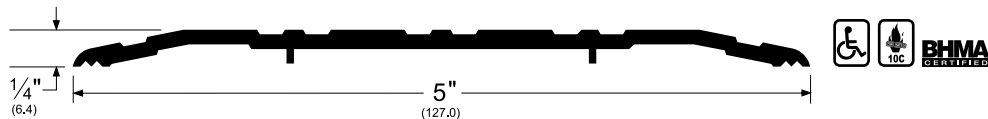
270_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32100, J32130**
ANSI (brass): **J12300, J12330**



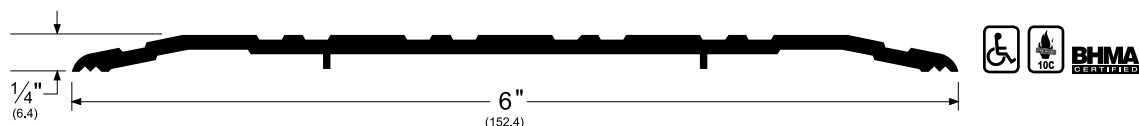
271_

AVAILABLE FINISHES: **A, B, D, G, SN**
ANSI (aluminum): **J32100, J32130**
ANSI (brass): **J12100, J12130**



272_

AVAILABLE FINISHES: **A, B, D, G, SN**
ANSI (aluminum): **J32100, J32130**
ANSI (brass): **J12100, J12130**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
SN (Satin Nickel Anodized)

NOTE: **G, SN** are available with limited inventory

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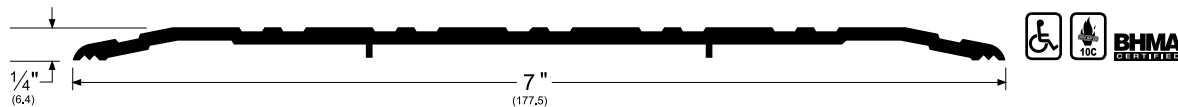
Saddle Thresholds (Cont.)

276_

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32100, J32130, J39100, J39130, J39135, J39150

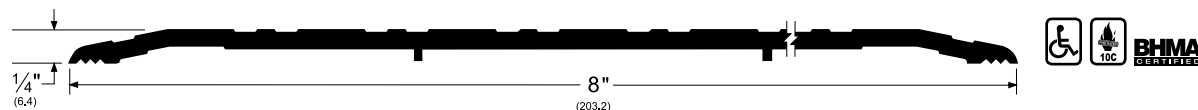
ANSI (brass): J12100, J12130, J19100, J19130, J19135, J19150



2748_

AVAILABLE FINISHES: A, D, G

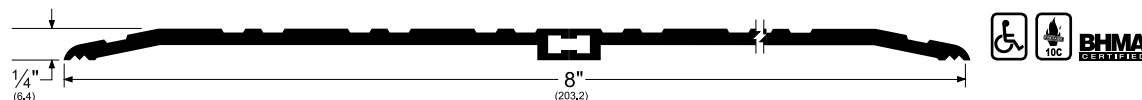
ANSI (aluminum): J32100, J32130, J39100, J39130, J39135, J39150



274x4_

AVAILABLE FINISH: B

ANSI (brass): J12100, J12130, J19100, J19130, J19135, J19150

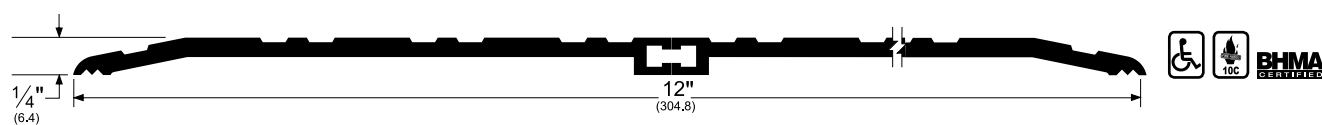


Welded on bottom.

2746x6_

AVAILABLE FINISHES: A, D, G

ANSI (aluminum): J32100, J32130

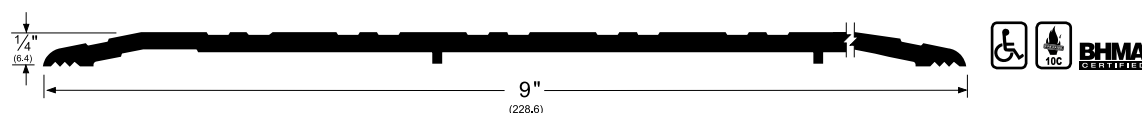


Welded on bottom.

2749_

AVAILABLE FINISHES: A, D, G

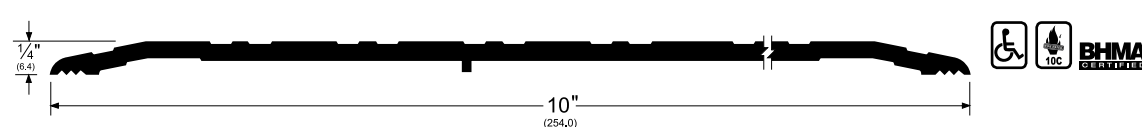
ANSI (aluminum): J32100, J32130



2750_

AVAILABLE FINISHES: A, D, G

ANSI (aluminum): J32100, J32130



Includes two support legs (only one shown due to break in drawing)



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)

NOTE: G is available with limited inventory

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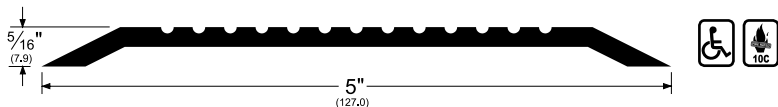
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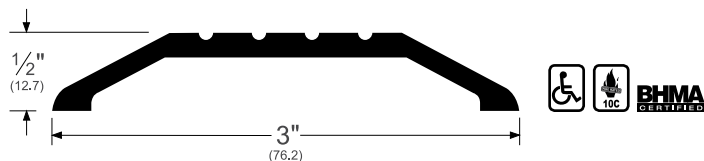
Saddle Thresholds (Cont.)

1665_

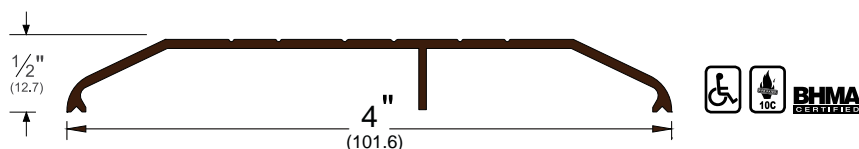
AVAILABLE FINISHES: A, D, G



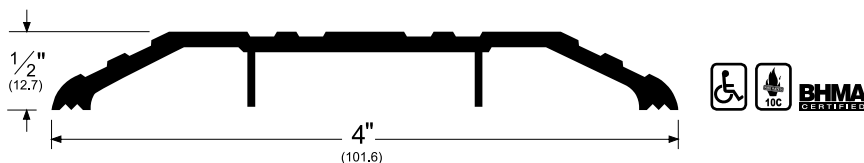
169_

AVAILABLE FINISHES: A, D, G
ANSI (aluminum): J32100, J32130

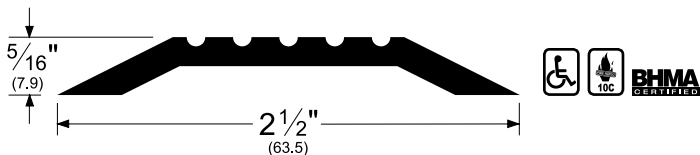
1700_

AVAILABLE FINISH: A
ANSI (aluminum): J32100, J32130

170_

AVAILABLE FINISHES: A, B, BDG D, G
ANSI (aluminum): J32100, J32130
ANSI (brass): J12100, J12130

166_

AVAILABLE FINISHES: A, D, G
ANSI (aluminum): J32100, J32130

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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized) D (Dark Bronze Anodized) G (Gold Anodized)

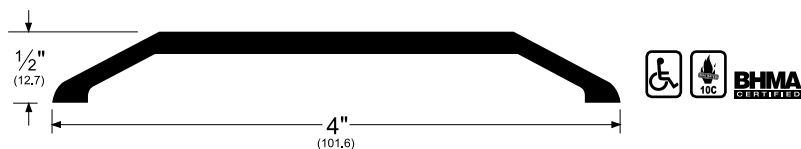
NOTE: G is available with limited inventory

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Saddle Thresholds (Cont.)

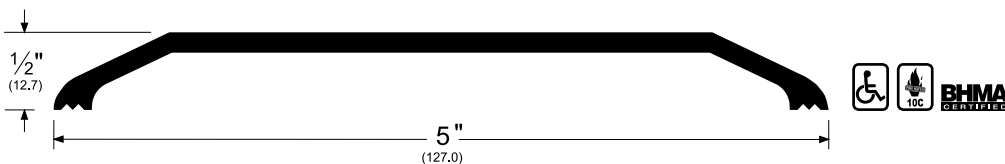
175_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32300, J32330**
ANSI (brass): **J12300, J12330**



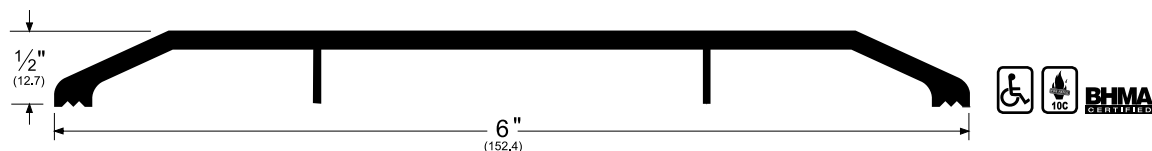
154_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



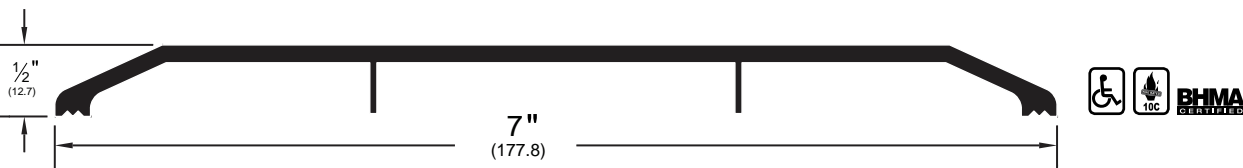
1546_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



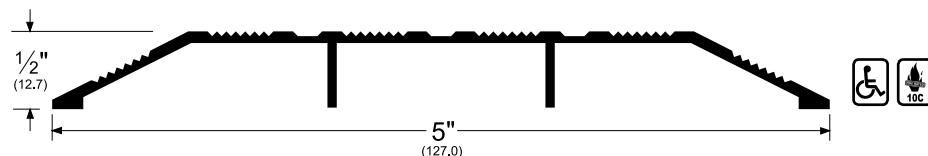
1547_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



1710_

AVAILABLE FINISH: **A**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

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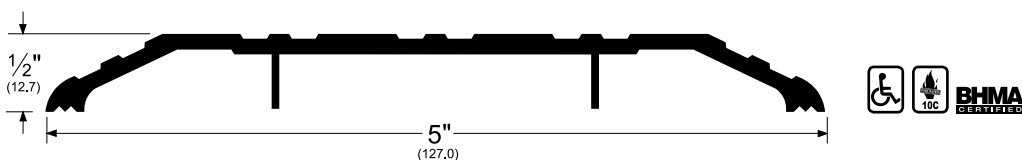
Saddle Thresholds (Cont.)

171_

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

ANSI (aluminum): J32100, J32130

ANSI (brass): J12100, J12130

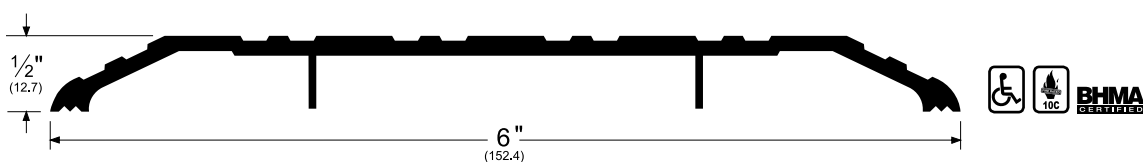


172_

AVAILABLE FINISHES: A, B, D, G, SN

ANSI (aluminum): J32100, J32130

ANSI (brass): J12100, J12130

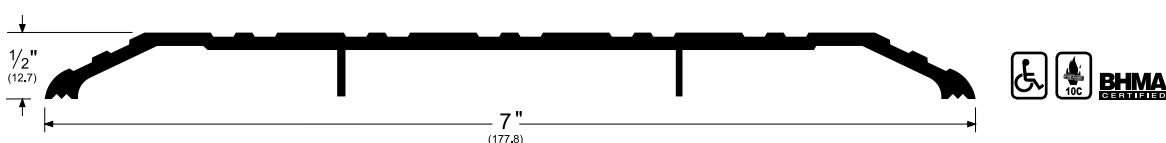


176_

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32100, J32130, J39100, J39130, J39135, J39150

ANSI (brass): J12100, J12130, J19100, J19130, J19135, J19150



2548_

AVAILABLE FINISHES: A, D, G

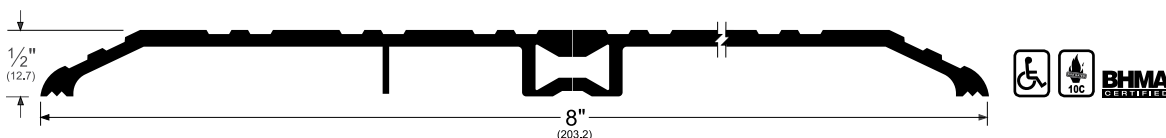
ANSI (aluminum): J32100, J32130, J39100, J39130, J39135, J39150



254x4_

AVAILABLE FINISH: B

ANSI (brass): J12100, J12130, J19100, J19130, J19135, J19150



Includes two support legs (only one shown due to break in drawing)



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized)

D (Dark Bronze Anodized) G (Gold Anodized) SN (Satin Nickel Anodized)

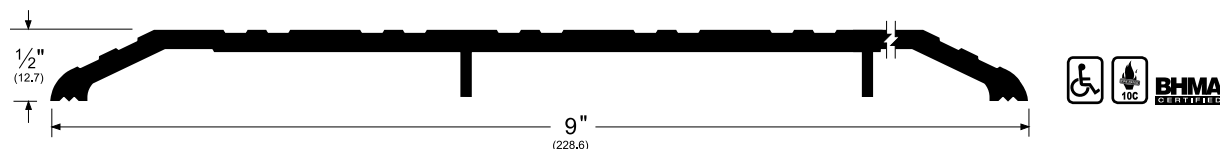
NOTE: G, SN are available with limited inventory

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Saddle Thresholds (Cont.)

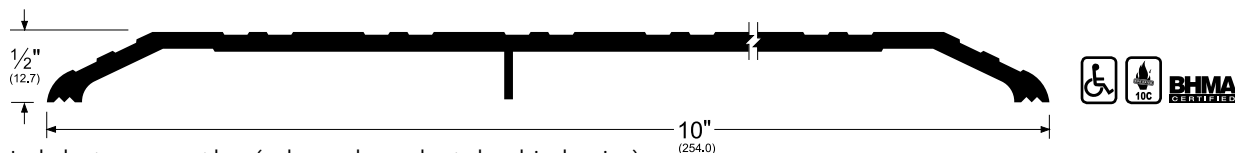
2549_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32130**



2550_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32130**



Includes two support legs (only one shown due to break in drawing)

255x5_

AVAILABLE FINISH: **B**
ANSI (brass): **J12100, J12130**



Welded on bottom. Includes two support legs (only one shown due to break in drawing)

256x6_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32130**



Welded on bottom. Includes two support legs (only one shown due to break in drawing)

198_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32100**
ANSI (brass): **J12100**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

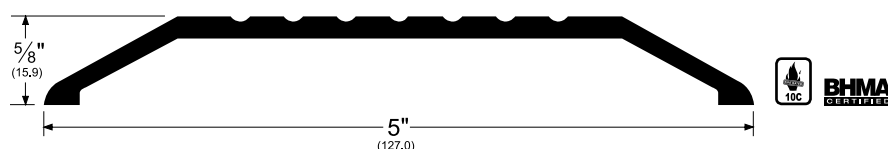
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Saddle Thresholds (Cont)

156_

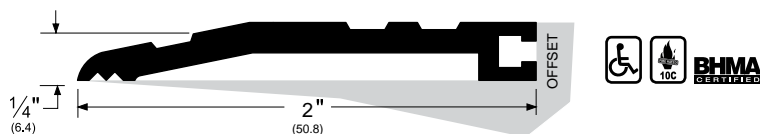
AVAILABLE FINISHES: A, D, G
ANSI (aluminum): J32100

Half Saddle Thresholds

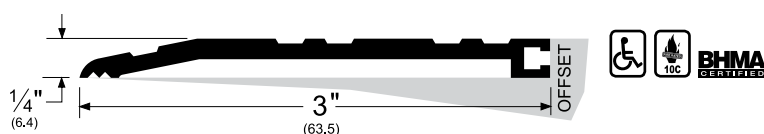
278_

AVAILABLE FINISHES: A, D, G
ANSI (aluminum): J33100, J33130, J33133

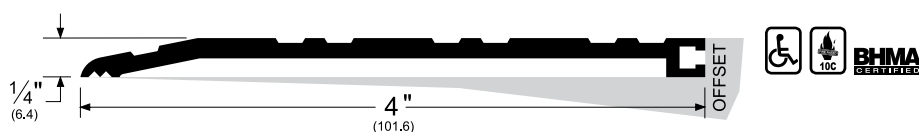
279_

AVAILABLE FINISHES: A, D
ANSI (aluminum): J33100, J33130, J33133

273_

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J33100, J33130, J33133
ANSI (brass): J13100, J13130, J13133

274_

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J33100, J33130, J33133
ANSI (brass): J13100, J13130, J13133

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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)

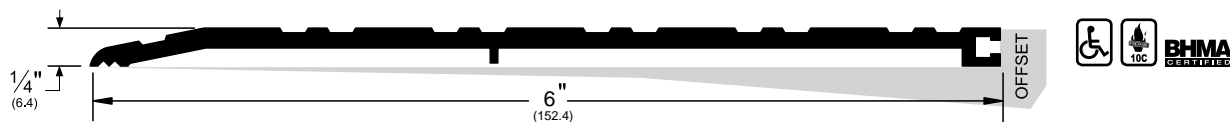
NOTE: G is available with limited inventory

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Half Saddle Thresholds

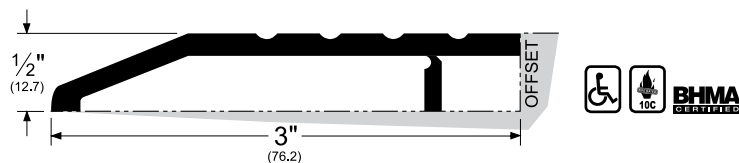
2746_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130, J33133**



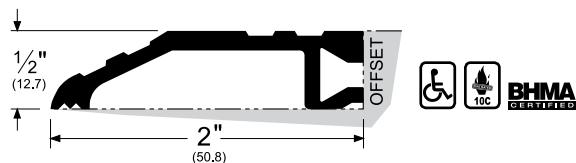
168_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130**



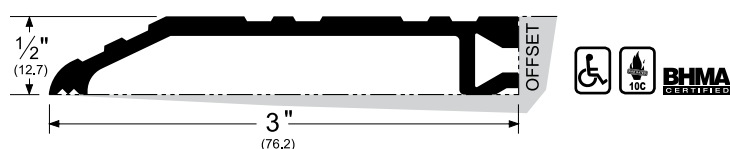
252_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J33100, J33130**
ANSI (brass): **J13100, J13130**



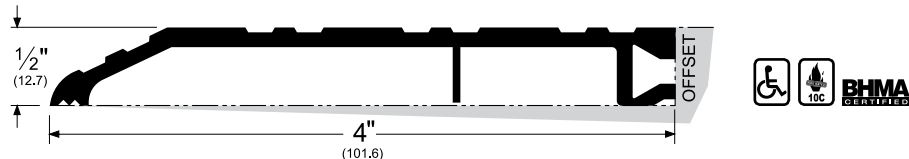
253_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J33100, J33130**
ANSI (brass): **J13100, J13130**



254_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J33100, J33130**
ANSI (brass): **J13100, J13130**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

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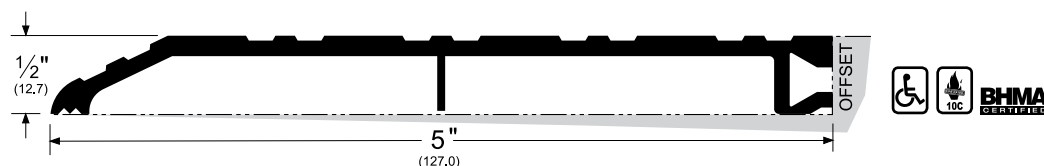
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Half Saddle Thresholds (Cont.)

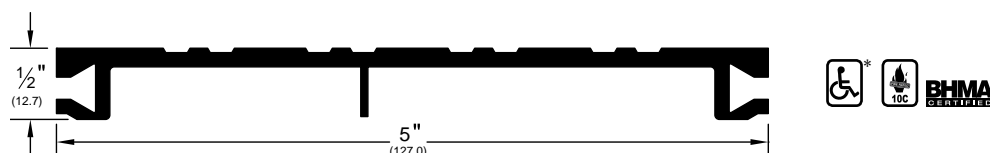
255_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J33100, J33130**
ANSI (brass): **J13100, J13130**



2555_

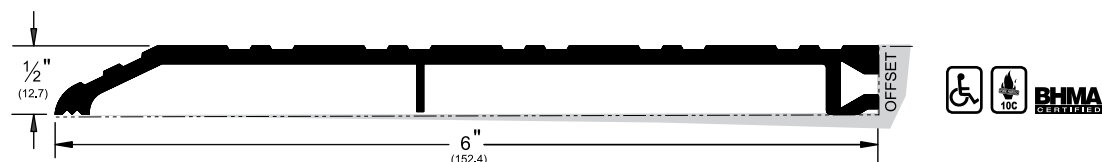
AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100**



* 2555_ can be combined with other half saddles on one or both sides. If combined only on one side, the opposite side should be mounted flush with an existing offset. Either stated application is required for this to be ADA-compliant.

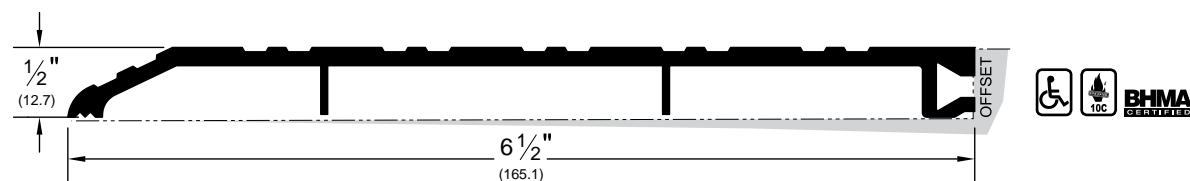
256_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130**



2565_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

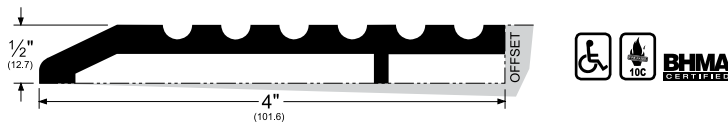
NOTE: **G** is available with limited inventory

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Half Saddle Thresholds (Cont.)

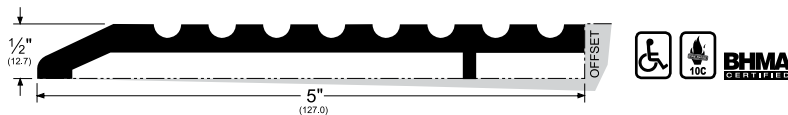
227_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J33100, J33130**
ANSI (brass): **J13100, J13130**



229_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130**



NOTE: the 227 and 229 can be welded to floor plates and supports (page 135), to create custom thresholds which have the same fluting pattern.

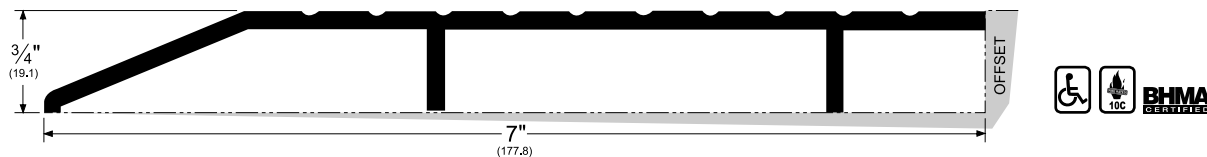
1875_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100**



1877_

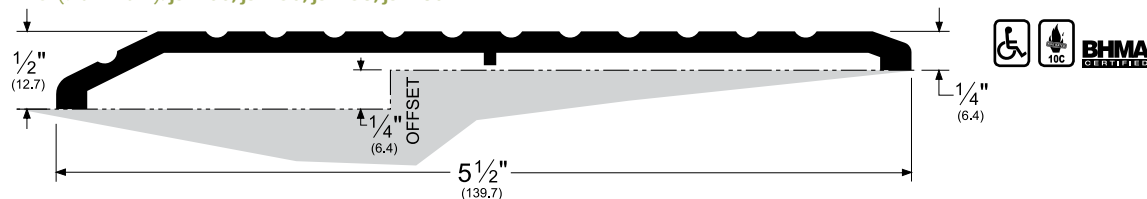
AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J33100, J33130**



Offset Saddles

158_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32130, J32138, J32180**



NOTE: Products shown in this section may not be drawn to scale.

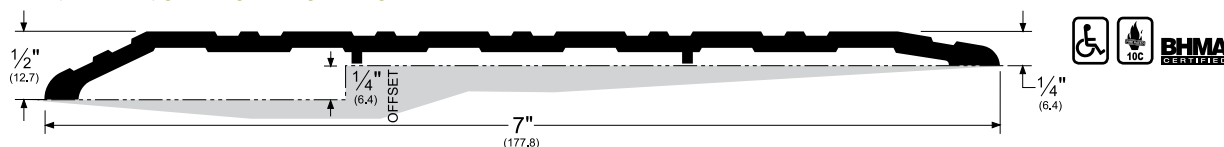
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

Offset Saddles (Cont.)

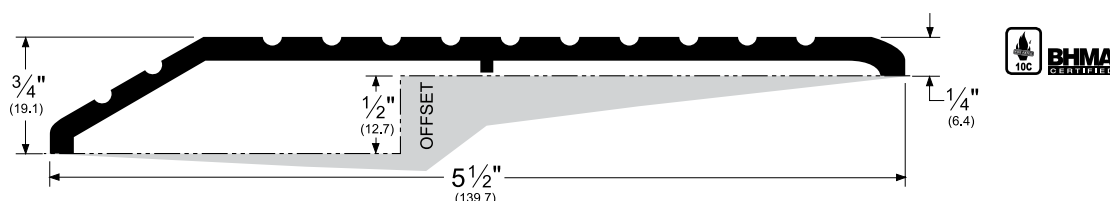
2727_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32130, J32138, J32180**



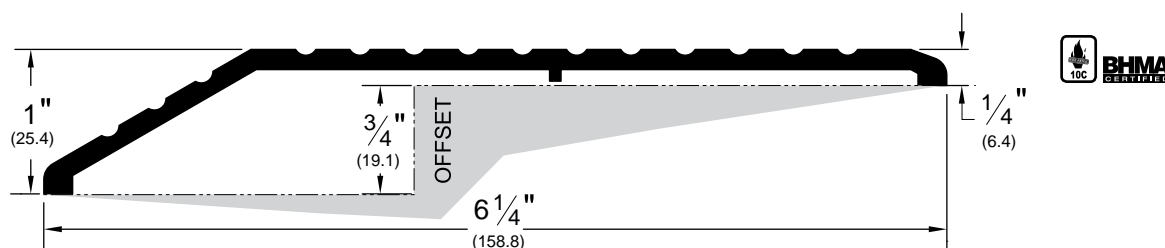
157_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32180, J33100**



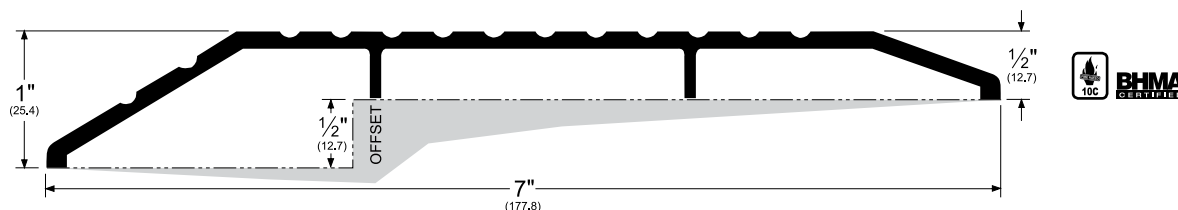
1571_

AVAILABLE FINISHES: **A, D**
ANSI (aluminum): **J32100, J32180, J33100**



182_

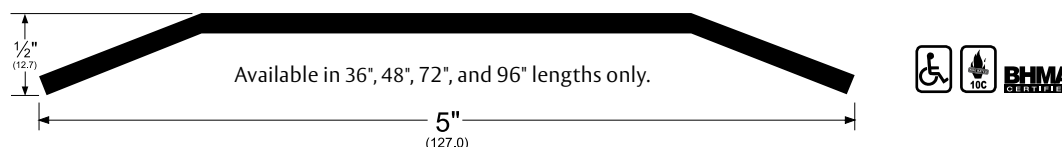
AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32100, J32180, J33100**



Stainless Steel Saddles

154SS_

AVAILABLE FINISH: **SS (#4, Brushed Finish)**
ANSI: **J52300, J52330**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **SS** (See Individual Part)

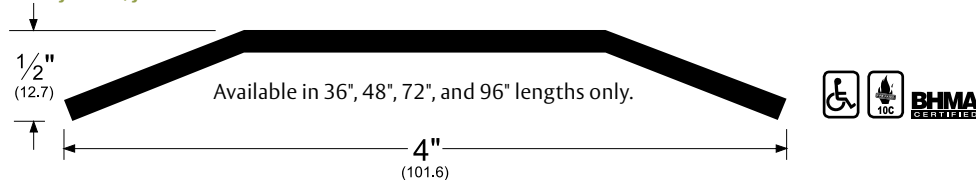
NOTE: **G** is available with limited inventory

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Stainless Steel Saddles (Cont.)

175SS_

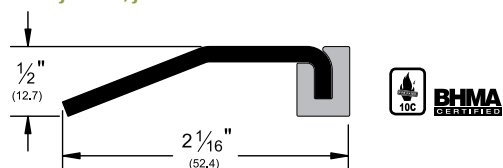
AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52330



Stainless Steel Half Saddles

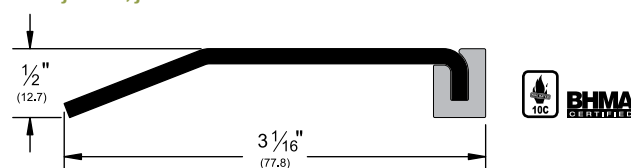
252SS_

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52330



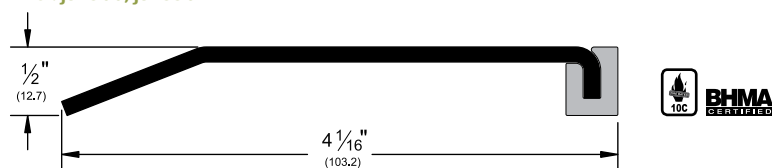
253SS_

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52330



254SS_

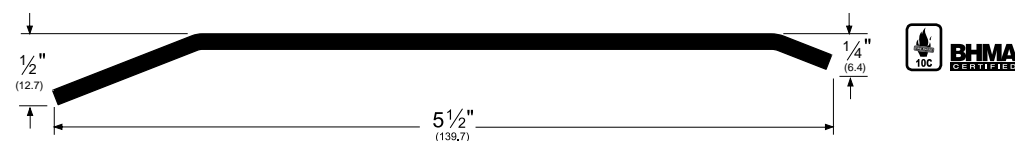
AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52330



Stainless Steel Offset Saddles

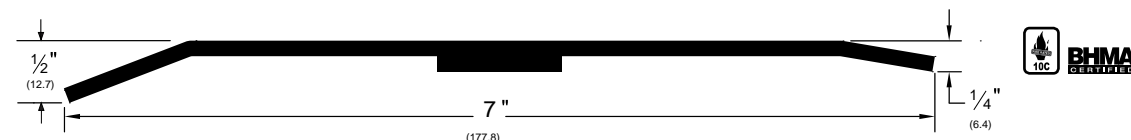
158SS_

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52380, J52388



2727SS_

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52300, J52380, J52388



NOTE: Products shown in this section may not be drawn to scale.

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



Thermal Barrier Saddles

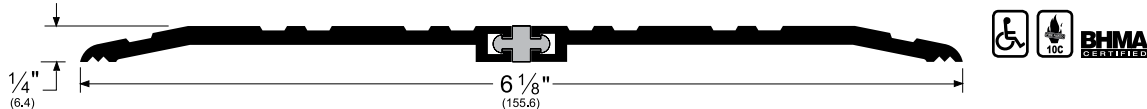
- Black rigid polypropylene key between extrusions provides a thermal barrier (designated by "FG" Frost Guard following finish code)

273x3_FG

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32139, J32190, J32193

ANSI (brass): J12139, J12190, J12193

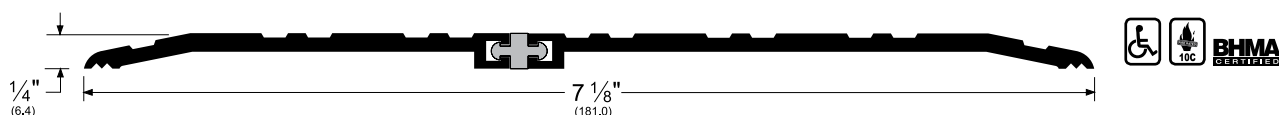


273x4_FG

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32139, J32190, J32193

ANSI (brass): J12139, J12190, J12193

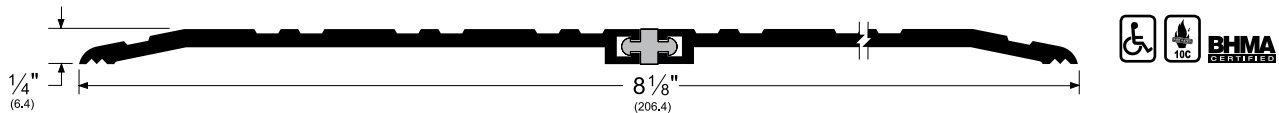


274x4_FG

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32139, J32190, J32193

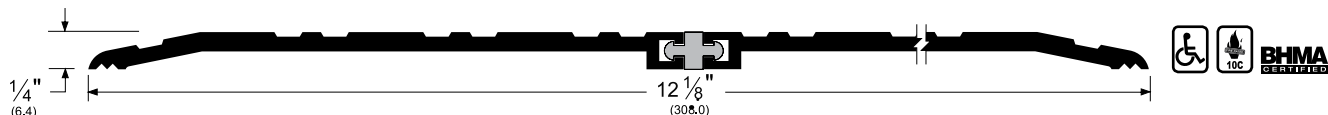
ANSI (brass): J12139, J12190, J12193



2746x6_FG

AVAILABLE FINISHES: A, D, G

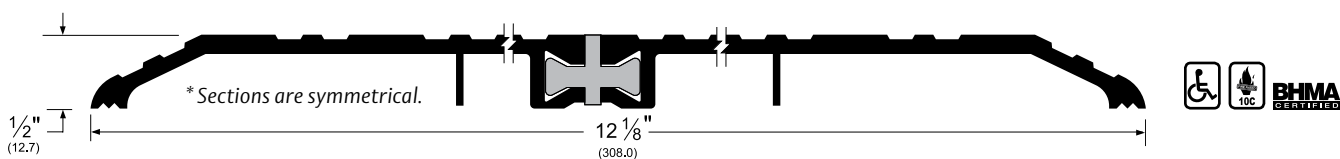
ANSI (aluminum): J32139, J32190, J32193



256x6_FG

AVAILABLE FINISHES: A, D, G

ANSI (aluminum): J32139, J32190, J32193



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)

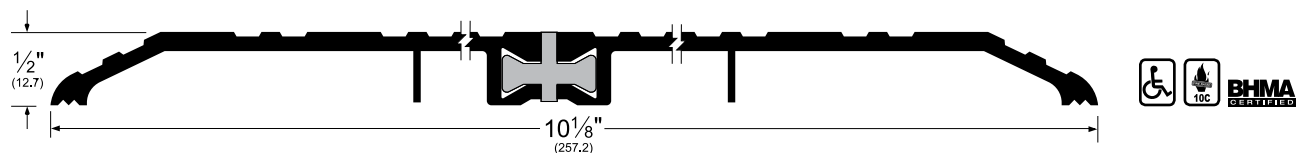
NOTE: G is available with limited inventory

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Thermal Barrier Saddles (Cont.)

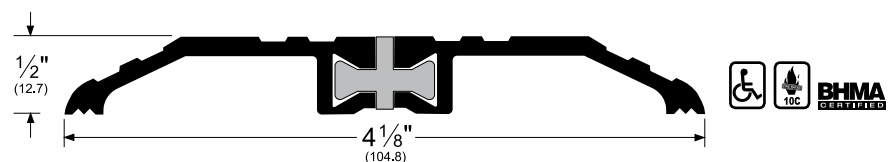
255x5_FG

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J32139, J32190, J32193
ANSI (brass): J12139, J12190, J12193



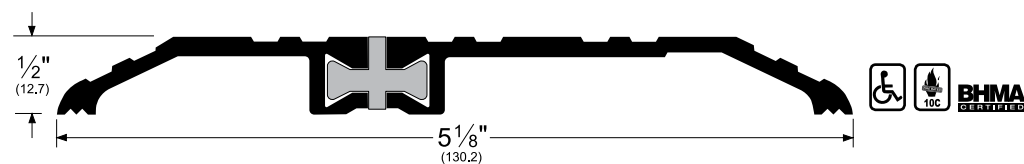
252x2_FG

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J32139, J32190, J32193
ANSI (brass): J12139, J12190, J12193



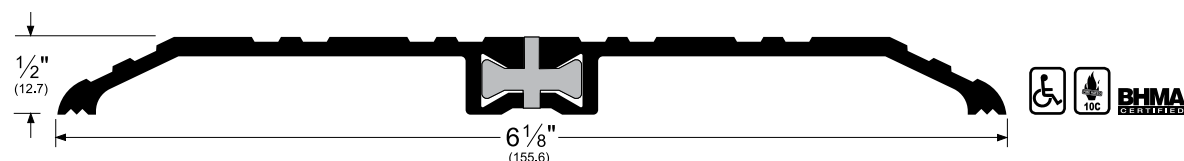
252x3_FG

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J32139, J32190, J32193
ANSI (brass): J12139, J12190, J12193



253x3_FG

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J32139, J32190, J32193
ANSI (brass): J12139, J12190, J12193



253x4_FG

AVAILABLE FINISHES: A, B, D, G
ANSI (aluminum): J32139, J32190, J32193
ANSI (brass): J12139, J12190, J12193



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)

NOTE: G is available with limited inventory

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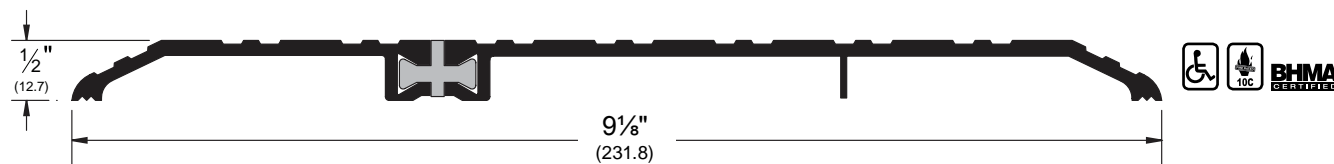
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Thermal Barrier Saddles (Cont.)

253x6_FG

AVAILABLE FINISHES: A, D, G

ANSI (aluminum): J32139, J32190, J32193

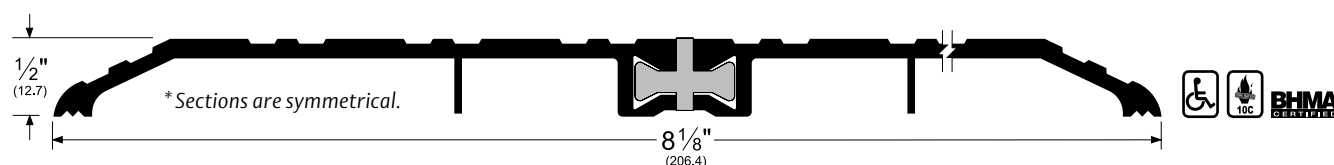


254x4_FG

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32139, J32190, J32193

ANSI (brass): J12139, J12190, J12193

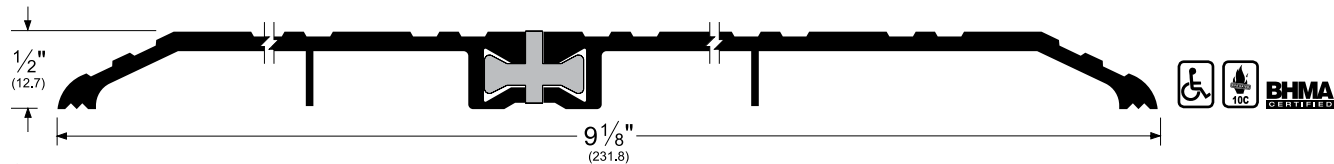


254x5_FG

AVAILABLE FINISHES: A, B, D, G

ANSI (aluminum): J32139, J32190, J32193

ANSI (brass): J12139, J12190, J12193



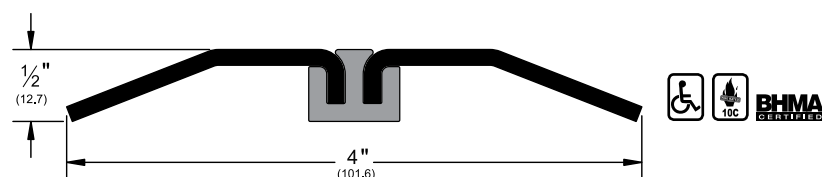
Stainless Steel Thermal Barrier Threshold

- Black rigid polypropylene key between extrusions provides a thermal barrier (designated by "FG" Frost Guard following finish code)

252x2SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)

ANSI: J52330, J52339, J52390, J52393



NOTE: Products shown in this section may not be drawn to scale.



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)
SS (See Individual Part)

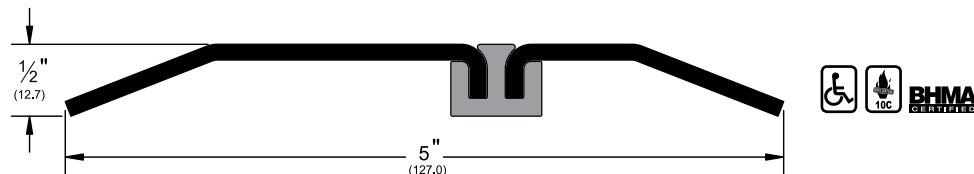
NOTE: G is available with limited inventory

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Stainless Steel Thermal Barrier Threshold (Cont.)

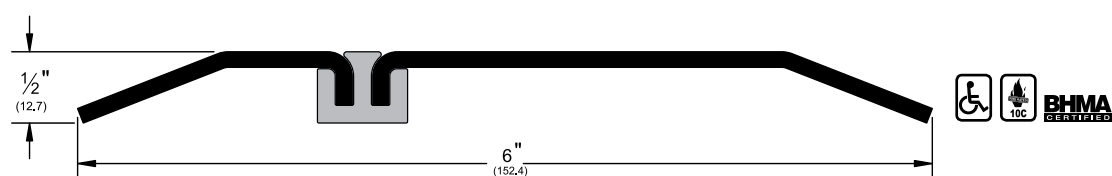
252x3SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52330, J52339, J52390, J52393



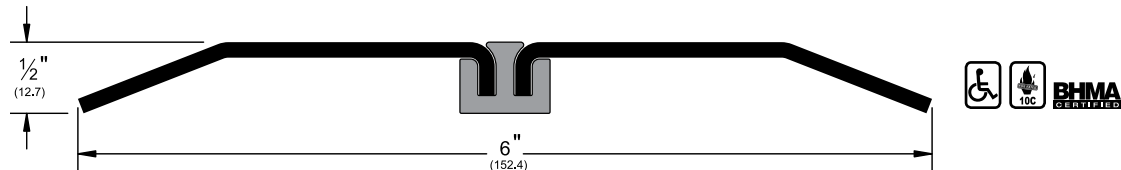
252x4SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52330, J52339, J52390, J52393



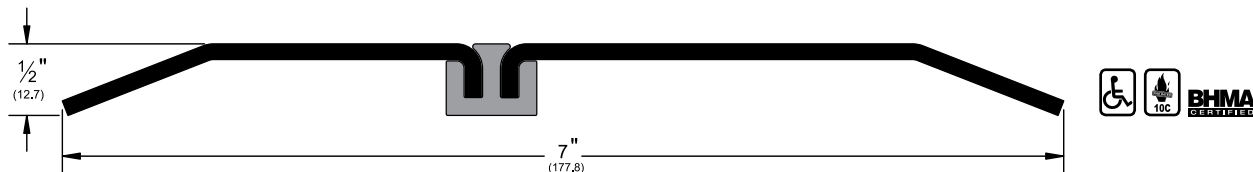
253x3SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52330, J52339, J52390, J52393



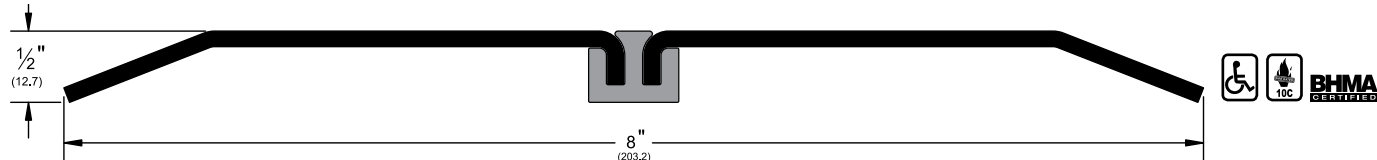
253x4SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52330, J52339, J52390, J52393



254x4SSFG

AVAILABLE FINISH: SS (#4, Brushed Finish)
ANSI: J52330, J52339, J52390, J52393



NOTE: Products shown in this section may not be drawn to scale.

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

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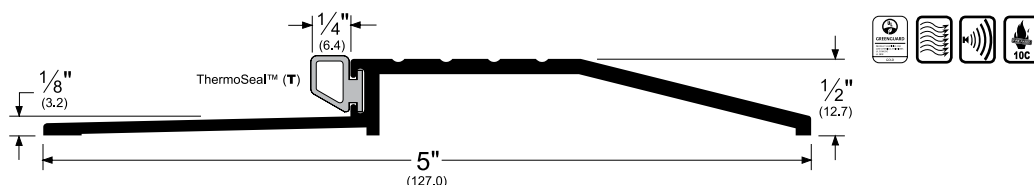
Latching Panic Exit Saddles

- Used in conjunction with surface applied vertical rod exit device, or as a stop and a seal at the bottom of door
- For offset applications, use an elevator (see page 135)
- 2006_T** and **2007_T** are only ADA compliant when installed butted to 1/4" tile or other floor material

2001_T

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**

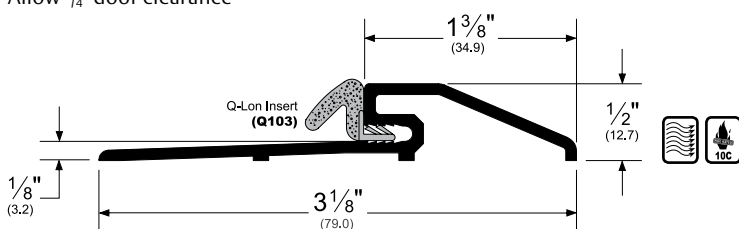
- Allow 1/4" door clearance
- Special purpose bumper threshold designed for use with a low 1/4" to 3/8" undercut door.



2002_Q

AVAILABLE FINISHES: **A, D, G**
Replacement Insert: **Q103 (D, W)**

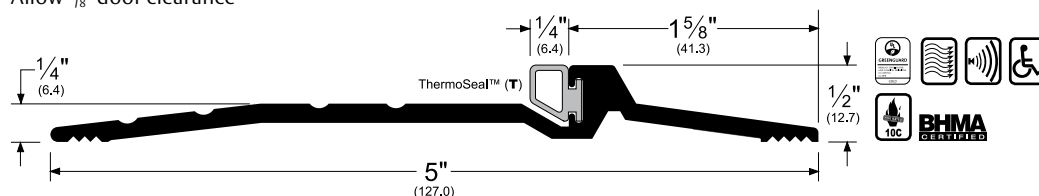
Allow 1/4" door clearance



2005_T

AVAILABLE FINISH: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35100, J35130, J36100, J36130**
ANSI (brass): **J15100, J15130, J16100, J16130**

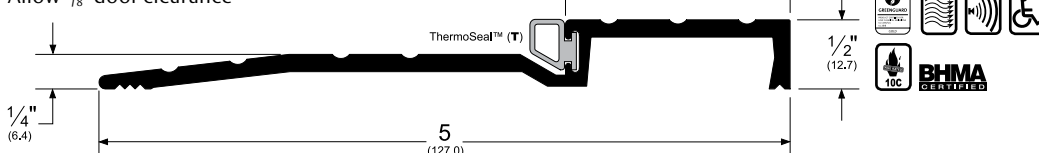
Allow 3/8" door clearance



2006_T

AVAILABLE FINISH: **A, D**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35100, J35130, J36100, J36130**

Allow 3/8" door clearance



Alternate Inserts



pile (P)

2001_P



2005_P



2006_P



2007_P

REPLACEMENT INSERT:
P2 (BL, W)



Eco-V™ (V)

2001_V



2005_V



2006_V



2007_V

REPLACEMENT INSERT:
EV41 (BL, GR, W)



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

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Latching Panic Exit Saddles (Cont.)

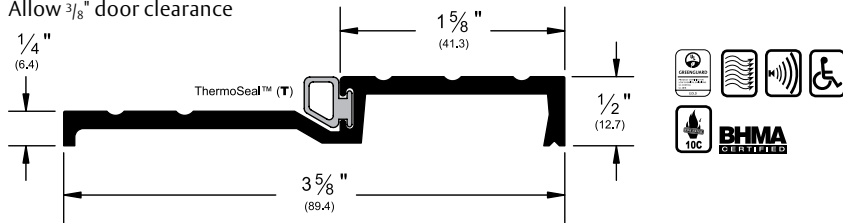
2007_T

AVAILABLE FINISH: **A, D**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35100, J35130, J36100, J36130**

Allow $\frac{3}{8}$ " door clearance



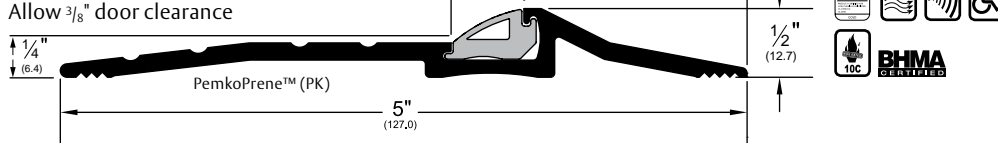
2009_PK

AVAILABLE FINISHES: **A, D**

REPLACEMENT INSERT: **PK20 (BL)**

ANSI: **J36100, J36130**

Allow $\frac{3}{8}$ " door clearance



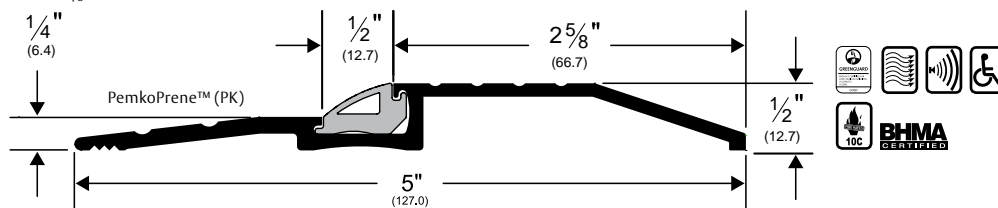
2010_PK

AVAILABLE FINISHES: **A, D**

REPLACEMENT INSERT: **PK20 (BL)**

ANSI: **J36100, J36130**

Allow $\frac{3}{8}$ " door clearance



179_T

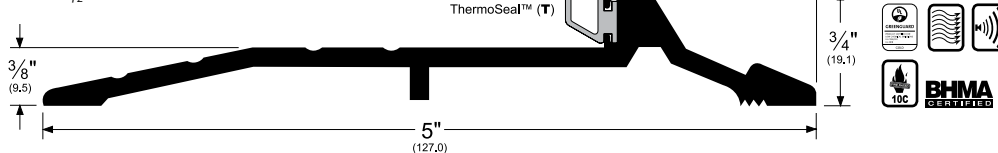
AVAILABLE FINISHES: **A, B, D, G**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35100, J36100**

ANSI (brass): **J15100, J16100**

Allow $\frac{1}{2}$ " door clearance



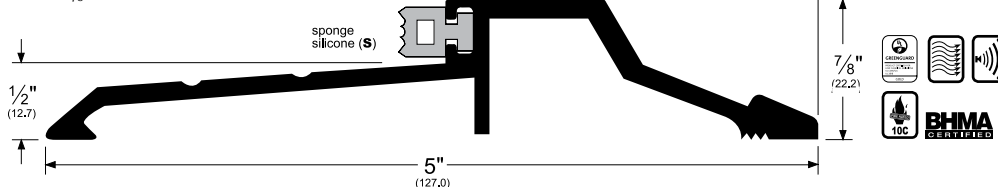
277_S

AVAILABLE FINISHES: **A, D, G**

REPLACEMENT INSERT: **SR6 (BL)**

ANSI (aluminum): **J35100, J36100**

Allow $\frac{5}{8}$ " door clearance



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

Alternate Inserts



pile (**P**)

2007_P

REPLACEMENT INSERT:
P2 (BL, W)



Eco-V™ (**V**)

2007_V

REPLACEMENT INSERT:
EV41 (BL, GR, W)

Alternate Inserts



pile (**P**)

179_P

REPLACEMENT INSERT:
P2 (BL, W)

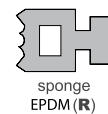


Eco-V™ (**V**)

179_V

REPLACEMENT INSERT:
EV41 (BL, GR, W)

Alternate Inserts



sponge
EPDM (**R**)

277_R

REPLACEMENT INSERT:
E7 (BL)
ANSI (aluminum):
J36100

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Latching Panic Exit Saddles (Cont.)

159_T

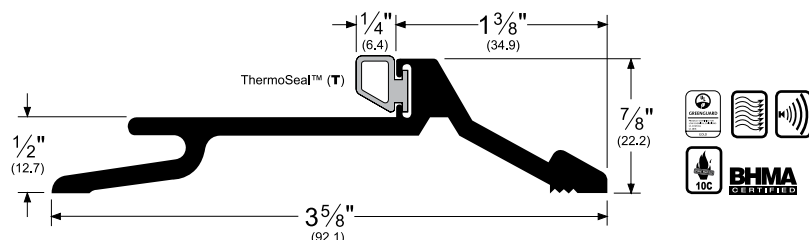
AVAILABLE FINISHES: **A, B, BDG, D, G**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35300, J36300**

ANSI (brass): **J15300, J16300**

- Allow $\frac{9}{16}$ " door clearance
- Provided with "J" hook.
- Can also be used as an interlock threshold (see Residential Thresholds section)



177_T

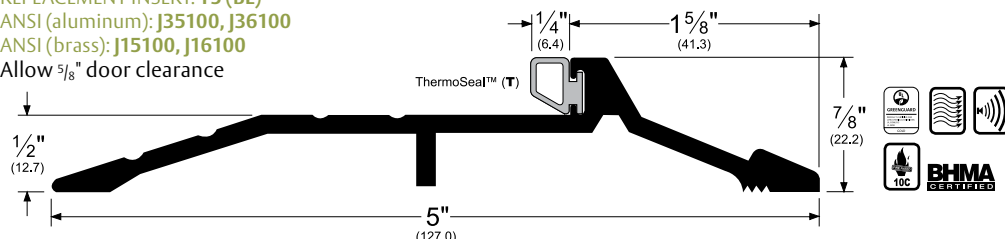
AVAILABLE FINISHES: **A, B, D, G**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35100, J36100**

ANSI (brass): **J15100, J16100**

Allow $\frac{5}{8}$ " door clearance



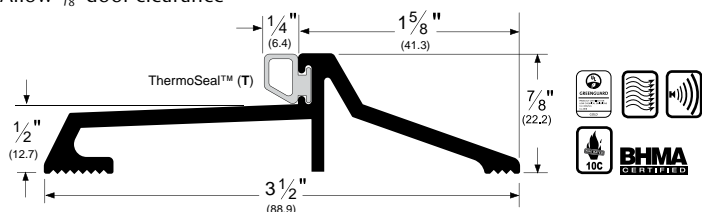
1855_T

AVAILABLE FINISHES: **A, D, G**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35100, J36100**

Allow $\frac{5}{8}$ " door clearance



181_T

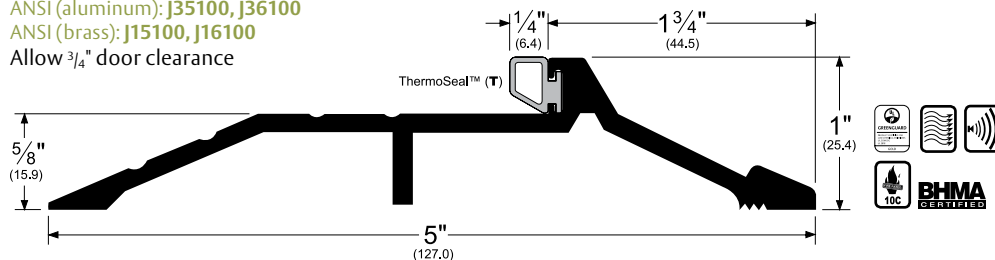
AVAILABLE FINISHES: **A, B, D, G**

REPLACEMENT INSERT: **T5 (BL)**

ANSI (aluminum): **J35100, J36100**

ANSI (brass): **J15100, J16100**

Allow $\frac{3}{4}$ " door clearance



Alternate Inserts



pile (P)

159_P

177_P

1855_P

181_P

REPLACEMENT INSERT:

P2 (BL, W)



Eco-V™ (V)

159_V

177_V

1855_V

181_V

REPLACEMENT INSERT:

EV41 (BL, GR, W)



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)

D (Dark Bronze Anodized) **G** (Gold Anodized)

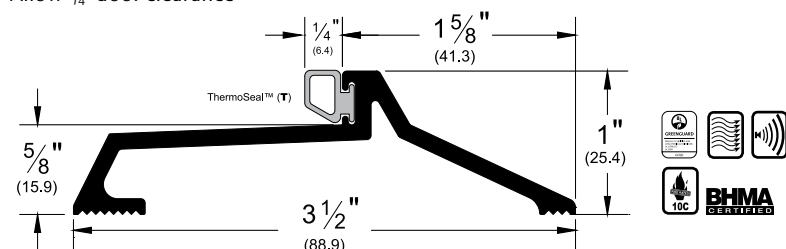
NOTE: **G** is available with limited inventory

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Latching Panic Exit Saddles (Cont.)

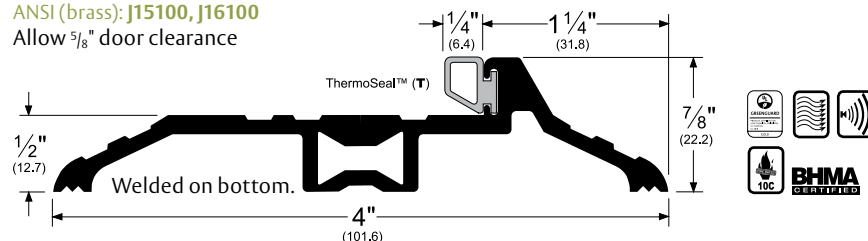
185_T

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35300, J36300**
Allow $\frac{3}{4}$ " door clearance



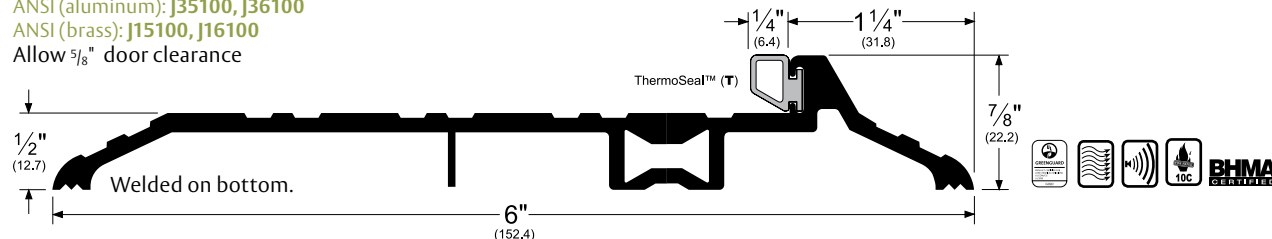
252x226_T

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35100, J36100**
ANSI (brass): **J15100, J16100**
Allow $\frac{5}{8}$ " door clearance



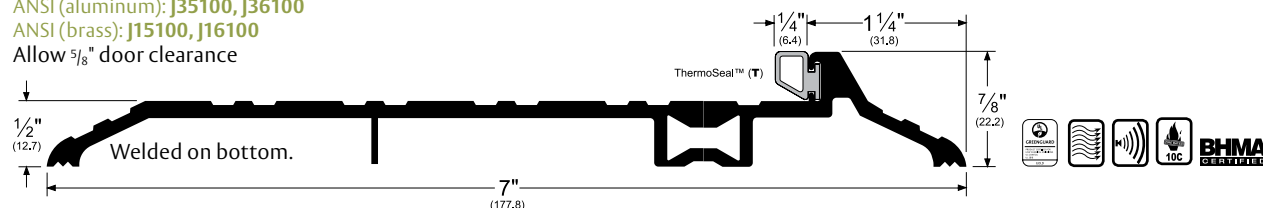
254x226_T

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35100, J36100**
ANSI (brass): **J15100, J16100**
Allow $\frac{5}{8}$ " door clearance



255x226_T

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35100, J36100**
ANSI (brass): **J15100, J16100**
Allow $\frac{5}{8}$ " door clearance



Alternate Inserts



pile (P)

185_P

252x226_P

254x226_P

255x226_P

REPLACEMENT INSERT:
P2 (BL, W)



Eco-V™ (V)

185_V

252x226_V

254x226_V

255x226_V

REPLACEMENT INSERT:
EV41 (BL, GR, W)

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

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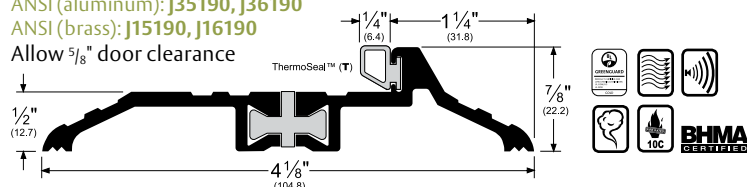
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Latching Panic Exit Saddles - Thermal Barrier

- Black rigid polypropylene key between extrusions provides thermal barrier (designated by "FG" Frost Guard following finish code)
- Used in conjunction with surface applied vertical rod exit device, or as a stop and a seal at the bottom of door
- These units are not welded

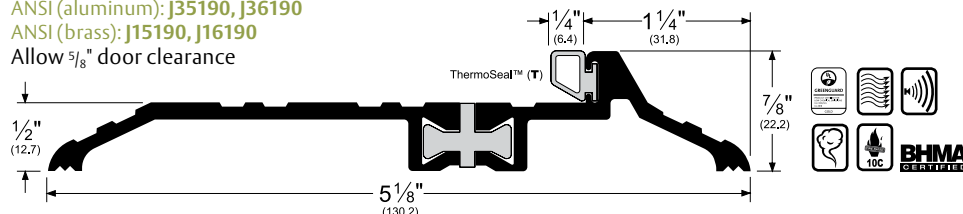
252x226_FGT

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35190, J36190**
ANSI (brass): **J15190, J16190**
Allow $\frac{5}{8}$ " door clearance



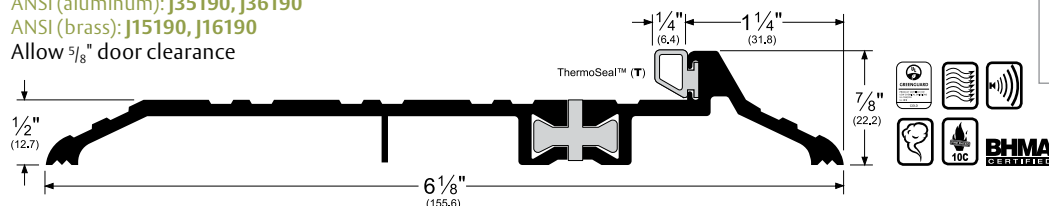
253x226_FGT

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35190, J36190**
ANSI (brass): **J15190, J16190**
Allow $\frac{5}{8}$ " door clearance



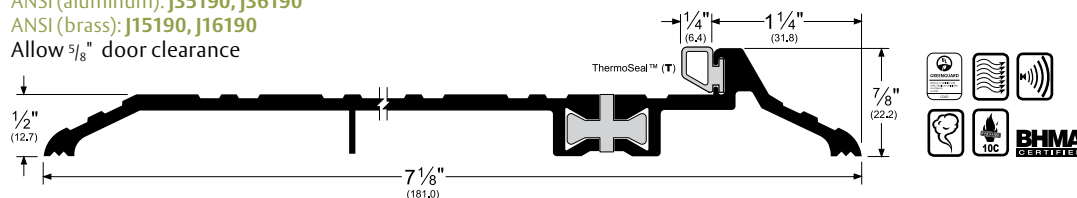
254x226_FGT

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35190, J36190**
ANSI (brass): **J15190, J16190**
Allow $\frac{5}{8}$ " door clearance



255x226_FGT

AVAILABLE FINISHES: **A, B, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J35190, J36190**
ANSI (brass): **J15190, J16190**
Allow $\frac{5}{8}$ " door clearance



Alternate Inserts



pile (P)

252x226_FGP



253x226_FGP



254x226_FGP



255x226_FGP



273x224_FGP



REPLACEMENT INSERT:
P2 (BL, W)



Eco-V™ (V)

252x226_FGV



253x226_FGV



254x226_FGV



255x226_FGV



273x224_FGV



REPLACEMENT INSERT:
EV41 (BL, GR, W)



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

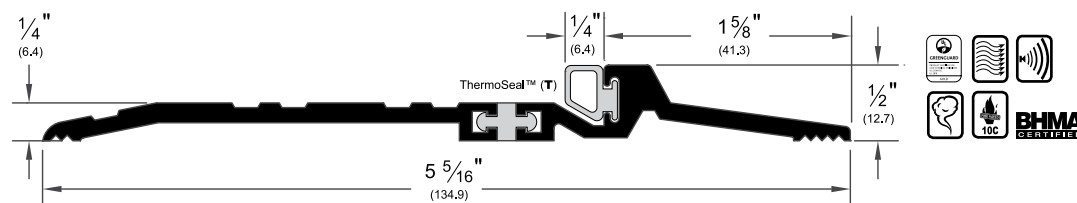
NOTE: **G** is available with limited inventory

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Latching Panic Exit Saddles - Thermal Barrier (Cont.)

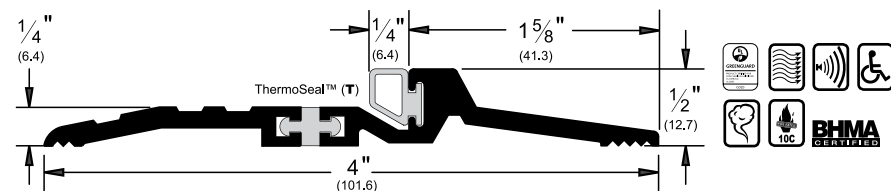
273x224_FGT

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36130, J36139, J36190, J36193**



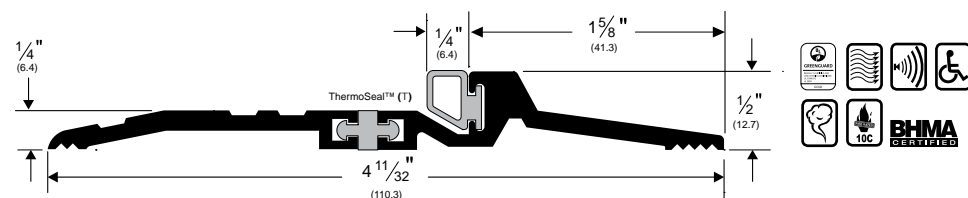
278x224_FGT

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36130, J36139, J36190, J36193**



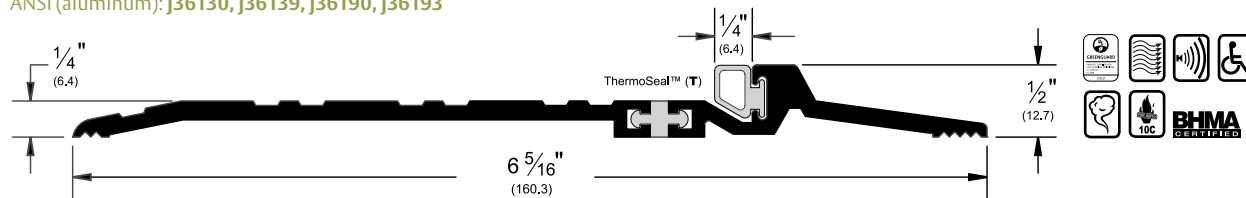
279x224_FGT

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36130, J36139, J36190, J36193**



274x224_FGT

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36130, J36139, J36190, J36193**



Alternate Inserts



pile (**P**)

274x224_FGP

278x224_FGP

279x224_FGP

REPLACEMENT INSERT:
P2 (BL, W)



Eco-V™ (**V**)

274x224_FGV

278x224_FGV

279x224_FGV

REPLACEMENT INSERT:
EV41 (BL, GR, W)

NOTE: Products shown in this section may not be drawn to scale.

NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

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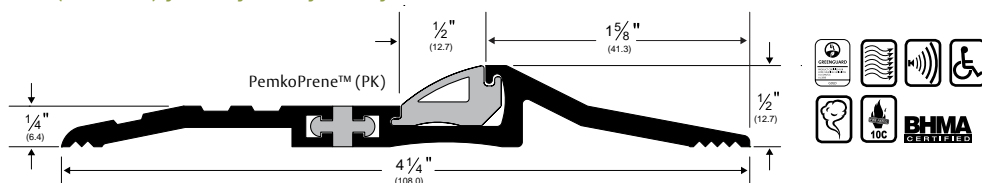
Latching Panic Exit Saddles - Thermal Barrier (Cont.)

278x292_FGPK

AVAILABLE FINISHES: A, D

REPLACEMENT INSERT: PK20 (BL)

ANSI (aluminum): J35190, J35193, J36190, J36193

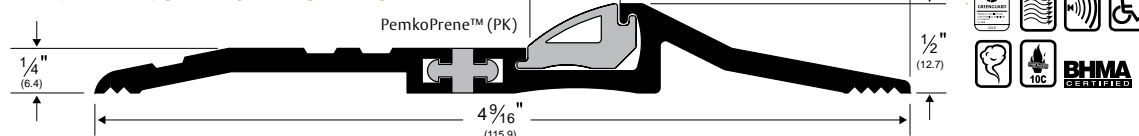


279x292_FGPK

AVAILABLE FINISHES: A, D

REPLACEMENT INSERT: PK20 (BL)

ANSI (aluminum): J35190, J35193, J36190, J36193

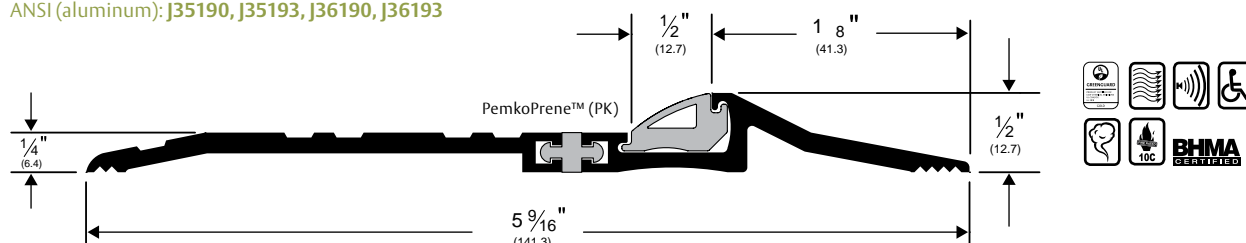


273x292_FGPK

AVAILABLE FINISHES: A, D

REPLACEMENT INSERT: PK20 (BL)

ANSI (aluminum): J35190, J35193, J36190, J36193

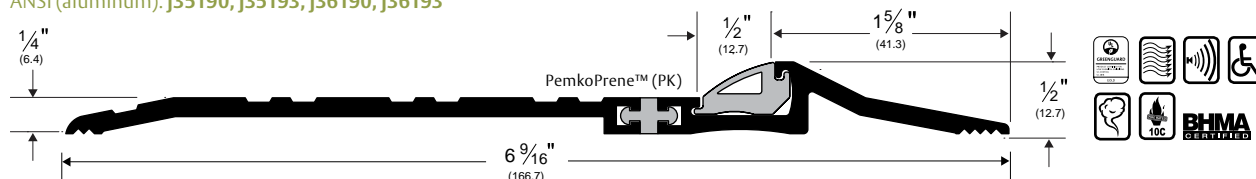


274x292_FGPK

AVAILABLE FINISHES: A, D

REPLACEMENT INSERT: PK20 (BL)

ANSI (aluminum): J35190, J35193, J36190, J36193

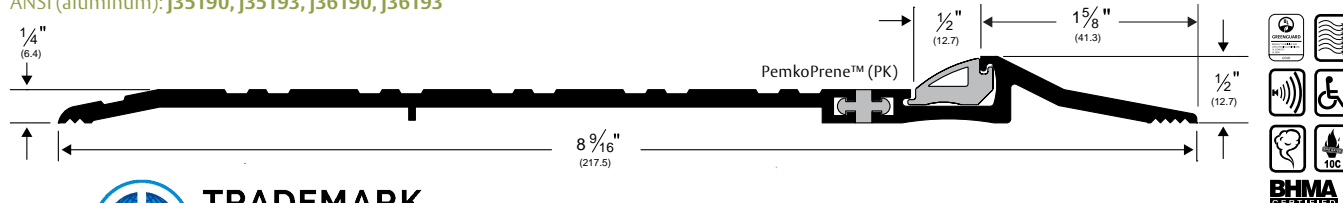


2746x292_FGPK

AVAILABLE FINISHES: A, D

REPLACEMENT INSERT: PK20 (BL)

ANSI (aluminum): J35190, J35193, J36190, J36193



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NOTE: Products shown in this section may not be drawn to scale.

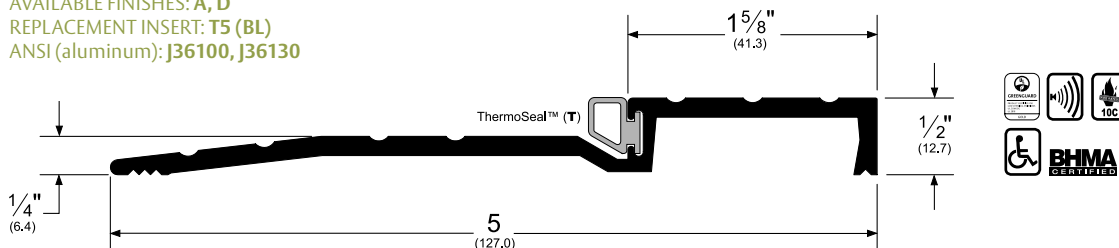
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) D (Dark Bronze Anodized)

Acoustic Thresholds

- PEMKO's line of Acoustic Thresholds are designed to aid with a door's STC rating
- **2006STC** and **2007STC** are only ADA compliant when installed butted to other flooring materials in accordance with ADA guidelines
- Thresholds will not improve a door's "sealed in-place" STC rating
- See the Acoustic Catalog Section or visit PEMKO's website, www.pemko.com, for more Acoustic products and additional information

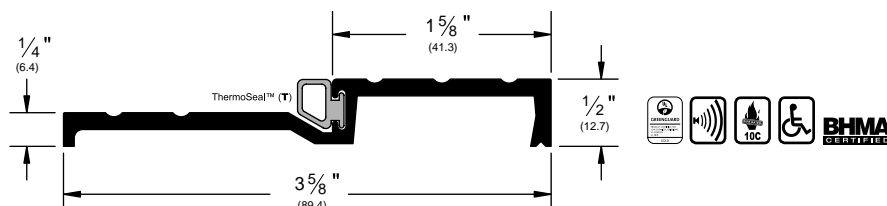
2006STC_

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36100, J36130**



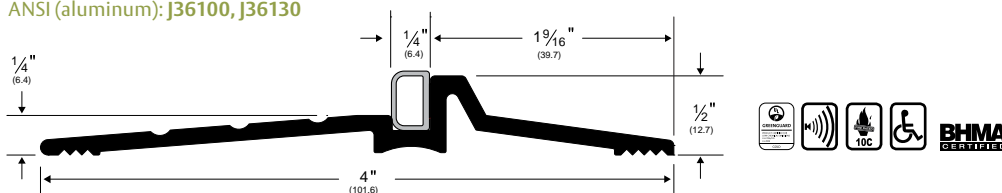
2007STC_

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36100, J36130**



2008_PK

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **PK381 (BL)**
ANSI (aluminum): **J36100, J36130**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Brown Anodized)



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Eco-V™ Thresholds

- Eco-V™ thresholds create an ideal transition where two different pieces of carpet meet, or carpet meets another surface under a door
- Ideal for use in any high-traffic commercial installation, such as hotels and offices
- Eco-V™ thresholds are manufactured from slightly softer material than competitive products. This aids in the cutting and fitting of the threshold and facilitates easier

insertion of the carpet into the holding cavities on the carpet side(s) of the threshold

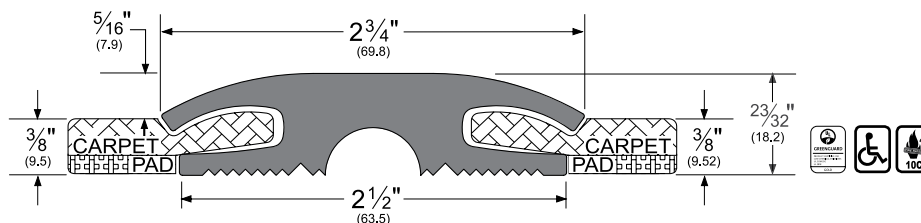
- Eco-V™ thresholds are designed to work in conjunction with PEMKO's **2173_V**, **2113_V** and **2343_V** door shoes
- EV232_**, **EV2325_**, and **ADJ232V** thresholds have been tested and approved under **ADAAG-2010 (Amended)**; **ICC/ANSI A117.1** and **California Building Code**, Title 24 for Barrier-Free Entry

EV232_

AVAILABLE COLORS: **BL**, **D**

AVAILABLE LENGTHS: **36"**, **48"**, **73"**

Serves as a transition where two pieces of carpet meet beneath an interior door

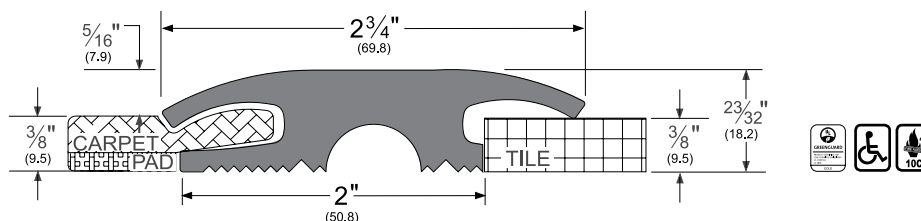


EV2325_

AVAILABLE COLORS: **BL**, **D**

AVAILABLE LENGTHS: **36"**, **48"**, **73"**

Serves as a transition where one piece of carpet meets tile beneath an interior door

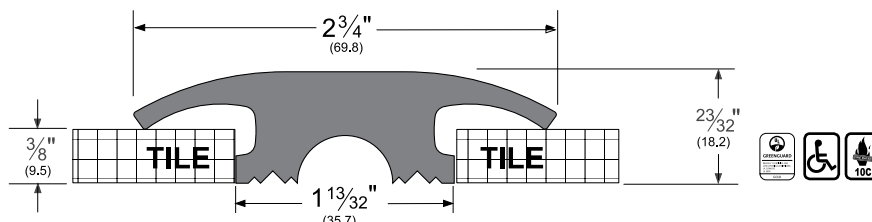


EV2326_

AVAILABLE COLORS: **BL**, **D**

AVAILABLE LENGTHS: **36"**, **48"**, **73"**

Serves as a transition where two pieces of tile meet beneath an interior door

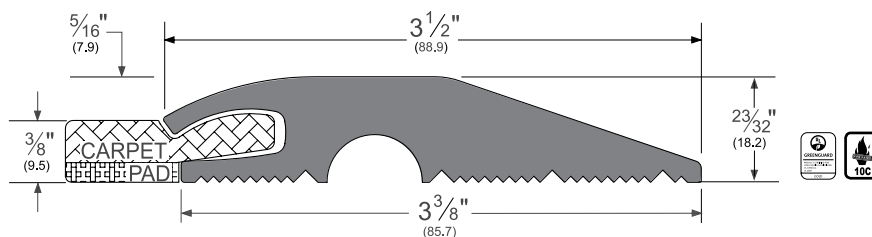


EV2320_

AVAILABLE COLOR: **BL**

AVAILABLE LENGTHS: **36"**, **48"**, **73"**

Serves as a transition where carpet meets concrete beneath an interior or exterior door

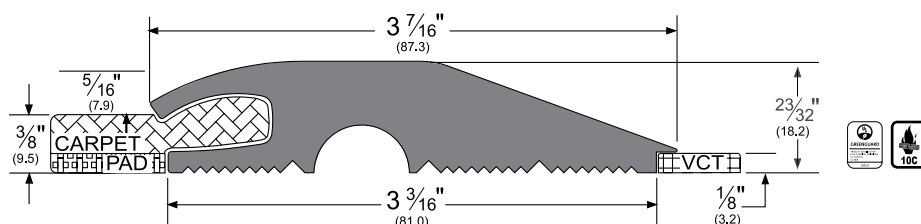


EV2322_

AVAILABLE COLOR: **BL**

AVAILABLE LENGTHS: **36"**, **48"**, **73"**

Serves as a transition where carpet meets 1/8" tile beneath an interior door



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NOTE: Products shown in this section may not be drawn to scale.

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

BL (Black) **D** (Dark Brown)

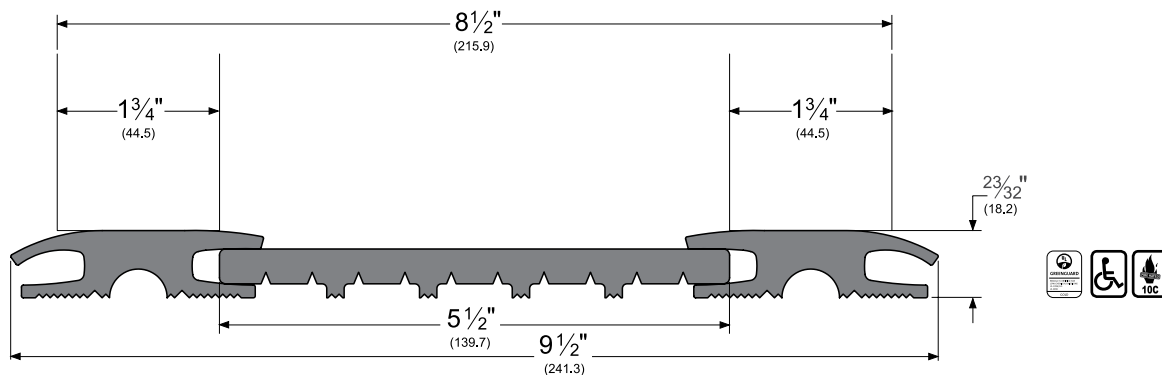
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Adjustable-Width Eco-V™ Threshold

- The adjustable-width threshold is designed for installations where the widths of the transition beneath a door may need to change, without completely disassembling and reinstalling the threshold
- The adjustable-width threshold consists of two Eco-V™ end pieces and one Eco-V™ adjustable center section
- Center section (**EV2321**_ below) can easily be cut to size with a standard razor knife

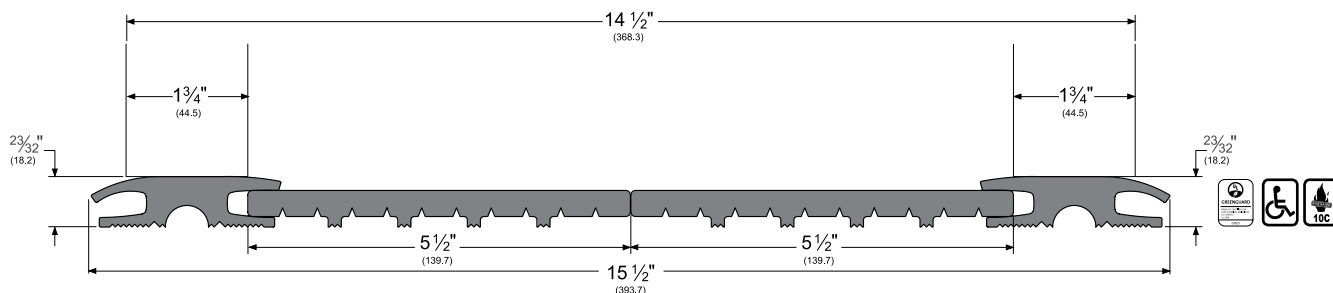
ADJ232V8_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48"**



ADJ232V14_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48"**

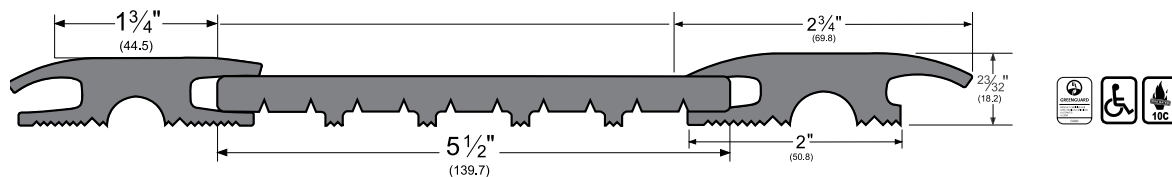


- Eco-V™ threshold ends can be used in many combinations to suit your flooring combination needs
- Shown below is **EV232** used with **EV2325** to illustrate use with carpet outside one communicating door and tile outside the other

ADJ232x2325V8_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48", 73"**

Serves as a transition where carpet meets tile beneath an interior door



NOTE: Products shown in this section may not be drawn to scale.

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



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Heavy Duty Latching Panic Exit Saddle Threshold

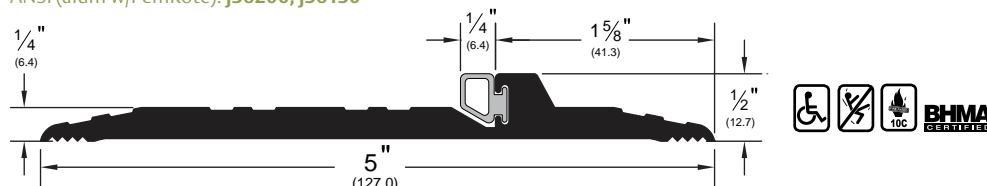
- Ideal for heavy-duty, high-traffic and high weight-bearing applications, such as industrial facilities, schools, cafeterias, manufacturing buildings and hospitals
- Withstands coastal and high-humidity conditions
- Ultra-durable, extra thick extruded nickel-aluminum construction is guaranteed for ten (10) years

2705_T

AVAILABLE FINISHES: **A, AK, D**

ANSI (aluminum): **J35100, J35130, J36100, J36130**

ANSI (alum w/PemKote): **J36200, J36130**



All items on this page are available with PemKote™ non-slip coating (see General Information section). Please specify "PemKote™" when ordering. Please furnish drilling instructions when ordering PemKote™ as it is difficult to drill through this coating.

Heavy Duty Thresholds

- Ideal for heavy-duty, high-traffic and high weight-bearing applications, such as industrial facilities, schools, cafeterias, manufacturing buildings and hospitals
- Withstands coastal and high-humidity conditions
- Ultra-durable, extra thick extruded nickel-aluminum construction is guaranteed for ten (10) years
- Used in conjunction with surface applied vertical rod exit device, or as a stop and a seal at the bottom of door

2715

AVAILABLE FINISHES: **A, AK, D**

ANSI (aluminum): **J32100, J32130**

ANSI (alum w/PemKote): **J32200, J32230**



All items on this page are available with PemKote™ non-slip coating (see General Information section). Please specify "PemKote™" when ordering. Please furnish drilling instructions when ordering PemKote™ as it is difficult to drill through this coating.

2716

AVAILABLE FINISHES: **A, AK, D**

ANSI (aluminum): **J32100, J32130**

ANSI (alum w/PemKote): **J32200, J32230**



1715_

AVAILABLE FINISHES: **A, AK, D**

ANSI (aluminum): **J32100, J32130**

ANSI (alum w/PemKote): **J32200, J32230**

Allow 5/8\"



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum w/PemKote™ Non-Slip Coating) **D** (Dark Bronze Anodized)

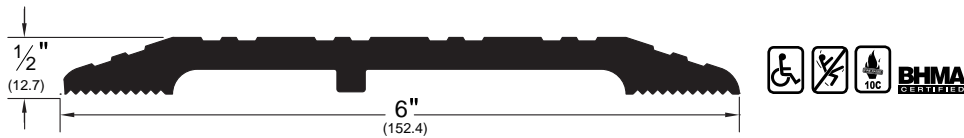
NOTE: D is available with limited inventory

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Heavy Duty Thresholds (Cont.)

1716_

AVAILABLE FINISHES: **A, AK, D**
ANSI (aluminum): **J32100, J32130**
ANSI (alum w/PemKote): **J32200, J32230**
Allow $\frac{5}{8}$ " door clearance



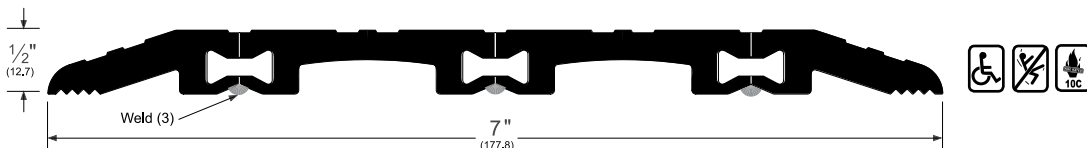
All items on this page are available with PemKote™ non-slip coating (see General Information section). Please specify "PemKote™" when ordering. Please furnish drilling instructions when ordering PemKote™ as it is difficult to drill through this coating.

Modular Heavy Duty Thresholds

- Modular construction allows threshold to fit openings up to 15" wide without the expense of custom cast thresholds. There is no restriction on width additions (in 1" increments)
- Modular Thresholds can be thermally broken. Order by adding "FG" to the part number and designate at which joint the thermal key should be supplied. Note that each thermal key will add $\frac{1}{8}$ " to overall width of threshold.

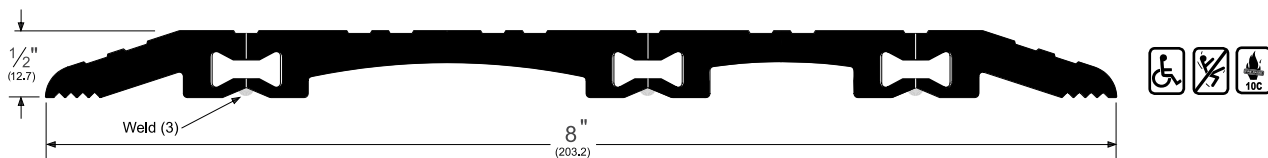
1717_

AVAILABLE FINISHES: **A, AK, D**
Allow $\frac{5}{8}$ " door clearance



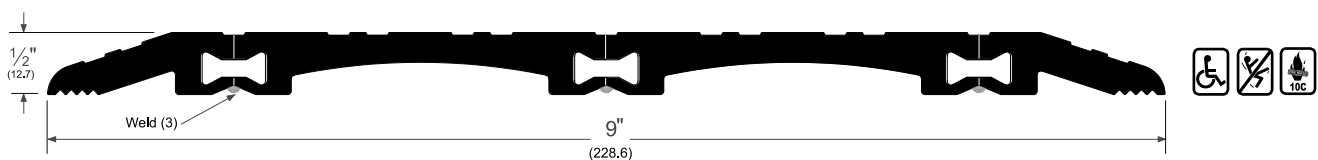
1718_

AVAILABLE FINISHES: **A, AK, D**
Allow $\frac{5}{8}$ " door clearance



1719_

AVAILABLE FINISHES: **A, AK, D**
Allow $\frac{5}{8}$ " door clearance



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum w/PemKote™ Non-Slip Coating) **D** (Dark Bronze Anodized)

NOTE: D is available with limited inventory

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Floor Plates/Safety Treads

- PEMKO can fabricate almost any floor plate threshold you might require
- Furnished undrilled unless drilling instructions are specified when ordering
- Ordering of fasteners does not constitute drilling instructions
- Elevated floor plates require support every 4" on center, at welded seams, and as necessary for support
- Orders with "x" in the product number (i.e. 195 x 193 x 195) indicate welding

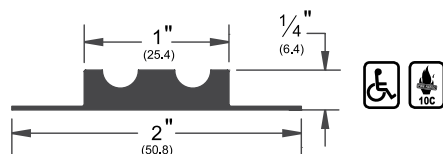


Available with PemKote™ non-slip coating (see General Information section). Please specify "PemKote™" when ordering. Please furnish drilling instructions when ordering PemKote™ as it is difficult to drill through this coating.

E197_

AVAILABLE FINISHES: **Black (blank)**

- EPDM Expansion Joint



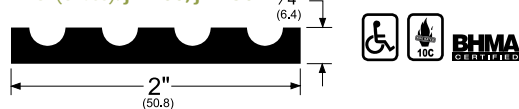
E197_ application

190_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37100, J37130**

ANSI (brass): **J17100, J17130**



191_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37100, J37130**

ANSI (brass): **J17100, J17130**



192_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37100, J37130**

ANSI (brass): **J17100, J17130**

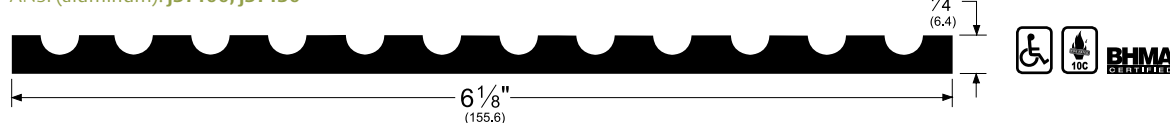


Extruded bronze (B) plates are fluted on both sides

193_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37100, J37130**

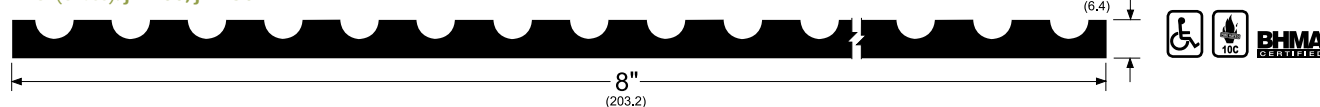


228_

AVAILABLE FINISHES: **A, D, G**

ANSI (aluminum): **J37100, J37130**

ANSI (brass): **J17100, J17130**



2266_

AVAILABLE FINISH: **A, G**

ANSI (aluminum): **J37100, J37130**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

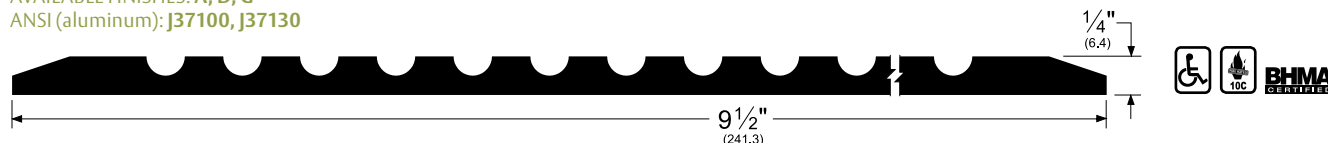


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Floor Plates/Safety Treads (Cont.)

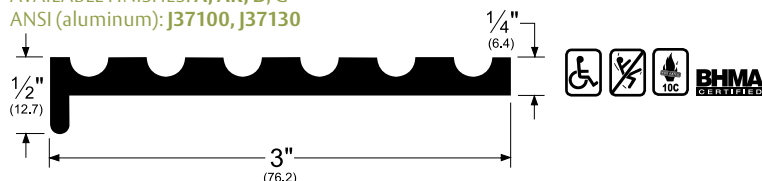
2286_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J37100, J37130**



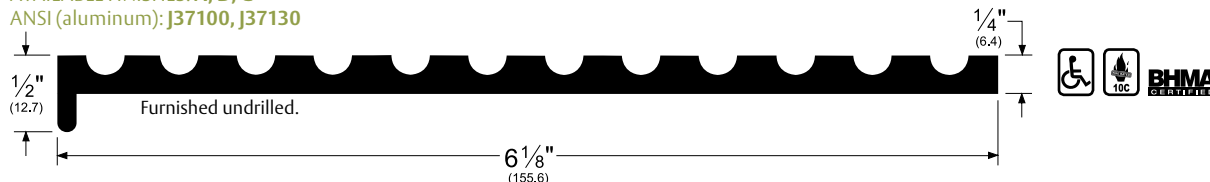
19125_

AVAILABLE FINISHES: **A, AK, D, G**
ANSI (aluminum): **J37100, J37130**



19325_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J37100, J37130**



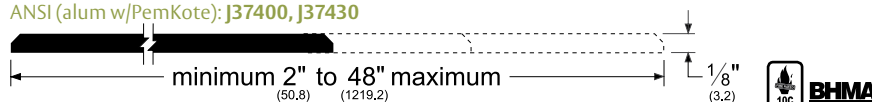
Aluminum Plates

- Used where a cover plate, expansion joint plate, or wide extra-strength metal plate is needed
- Maximum length is 144". All aluminum plates are provided NET length
- Both length edges are beveled at a 45° angle; "single edge bevel" or "no bevel" is also available at no extra cost; length of plate should be roughly equal to width of opening.
- Plates are supplied undrilled unless otherwise specified. PEMKO reserves the right to charge for special fastener patterns
- Plates are furnished with #10 x 1 1/2" wood screws. Screws supplied: one (1) screw per foot up to 8" wide; two (2) screws per foot 8" to 12" wide; and three (3) screws per foot over 12" wide
- Plates are ADA compliant only when ordered with PemKote finish



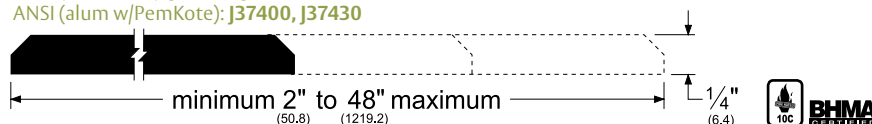
18/1_ - (width x length)

AVAILABLE FINISH: **A, AK**
ANSI (aluminum): **J37300, J37330**
ANSI (alum w/PemKote): **J37400, J37430**



14/1_ - (width x length)

AVAILABLE FINISH: **A, AK**
ANSI (aluminum): **J37300, J37330**
ANSI (alum w/PemKote): **J37400, J37430**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum w/PemKote Non-Slip Coating) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory



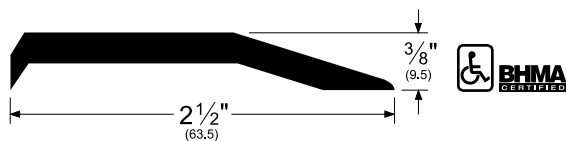
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Carpet Separators

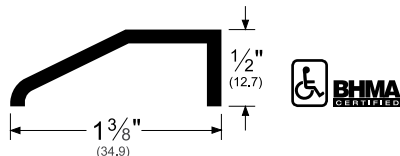
174_

AVAILABLE FINISHES: **B, C, D, G**
 ANSI (aluminum): **J32300, J32340**
 ANSI (brass): **J17300, J17330**



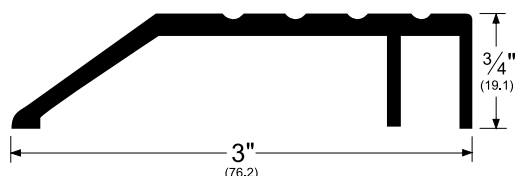
1951_

AVAILABLE FINISHES: **A, D**
 ANSI (aluminum): **J37300, J37330**
 • Supplied undrilled unless otherwise specified
 • ADA compliant when butted to 1/4" or 1/2" high flooring material



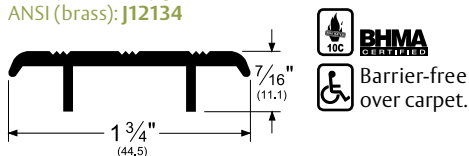
230_

AVAILABLE FINISHES: **A, D, G**



236_

AVAILABLE FINISHES: **A, B, BDG, D, G**
 ANSI (aluminum): **J32134**
 ANSI (brass): **J12134**



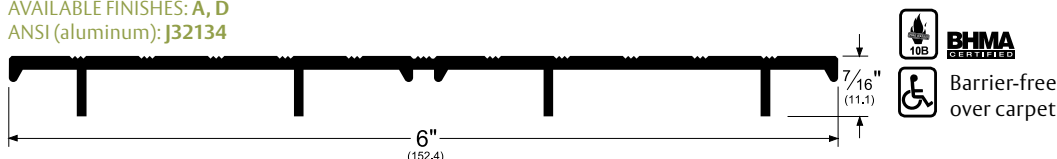
2364_

AVAILABLE FINISHES: **A, B, D, G**
 ANSI (aluminum): **J32134, J32140**
 ANSI (brass): **J12134**



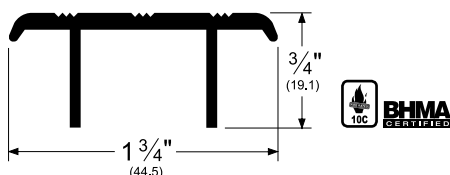
2366_

AVAILABLE FINISHES: **A, D**
 ANSI (aluminum): **J32134**



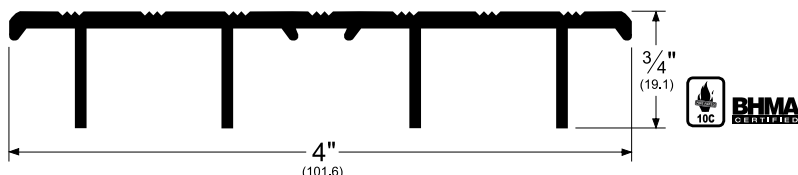
246_

AVAILABLE FINISHES: **A, G**
 ANSI (aluminum): **J32134**



2464_

AVAILABLE FINISHES: **A, D, G**
 ANSI (aluminum): **J32134**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

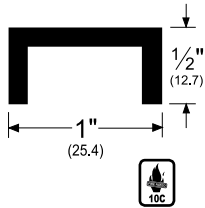
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Floor Plate Supports/Accessories

- Please see information under Floor Plates and Safety Treads (page 132-133)

189_

AVAILABLE FINISHES: **A, B, D, G**

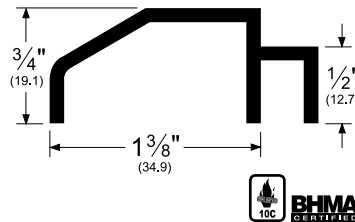


194_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37300**

ANSI (brass): **J17300**

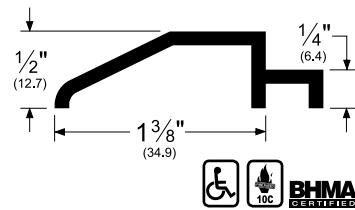


195_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37300**

ANSI (brass): **J17300**

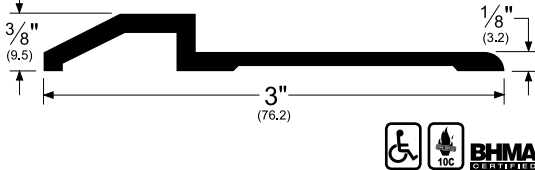


200_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37300, J37330**

ANSI (brass): **J17300, J17330**



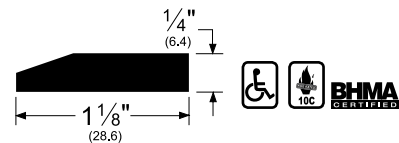
196_

AVAILABLE FINISHES: **A, B, D, G**

ANSI (aluminum): **J37300, J37330**

ANSI (brass): **J17300, J17330**

When ordering, specify whether 196 material is to be used as trim or support



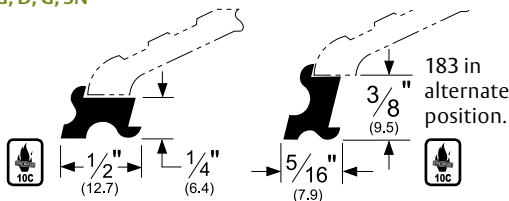
Elevators

- Elevators allow for custom sizing in offset conditions

183_

AVAILABLE FINISHES:

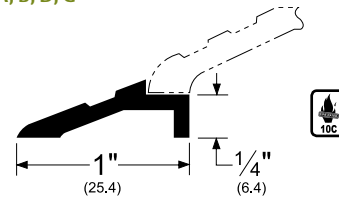
A, B, BDG, D, G, SN



282_

AVAILABLE FINISHES:

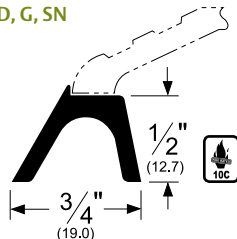
A, B, D, G



188_

AVAILABLE FINISHES:

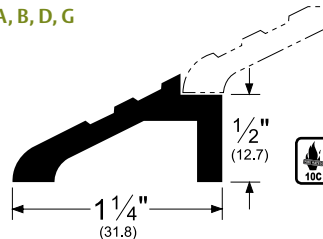
A, B, BDG, D, G, SN



283_

AVAILABLE FINISHES:

A, B, D, G



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized)

G (Gold Anodized) **SN** (Satin Nickel Anodized)

NOTE: **G, SN** are available with limited inventory

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Threshold Stop Strips

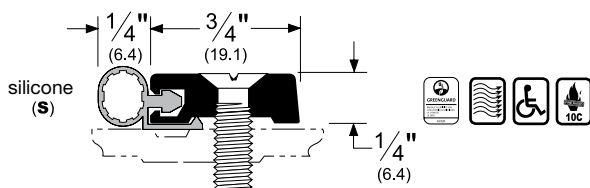
- Use with standard flat top, saddle threshold to provide a door stop and seal at bottom of door
- Stop strips are supplied pre-drilled with #10-24 Phillips flat head machine screws of appropriate length

1842_S

AVAILABLE FINISHES: **A, D, G**

REPLACEMENT INSERT: **S3 (BL, W)**

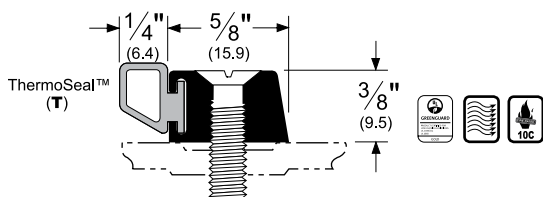
- Allow $\frac{1}{8}$ " door clearance from top of threshold
- Barrier-free with $\frac{1}{4}$ " saddle only



184_T

AVAILABLE FINISHES: **A, B, D, G**

REPLACEMENT INSERT: **T5 (BL)**

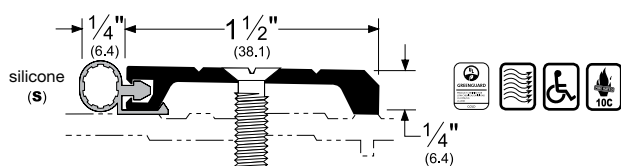


290_SSTOP

AVAILABLE FINISHES: **A, D, G**

REPLACEMENT INSERT: **S3 (BL, W)**

- Allow $\frac{1}{8}$ " door clearance from top of threshold
- Barrier-free with $\frac{1}{4}$ " saddle only



- These stops will affect the pivot hole location of an assembly

Alternate Inserts

1842_PK 290_PKSTOP

REPLACEMENT INSERT:
PK47 (BL, GR)



PemkoPrene™ (**PK**)

Alternate Inserts

1842_V 290_VSTOP

REPLACEMENT INSERT:
EV47 (BL, GR, W)



PemkoPrene™ (**PK**)

Alternate Inserts

184_P

REPLACEMENT INSERT:
P2 (BL, GR)



pile (**P**)

184_V

REPLACEMENT INSERT:
EV41 (BL, GR, W)



Eco-V™ (**V**)



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

NOTE: **G** is available with limited inventory

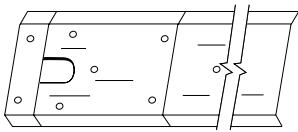
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Floor Closer Thresholds/Cover Plate Assemblies

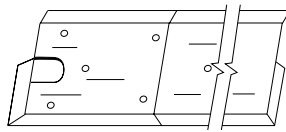
- **TYPE OF ASSEMBLY** – Type 11 or 14 for center hung, Type 13 or 15 for offset hung
- **MATERIALS** – Saddles, floor plates, supports, risers, elevators, and stop strips
- **CLOSER TO BE USED** – Manufacturer and model number
- **NET LENGTH** – Jamb-to-jamb. Assembly Types 11, 13 and 14 are cut with center section $\frac{1}{2}$ " over net length up to 48" and 1" over net length over 48" to allow for fitting on the job. Please specify "net length", if required. Assembly Type 15 is cut at net length because of factory-cut miters
- **HANDING** – For single doors, specify right or left hand. For pairs of doors, handing is not required
- **SPECIAL FINISHES** – Examples include polished, oxidized and oil rubbed, Satin Buff, and PemKote™
- **SPECIAL FASTENERS** – For center section only. Examples include: MS and ES, FHSL25 and SS/MS & ES
- **SPECIAL FABRICATION INSTRUCTIONS** – Notching, full miters, etc. Assembly Type 11 is supplied without mitered ends, and assembly Types 13, 14 and 15 are supplied with both ends mitered. Also, when ordering stop strips (shown on page 136), specify door thickness and pivot offset so that the threshold assembly width and pivot dimension can be determined
- **RETURNS AND ALLOWANCES** – No merchandise made for special order will be accepted for return or credit



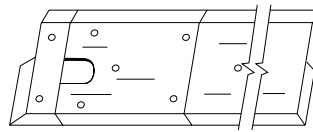
THRESHOLD WIDTH	FASTENER ROWS	THRESHOLD WIDTH	FASTENER ROWS
2" to $7\frac{7}{8}$ "	1 Row	19" to $24\frac{7}{8}$ "	4 Rows
8" to $12\frac{7}{8}$ "	2 Rows	25" to $30\frac{7}{8}$ "	5 Rows
13" to $18\frac{7}{8}$ "	3 Rows	31" to $36\frac{7}{8}$ "	6 Rows



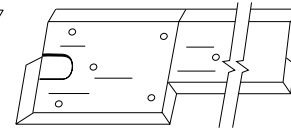
TYPE 11



TYPE 13



TYPE 14



TYPE 15

THRESHOLDS FOR TYPE 11, 13, 14				
SIZE	PRODUCT NUMBER	FINISHES	PRODUCT NUMBER	FINISHES
$\frac{1}{2}$ " x 7"	176_	A, B, D, G		
$\frac{1}{4}$ " x 7"	276_	A, B, D, G		
$\frac{1}{2}$ " x 8"	2548_	A, D, G	254_ x 4_	B
$\frac{1}{4}$ " x 8"	2748_	A, D, G	274_ x 4_	B
$\frac{1}{2}$ " x $8\frac{7}{8}$ "	193_ x 2/195_	A, B, D, G		
$\frac{3}{4}$ " x 12" x $\frac{1}{4}$ "	257_ x 259_	A, B, D, G		

* Ramp threshold for $\frac{1}{2}$ " offset.

THRESHOLDS FOR TYPE 15				
SIZE	PRODUCT NUMBER	FINISHES	PRODUCT NUMBER	FINISHES
$\frac{1}{2}$ " x 7" x 4"	176_ x 170_	A, B, D, G		
$\frac{1}{4}$ " x 7" x 4"	276_ x 270_	A, B, D, G		
$\frac{1}{2}$ " x 7" x 5"	176_ x 171_	A, B, D, G		
$\frac{1}{4}$ " x 7" x 5"	276_ x 271_	A, B, D, G		
$\frac{1}{2}$ " x 8" x 4"	2548_ x 170_	A, D, G	254 x 4_ x 170_	B
$\frac{1}{4}$ " x 8" x 4"	2748_ x 270_	A, D, G	274 x 4_ x 270_	B
$\frac{1}{2}$ " x 8" x 5"	2548_ x 171_	A, D, G	254 x 4_ x 171_	B
$\frac{1}{4}$ " x 8" x 5"	2748_ x 271	A, D, G	274 x 4_ x 271_	B

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized) G (Gold Anodized)

NOTE: G is available with limited inventory

ANSI/BHMA A156.21 Thresholds - Cross Reference

- Following a profile number, “A” signifies the base metal as aluminum and will include any anodized finish
- Following a profile number, “B” signifies the base metal as architectural bronze [brass]
- Consult www.buildershardware.com for the most up-to-date BHMA Certified Product Directory (CPD) information

ANSI No.	PEMKO Item#
J12100	170B, 171B, 172B, 176B, 198B, 254x4B, 254x5B, 255x5B, 270B, 271B, 272B, 274x4B, 276B
J12130	170B, 171B, 172B, 176B, 254x4B, 254x5B, 255x5B, 270B, 271B, 272B, 274x4B, 276B
J12134	236B, 2364B
J12139	252x2BFG, 252x3BFG, 253x3BFG, 253x4BFG, 254x4BFG, 254x5BFG, 255x5BFG, 273x3BFG, 273x4BFG, 274x4BFG
J12190	252x2BFG, 252x3BFG, 253x3BFG, 253x4BFG, 254x4BFG, 254x5BFG, 255x5BFG, 273x3BFG, 273x4BFG, 274x4BFG
J12193	252x2BFG, 252x3BFG, 253x3BFG, 253x4BFG, 254x4BFG, 254x5BFG, 273x3BFG, 273x4BFG, 274x4BFG
J12300	151B, 173B, 175B
J12330	151B, 173B, 175B
J13100	227B, 252B, 253B, 254B, 255B, 273B, 274B
J13130	227B, 252B, 253B, 254B, 255B, 273B, 274B
J13133	273B, 274B
J14170	101B, 108B, 114B
J15100	177B, 179B, 181B, 2005B, 252x226B, 253x226B, 254x226B, 255x226B
J15130	2005B
J15190	252x226BFG, 253x226BFG, 254x226BFG, 255x226BFG
J15300	159B
J16100	177BT, 179BT, 181BT, 2005B, 2005BT, 252x226BT, 253x226BT, 254x226BT, 255x226BT
J16130	2005B
J16300	159BT
J17100	190B, 191B, 192B, 193B
J17130	190B, 191B, 192B, 193B
J17300	174B, 194B, 195B, 196B, 200B
J17330	174B, 195B, 196B, 200B
J18130	257B, 259B, 275x259B
J19100	176B, 193Bx2/195B, 254x4B, 257B/259B, 274x4B, 276B
J19130	176B, 193Bx2/195B, 254x4B, 257B/259B, 274x4B, 276B
J19135	176B, 176B, 176Bx170B, 176Bx171B, 193Bx2/195B, 193Bx2/195B, 254x4B, 254x4B, 254x4Bx170B, 254x4Bx171B, 257B/259B, 257B/259B, 274x4B, 274x4B, 274x4Bx270B, 274x4Bx271B, 276B, 276B, 276Bx270B, 276Bx271B
J19150	176B, 176B, 176Bx170B, 176Bx171B, 193Bx2/195B, 254x4B, 254x4Bx170B, 254x4Bx171B, 257B/259B, 274x4B, 274x4B, 274x4Bx270B, 274x4Bx271B, 276B, 276B, 276Bx270B, 276Bx271B
J31100	206AV, 207AV
J32100	156A, 1571A, 157A, 158A, 166A, 169A, 1700A, 170A, 1715A, 171A, 172A, 176A, 182A, 198A, 2548A, 2549A, 2550A, 2555x253A, 256x6A, 256x6A, 270A, 2715A, 2716A, 271A, 2727A, 272A, 2746x6A, 2748A, 2749A, 2750A, 276A

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ANSI/BHMA A156.21 Thresholds - Cross Reference (Continued)

ANSI No.	PEMKO Item#
J32130	158A, 166A, 169A, 1700A, 170wA, 1715A, 1716A, 1716A, 171A, 172A, 176A, 2548A, 2549A, 2550A, 2555x253A, 256x6A, 256x6A, 270A, 2715A, 2716A, 271A, 2727A, 272A, 2746x6A, 2748A, 2749A, 2750A, 276A
J32134	236A, 2364A, 2366A, 2464A
J32138	158A, 2727A
J32139	252x2AFG, 252x3AFG, 253x3AFG, 253x4AFG, 253x6AFG, 254x4AFG, 254x5AFG, 2555x253AFG, 255x5AFG, 256x6AFG, 273x3AFG, 273x4AFG, 2746x6AFG, 274x4AFG
J32140	236A, 246A
J32180	157A, 1571A, 158A, 182A, 2727A
J32190	252x2AFG, 252x3AFG, 253x3AFG, 253x4AFG, 253x6AFG, 254x4AFG, 254x5AFG, 2555x253AFG, 255x5AFG, 256x6AFG, 273x3AFG, 273x4AFG, 2746x6AFG, 274x4AFG
J32193	252x2AFG, 252x3AFG, 253x3AFG, 253x4AFG, 253x6AFG, 254x4AFG, 254x5AFG, 2555x253AFG, 255x5AFG, 256x6AFG, 273x3AFG, 273x4AFG, 2746x6AFG, 274x4AFG
J32200	1715AK, 2715AK, 2716AK
J32230	1715AK, 1716AK, 2715AK, 2716AK
J32300	151A, 1546A, 1547A, 154A, 173A, 174A, 175A
J32330	151A, 1546A, 1547A, 154A, 173A, 174A, 175A
J33100	157A, 1571A, 168A, 182A, 1875A, 1877A, 227A, 229A, 252A, 253A, 254A, 2555A, 255A, 2565A, 256A, 273A, 2746A, 274A, 278A, 279A
J33130	168A, 227A, 229A, 252A, 253A, 254A, 255A, 2565A, 256A, 273A, 2746A, 274A, 278A, 279A
J33133	273A, 2746A, 274A, 278A, 279A
J33180	1875A, 1877A
J34170	101A, 107A, 114A, 121A, 123A
J35100	177A, 179A, 181A, 2005A, 2006A, 2007A, 2008A, 252x226A, 253x226A, 254x226A, 255x226A, 2705A, 277A
J35130	2005A, 206A, 2007A, 2008A, 2705A
J35190	252x226AFG, 253x226AFG, 254x226AFG, 255x226AFG
J35300	159A, 185A, 1855A
J36100	177AT, 179AT, 181AT, 2005AT, 2006APK, 2006AT, 2006STCxQ380, 2007APK, 2007AT, 2007xQ380, 2008APK, 2008STCxQ380, 2009APK, 2010APK, 252x226A, 252x266A, 253x226A, 254x226AT, 255x226AT, 2705A, 277AR, 277AS
J36130	2005A, 2005AT, 2006APK, 2006AT, 2006STCxQ380, 2007APK, 2007AT, 2007xQ380, 2008APK, 2008STCxQ380, 2009APK, 2010APK, 2705A, 273x224AFG, 273x292AFG, 2746x292AFG, 274x224AFG, 274x292AFG, 278x224AFG, 278x292AFG, 279x224AFG, 279x292AFG
J36139	273x224AFG, 273x292AFG, 2746x292AFG, 274x224AFG, 274x292AFG, 278x224AFG, 278x292AFG, 279x224AFG, 279x292AFG
J36190	252x226AFGT, 253x226AFG, 253x226BFG, 254x226AFG, 255x226AFG, 273x224AFG, 273x292AFG, 2746x292AFG, 274x224AFG, 274x292AFG, 278x224AFG, 278x292AFG, 279x224AFG, 279x292AFG
J36193	273x224AFG, 273x292AFG, 2746x292AFG, 274x224AFG, 274x292AFG, 278x224AFG, 278x292AFG, 279x224AFG, 279x292AFG
J36200	2705AK
J36230	2705AK

ANSI/BHMA A156.21 Thresholds - Cross Reference (Continued)

ANSI No.	PEMKO Item#
J36300	159AT, 185AT, 1855AT
J37100	190A, 191A, 192A, 193A, 228A, 2266A, 2286A, 19125A, 19325A
J37130	190A, 191A, 192A, 193A, 228A, 2266A, 2286A, 19125A, 19325A
J37200	190AK, 191AK, 192AK, 193AK, 19125AK
J37230	190AK, 191AK, 192AK, 193AK, 19125AK
J37300	14/1A, 18/1A, 194A, 1951A, 195A, 196A, 200A
J37330	14/1A, 174C, 18/1A, 1951A, 195A, 196A, 200A
J37400	14/1A, 18/1A
J37430	14/1A, 18/1A
J38130	257A, 259A, 257x259A, RAMP10A, RAMP11A, RAMP12A, RAMP1A, RAMP2A, RAMP3A, RAMP4A, RAMP5A, RAMP6A, RAMP7A, RAMP8A, RAMP9A, WING10, WING16, WINGExT
J38230	257AK, 259AK, 257x259AK, 257x259BK, RAMP10AK, RAMP11AK, RAMP12AK, RAMP1AK, RAMP2AK, RAMP3AK, RAMP4AK, RAMP5AK, RAMP6AK, RAMP7AK, RAMP8AK, RAMP9AK, WING10K, WING16K, WINGExTK
J39100	176A, 193Ax2/195A, 2548A, 257Ax259A, 2748A, 276A, RAMP1A
J39130	176A, 193Ax2/195A, 2548A, 257Ax259A, 2748A, 276A, RAMP1A
J39135	176A, 176Ax170A, 176Ax171A, 2548A, 2548Ax170A, 2548Ax171A, 257Ax259A, 2748A, 2748Ax270A, 2748Ax271A, 276A, 276Ax270A, 276Ax271A, RAMP1A
J39150	176A, 176Ax170A, 176Ax171A, 2548A, 2548Ax170A, 2548Ax171A, 257Ax259A, 2748A, 2748Ax270A, 2748Ax271A, 276A, 276Ax270A, 276Ax271A, RAMP1A
J52300	154SS, 158SS, 175SS, 2727SS
J52330	154SS, 175SS, 252x2SSFG, 252x3SSFG, 252x4SSFG, 253x3SSFG, 253x4SSFG, 254x4SSFG
J52338	158SS, 2727SS
J52339	252x2SSFG, 252x3SSFG, 252x4SSFG, 253x3SSFG, 253x4SSFG, 254x4SSFG
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J52393	252x2SSFG, 252x3SSFG, 252x4SSFG, 253x3SSFG, 253x4SSFG, 254x4SSFG
J53300	252SS, 253SS, 254SS
J53330	252SS, 253SS, 254SS
J53300	252SS, 253SS, 254SS
J53330	252SS, 253SS, 254SS


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MODULAR RAMPS

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Modular Ramp Threshold Assemblies

- Assemblies accommodate 1/2" to 2 1/4" floor offsets in meeting the 1:12 slope requirements of the "Americans with Disabilities Act". Even higher offsets can be accommodated by using the risers, **RAMP13_** and **RAMP14_**
- "MR" in a product number denotes that one-pair of miter returns (and extenders, if applicable) is included. Otherwise, we recommend filling and feathering the threshold ends with grout. Do not leave threshold ends open
- Miter Returns are available for offsets up to 2 1/4"

- Assemblies are supplied with #10 stainless steel wood screws. Stainless steel machine screws and expansion shields are available at an extra cost
- Assemblies allow for custom fabrication; please consult PEMKO Customer Service
- Assemblies are provided NET length
- Miter returns will add 2 pieces to total components; miter returns with extenders will add 4 pieces to total components

Flush Applications

1/2" Floor Offset

R.5F_

R.5FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 6 1/8"
OF COMPONENTS: 1

PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present.



Only with PemKote™ Non-Slip Coating be present.



3/4" Floor Offset

R.75F_

R.75FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 9 1/4"
OF COMPONENTS: 2



1" Floor Offset

R1F_

R1FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 12 3/8"
OF COMPONENTS: 2



1 1/4" Floor Offset

R1.25F_

R1.25FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 15 1/2"
OF COMPONENTS: 3



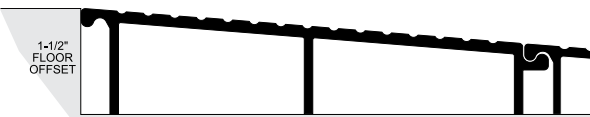
1 1/2" Floor Offset

R1.5F_

R1.5FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 18 5/8"
OF COMPONENTS: 3



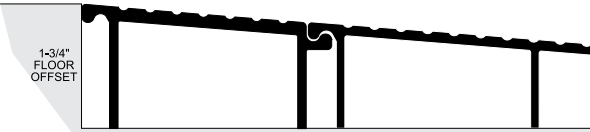
1 3/4" Floor Offset

R1.75F_

R1.75FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 21 3/4"
OF COMPONENTS: 4



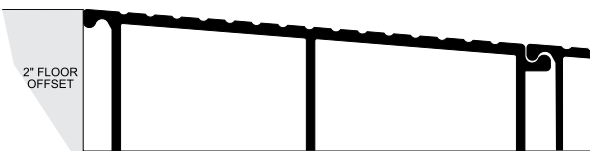
2" Floor Offset

R2F_

R2FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 24 7/8"
OF COMPONENTS: 4



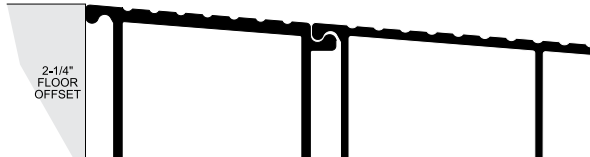
2 1/4" Floor Offset

R2.25F_

R2.25FMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH: 28"
OF COMPONENTS: 5



Complete assembly drawings available online

NOTE: Greater offset may be accomplished by using PEMKO risers.

**Miter Returns are not ADA Compliant



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

Offset Applications (7" Top Plate)

1/2" Floor Offset

R.5OS_

R.5OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 16 1/4"
OF COMPONENTS: 3



3/4" Floor Offset

R.75OS_

R.75OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 19 3/8"
OF COMPONENTS: 3



1" Floor Offset

R1OS_

R1OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 22 1/2"
OF COMPONENTS: 4



1 1/4" Floor Offset

R1.25OS_

R1.25OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 25 5/8"
OF COMPONENTS: 4



1 1/2" Floor Offset

R1.5OS_

R1.5OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 28 3/4"
OF COMPONENTS: 5



1 3/4" Floor Offset

R1.75OS_

R1.75OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 31 7/8"
OF COMPONENTS: 5



2" Floor Offset

R2OS_

R2OSMR_ **



AVAILABLE FINISHES: **A, AK**
ASSEMBLY LENGTH*: 35"
OF COMPONENTS: 6



Complete assembly drawings available online.

NOTE: Greater offset may be accomplished by using PEMKO risers.

*Assembly length includes 7" top plate

**Miter Returns are not ADA Compliant



Assembly Shown: **R.5OS**



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

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Short Offset Applications (3½" Top Plate)

½" Floor Offset

R.5OSS_

R.5OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 12¾"
 # OF COMPONENTS: 3



¾" Floor Offset

R.75OSS_

R.75OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 157⁄8"
 # OF COMPONENTS: 3



1" Floor Offset

R1OSS_

R1OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 19"
 # OF COMPONENTS: 4



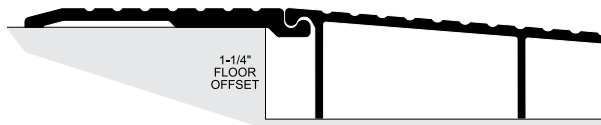
1¼" Floor Offset

R1.25OSS_

R1.25OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 221⁄8"
 # OF COMPONENTS: 4



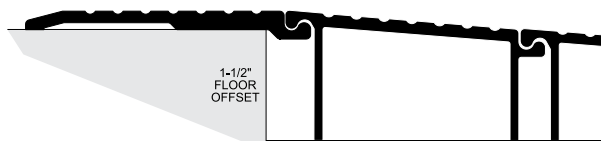
1½" Floor Offset

R1.5OSS_

R1.5OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 251⁄4"
 # OF COMPONENTS: 5



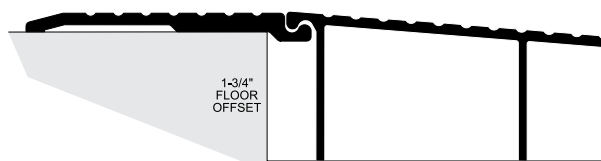
1¾" Floor Offset

R1.75OSS_

R1.75OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 283⁄8"
 # OF COMPONENTS: 5



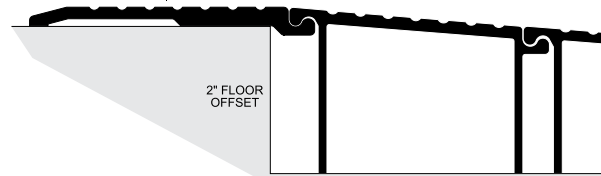
2" Floor Offset

R2OSS_

R2OSSMR_ **



AVAILABLE FINISHES: **A, AK**
 ASSEMBLY LENGTH*: 311⁄2"
 # OF COMPONENTS: 6

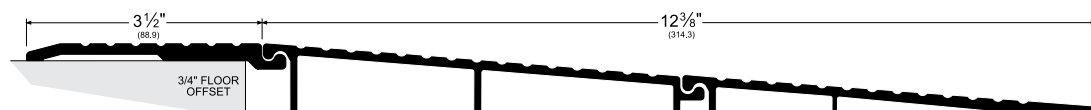


Complete assembly drawings available online.

NOTE: Greater offset may be accomplished by using PEMKO risers.




*Assembly length includes 3½" top plate

**Miter Returns are not ADA Compliant

Assembly Shown: **R.75OSS****ASSA ABLOY**The global leader in
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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

Modular Ramp Threshold Components

- Components are generally sold as part of assemblies
- Ramp Assemblies consist of interlocking components, eliminating the need to weld joints. Interlocking ball-joint design allows each component to flex and conform to uneven surfaces
- All assemblies carry the following labels:   

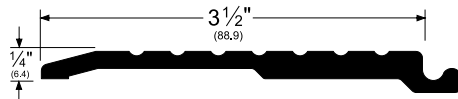
- PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present
- NOTE: The following pages are for component identification only. Do not order from these pages. Order only complete assemblies from pages 142 to 144

Top Plates

RAMP8_

Short top plate

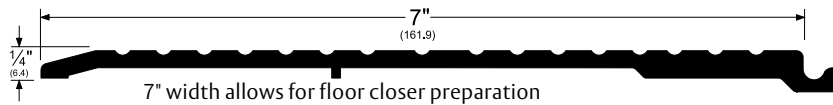
AVAILABLE FINISHES: A, AK



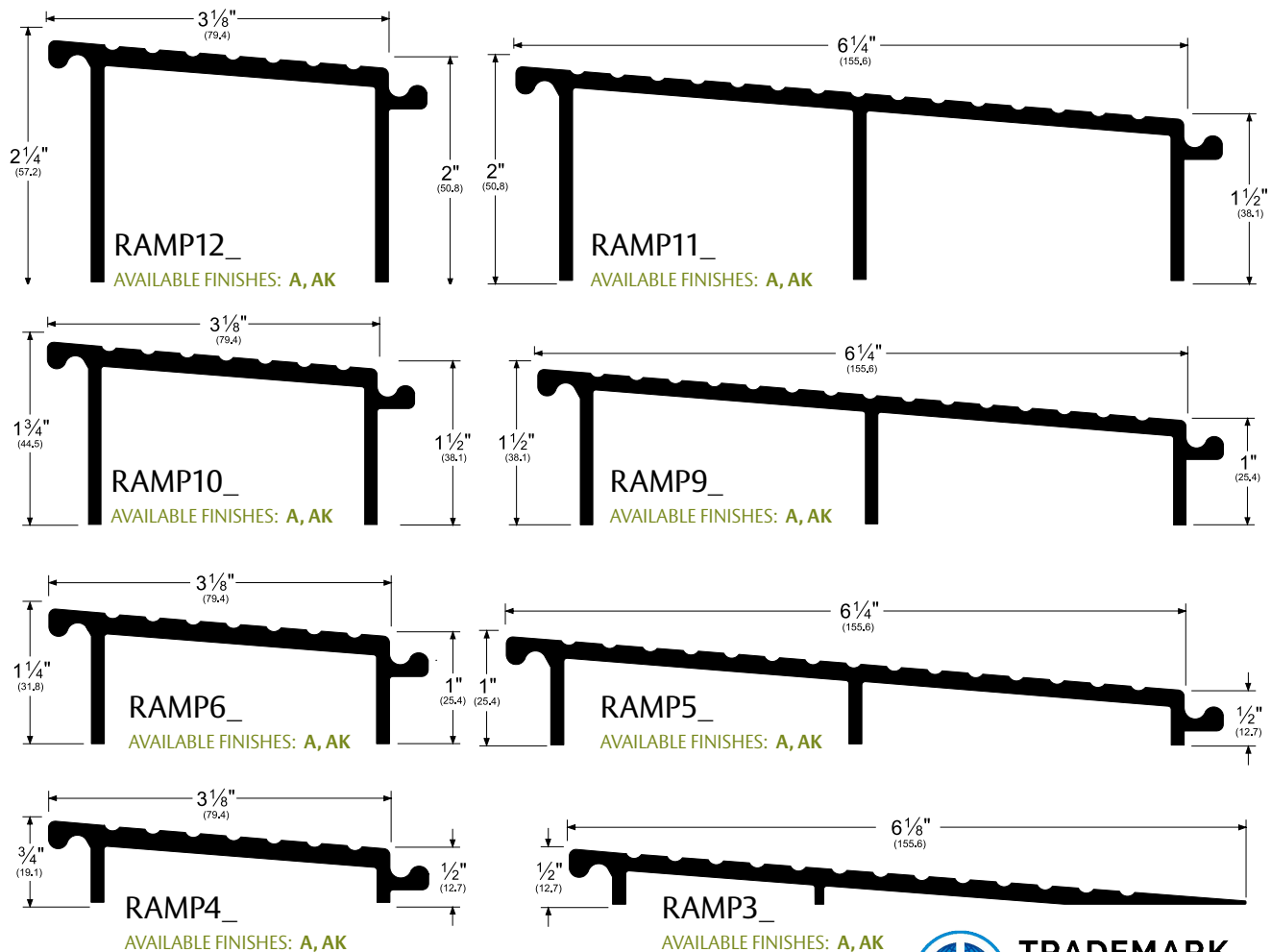
RAMP1_

Top plate

AVAILABLE FINISHES: A, AK



Bridges



NOTE: Products shown in this section are not drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)



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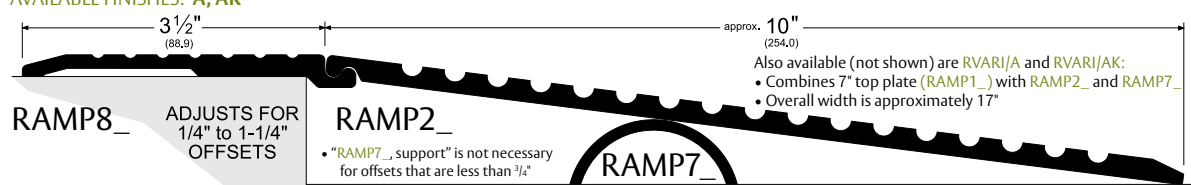
Modular Ramp Threshold Assemblies - Variables

- Use a "Variable" component to accommodate offsets from $\frac{1}{2}$ " to $1\frac{1}{4}$ ". These meet the 1:8 maximum slope allowance (ADA) for existing buildings. For new construction, this assembly is only ADA compliant in certain applications as outlined by the current ADA standard
- May require a variance from some state building codes, even though ADA compliant
- Ideal for use in cross traffic corridors where a minimal ramp projection may be required and a steeper slope may be allowed. Supplied with #10 stainless steel sheet metal screws. Stainless steel machine screws and expansion shields are available at an extra cost
- Miter returns are not available due to the variable angle of this ramp. Please fill and feather the threshold ends. Do not leave threshold ends open
- This variable ramp is supplied un-drilled from PEMKO. Due to the variance in the angle, it must be drilled in the field. For proper installation, it requires the **RAMP7_** to be placed under **RAMP2_** after the assembly is in place, then must be match drilled and anchored through both components
- PemKote™ is highly recommended for all ramp threshold assemblies especially exterior conditions where moisture may be present
- In addition to ADA compliance, outlined previously, all assemblies carry the following labels:



RVARIOSS_

AVAILABLE FINISHES: **A, AK**

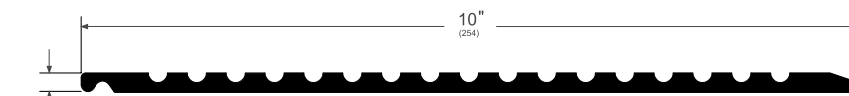


Variable Ramp Components

RAMP2_

variable

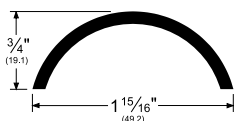
AVAILABLE FINISHES: **A, AK**



RAMP7_

support for variable

AVAILABLE FINISHES: **A**

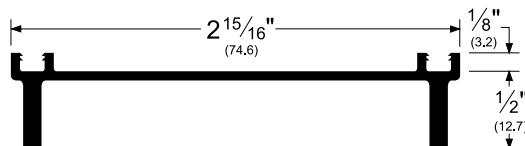


Risers for Modular Ramps

- Risers easily attach to the legs of PEMKO's Modular Ramp Systems. Each adds $\frac{1}{2}$ " in height to accommodate offsets greater than $2\frac{1}{4}$ "
- Contact PEMKO Customer Service for information on stacking risers to reach desired height

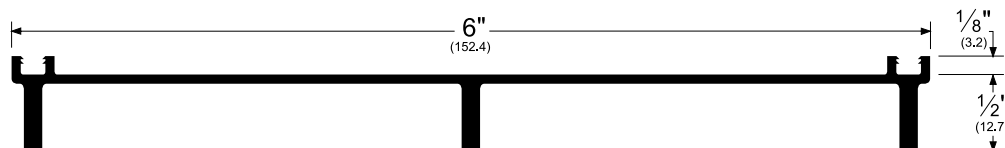
RAMP13_

AVAILABLE FINISHES: **A**



RAMP14_

AVAILABLE FINISHES: **A**



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NOTE: Products shown in this section are not drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

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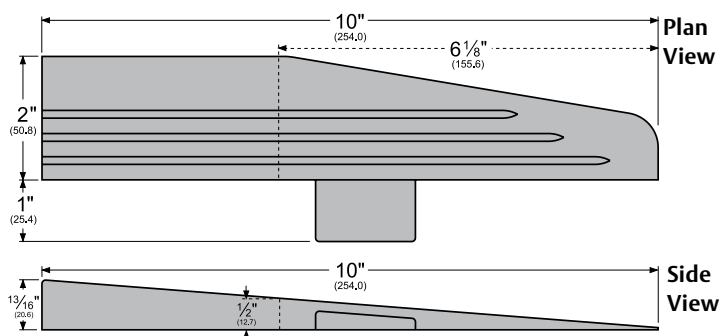
Miter Returns For All Modular Ramp Thresholds

- Cast aluminum "wings" fit into end of modular ramp threshold assembly and are fastened to ramp mid sections with self-tapping machine screws
- Neat, compact, and tight-fitting design replaces former mitering methods
- Miter Returns are match-drilled with each assembly
- Miter Returns are not "ADA" compliant
- Miter Returns are handed from the low end and are determined by which side of the ramp it fits into

WING10_H_

AVAILABLE FINISHES: **A, AK**

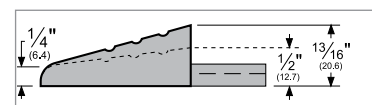
- WING10 can be trimmed to fit ramp assembly (dotted lines show cut down for use with R.5FMR_)



WING10RH_

(right-hand shown)

End View

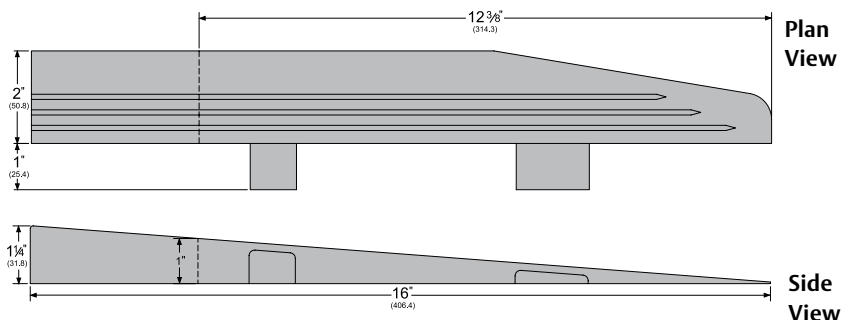


View from high-end

WING16_H_

AVAILABLE FINISHES: **A, AK**

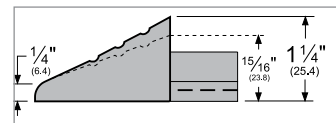
- WING16 can be trimmed to fit ramp assembly (dotted lines show cut down for use with R1FMR_)



WING16RH_

(right-hand shown)

End View

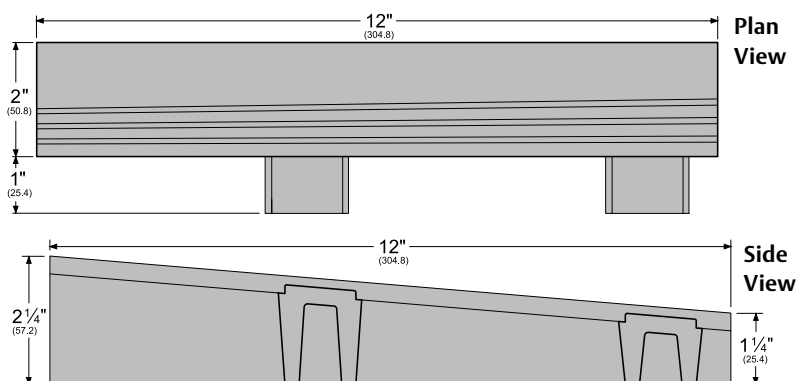


View from high-end

WINGEXT_H_

AVAILABLE FINISHES: **A, AK**

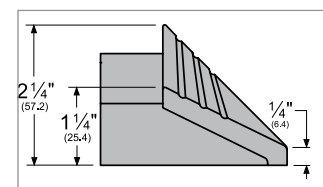
- WINGEXT are included with assemblies to completely fill ends for 2" offset or 2 1/4" flush conditions
WINGEXT works in conjunction with WING16 for these higher offset conditions



WINGEXTRH_

(right-hand shown)

End View



View from high-end

See flyer on the Literature page of www.pemko.com for WING cut-down chart.

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

A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

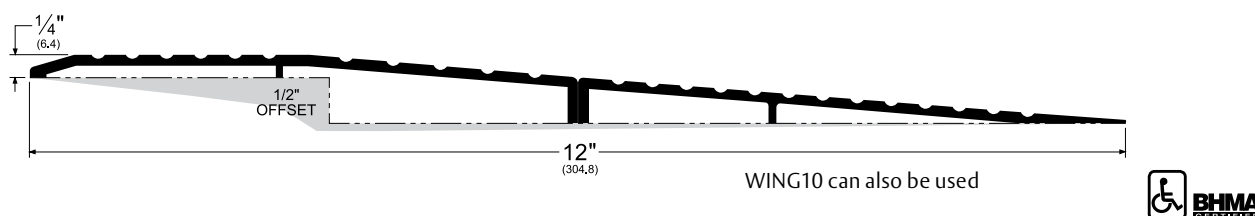


Barrier-Free Ramp Thresholds

- The modular ramp thresholds are an improvement over the **257/259** however, **257/259** will remain available for special requirements
- Use **257_** and **259_** together, or use **257_** with an abutted 1:12 concrete slope
- When used as a cover plate assembly (see Commercial Thresholds section), a longer spindle may be required
- Ramps on this page are not ADA compliant when used at a door opening
- The **257_** is not ADA compliant when used alone.
- PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present

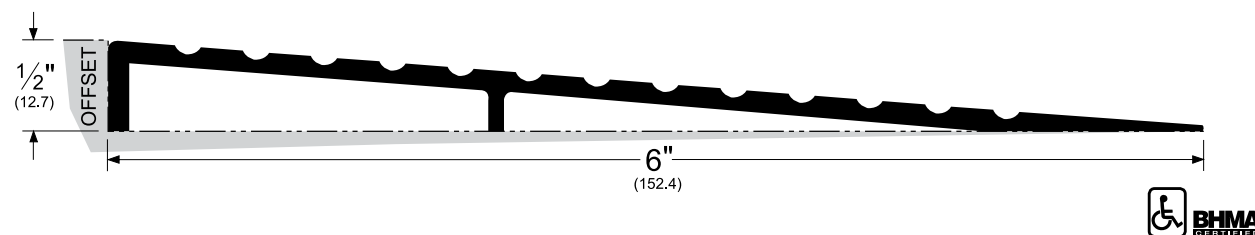
257x259_

AVAILABLE FINISHES: **A, AK, B, D, G**



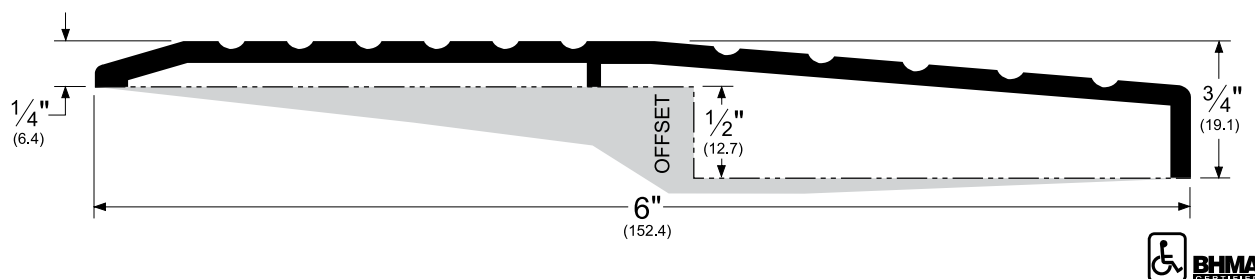
259_

AVAILABLE FINISHES: **A, AK, B, D, G**



257_

AVAILABLE FINISHES: **A, AK, B, D, G**



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NOTE: Products shown in this section are not drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **AK** (Mill Finish Aluminum with PemKote™ Non-Slip Coating)
B (Mill Finish Extruded Bronze [Brass]) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

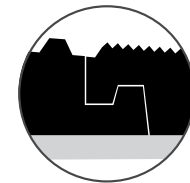
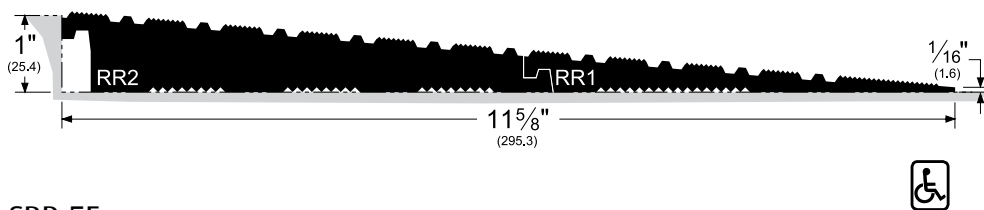
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Fire Retardant and Styrene Butadiene Rubber Ramp Thresholds

- Rubber ramps meet the requirements of **ADAAG-2010; IBC/ANSI A117.1; and California Title 24, Part 2**
- Styrene butadiene rubber ramps are weather, ozone, abrasion, and impact resistant; long-lasting and fire retardant
- Rubber ramps are sold in one foot increments up to 15-foot lengths
- Rubber ramps can be butted together for longer lengths
- Rubber ramps are cut square on each end but are available with molded rubber miter returns. To receive a pair of miter returns, add "MR" to the part number (example: **SBR.5FMR**)
- Rubber ramps have a superior grip, anti-slip surface and a "no bump" tapered lead edge. Rubber ramps are classified by Underwriters Laboratories, Inc.,® as a skid-resistant floor surface per **UL standard for safety, UL410**. Rubber ramps also meet the requirements of **ASTM D 2047** and **Federal Specification P-F-430C**
- Rubber ramps are easy to install on most surfaces by using a construction adhesive. Mechanical fasteners are not required and not recommended
- Rubber ramps are also portable. For temporary applications, an assembly stays in place by its sheer weight and can be removed from one opening and placed at another opening
- Use **RR200** (available from PEMKO) to glue rubber ramps to floor surfaces
- Rubber ramps are available for 1/2" and 1" offset heights
- Rubber ramps can be cross-cut to length or ripped to a custom offset height using a table or radial arm saw with a carbide-tipped blade. These modifications must be made in the field

SBR1F

SBR1FMR **

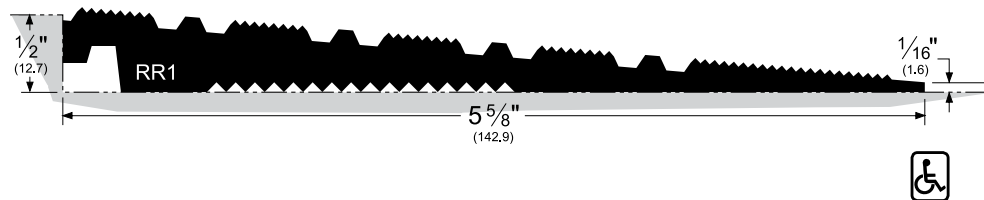


Assembly consists of two inter-locking components.

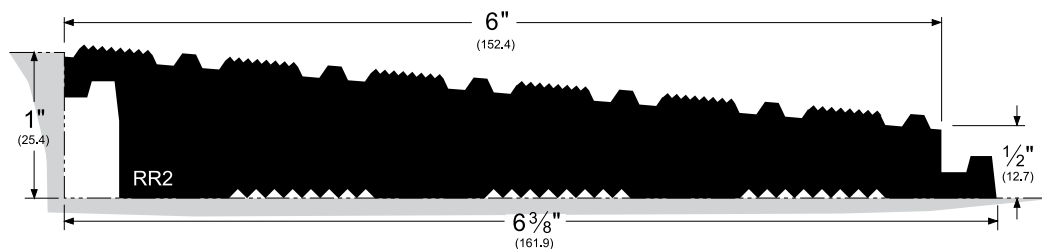
SBR.5F

SBR.5FMR **

RR1



RR2



This component (**RR2**) is not ADA compliant when used by itself.

NOTE: Products shown in this section are not drawn to scale.

** = Miter Returns are not ADA compliant



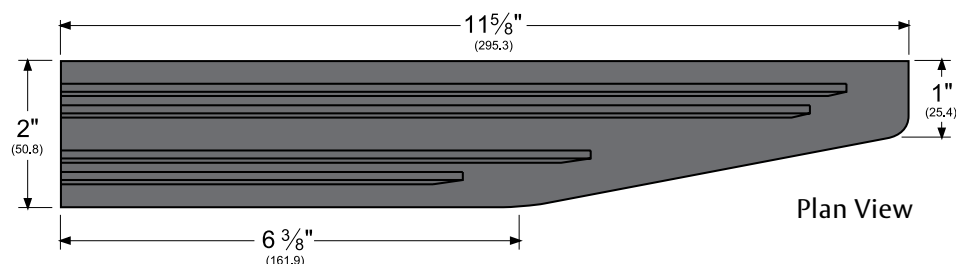
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Rubber Ramp Miter Returns

- Made from molded styrene butadiene rubber
- Glue miter returns to each end using an adhesive such as **RR200**
- Miter Returns are supplied in pairs: one left-hand (**RR12LH**) and one right-hand (**RR12RH**)
- If only one miter return is required, specify the handing

RR12_H

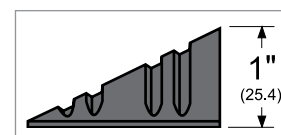


Plan View



Side View

End View



Shown as viewed from the low end.

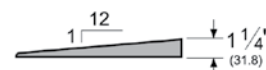
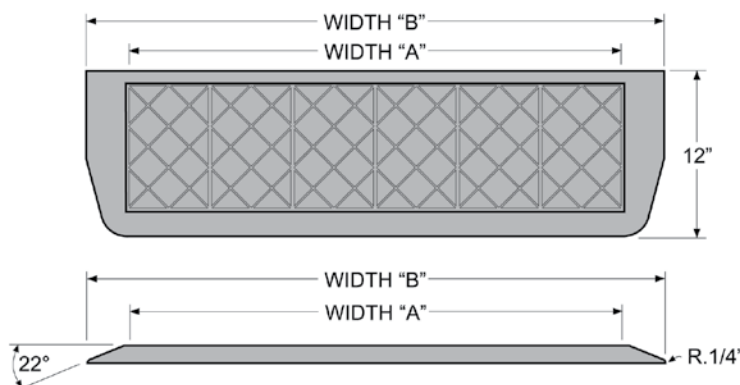
Recycled Rubber Ramp Assembly

- ADA Compliant, based on application
- Meets: **UL410, ASTM D2047, Federal Specification P-F-430C**
- Recycled Rubber Ramp Assemblies meet **IBC/ANSI A117.1-2013**
- Made from #20 mesh minus crumb rubber (with urethane binders) reclaimed from 100% recycled rubber automotive tires
- PEMKO strongly recommends using **RR200** (available from PEMKO) to glue rubber ramps to floor surfaces. Avoid Liquid Nails with Rubber Ramps
- Using ordinary tools, trim to fit your application
- Can be ripped for offsets less than 1 1/4"
- Plane bottom surface of ramp to accommodate irregular surface conditions
- Miter returns are molded into the design of the Recycled Rubber Ramp
- 36" and 60" ramps are supplied as one (1) piece assemblies
- 48" and 72" ramps are supplied as two (2) piece assemblies
- Dimensions are nominal and can vary by as much as one inch. This is acceptable as long as the two halves match

Ordering Chart

Other sizes are available, please contact PEMKO Customer Service.

PART #	WIDTH "A" (door opening)	WIDTH "B" (total width)
RR1.25FMR36	36"	41"
RR1.25FMR48	48"	53"
RR1.25FMR60	60"	65"
RR1.25FMR72	72"	77"
RR1.25FMR96	96"	101"



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DOOR BOTTOMS

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Automatic Door Bottoms

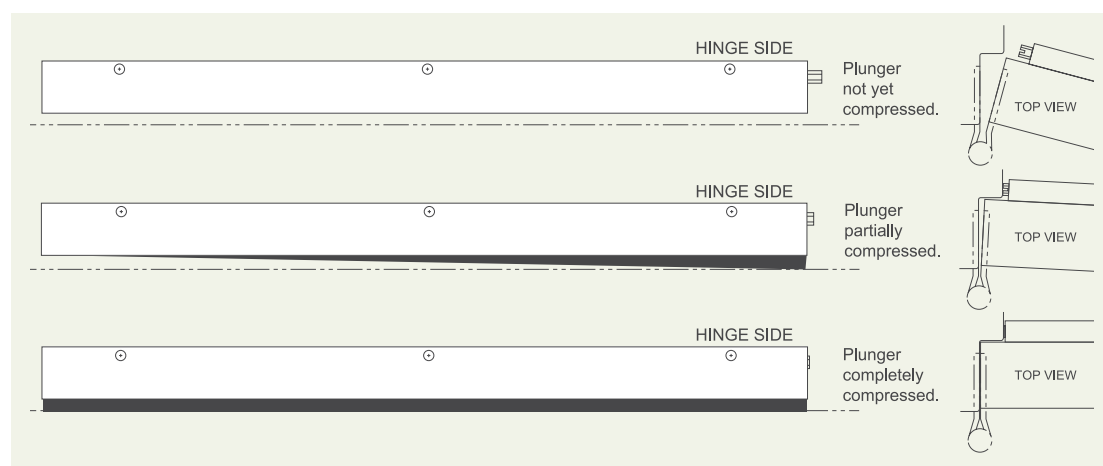
- All PEMKO Automatic Door Bottoms, 24" and up, can be manufactured for field alteration.
Please specify when ordering: Allow 2" for field trimming
- Overall sizes range from 18" to 72"
- 0.0625" Lead-lining available upon request; contact PEMKO Customer Service for options on profiles

Important Drop Bar Information

Drop seals of all types are designed to close a uniform size gap. PEMKO drop seals can seal up to $\frac{3}{4}$ " gaps, provided the gap is consistent. Gaps that start at less than $\frac{3}{4}$ " and then grow cannot be closed. The drop seal utilizes a straight aluminum extrusion so it cannot close an inconsistent gap.

Drop-Bar Seal Actuation

The drop bar mechanism prevents the seal from skidding along the floor/threshold while the door is being closed.

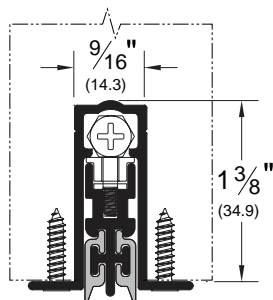


Automatic Door Bottoms - PDB Series

- Unique patented design creates uniform seal pressure across the entire door bottom, resulting in superior acoustic performance
- United States Patent No. 8,925,250 B2

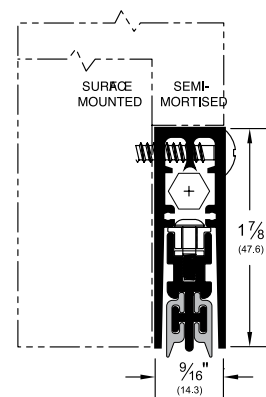
PDB411_E

AVAILABLE FINISHES: **A**
 REPLACEMENT INSERT: **PK8 (BL)**
 ANSI: **R3G324, R3G325**



PDB4131_E

AVAILABLE FINISHES: **C, D**
 REPLACEMENT INSERT: **PK8 (BL)**
 ANSI: **R3G334, R3G335, R3G344, R3G345**



NOTE: Products shown in this section may not be drawn to scale.

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **C** (Clear Anodized) **D** (Dark Bronze Anodized)

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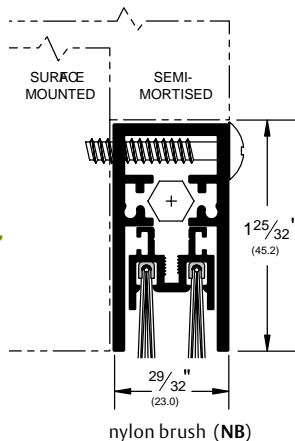
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door opening solutions

Automatic Door Bottoms - Surface and Semi-Mortise Models

- Specify if the Automatic Door Bottom is for a semi-mortise application so that shorter screws can be provided

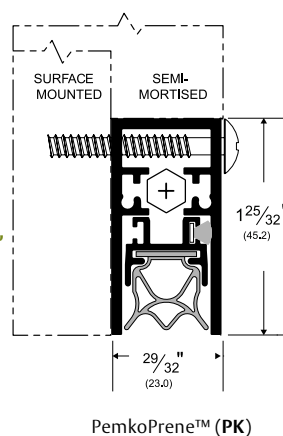
4301_NBL

AVAILABLE FINISHES:
C, D
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A334, R3A335, R3A344, R3A345**



4301_PKL

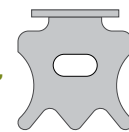
AVAILABLE FINISHES:
C, D
REPLACEMENT INSERT:
PK4304 (BL)
ANSI: **R3G334, R3G335, R3G344, R3G345**



Alternate Insert For 4301

4301_RL

AVAILABLE FINISHES:
C, D
REPLACEMENT INSERT:
E4303 (BL)
ANSI: **R3G334, R3G335, R3G344, R3G345**



sponge EPDM (R)

Alternate Inserts For 4131

4131_PKL

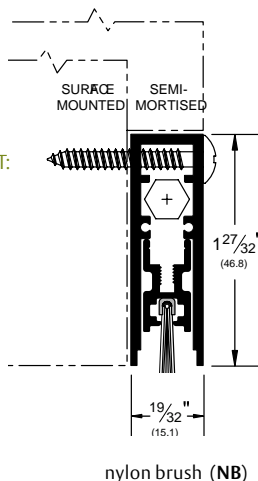
AVAILABLE FINISHES:
BDG, C, D, SN
REPLACEMENT INSERT:
PK4132 (BL)
ANSI: **R3G334, R3G335, R3G344, R3G345**



PemkoPrene™ (PK)

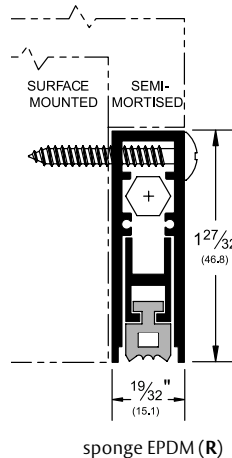
4131_NBL

AVAILABLE FINISHES:
BDG, C, D, SN
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A334, R3A335, R3A344, R3A345**



4131_RL

AVAILABLE FINISHES:
BDG, C, D, SN
REPLACEMENT INSERT:
E7 (BL)
ANSI: **R3G334, R3G335, R3G344, R3G345**



4131_SL

AVAILABLE FINISHES:
BDG, C, D, SN
REPLACEMENT INSERT:
SR6 (BL)
ANSI: **R3E334, R3E335, R3E344, R3E345**



sponge silicone (S)

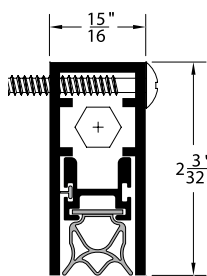
All above products



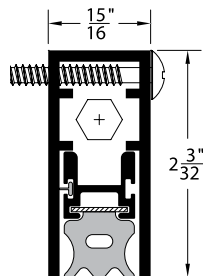
Automatic Door Bottoms - Over-Sized

- For Automatic Door Bottoms (ADB) in these profiles ordered over 48-inches
- Only available with our 4301 and 434 ADB profiles

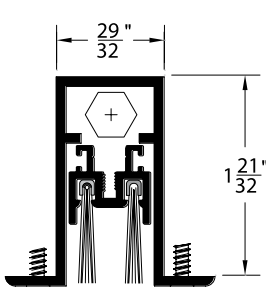
OS4301_PKL



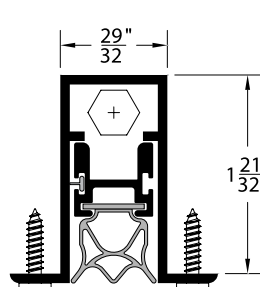
OS4301_RL



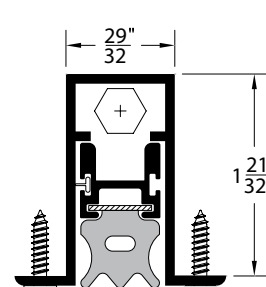
OS434_NBL



OS434_PKL



OS434_RL



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BDG (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **SN** (Satin Nickel Anodized)

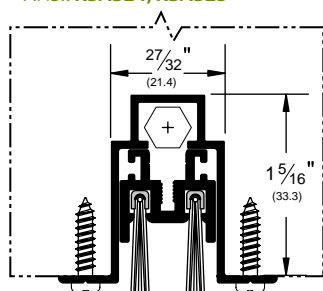
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Automatic Door Bottoms - Full-Mortise Models

434_NBL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: P516062 (BL, GR, W)
 ANSI: R3A324, R3A325

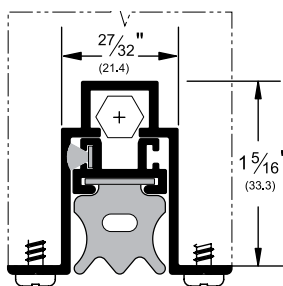


nylon brush (NB)



434_RL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: E4303 (BL)
 ANSI: R3G324, R3G325

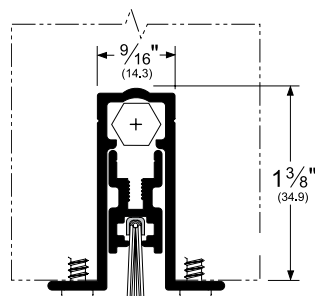


sponge EPDM (R)



411_NBL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: P516041 (BL, GR)
 ANSI: R3A324, R3A325

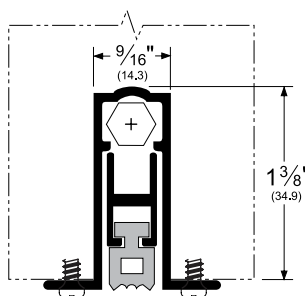


nylon brush (NB)



411_RL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: E7 (BL)
 ANSI: R3G324, R3G325



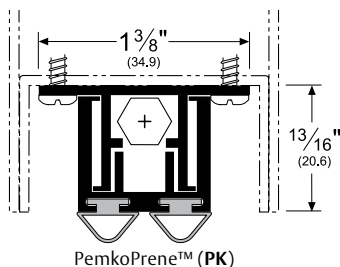
sponge EPDM (R)



420_PKL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: PK4 (BL, GR)
 ANSI: R3G324, R3G325

For hollow metal doors
 Maximum drop is 1/2"



PemkoPrene™ (PK)



Alternate Inserts For 434

434_PKL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: PK4304 (BL)
 ANSI: R3G324, R3G325



PemkoPrene™
(PK)



Alternate Inserts For 411

411_PKL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: PK4132 (BL)
 ANSI: R3G324, R3G325



PemkoPrene™
(PK)



411_SL

AVAILABLE FINISHES: A
 REPLACEMENT INSERT: SR6 (BL)
 ANSI: R3E324, R3E325



sponge silicone (S)



Alternate Inserts For 420

420_VL

AVAILABLE FINISH: A
 REPLACEMENT INSERT:
 EV41 (BL, GR, W)



Eco-V™ (V)



420_SL

AVAILABLE FINISH: A
 REPLACEMENT INSERT: S4 (BL, GR)
 ANSI: R3G324, R3G325



silicone (S)



NOTE: Products shown in this section may not be drawn to scale.

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

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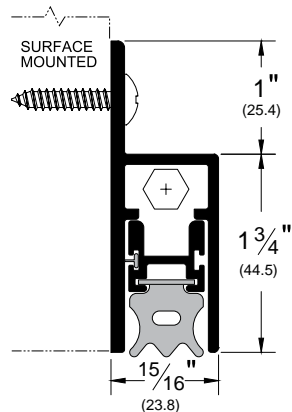
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Automatic Door Bottoms - Handed Surface and Semi-Mortise Models

- These models have all the same features as the 4301 and the 4131 except that these are handed and disassembly of the mechanism is required to reverse the hand
- For easy non-handed installation, PEMKO recommends using the 4301 rather than the 430, and the 4131 rather than the 412. The 4301 and 4131 are shown on page 153

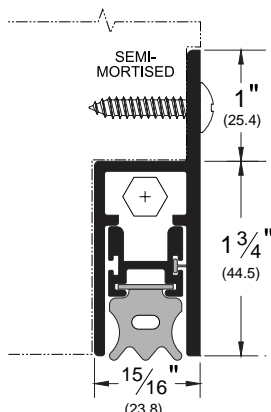
430_RL

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **E4303 (BL)**
ANSI: **R3G344, R3G345**



430_MRL

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **E4303 (BL)**
ANSI: **R3G344, R3G345**



Alternate Inserts For 430

430_PKL

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **PK4304 (BL)**
ANSI: **R3G334, R3G335**



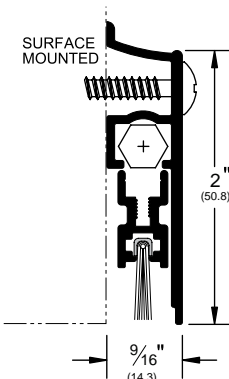
430_MPKL

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **PK4304 (BL)**
ANSI: **R3G334, R3G335**



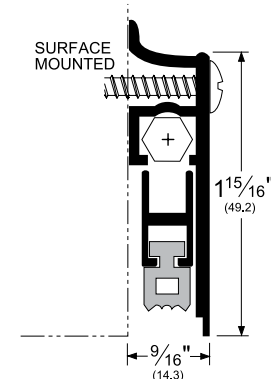
412_NBL

AVAILABLE FINISHES: **B, C, D, G, S**
REPLACEMENT INSERT: **P516041 (BL, GR)**
ANSI: **R3A334, R3A335**



412_RL

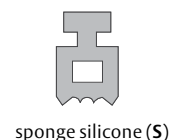
AVAILABLE FINISHES: **B, C, D, G, S**
REPLACEMENT INSERT: **E7 (BL)**
ANSI: **R3G334, R3G335**



Alternate Inserts For 412

412_SL

AVAILABLE FINISHES: **B, C, D, G, S**
REPLACEMENT INSERT: **SR6 (BL)**
ANSI: **R3E334, R3E335**



412_PKL

AVAILABLE FINISHES: **B, C, D, G, S**
REPLACEMENT INSERT: **PK4132 (BL)**
ANSI: **R3G334, R3G335**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze[Brass]) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
S (Cladded Stainless Steel)

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Security Door Bottoms

- Help prevent break-ins with PEMKO's security door bottoms
- Great for office buildings, dormitories, hotel/motels, multi-family housing, and other applications where break-ins from interior lever-handles are a problem
- Mounting screws and a cam are included
- Order stop bar (196) and thresholds (270, 2364, etc.) separately
- United States Patent No. 8,925,250 B2

PDB510_

AVAILABLE FINISHES: **C, D**

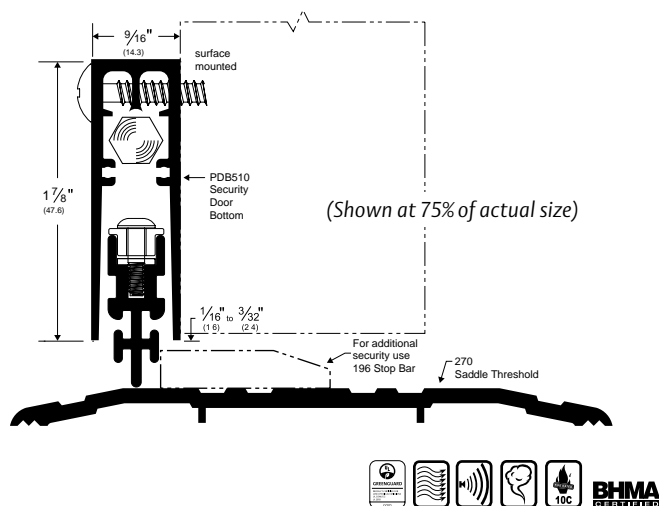
AVAILABLE LENGTHS: **36", 42", 48"**

ANSI: **R3Y334, R3Y335, R3Y344, R3Y345**

196_ and 270_

AVAILABLE FINISHES:

A, B, D, G



Residential Automatic Door Bottoms

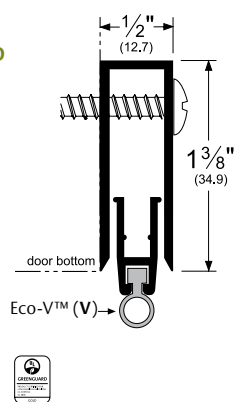
SA1_, SA2_, SA3_, SA4_

AVAILABLE FINISHES: **A** (no finish selection), **D**

AVAILABLE LENGTHS: **28", 32", 36", 42"**

REPLACEMENT INSERT: **EV5 (BL)**

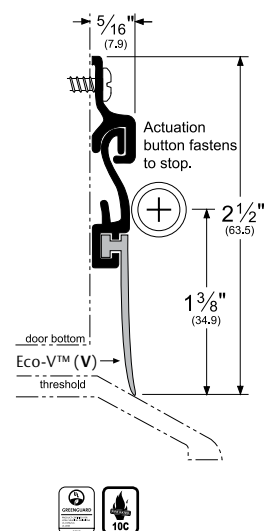
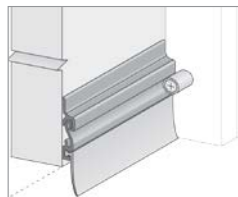
- Surface type for wood doors
- 1/2" maximum drop
- Can be trimmed down by as much as 2"
- Non-handed
- End plates are not provided



405_V

AVAILABLE FINISHES: **C, D, G, PW**
REPLACEMENT INSERT: **EV43 (BL, GR)**

- Spring loaded door bottom sweep
- Available in 36" length only
- May be cut down to 24" minimum length



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NOTE: Products shown in this section may not be drawn to scale.

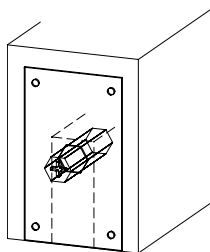
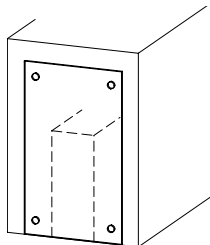
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **PW** (Painted White)

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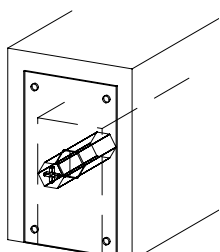
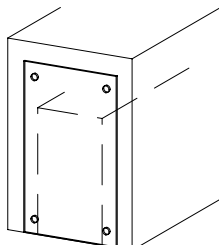
End Plates for Automatic Door Bottoms

- Metal end plates are provided to protect the mechanism and to give a clean, aesthetic appearance. Do not tighten with power tool
- Plunger end plate prevents the plunger adjustment from rotating
- Necessary fasteners are provided with End Plate kits

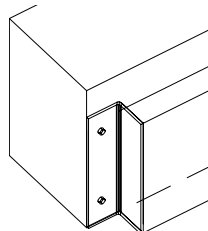
**411 and PDB411
End Plates Mortise**



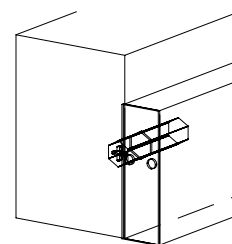
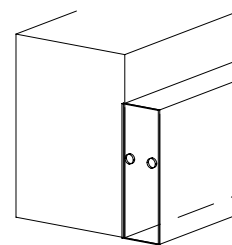
**434 End Plates
Mortise**



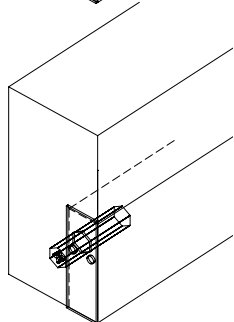
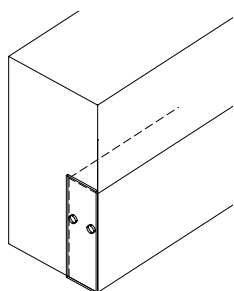
**412 End Plates
Surface Mount**



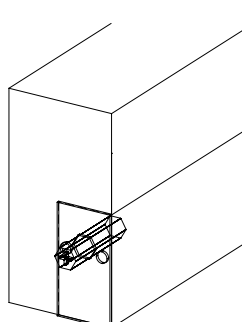
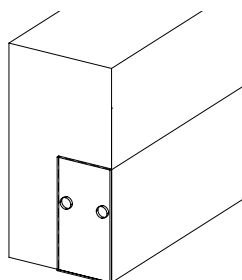
**PDB510 End Plates
Surface Mount**



**4131 and PDB4131
Auto Door Bottom
Semi-Mortise***



**4301-430 Auto Door Bottom
Semi-Mortise***



Automatic Door Bottom Kits

K411	Kit for 411 and PDB411 Door Bottom, 1 3/8" Doors
K412PA	Kit for 412 Door Bottom - Aluminum
K412PD	Kit for 412 Door Bottom - Dark Bronze
K412PG	Kit for 412 Door Bottom - Gold
K4133C	Kit for 4131, PDB4131 and 510 Door Bottoms, Clear
K4133D	Kit for 4131, PDB4131 and 510 Door Bottoms, Dark Bronze
K4133G	Kit for 4131 and PDB4131 Door Bottom, Bright Dip Gold
K420	Kit for 420 Door Bottom
K4301C	Kit for OS4301 Door Bottoms, Clear
K4301D	Kit for OS4301 Door Bottoms, Dark Bronze
K434	Kit for OS434 Door Bottom
K435	Kit for 411, 434 and PDB411 Door Bottom
K436	Kit for 4301 Door Bottom (surface)
K436SM	Kit for 4301 Door Bottom (semi-mortised)
K437	Kit for 430 (surface)
K437SM	Kit for 430_M (semi-mortised)
K435-PREM	Special End-Support Mounting Kit for 434 (sold separately)

*430, 4301, and 4131 models can also be applied as surface mount

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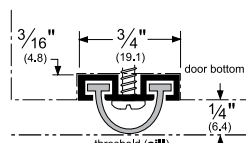
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Specialty Door Bottoms

- May be used in many different applications. Some of these shapes may be used as meeting stile gasketing; see pages 172 to 173 for examples

313_N

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
E1 (BL, GR)
ANSI: **R3G416**

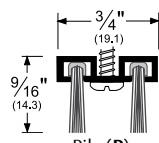


EPDM (N)



313_P

AVAILABLE FINISH: **A, D, G**
REPLACEMENT INSERT:
SB14025 (BL, GR)
ANSI: **R3F416**

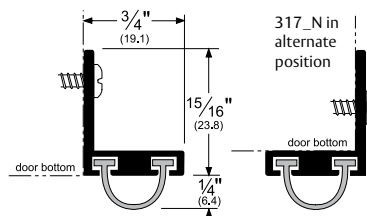


Pile (P)



317_N

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **E1 (BL, GR)**
ANSI: **R3G416**

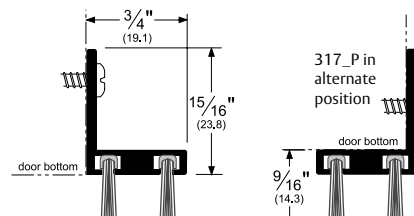


EPDM (N)



317_P

AVAILABLE FINISH: **A, D, G**
REPLACEMENT INSERT: **SB14025 (BL, GR)**
ANSI: **R3F416**

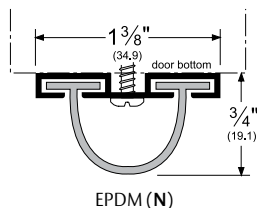


Pile (P)



314_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **E3 (BL, GR)**
ANSI: **R3G416**

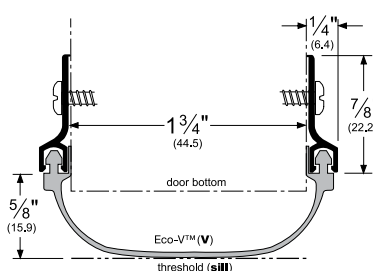


EPDM (N)



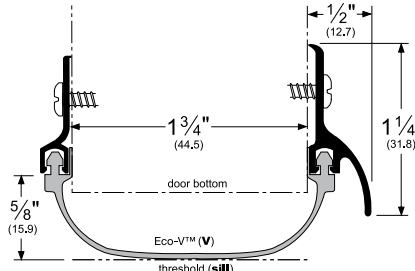
318_V

AVAILABLE FINISHES: **A, BDG, D, G, PW**
REPLACEMENT INSERT: **EV58 (BL, GR)**



3185_V

AVAILABLE FINISHES: **A, BDG, D, G, PW**
REPLACEMENT INSERT: **EV58 (BL, GR)**

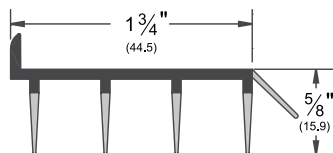


Eco-V™ Door Shoes

- Dual durometer Eco-V™ door shoe
- EV80_ is furnished net 36"

EV80_

AVAILABLE FINISHES: **D**
AVAILABLE LENGTHS: **36" NET**

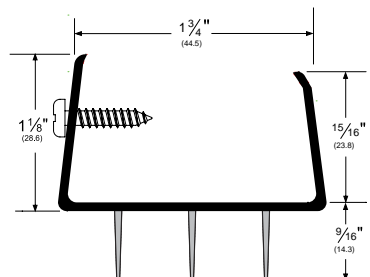


2170_V

AVAILABLE COLORS: **D, W**
AVAILABLE LENGTHS: **36", 48"**

Also available with
unnotched insert:

2170_V36UN
2170_V48UN



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **PW** (Painted White) **VINYL DOORS SHOES: D** (Dark Brown) **W** (White)

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Door Shoes

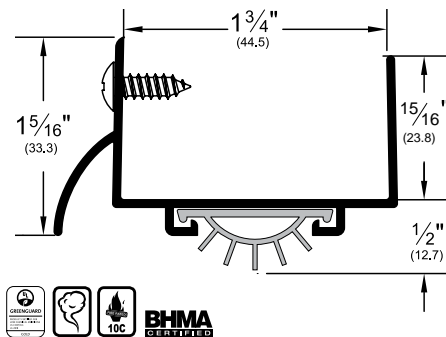
- Profiles on this page available with PemkoPrene™ (PK) or
- Eco-V™ (V); both are the same shape and size
- Slotted holes for easy adjustment
- Rain drip model is ideal for deflecting rain away from the bottom of door

216_V

AVAILABLE FINISHES: A, B, BDG, D, G, PW, SN
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D514

216_PK

AVAILABLE FINISHES: A, B, BDG, D, G, PW, SN
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G514

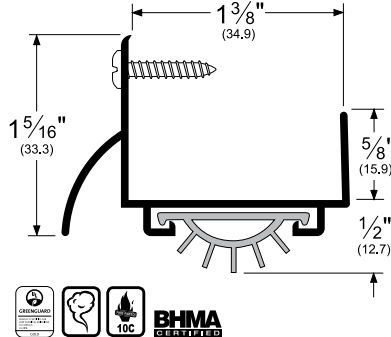


215_V

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D514

215_PK

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G514

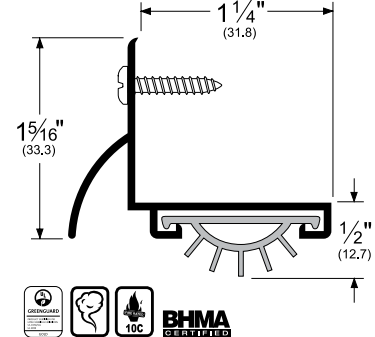


210_V

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D514

210_PK

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G514

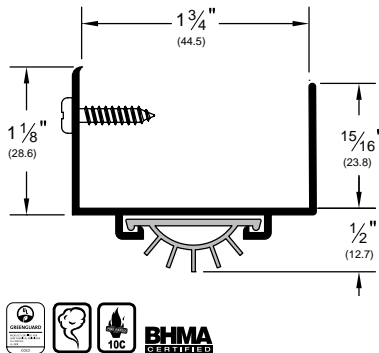


217_V

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D414

217_PK

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G414

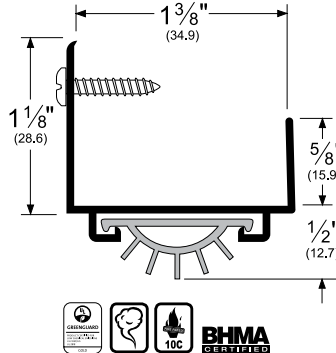


220_V

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D414

220_PK

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G414

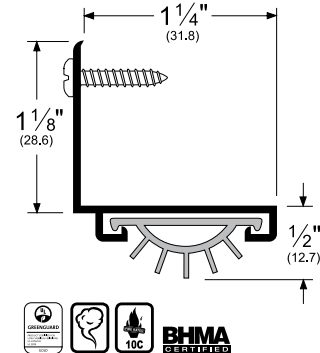


211_V

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D414

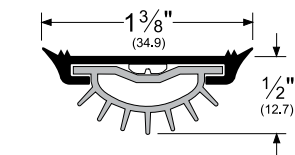
211_PK

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G414



209_V

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: EV15 (BL, GR)
ANSI: R3D414

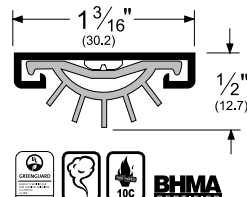


234_V

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: EV9 (BL, GR)
ANSI: R3D414

234_PK

AVAILABLE FINISHES: A, D, G
REPLACEMENT INSERT: PK9 (BL, GR)
ANSI: R3G414



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE
(see General Information section for finish chart)
A (Mill Finish Aluminum) BDG (Bright Dip Gold Anodized)
D (Dark Bronze Anodized) G (Gold Anodized)
PW (Painted White)

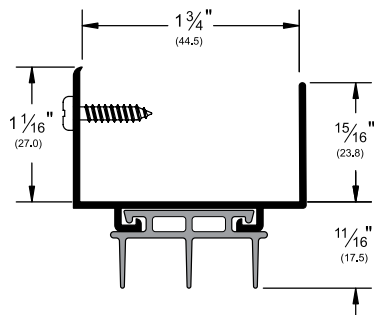
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Door Shoes (Cont.)

2173_V

AVAILABLE FINISHES: **A, BDG, D, G, PW**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **EV94 (BL)**
 ANSI: **R3D414, R3D415**



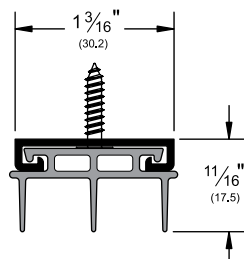
Also available with
unnotched insert:

2173_V36UN
 2173_V48UN



2343_V

AVAILABLE FINISHES: **A, D, G**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **EV94 (BL)**
 ANSI: **R3D414, R3D415**



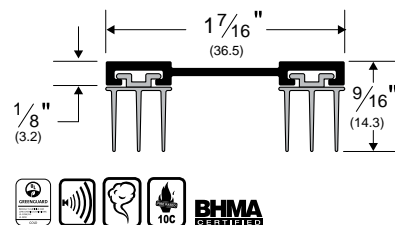
Also available with
unnotched insert:

2343_V36UN
 2343_V48UN



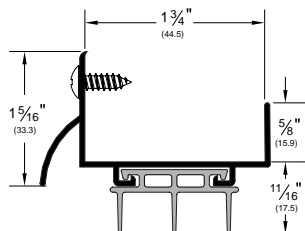
3692_PK773

AVAILABLE FINISHES: **A**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **PK773 (BL, GR)**
 ANSI: **R3G414, R3G415**



2163_V

AVAILABLE FINISHES: **A, D, G**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **EV94 (BL)**
 ANSI: **R3D514, R3D515**



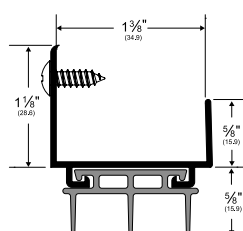
Also available with
unnotched insert:

2163_V36UN
 2163_V48UN



2203_V

AVAILABLE FINISHES: **A, D, G**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **EV94 (BL)**
 ANSI: **R3D414, R3D415**



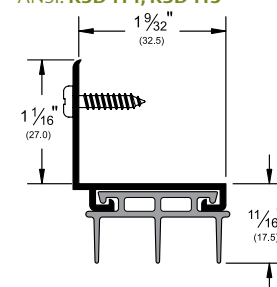
Also available with
unnotched insert:

2203_V36UN
 2203_V48UN



2113_V

AVAILABLE FINISHES: **A, D, G**
 AVAILABLE LENGTHS: **36", 48"**
 REPLACEMENT INSERT: **EV94 (BL)**
 ANSI: **R3D414, R3D415**



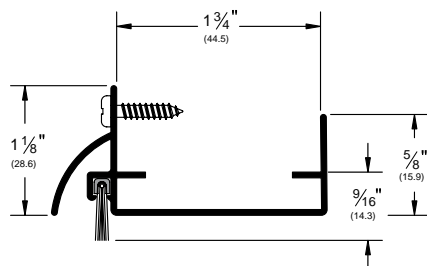
Also available with
unnotched insert:

2113_V36UN
 2113_V48UN



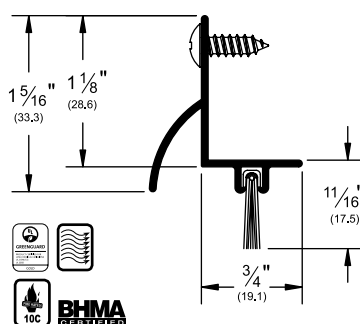
223_NB

AVAILABLE FINISHES: **A, D, G**
 REPLACEMENT INSERT: **P516041 (BL, GR)**
 ANSI: **R3A514, R3A515**



2230_NB

AVAILABLE FINISHES: **A, D, G**
 REPLACEMENT INSERT: **P516062 (BL, GR, W)**
 ANSI: **R3A514, R3A515**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White)

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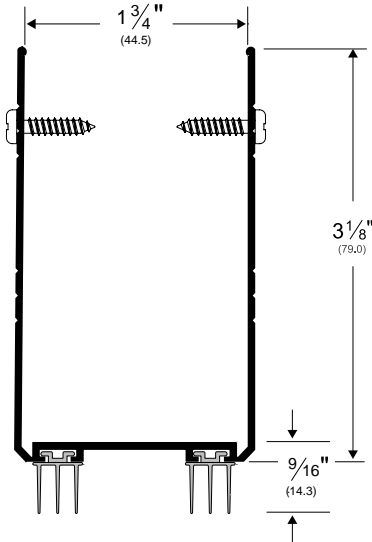
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Door Shoes (Cont.)

2212_PK773

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK773 (BL)**
ANSI: **R3G416**

- Combination door shoe and kick plate
- Excellent Acoustic performance



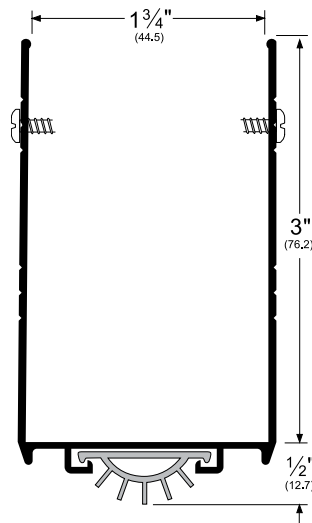
221_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

221_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**

- Combination door shoe and kick plate



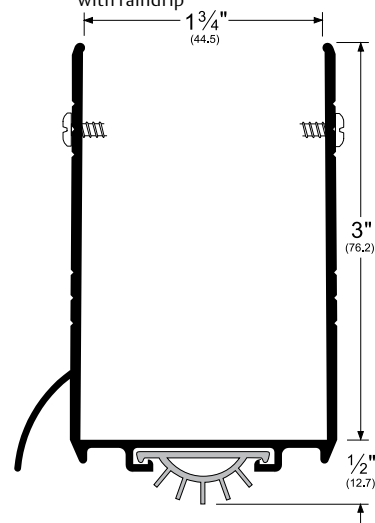
2211_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

2211_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G514**

- Combination door shoe and kick plate with raindrip



Door Sweeps for Hollow Metal Doors

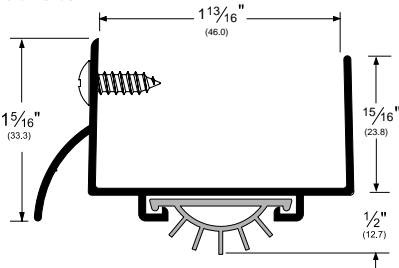
- Profiles in this section available with PemkoPrene™ (PK) or Eco-V™ (V); both are the same shape and size
- Slotted holes for easy adjustment
- Rain drip model is ideal for deflecting rain away from the bottom of door

2251_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

2251_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G514**

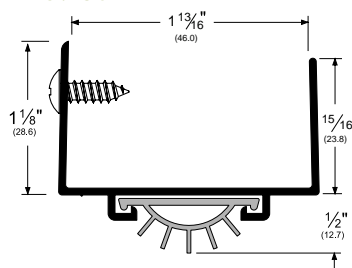


225_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

225_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**

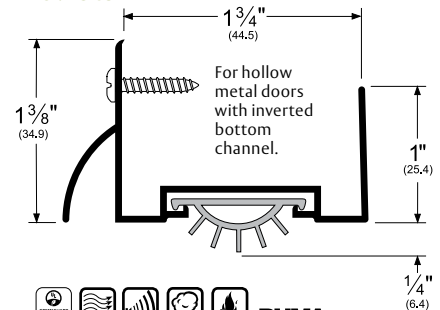


2221_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

2221_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3G514**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

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Door Sweeps for Hollow Metal Doors (Cont.)

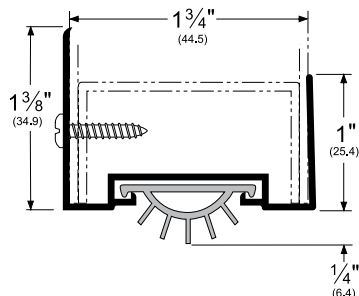
222_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

222_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**

- For hollow metal doors with inverted bottom channel

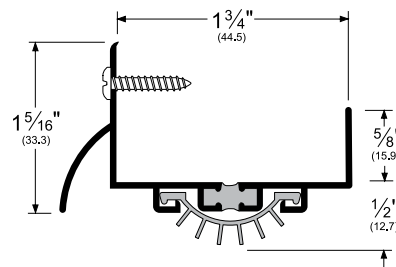


Thermally Broken Door Shoe

- Polypropylene thermal break (FG) prevents conductivity of hot or cold from exterior to interior. Supplied with PemkoPrene™ Seal

216_FG

AVAILABLE FINISHES: **BDC, BDG, D, PW, SN**
REPLACEMENT INSERT: **PK216 (BL, GR)**
ANSI: **R3D514**

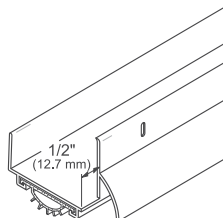


Fabrication Options for Door Shoes

1/2" Full Notch

- Fabrication includes: removal of rain drip and front flange of door shoe to prevent interference with door stop and weatherstrip
- Ordering: order width of door leaf, and designate by adding "M" following the product number

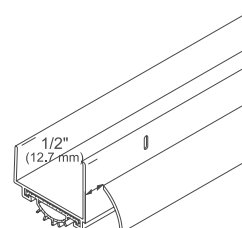
(Example: a 216AV with a 1/2" full notch fabrication, for a 36" door leaf = 216AVM36)



1/2" Half Notch

- Fabrication includes: removal of rain drip to prevent interference with door stop and weatherstrip
- Ordering: order width of door leaf and designate by adding "N" following the product number
- Special: Other half notches available are 9/16", 5/8", and 3/4" widths, please specify when ordering

(Example: a 216AV with a 1/2" half notch fabrication, for a 36" door leaf = 216AVN36)



Single Miter

- Fabrication includes:
- Ordering: order width of door leaf and specify by add "xMR" following the product number and length

(Example a 216AV with single miter fabrication for a 36" door leaf = 216AV36xMR)



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NOTE: Products shown in this section may not be drawn to scale.

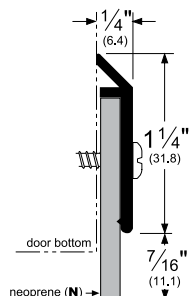
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDC** (Bright Dip Clear Anodized) **BDG** (Bright Dip Gold Anodized)
D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)

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Door Bottom Sweeps

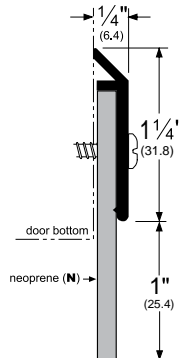
315_N

AVAILABLE FINISHES: **B, C, D, G, PW, SN**
REPLACEMENT INSERT: **N8 (BL, GR)**
ANSI: **R3B434, R3B435**



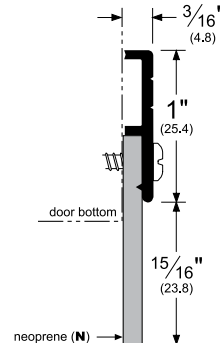
3151_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **N9 (BL)**
ANSI: **R3B434**



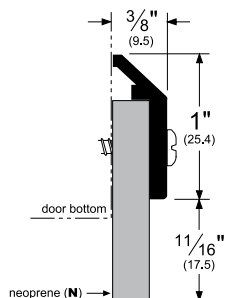
321_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **N8 (BL)**
ANSI: **R3B434, R3B435**



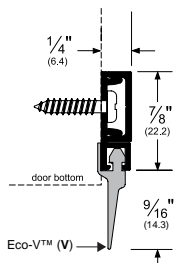
368_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **N10 (BL)**
ANSI: **R3B434, R3B435**



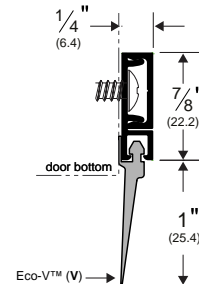
29326_V

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **EV65 (BL, GR, W)**
ANSI: **R3D434**



293100_V

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **EV54 (BL, GR, W)**
ANSI: **R3D434**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized)
D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)

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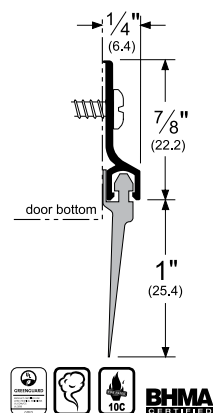
Door Bottom Sweeps (Cont.)

307_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV54 (BL, GR, W)
ANSI: R3D434

307_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK (BL, GR)
ANSI: R3G434

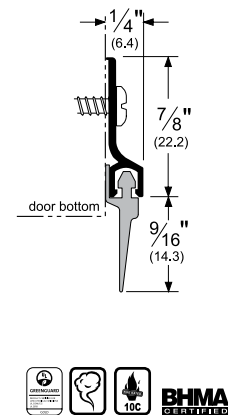


308_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV65 (BL, GR)
ANSI: R3D434

308_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK65 (BL, GR)
ANSI: R3D434

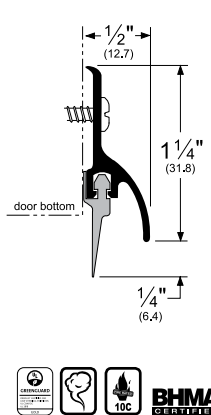


3452_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV65 (BL, GR, W)
ANSI: R3D534

3452_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK65 (BL, GR)
ANSI: R3G534

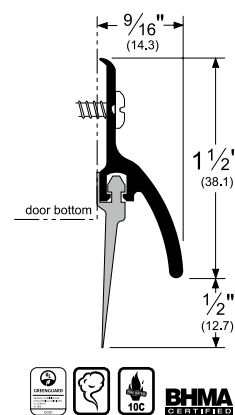


345_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW
REPLACEMENT INSERT:
EV54 (BL, GR, W)
ANSI: R3D534

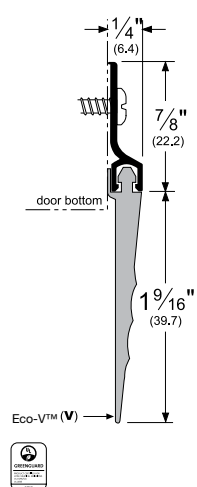
345_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW
REPLACEMENT INSERT:
PK54 (BL, GR)
ANSI: R3G534



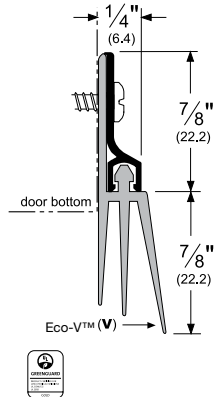
56_V

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
EV56 (BL, GR)



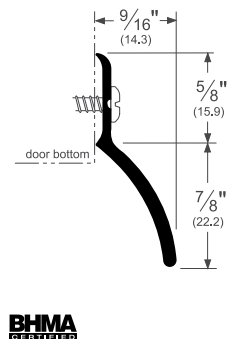
57_V

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
EV57 (BL, GR)



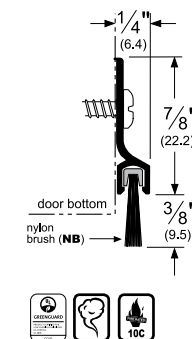
345_

AVAILABLE FINISHES:
A, B, BDG, C, D, G, PW
ANSI: R3Y936



309_P

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
P3 (BL, GR)



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NOTE: Products shown in this section may not be drawn to scale.

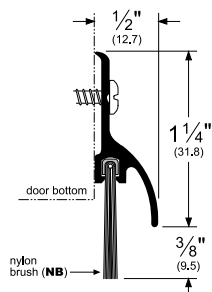
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized)
C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White)
SN (Satin Nickel Anodized)

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Door Bottom Sweeps (Cont.)

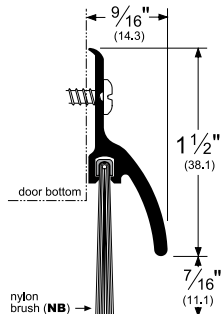
3452_NB

AVAILABLE FINISHES:
BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
P14075 (BL, GR)
ANSI: **R3A534**



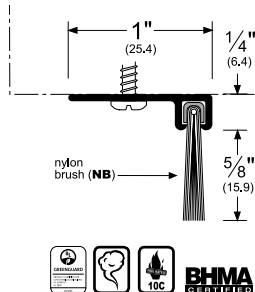
345_NB

AVAILABLE FINISHES:
A, BDG, D, G, PW
REPLACEMENT INSERT:
P14100 (BL, GR)
ANSI: **R3A534**



90062_NB

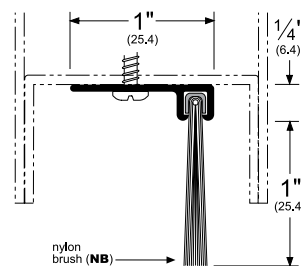
AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A414**



90100_NB

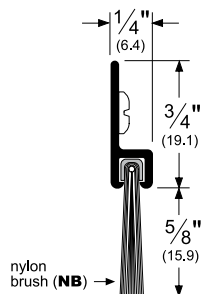
AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516100 (BL, GR, W)
ANSI: **R3A414**

For hollow metal doors
with inverted channel



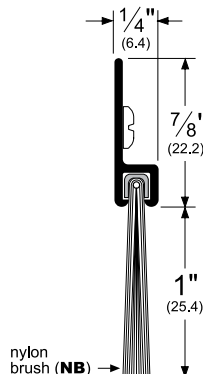
18061_NB

AVAILABLE FINISHES:
C, D, G, SN
REPLACEMENT INSERT:
P51062 (BL, GR, W)
ANSI: **R3A434**



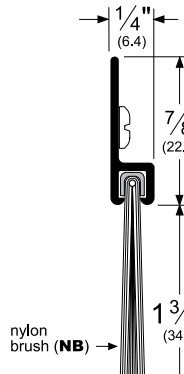
18100_NB

AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
P38100 (BL, GR)
ANSI: **R3A434**



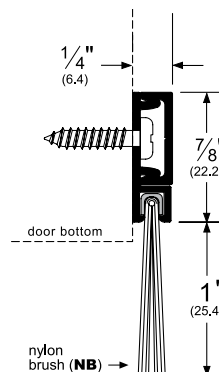
18137_NB

AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
P38137 (BL, GR)
ANSI: **R3A434**



293100_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516100 (BL, GR)



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **PD** (Painted Dark Bronze) **SN** (Satin Nickel Anodized)

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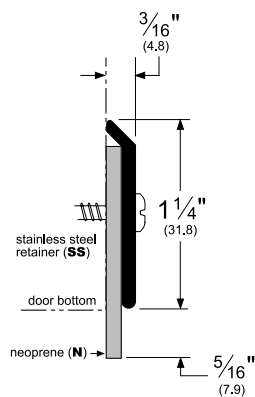
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Stainless Steel Door Bottom Sweeps

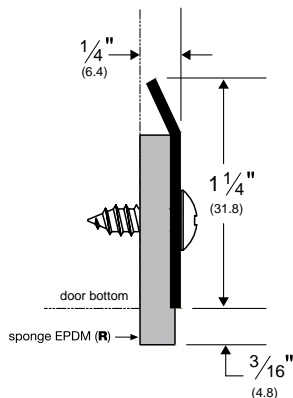
315SSN

AVAILABLE FINISH: **SS (#4 Finish)**
 REPLACEMENT INSERT: **N8 (BL)**
 ANSI: **R5B434, R5B435**



315SSR

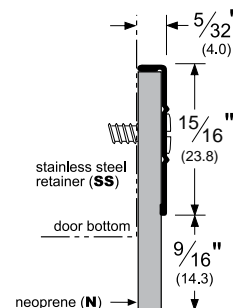
AVAILABLE FINISH: **SS (#4 Finish)**
 REPLACEMENT INSERT: **ER2 (BL)**
 ANSI: **R5G164, R5G165**



321SSN

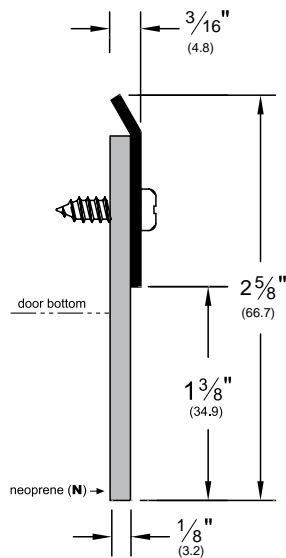
AVAILABLE FINISH: **SS**
 REPLACEMENT INSERT: **N8 (BL)**
 ANSI: **R5B165**

- 430 Bright Annealed SS



3151SSN

AVAILABLE FINISH: **SS (#4 Finish)**
 REPLACEMENT INSERT: **N9 (BL)**
 ANSI: **R5B434, R5B435**



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NOTE: Products shown in this section may not be drawn to scale.

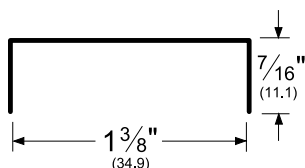
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
 SS (See Individual Part)

Door Top Weatherstrip

_343

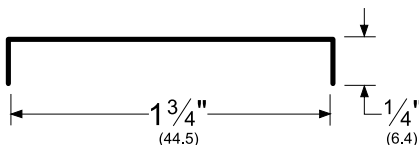
AVAILABLE FINISHES: **PA**
AVAILABLE LENGTHS: **36", 48"**

- For top of 1 3/8" wood doors



_344

AVAILABLE FINISHES: **PA**
AVAILABLE LENGTHS: **36", 48"**



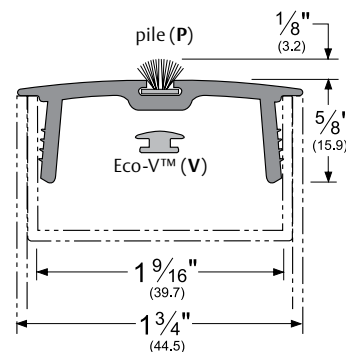
377VP_

REPLACEMENT INSERT: **P2 (BL, GR)**

377V_

REPLACEMENT INSERT: **EV38 (Tan)**

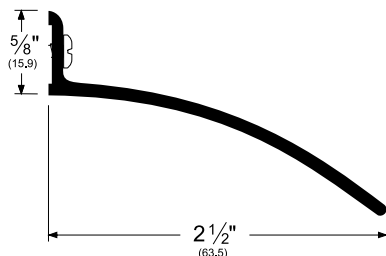
Rigid tan colored Eco-V™ with Eco-V™ (V) insert or pile (P) insert used as a door top (or bottom) filler strip for hollow metal doors



346_

AVAILABLE FINISHES: **C, D, G, PW**

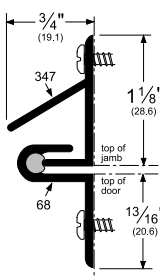
- Overhead rain drip with slotted holes
- Should be ordered a minimum of 4" longer than the door width



347_

68_R

AVAILABLE FINISHES: **A, D, G**



Heavy Duty Door Bumper

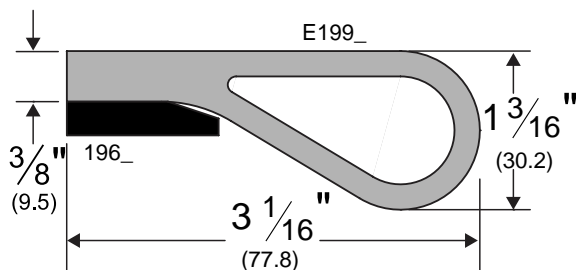
- Heavy duty door bumper extruded from black EPDM (E)
- Order 196_ separately; furnished undrilled unless requested otherwise

E199_

AVAILABLE COLOR: **BL**

196_

AVAILABLE COLOR: **A**



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PA** (Painted Aluminum) **PW** (Painted White)

Non-Metal Finish: **BL** (Black)

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ASTRAGALS & MEETING STILES

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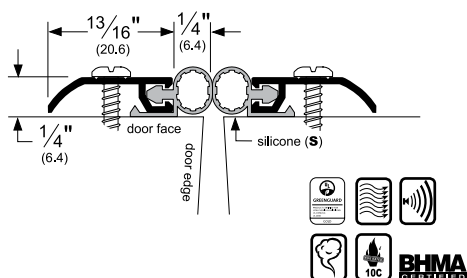
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Astragal and Meeting Stile Gasketing - Split Astragals

- Astragals and meeting stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of **NFPA 80, 6.3.1.7.1 "The clearance between... the meeting edges of doors swinging in pairs on the pull side shall be $\frac{1}{8}" \pm \frac{1}{16}"$ (3.18mm \pm 1.59mm) for steel doors and shall not exceed $\frac{1}{8}"$ (3.18mm) for wood doors"**
- Order split astragals at two (2) pieces by door height per set of double doors. When ordering add "/2" to the end of the part number to specify 2 pieces (i.e. order quantity 1 each 303AS84/2 to get two lengths at 84 inches)
- Punched with slotted holes for adjustment
- Clear anodized brush products are supplied with gray brush. Painted white brush products are supplied with white brush when available, otherwise black brush is supplied. All other finishes supplied with black brush. Black brush is available for clear anodized and painted white brush products upon request.

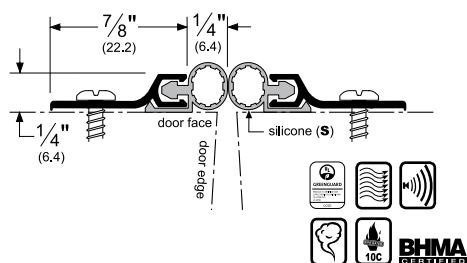
297_S

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
S3 (BL, W)
ANSI: **R3E734, R3E735**



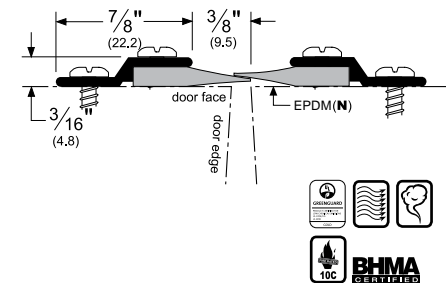
303_S

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
S3 (BL, W)
ANSI: **R3E734, R3E735**



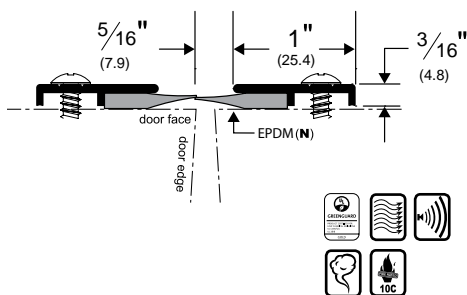
305_N

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
E2 (BL, GR)
ANSI: **R3G734, R3G735**



329_N

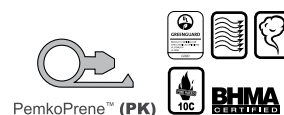
AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
E2 (BL, GR)



Alternate Inserts For 297

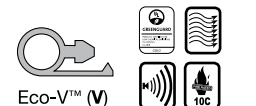
297_PK

AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
PK47 (BL, GR)
ANSI: **R3G734, R3G735**



297_V

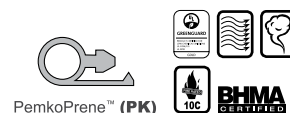
AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
EV47 (BL, GR, W)



Alternate Inserts For 303

303_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK47 (BL, GR)
ANSI: **R3G734**



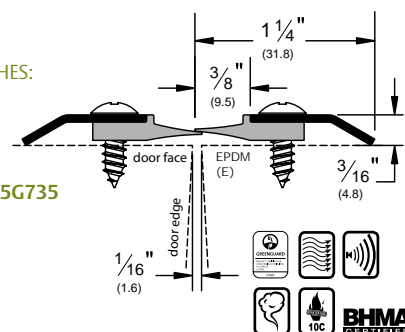
303_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV47 (BL, GR, W)



305SSE

AVAILABLE FINISHES:
SS (#4 Finish)
REPLACEMENT INSERT:
E2 (BL, GR)
ANSI: **R5G734, R5G735**



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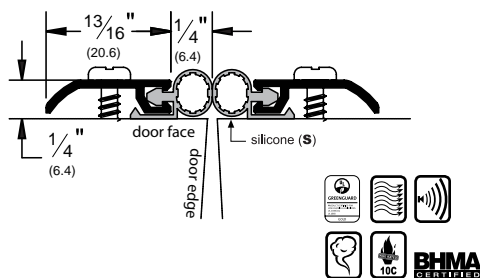
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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)
Special finishes available upon request

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

316_S

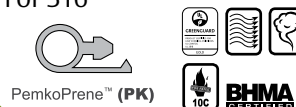
AVAILABLE FINISHES:
A, BDG, D, G
REPLACEMENT INSERT:
S3 (BL, W)
ANSI: **R3E734, R3E735**



Alternate Inserts For 316

316_PK

AVAILABLE FINISHES:
A, BDG, D, G
REPLACEMENT INSERT:
PK47 (BL, GR)
ANSI: **R3G734, R3G735**



316_V

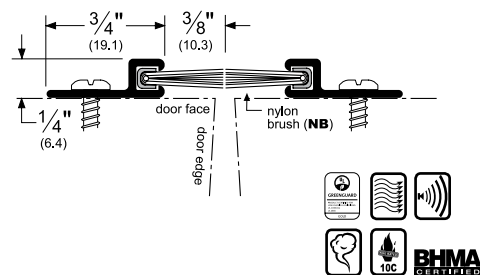
AVAILABLE FINISHES:
A, BDG, D, G
REPLACEMENT INSERT:
EV47 (BL, GR, W)



18041_NB

AVAILABLE FINISHES:
C, D, G, SN
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A734**

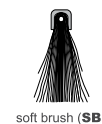
NOTE: Brush should mesh from 1/32\" to 1/16\".



Alternate Inserts For 18041

18041_SB

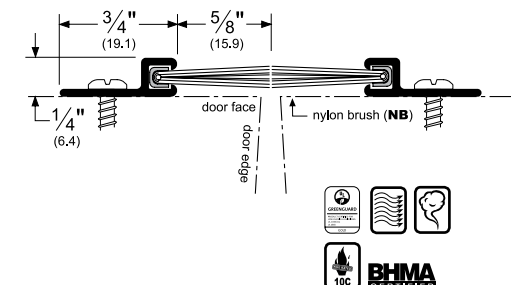
AVAILABLE FINISHES:
C, D, G, SN
REPLACEMENT INSERT:
P3 (BL, GR)



18061_NB

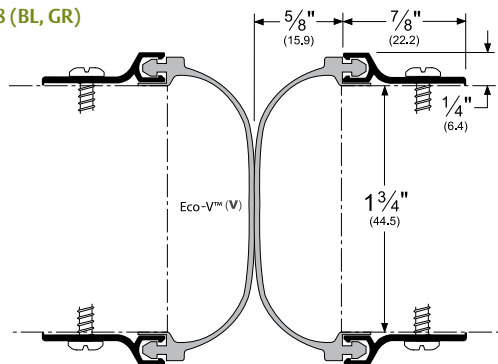
AVAILABLE FINISHES:
C, D, G, SN
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A734**

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



318_V

AVAILABLE FINISHES:
A, BDG, D, G, PW
REPLACEMENT INSERT:
EV58 (BL, GR)



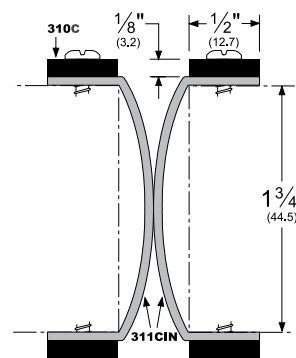
310_*

311CIN

AVAILABLE FINISHES:
C

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

* Sold individually



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

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



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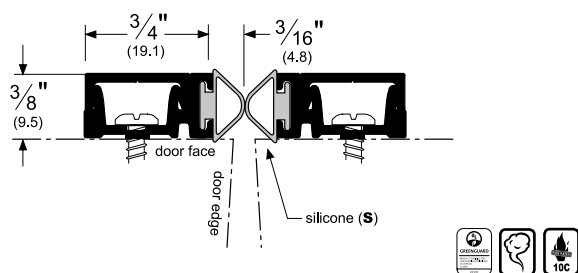
Split Astragals with Snap Covers – Concealed Fasteners

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

- Replacement snap cover part number is _29316. Please specify finish and length when ordering.

29310_S

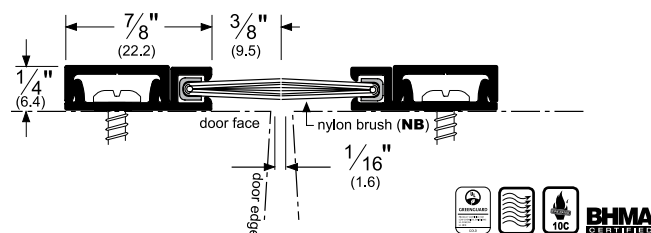
AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
S4 (BL, GR)
ANSI: **R3E734**



29324_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516041 (BL, GR)

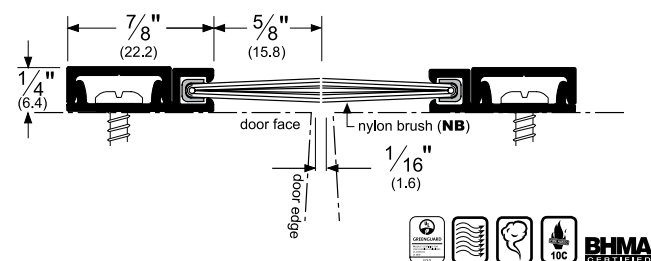
NOTE: Brush should mesh from 1/32" to 1/16".



29326_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516062 (BL, GR, W)

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



Alternate Inserts For 29310

29310_PK

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
PK4 (BL, GR)
ANSI: **R3G734**



29310_P

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)



29310_V

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
EV41 (BL, GR, W)



Alternate Inserts For 29324

29324_SB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P3 (BL, GR)

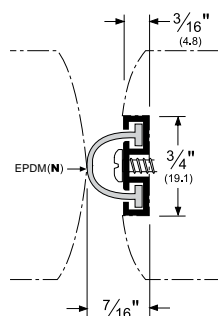


Meeting Stile Gasketing

- These products do not work well on beveled-edge pairs of doors

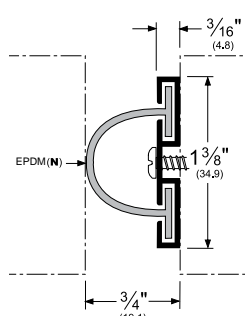
313_N

AVAILABLE FINISHES:
A, D, G
REPLACEMENT INSERT:
E1 (BL, GR)



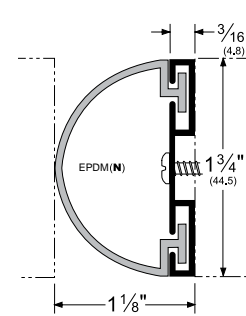
314_N

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
E3 (BL, GR)



358_N

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
E6 (BL, GR)



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

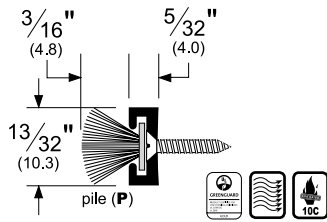
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Meeting Stile Gasketing (Cont.)

- Astragals/Meeting Stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of NFPA 80, 2-5.4
- These products (except _71) do not work well on beveled-edge pairs of doors

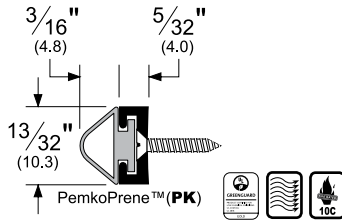
369_P

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
P2 (BL, GR)



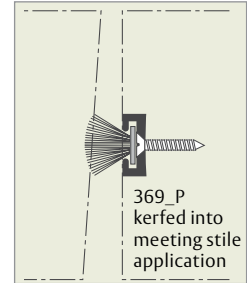
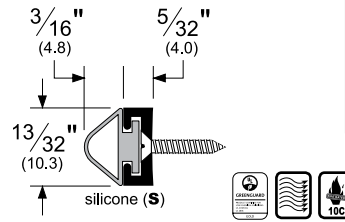
369_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
PK4 (BL, GR)



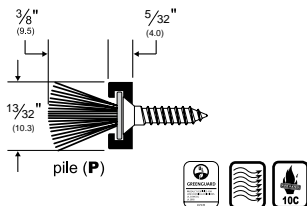
369_S

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
S4 (BL, GR)



369_P4

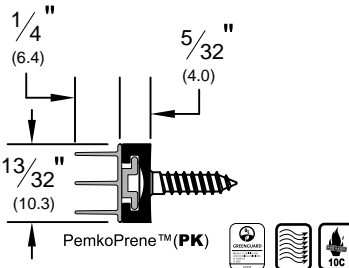
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
P4 (BL, GR)



369_PK773

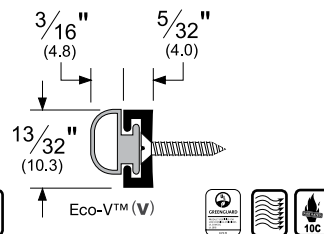
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
PK773 (BL, GR)

- Gasket only available in 36" or 49" lengths and will be spliced a continuous metal retainer



369_V

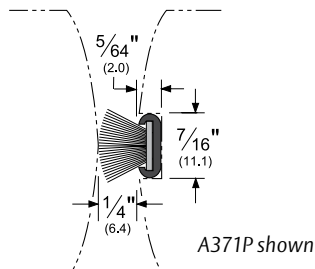
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT:
EV41 (BL, GR, W)



A371P (1/4" pile)

A372P (3/8" pile)

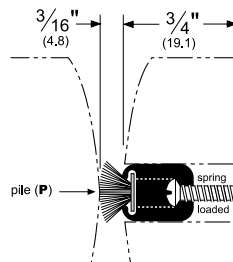
- Available in 84" and 96" lengths
- Available with gray pile only
- Fasten with nails or staples through pile and backing, or use adhesive. Fasteners not supplied
- Pile and backing do not separate



300_P

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)

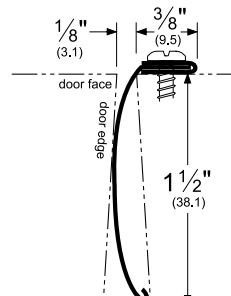
- For a 3/8" gap (or smaller) between doors
- Spring-loaded from back side



B71

SS71

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



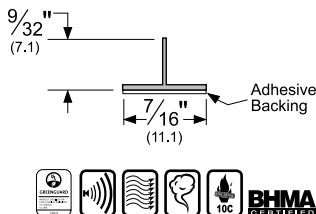
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **B** (Hemmed Spring Bronze) **C** (Clear Anodized)
D (Dark Bronze Anodized) **G** (Gold Anodized) **SS** (Stainless Steel) Special finishes available upon request

Adhesive Astragal/Meeting Stile Seals

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

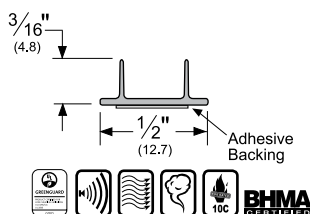
S771_

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E754, R0E755**



S772_

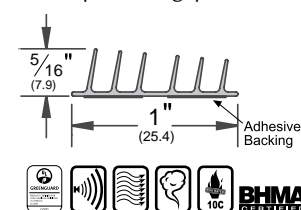
AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E754, R0E755**



S771x6_

AVAILABLE FINISHES: **BL, C**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E154, R0E155, R0E754, R0E755**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{5}{16}$ \"/>



Notes For All Adhesive Gasketing:

Storage and shelf life: All adhesive gaskets have a limited shelf life. This product must be installed within 6 months of purchase and must be stored between 50°F and 100°F. For further notes/details, please see Adhesive Gasketing section.

Adjustable Astragals

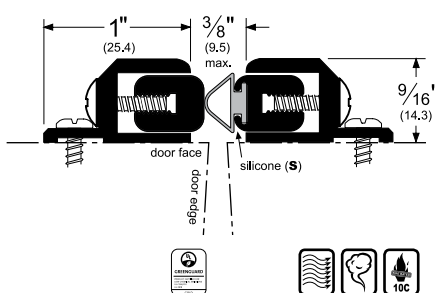
- Available in 84\", 96\" and 120\" lengths
- When used as split astragals on double doors, two lengths must be ordered: one for each door

351_S

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
S4 (BL, GR)

- Surface applied
- For use with square-edge or bevel-edge doors

351_ / 351_S* shown below

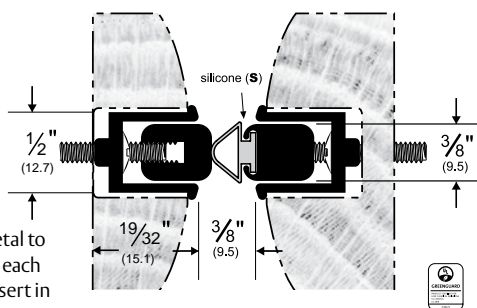


354_S

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
S4 (BL, GR)

- Fully mortised
- Designed for use with bullnose doors

354_ / 354_S* shown below



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

Alternate Inserts For 351

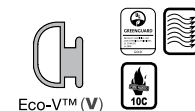
351_PK

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
PK4 (BL, GR)



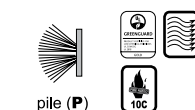
351_V

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
EV41 (BL, GR, W)



351_P

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)



Alternate Inserts For 354

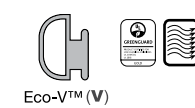
354_PK

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
PK4 (BL, GR)



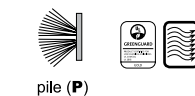
354_V

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
EV41 (BL, GR, W)



354_P

AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze [Brass]) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
Special finishes available upon request
Gasket colors: **BL** (Black) **C** (Clear) **D** (Dark) **GR** (Gray) **W** (White)

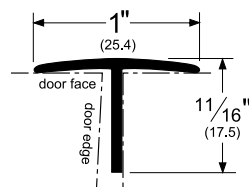
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"T" and Overlapping Astragals

359_

AVAILABLE FINISHES:
A, BDG, D

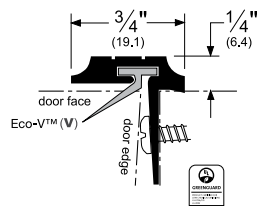
- Supplied with weatherstrip nails for installation



356_V

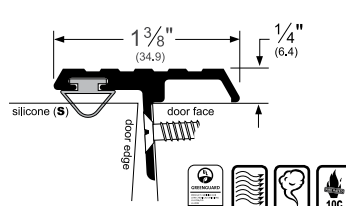
AVAILABLE FINISHES:
A, BDG, D, PW, SN
REPLACEMENT INSERT:
EV17 (BL, GR, W)

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



355_S

AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
S4 (BL, GR)



Alternate Inserts For 355

355_V

AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV7 (BL, GR, W)



355_P

AVAILABLE FINISHES:
B, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
P2 (BL, GR)

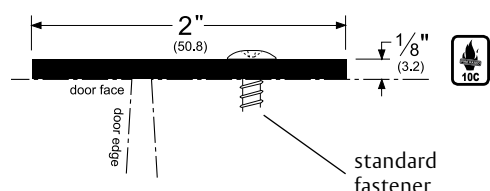


357_ 357_ND

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

11 GAUGE

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

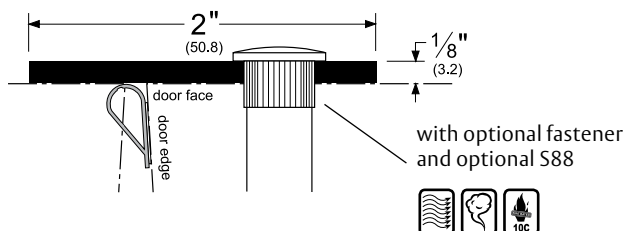


357_ with S88

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

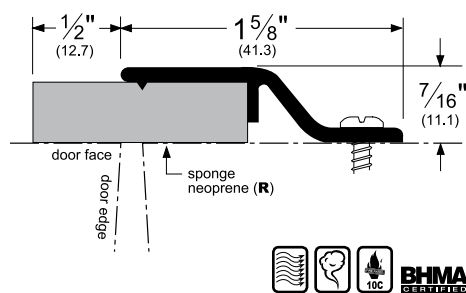
11 GAUGE

- Standard fastener is #10 x 1" Truss Head SMS
- 1/4" - 20 machine screws and thru-bolts must be ordered separately at additional cost
- S88 seal must be ordered separately at an additional cost, if required
- If specifications state that an astragal is required to satisfy a fire and / or smoke opening, then a thru-bolted 357SP or SS in conjunction with S88 seal is the only configuration that can be used.



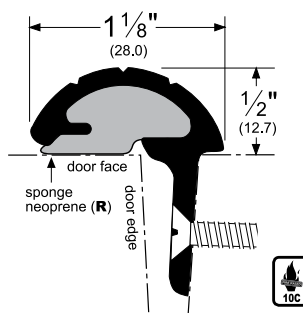
375_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **R4 (BL)**
ANSI: **R3C634, R3C635**



352_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **R8 (BL)**
For reverse bevel doors



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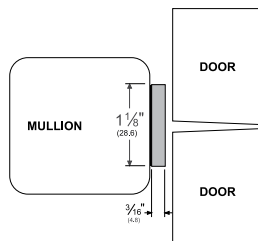
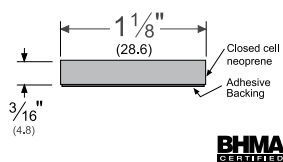
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door opening solutions

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized)
D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized) **SP** (Galvannealed Steel)
SS (See Individual Part) Special finishes available upon request

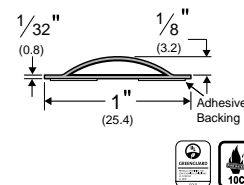
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Adhesive-Backed Mullion Gasketing Adhesive Astragal Seal

5110_
AVAILABLE FINISH: **BL**
AVAILABLE LENGTHS: **120"**
ANSI: **R0C004**



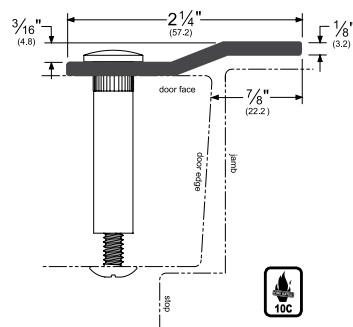
S1125_
AVAILABLE FINISH: **BL**
AVAILABLE LENGTHS: **7, 8, 10**



Offset Security Bar

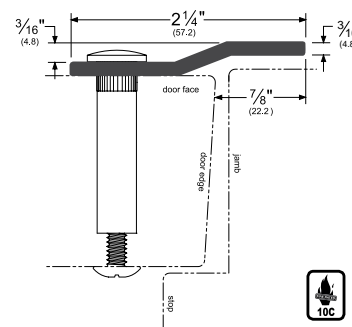
- For use on single outswing wood or metal doors
- Covers gap between the door and jamb for the full door height, preventing prying and manipulation

3572_
3572_ND
AVAILABLE FINISHES:
SP, SS (#4 Finish & #4 Edge)
AVAILABLE LENGTHS:
80\", 84\" and 96\"
10 GAUGE



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

3572PP7
3572PP7ND
AVAILABLE FINISHES:
PP
AVAILABLE LENGTHS:
84\"
7 GAUGE

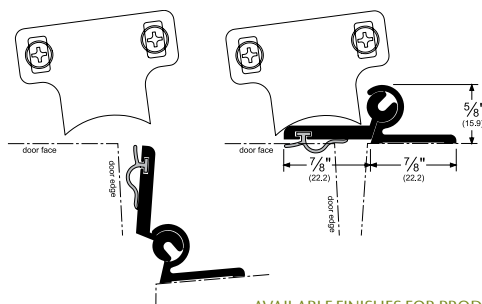


Security Astragal

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

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

378_
AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
EV23 (GR)
AVAILABLE LENGTHS:
86\", 96\"



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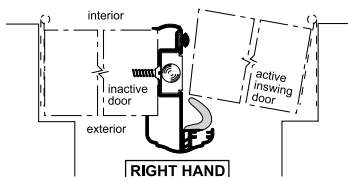
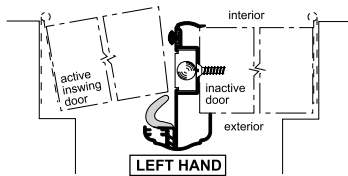
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PP** (Prime Painted)
SP (Galvanized Steel) **SS** (See Individual Part)
Special finishes available upon request

Locking Astragals

- Weatherstripped astragals with locking spring bolts or slide bolts for $1\frac{3}{4}$ " inswing double doors
- Odd numbered astragals have economical smooth acting slide bolts. Slide bolts are 4" from the top/bottom standard; optional 18" slide bolt is available for easier access. Even numbered astragals have locking spring bolts. Both have full $\frac{3}{8}$ " diameter steel bolts with $1\frac{1}{16}$ " throw. In the extended and locked position, locking spring bolts cannot be easily retracted by tampering. In the retracted position, the spring loaded bolts latch firmly, preventing marking of the floor and door header trim when opening or closing the inactive door
- Styles **3493** thru **3498** come with a molded sponge neoprene bottom seal
- All feature four-way adjustable strike plate mounting for latchbolt and deadbolt
- All come with a Eco-V™ snap-in cover strip to conceal the cutout and cover the mounting screws
- Astragal stock lengths are 80", 84", 96" and 120"
- A standard deadbolt punchout is $\frac{3}{4}$ " x 4" at 40" on center Punchout supplied on request only
- For non-stock astragals, specify deadbolt punchout size and center distance from top end
- Specify handing using the handing chart on page 178 or 180

Handing Chart For Astragals (For pages 177 thru 179)

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



Slimline style with slide bolt 3493_S

REPLACEMENT INSERT: **S4 (BL, GR)**

3493_V

REPLACEMENT INSERT: **EV67 (BL, W)**

AVAILABLE FINISHES:

BDG, C, D, G, PW, SN

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

Slimline style with locking spring bolt 3494_S

REPLACEMENT INSERT: **S4 (BL, GR)**

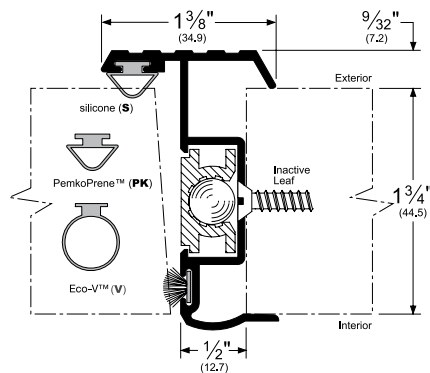
3494_V

REPLACEMENT INSERT: **EV67 (BL, W)**

AVAILABLE FINISHES:

BDG, C, D, G, PW, SN

Slimline Style

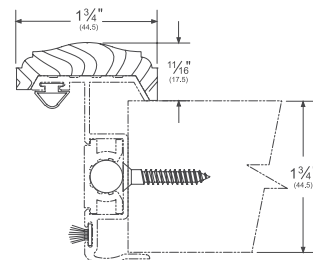


Oak Fascia

OAK349-96

Fir Fascia

FIR349-96



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

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

BDG (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (White) **SN** (Satin Nickel Anodized) Special finishes available upon request



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Locking Astragals

Colonial Style

Colonial style with slide bolt

3495_M

REPLACEMENT INSERT: **MAG349 (D, W)**

3495_Q

REPLACEMENT INSERT: **Q102 (D, W)**

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

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

Colonial style with locking spring bolt

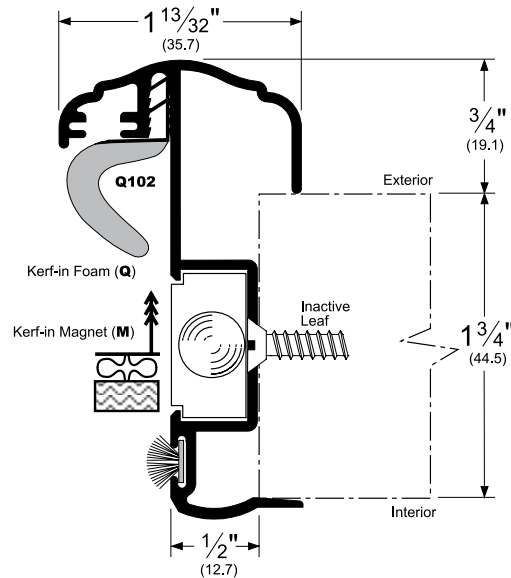
3496_M

REPLACEMENT INSERT: **MAG349 (D, W)**

3496_Q

REPLACEMENT INSERT: **Q102 (D, W)**

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

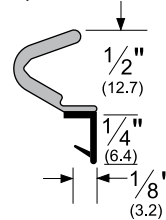


Q108

AVAILABLE FINISHES:

BL, W

Available with Q108 insert only upon request



Colonial Style with Thermal Break

Colonial style with slide bolt and thermal break

3497_M

REPLACEMENT INSERT: **MAG349 (D, W)**

3497_Q

REPLACEMENT INSERT: **Q102 (D, W)**

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

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

Colonial style with locking spring bolt and thermal break

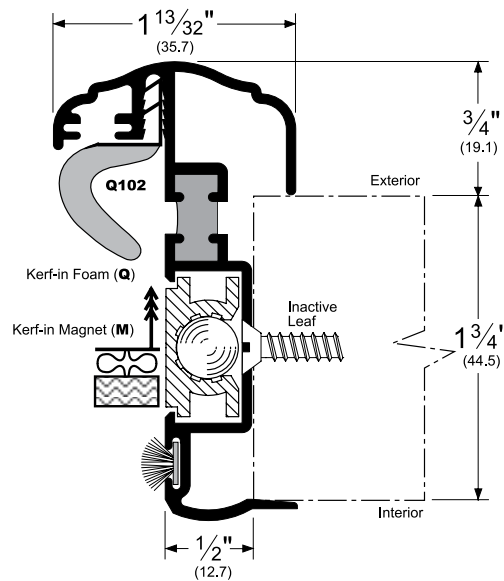
3498_M

REPLACEMENT INSERT: **MAG349 (D, W)**

3498_Q

REPLACEMENT INSERT: **Q102 (D, W)**

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



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BDG (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (White) **SN** (Satin Nickel Anodized)
Special finishes available upon request Kerf Colors: **BL** (Black) **W** (White)

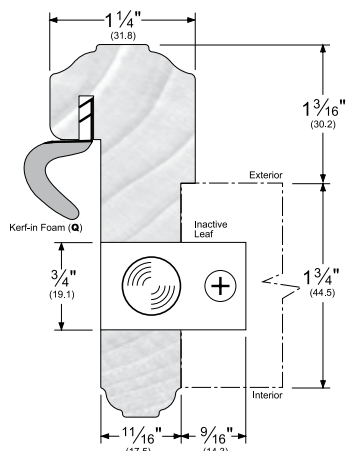
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Locking Wood Astragals

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

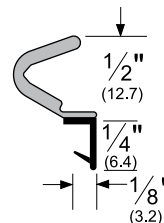
3481_Q

AVAILABLE FINISHES:
FIR, OAK



Q108_

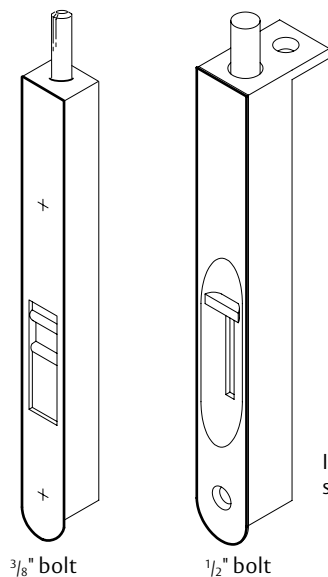
AVAILABLE FINISHES:
BL, W
3481 available with **Q108**
insert only upon request



3483FB

3481FB

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

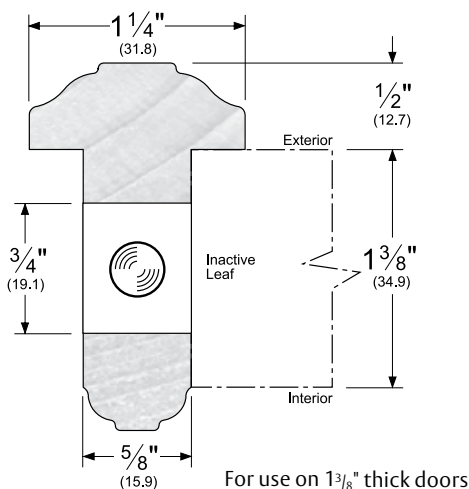


Illustrations not to scale.

3483_ (0 flush bolts)

34831_ (1 flush bolt)

AVAILABLE FINISHES:
FIR, OAK



For use on $1\frac{3}{8}$ " thick doors



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

FIR (Natural Unfinished Fir) **OAK** (Natural Unfinished Oak)

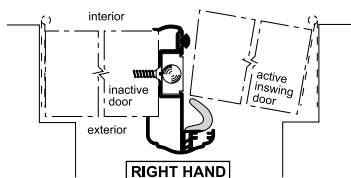
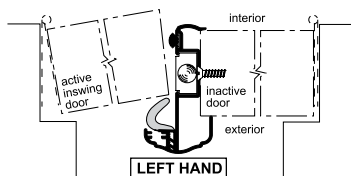
Kerf Colors: **BL** (Black) **W** (White)

Outswing Locking Astragals

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

Handing Chart For Astragals (For pages 179 thru 180)

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



Slimline Style

Slimline style with slide bolt

3443_S

REPLACEMENT INSERT:

S4 (BL, GR)

AVAILABLE FINISHES:

C, D, PW

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

Slimline style with locking spring bolt

3444_S

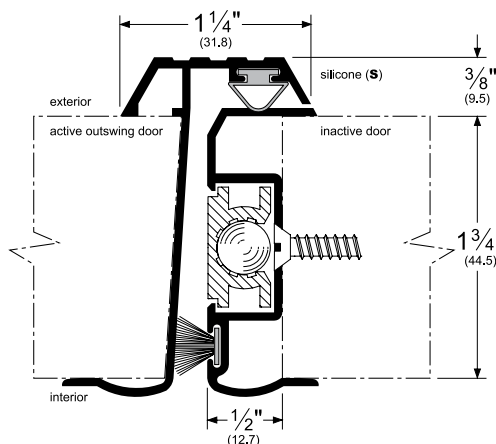
REPLACEMENT INSERT:

S4 (BL, GR)

AVAILABLE FINISHES:

C, D, PW

Slimline Style



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) D (Dark Bronze Anodized) PW (White)

BRUSH GASKETING

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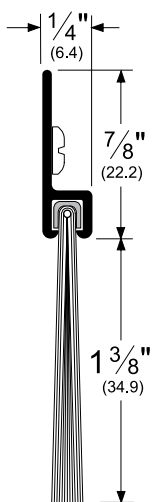
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180° Aluminum Retainers

- All brush seals consist of densely compressed nylon filaments encased in a high quality aluminum retainer. These products are ideally suited for hollow metal and wood door applications. Also use PEMKO's brush weatherstripping product on overhead, section, sliding, and automatic doors
- All brush seals reduce the infiltration of light, air, wind, rain, and snow; prevent heat loss; and control the penetration of smoke and fumes
- Brush remains flexible down to -40°F and has a melting point above 400°F
- UV stable, dependable, long-lasting, cost-effective
- Punched with slotted holes for adjustment (except 35° angle types which are drilled with $\frac{1}{8}$ " hole)
- Naturally repels rodents and spiders; can be sprayed with household pest repellent for additional pest control
- 18950_NB does not come punched or drilled unless specified otherwise

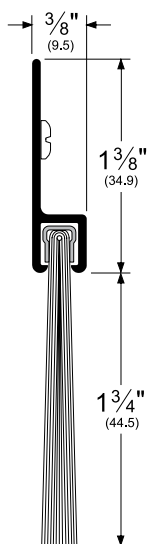
18137_NB

AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
P38137 (BL, GR, W)
ANSI: **R3A434**



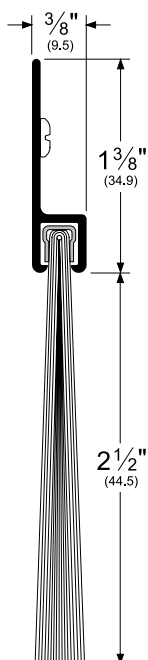
18175_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P58175 (BL, GR)
ANSI: **R3A434**



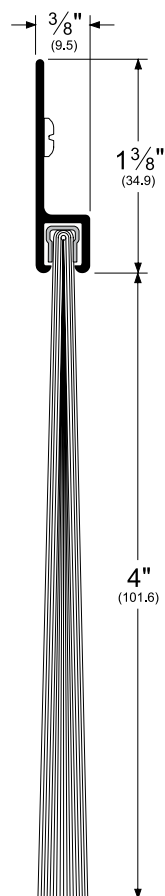
18250_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P58250 (BL, GR)
ANSI: **R3A434**



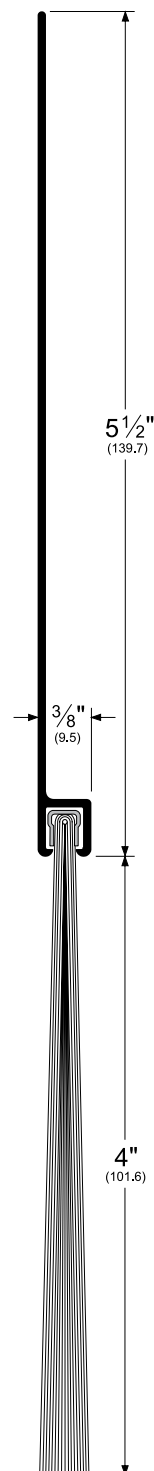
18400_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P58400 (BL, GR)
ANSI: **R3A434**



18950_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT:
P58400 (BL, GR)
ANSI: **R3A434**



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NOTE: Products shown in this section may not be drawn to scale.

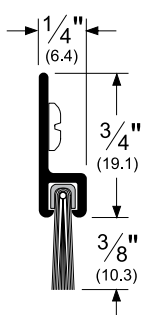
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White)
Special finishes available upon request

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180° Aluminum Retainers (Cont.)

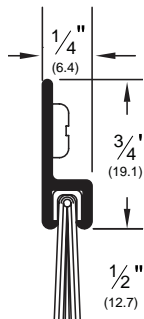
18041_NB

AVAILABLE FINISHES:
C, D, G, PW, SN
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A134, R3A164, R3A734**



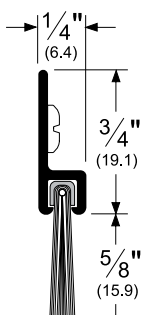
18050_NB

AVAILABLE FINISHES:
C, D, G, PW, SN
REPLACEMENT INSERT:
P516050 (BL, GR)
ANSI: **R3A434, R3A734**



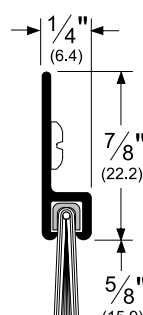
18061_NB

AVAILABLE FINISHES:
C, D, G, PW, SN
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A434, R3A734**



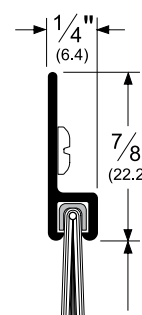
18062_NB

AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
P38062 (BL, GR, W)
ANSI: **R3A434**



18100_NB

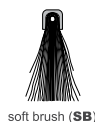
AVAILABLE FINISHES:
C, D, G, PW
REPLACEMENT INSERT:
P38100 (BL, GR)
ANSI: **R3A434**



Alternate Inserts For 18041

18041_SB

AVAILABLE FINISHES: **C, D, G, SN**
REPLACEMENT INSERT: **P3 (BL, GR)**



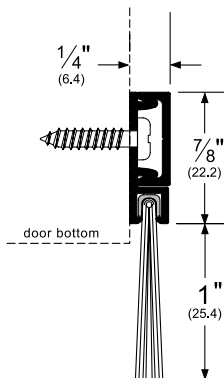
soft brush (SB)

180° Concealed Fastener Retainers

- Aluminum snap cover conceals mounting screws to provide a clean aesthetic appearance
- Replacement snap cover is item _29316; when ordering, identify finish and length
- Cover snaps securely into place to deter vandalism

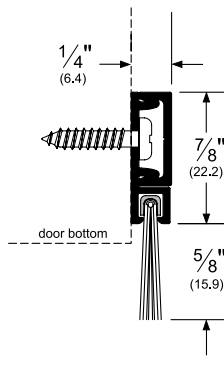
293100_NB

AVAILABLE FINISHES:
C, D
REPLACEMENT INSERT:
P516100 (BL, GR, W)
ANSI: **R3A434**



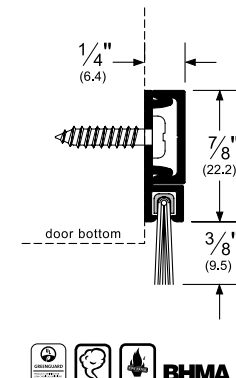
29326_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A434**



29324_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A434**



Alternate Insert For 29324

29324_SB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **P3 (BL, GR)**



soft brush (SB)

NOTE: Products shown in this section may not be drawn to scale.

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

C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)

Special finishes available upon request

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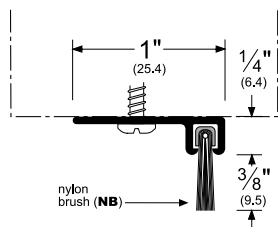
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90° Aluminum Retainers

- Design permits use as a concealed seal for many applications
- Slotted holes for easy adjustment

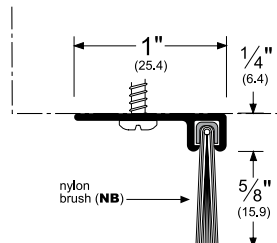
90041_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT:
P516041 (BL, GR, W)
ANSI: **R3A164, R3A414**



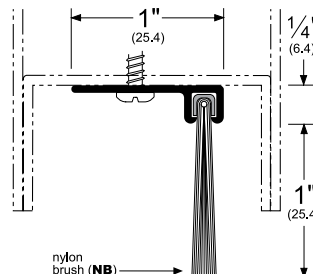
90062_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A164, R3A414**



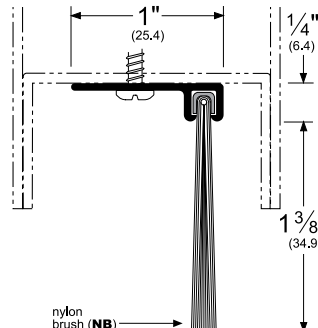
90100_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT:
P516100 (BL, GR, W)
ANSI: **R3A414**



90137_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT:
P516137 (BL, GR, W)
ANSI: **R3A414**



Alternate Insert For 90041

90041_SB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **P3 (BL, GR)**

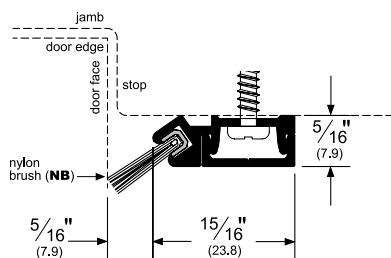


45° Concealed Fastener Retainers

- Replacement snap cover is item _29316-.
When ordering, identify finish and length

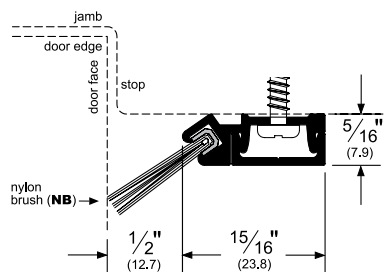
29344_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **P516041 (BL, GR)**
ANSI: **R3A164**



29346_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **P516062 (BL, GR, W)**
ANSI: **R3A164**



Alternate Insert For 29344

29344_SB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **P3 (BL, GR)**



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NOTE: Products shown in this section may not be drawn to scale.

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

C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

Special finishes available upon request

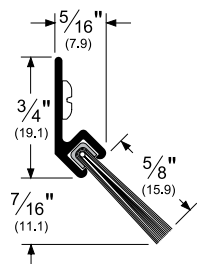
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45° Aluminum Retainers

- Slotted holes for easy adjustment

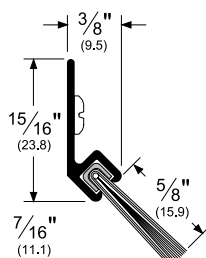
45061_NB

AVAILABLE FINISHES: **C, D, G, SN**
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A164**



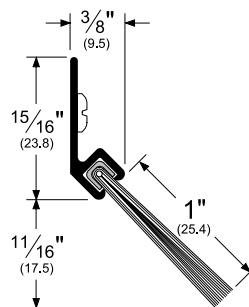
45062_NB

AVAILABLE FINISHES: **C, D, G, PW**
REPLACEMENT INSERT:
P38062 (BL, GR, W)
ANSI: **R3A164**



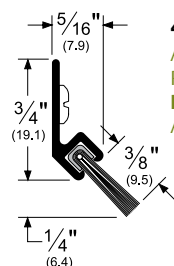
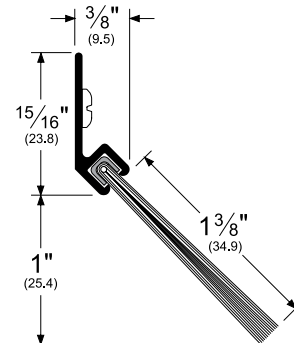
45100_NB

AVAILABLE FINISHES: **C, D, G, PW**
REPLACEMENT INSERT:
P38100 (BL, GR)
ANSI: **R3A164**



45137_NB

AVAILABLE FINISHES: **C, D, PW**
REPLACEMENT INSERT:
P58137 (BL, GR, W)
ANSI: **R3A164**



45041_NB

AVAILABLE FINISHES: **C, D, G, SN**
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A164**

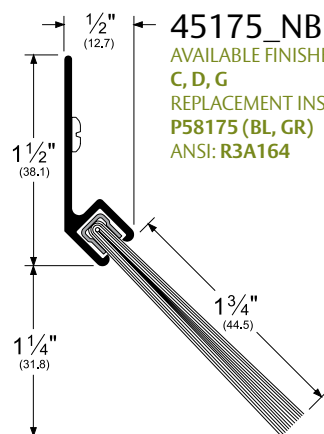
Alternate Insert For 45041

45041_SB

AVAILABLE FINISHES: **C, D, G, SN**
REPLACEMENT INSERT: **P3 (BL, GR)**

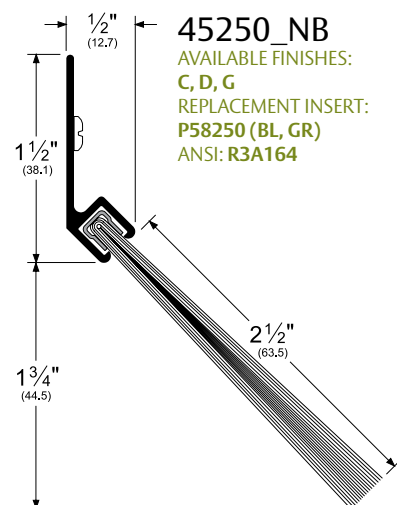


soft brush (SB)



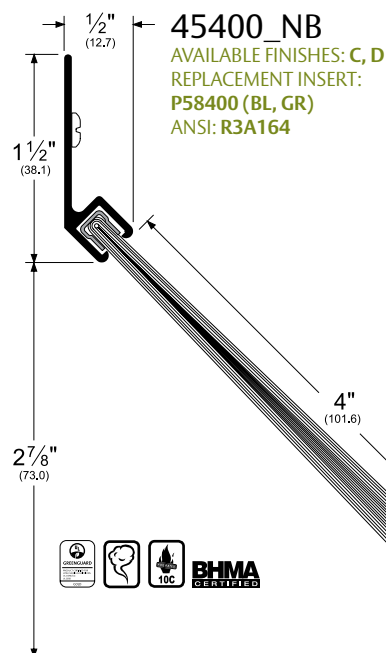
45175_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P58175 (BL, GR)
ANSI: **R3A164**



45250_NB

AVAILABLE FINISHES:
C, D, G
REPLACEMENT INSERT:
P58250 (BL, GR)
ANSI: **R3A164**



45400_NB

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT:
P58400 (BL, GR)
ANSI: **R3A164**



NOTE: Products shown in this section may not be drawn to scale.

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

C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel)

Special finishes available upon request

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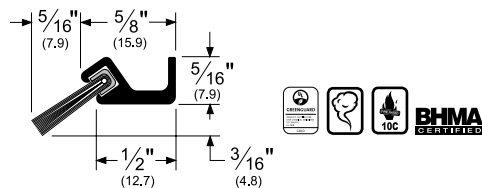
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35° Aluminum Retainers

- These products have $\frac{1}{8}$ " drilled fastener holes

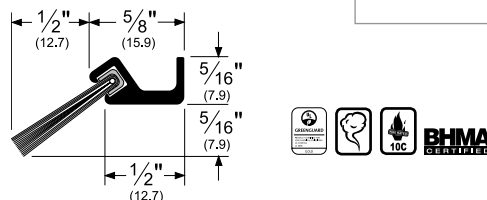
35041_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT:
P516041 (BL, GR)
ANSI: **R3A164**



35061_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT:
P516062 (BL, GR, W)
ANSI: **R3A164**



Alternate Insert For 35041

35041_SB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **P3 (BL, GR)**

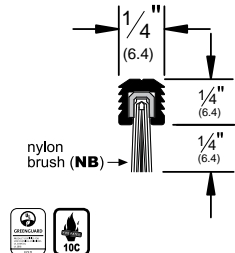


Mortise Retainers

- The ultimate design for concealed weatherstrip needs
- Can be used on doors, windows and more

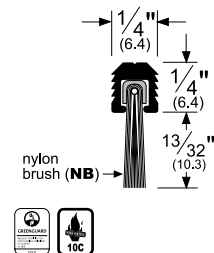
5025_NB

AVAILABLE FINISH: **A**
REPLACEMENT INSERT:
P14025 (BL, GR)



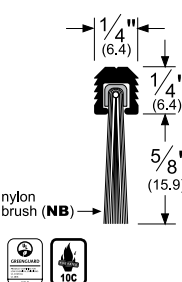
5041_NB

AVAILABLE FINISH: **A**
REPLACEMENT INSERT:
P516041 (BL, GR)



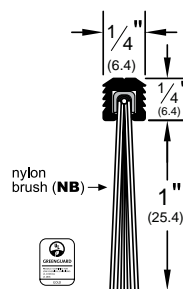
5061_NB

AVAILABLE FINISH: **A**
REPLACEMENT INSERT:
P516062 (BL, GR, W)



5100_NB

AVAILABLE FINISH: **A**
REPLACEMENT INSERT:
P516100 (BL, GR, W)



Alternate Insert For 5025 and 5041

5025_SB

AVAILABLE FINISHES: **A**
REPLACEMENT INSERT:
SB14025 (BL, GR)



5041_SB

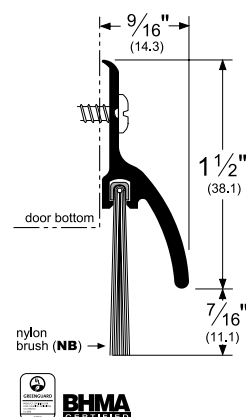
AVAILABLE FINISHES: **A**
REPLACEMENT INSERT:
P3 (BL, GR)

Aluminum Retainer with Rain Drip

- These products have $\frac{1}{8}$ " drilled fastener holes

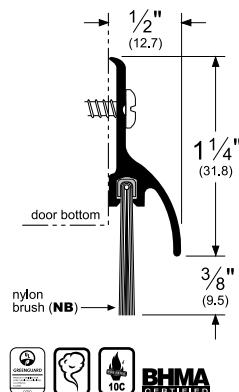
3452_NB

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
P14075 (BL, GR)
ANSI: **R3A534**



345_NB

AVAILABLE FINISHES:
A, BDG, D, G, PW
REPLACEMENT INSERT:
P14100 (BL, GR)
ANSI: **R3A534**

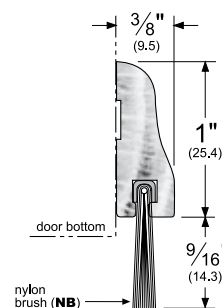


Oak Retainers 36" Wide

- These products have $\frac{1}{8}$ " drilled fastener holes

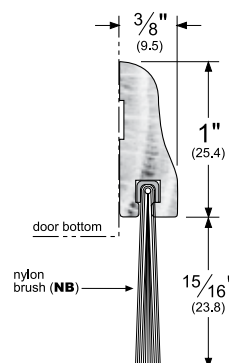
18062WNB

AVAILABLE FINISH: **W**
REPLACEMENT INSERT:
P516062 (BL, GR, W)



18100WNB

AVAILABLE FINISH: **W**
REPLACEMENT INSERT:
P516100 (BL, GR)



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized) **W** (Unfinished Solid Oak)

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door opening solutions

Meeting Stiles

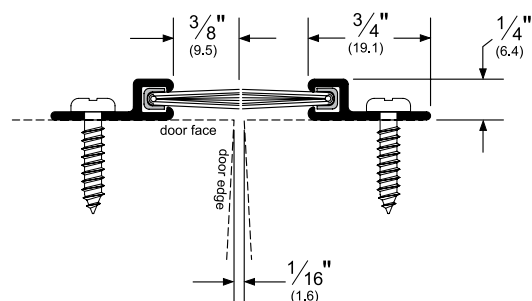
- Astragals and Meeting Stiles with a fire label may be mounted on pairs of doors wherein the gap meets the requirements of NFPA 80-2013, 6.3.1.7.1 "The clearance between... the meeting edges of doors swinging in pairs on the pull side shall be $\frac{1}{8}" \pm \frac{1}{16}"$ (3.18mm \pm 1.59mm) for steel doors and shall not exceed $\frac{1}{8}"$ (3.18mm) for wood doors"

18041_NB

AVAILABLE FINISHES: C, D, G, SN

REPLACEMENT INSERT: P516041 (BL, GR)

ANSI: R3A734

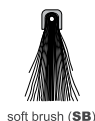


Alternate Insert For 18041

18041_SB

AVAILABLE FINISHES C, D, G, SN

REPLACEMENT INSERT: P3 (BL, GR)



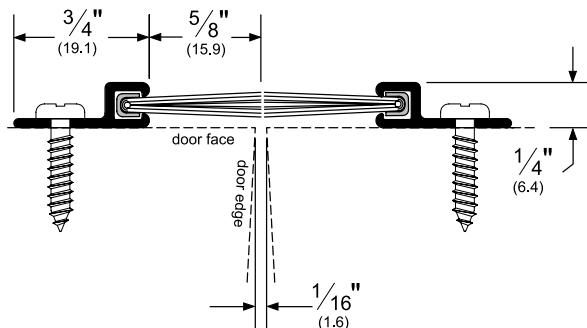
soft brush (SB)

18061_NB

AVAILABLE FINISHES: C, D, G, SN

REPLACEMENT INSERT: P516062 (BL, GR, W)

ANSI: R3A734

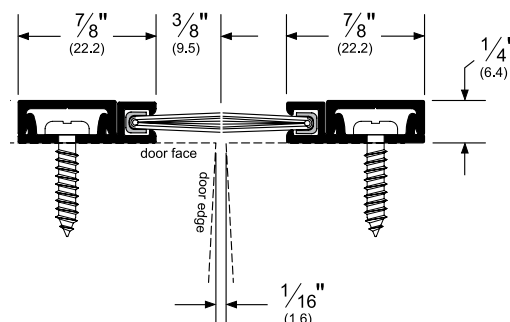


29324_NB

AVAILABLE FINISHES: C, D, G, SN

REPLACEMENT INSERT: P516041 (BL, GR)

ANSI: R3A434, R3A435



Alternate Insert For 29324

29324_SB

AVAILABLE FINISHES: C, D, G, SN

REPLACEMENT INSERT: P3 (BL, GR)



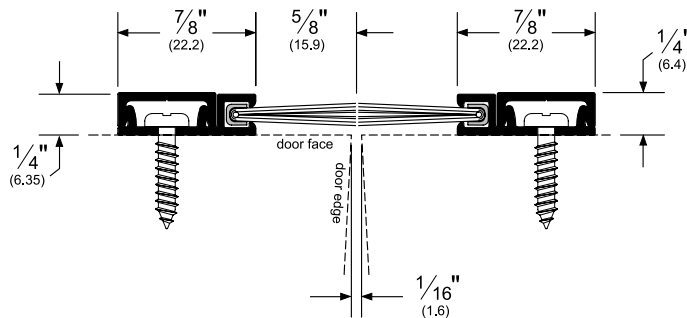
soft brush (SB)

29326_NB

AVAILABLE FINISHES: C, D, G, SN

REPLACEMENT INSERT: P516062 (BL, GR, W)

ANSI: R3A764, R3A765



NOTE: Products shown in this section may not be drawn to scale.

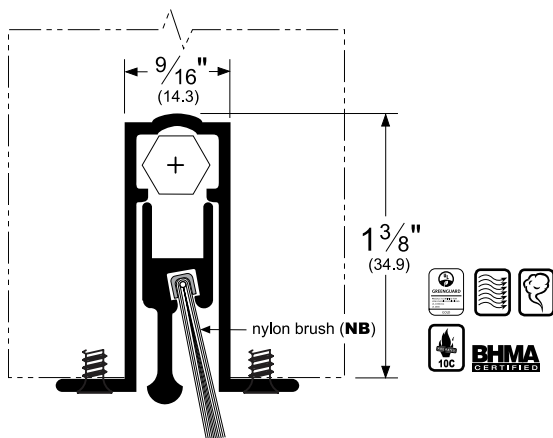
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)

C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) SN (Satin Nickel Anodized)

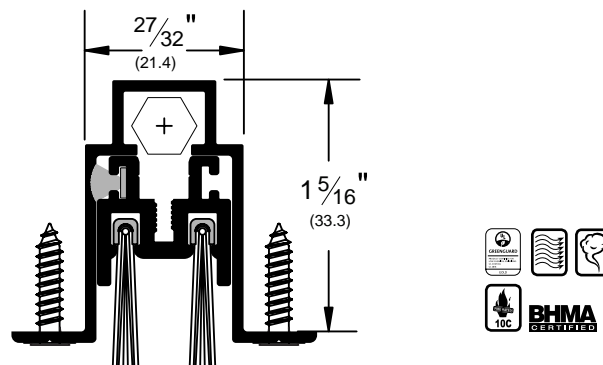
Automatic Door Bottoms

- When ordering 4131 or 4301, specify if the automatic door bottom is for a semi-mortise application so that shorter screws can be provided

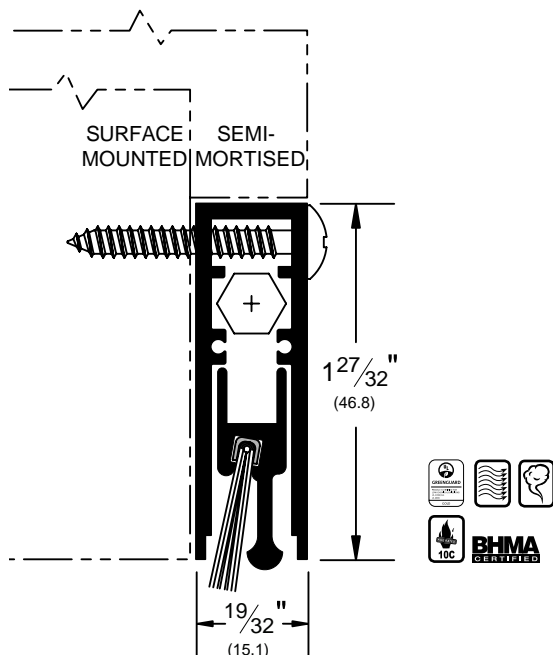
411_NBL

AVAILABLE FINISH: **A**REPLACEMENT INSERT: **P14075BL (BL, GR)**ANSI: **R3A324, R3A325**

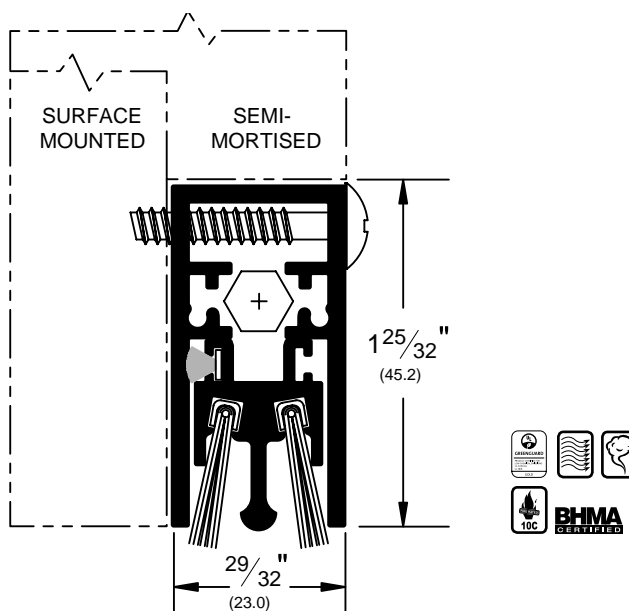
434_NBL

AVAILABLE FINISH: **A**REPLACEMENT INSERT: **P516075BL (BL)**ANSI: **R3A324, R3A325**

4131_NBL

AVAILABLE FINISHES: **BDG, C, D, G, SN**REPLACEMENT INSERT: **P14075BL (BL, GR)**ANSI: **R3A334, R3A335, R3A344, R3A345**

4301_NBL

AVAILABLE FINISHES: **C, D**REPLACEMENT INSERT: **P516075BL (BL)**ANSI: **R3A334, R3A335, R3A344, R3A345**

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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)
G (Gold Anodized) **SN** (Satin Nickel Anodized)

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PERIMETER GASKETING

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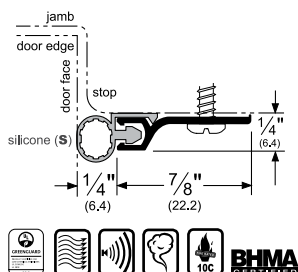
Standard Perimeter Gasketing

- Rigid jamb weatherstrip shown mounted on openings with $\frac{1}{16}$ " gaps; however, each weatherstrip can seal gaps up to the depth of its seal. Seal depth provided on each illustration (example: the 303 has a $\frac{1}{4}$ " seal; therefore, it can seal up to a $\frac{1}{4}$ " gap)

- Punched on 6" centers with slotted holes for adjustment. Models 294, 303, and 306 are available with self-adhesive two-sided tape (TST) and tek screws (3 slotted holes per part) for easy installation. To obtain this option, add "TST" to the end of the part when ordering (example: 303AVTST)

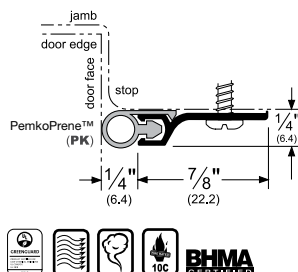
303_S

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT: S3 (BL, GR, W)
ANSI: R3E164, R3E165



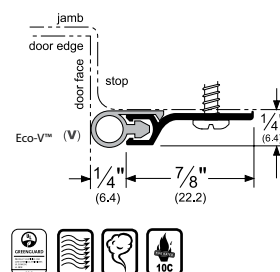
303_PK

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT: PK47 (BL, GR, W)
ANSI: R3G164



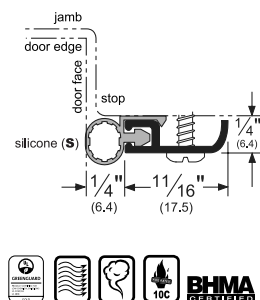
303_V

AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT: EV47 (BL, GR, W)



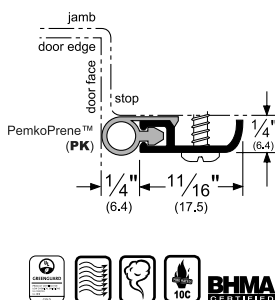
316_S

AVAILABLE FINISHES: A, BDG, D, G
REPLACEMENT INSERT: S3 (BL, GR, W)
ANSI: R3E164, R3E165



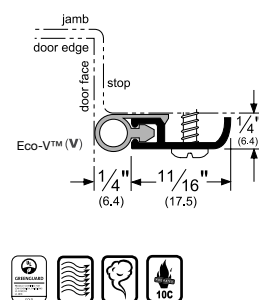
316_PK

AVAILABLE FINISHES: A, BDG, D, G
REPLACEMENT INSERT: PK47 (BL, GR, W)
ANSI: R3G164, R3G165



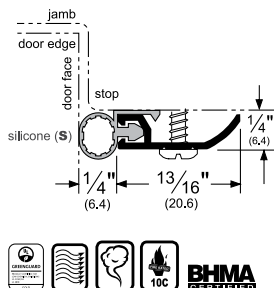
316_V

AVAILABLE FINISHES: A, BDG, D, G
REPLACEMENT INSERT: EV47 (BL, GR, W)



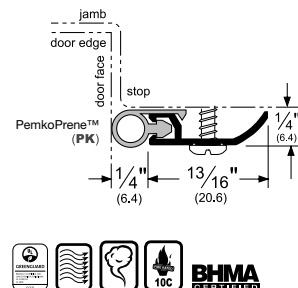
297_S

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: S3 (BL, GR, W)
ANSI: R3E164, R3E165



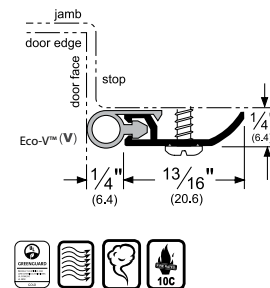
297_PK

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: PK47 (BL, GR, W)
ANSI: R3G164, R3G165



297_V

AVAILABLE FINISHES: A, BDG, D, G, PW, SN
REPLACEMENT INSERT: EV47 (BL, GR, W)



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NOTE: Products shown in this section may not be drawn to scale.

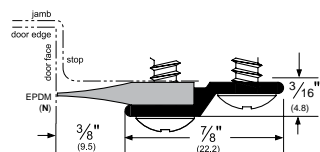
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized)
G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized)

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Standard Perimeter Gasketing (Cont.)

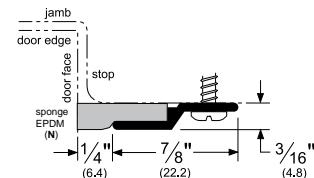
305_N

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **E2 (BL, GR)**
ANSI (alum): **R3G164, R3G165**
ANSI (brass): **R1G164, R1G165**



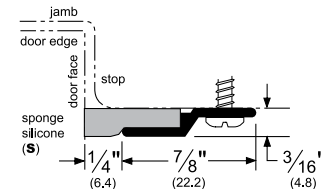
305_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **ER1 (BL)**
ANSI (alum): **R3G164, R3G165**
ANSI (brass): **R1G164, R1G165**



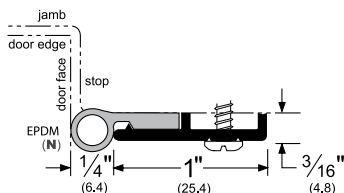
305_S

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **SR1 (BL)**
ANSI: **R3E164, R3E165**



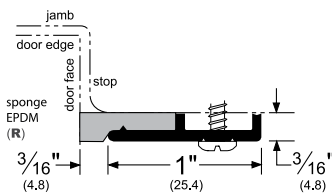
319_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **E11 (BL)**
ANSI: **R3G164, R3G165**



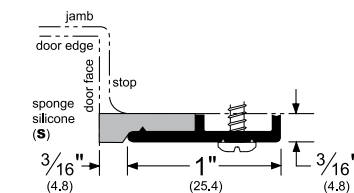
319_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **ER1 (BL)**
ANSI: **R3G164, R3G165**



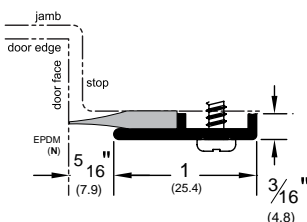
319_S

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **SR1 (BL)**
ANSI: **R3E165**



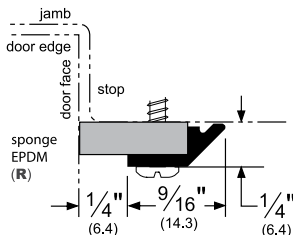
329_N

AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **E2 (BL, GR)**
ANSI: **R3G164, R3G165**



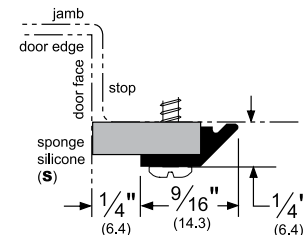
322_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **ER1 (BL)**
ANSI: **R3G164, R3G165**



322_S

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **SR1 (BL)**
ANSI: **R3E164, R3E165**



NOTE: Products shown in this section may not be drawn to scale.

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

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

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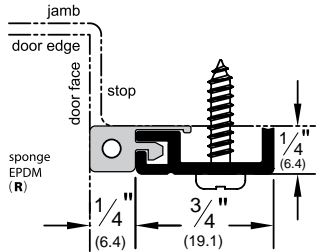
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Standard Perimeter Gasketing (Cont.)

312_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **ER9BL (BL)**
ANSI (alum): **R3G164, R3G165**

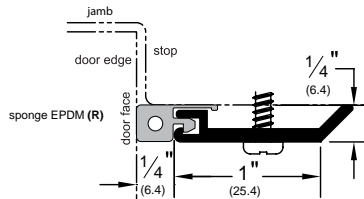
- 312BR is being redesigned. Consult website for current profile.



315_R

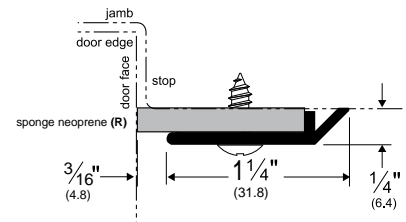
AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **ER9BL (BL)**
ANSI (alum): **R3G164, R3G165**

- 315BR is being redesigned. Consult website for current profile.



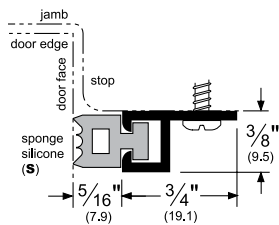
3151_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **ER2 (BL)**
ANSI (alum): **R3G164**



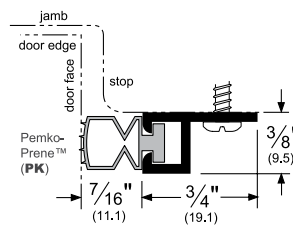
296_S

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **SR6 (BL)**
ANSI (alum): **R3E164, R3E165**



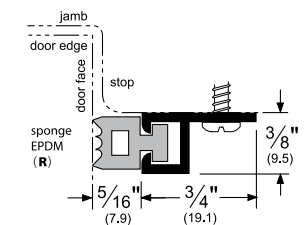
296_PK

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **PK4132 (BL)**
ANSI (alum): **R3G164, R3G165**



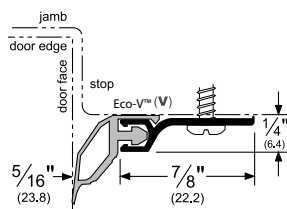
296_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **E7 (BL)**
ANSI (alum): **R3G164, R3G165**



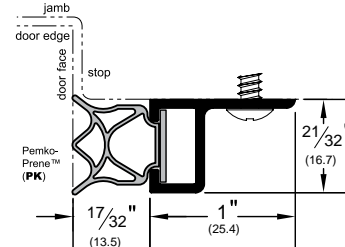
330_V

AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **EV61 (BL, GR)**



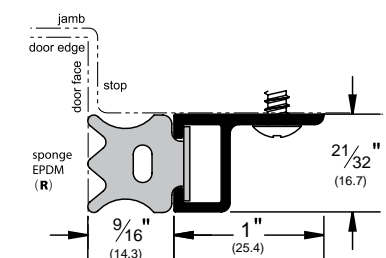
285_PK

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **PK4304 (BL)**
ANSI (alum): **R3G164, R3G165**



285_R

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **E4303 (BL)**
ANSI (alum): **R3G166**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)

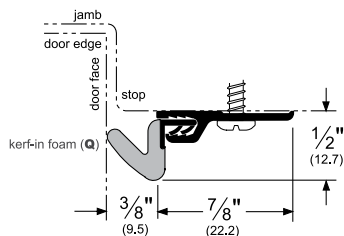
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Standard Perimeter Gasketing (Cont.)

306_Q

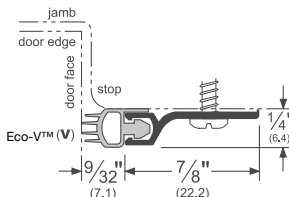
AVAILABLE FINISHES: **A, D, PW**
REPLACEMENT INSERT: **Q103 (D, W)**

- Minimum space between the door face and the stop is $\frac{3}{16}$ "; maximum space is $\frac{5}{16}$ "
- Note insert color when ordering:
Dark Brown (D) or White (W)



306_V

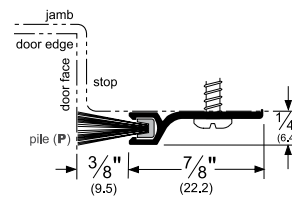
AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **EV59 (BL, GR, W)**



309_P

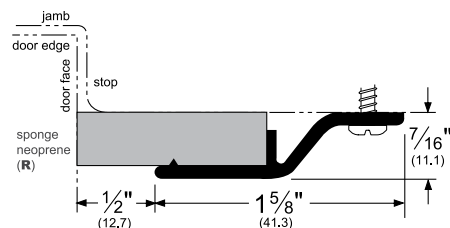
AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **P3 (BL, GR)**

- Minimum space between the door face and the stop is $\frac{3}{16}$ "; maximum space is $\frac{5}{16}$ "



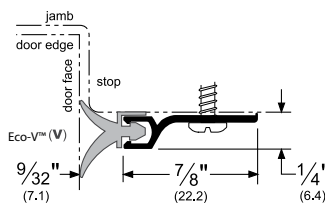
375_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **R4 (BL)**
ANSI (alum): **R3C164, R3C165**



294_V

AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **EV60 (GR)**



NOTE: Products shown in this section may not be drawn to scale.

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

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

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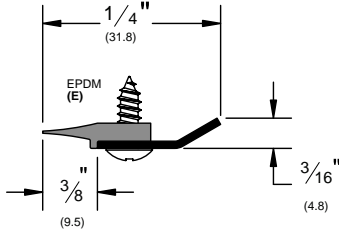
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Stainless Steel Perimeter Gasketing

- Stainless Steel is a tough and durable material that tolerates exposure to chemicals and heavy use
- Manufactured from 430 Stainless Steel
- Easy to clean to meet sanitary requirements
- Long lasting with low cost of ownership

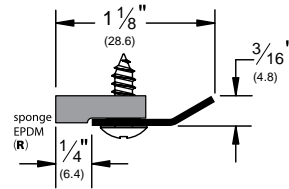
305SSE

AVAILABLE FINISH: **SS (#4 Finish)**
REPLACEMENT INSERT: **E2 (BL, GR)**
ANSI: **R5G164, R5G165**



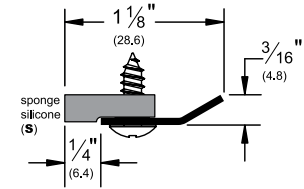
305SSR

AVAILABLE FINISH: **SS (#4 Finish)**
REPLACEMENT INSERT: **ER1 (BL)**
ANSI: **R5G164, R5G165**



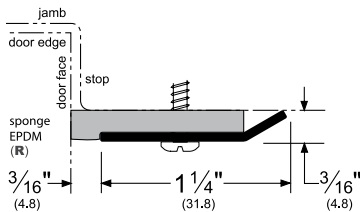
305SSS

AVAILABLE FINISH: **SS (#4 Finish)**
REPLACEMENT INSERT: **SR1 (BL)**
ANSI: **R5E164, R5E165**



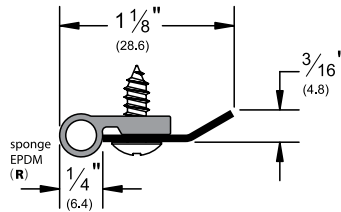
315SSR

AVAILABLE FINISH: **SS (#4 Finish)**
REPLACEMENT INSERT: **ER2 (BL)**
ANSI: **R5G164, R5G165**



319SSR

AVAILABLE FINISH: **SS (#4 Finish)**
REPLACEMENT INSERT: **E11 (BL)**
ANSI: **R5G164, R5G165**



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)
SS (See Individual Part)

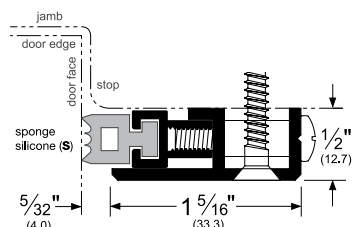
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Adjustable Jamb Gasketing

- Adjustable jamb gasketing is shown mounted on openings with $\frac{1}{16}$ " gaps; however, each weatherstrip can seal gaps up to $\frac{1}{4}$ "
- Adjustable jamb weatherstrip can adjust $\frac{3}{16}$ " out from the position illustrated

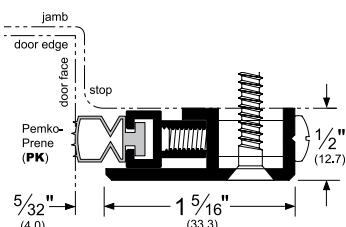
379_S

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: SR6 (BL)
ANSI: R3E264, R3E265



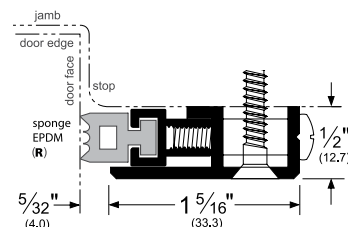
379_PK

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: PK4132 (BL)
ANSI: R3G164, R3G165



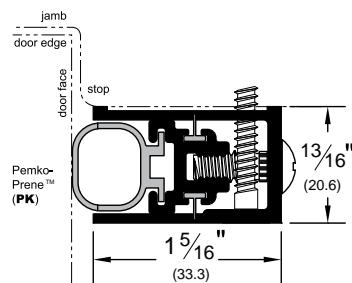
379_R

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: E7 (BL)
ANSI: R3G164, R3G165



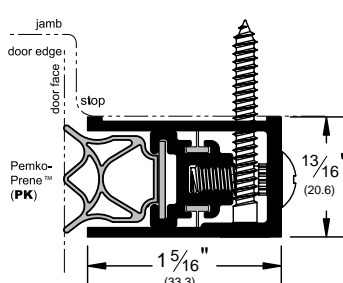
322_SPK

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: PK121 (BL)



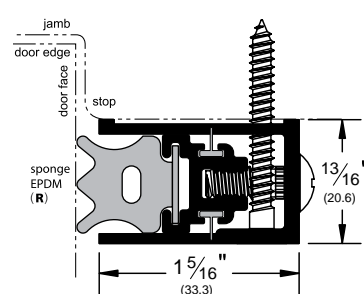
350_SPK

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: PK4304 (BL)
ANSI: R3G164, R3G165



350_SR

AVAILABLE FINISHES: C, D, G
REPLACEMENT INSERT: E4303 (BL)
ANSI: R3G164, R3G165

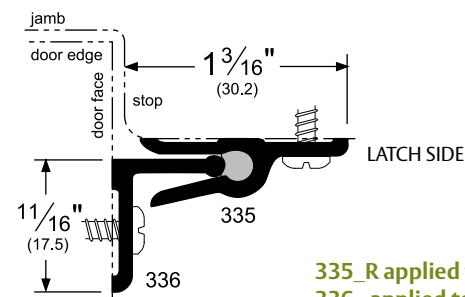


Heavy Duty Interlock Perimeter Gasketing

335_R

AVAILABLE FINISHES: A, D

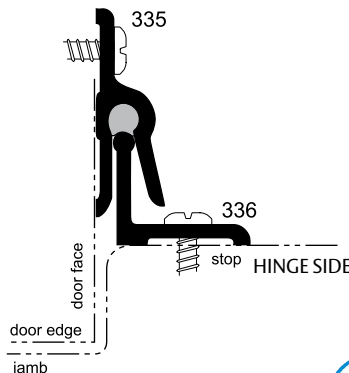
NOTE: Diagram consists of two parts, each sold separately.



335_R applied to jamb;
336_ applied to door.

336_

AVAILABLE FINISHES: A, D



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NOTE: Products shown in this section may not be drawn to scale.

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

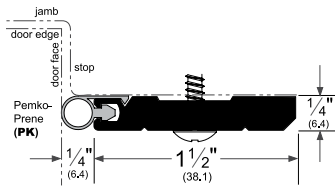
A (Mill Finish Aluminum) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized)

Heavy Duty Perimeter Gasketing - Head Section

- For the head section of the frame where a parallel arm closer bracket or other hardware is required. Supplied undrilled (36") or drilled (80" and above) and supplied with sheet metal screws for mounting
- If used as a stop, flat head machine screws can be provided upon request and take a countersunk #10 hole. PEMKO will drill the head member only if drilling instructions for countersink holes are provided
- All gasketing shown below is sold individually

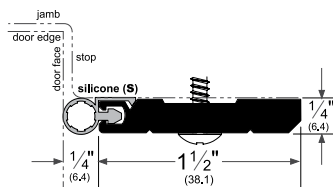
2891_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK47 (BL, GR)**
ANSI: **R3G164, R3G165**



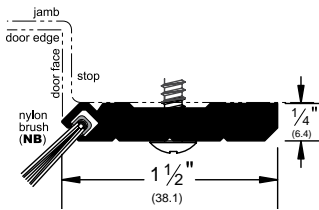
2891_S

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **S3 (BL, GR, W)**
ANSI: **R3E164, R3E165**



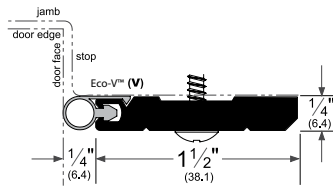
28945_NB

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **P14050 (BL, GR)**
ANSI: **R3A164, R3A165**



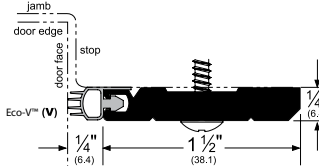
2891_V

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV47 (BL, GR, W)**



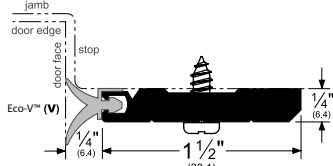
2892_V

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV59 (BL, GR, W)**



2893_V

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV60 (GR)**

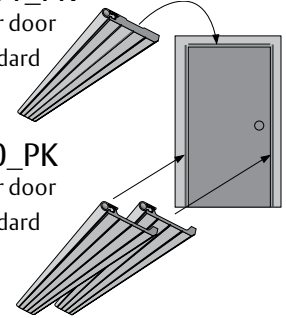


2891_PK

1 per door
standard

290_PK

2 per door
standard



When ordering a head section such as 2891_PK, two corresponding side sections (i.e. 290_PK) should also be ordered for the latch and hinge sides of the frame.



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

Special finishes available upon request

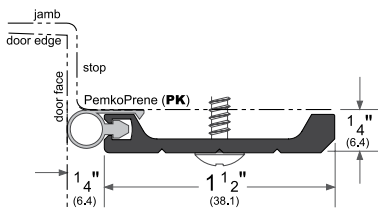
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Heavy Duty Perimeter Gasketing - Standard Jamb

- For the head section of the frame where a parallel arm closer bracket or other hardware is required. Supplied undrilled (36") or drilled (80" and above) and supplied with sheet metal screws for mounting
- If used as a stop, flat head machine screws can be provided upon request and take a countersunk #10 hole. PEMKO will drill the head member only if drilling instructions for countersink holes are provided
- All gasketing shown below is sold individually

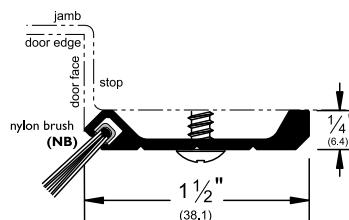
290_PK

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK47 (BL, GR)**
ANSI: **R3G164, R3G165**



29045_NB

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **P14050 (BL, GR)**
ANSI: **R3A164, R3A165**



Alternate Inserts For 290

290_S

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **S3 (BL, GR, W)**
ANSI: **R3E164, R3E165**



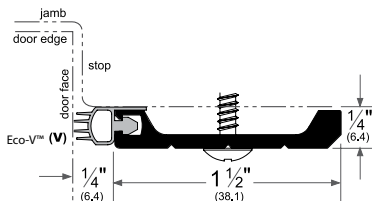
290_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV47 (BL, GR, W)**



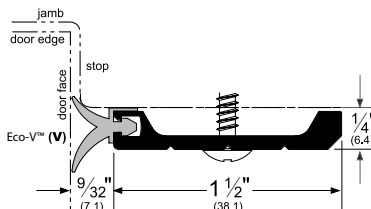
2902_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV59 (BL, GR, W)**



2903_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **EV60 (GR)**

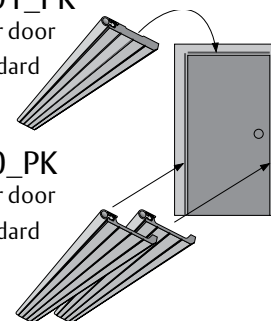


2891_PK

1 per door
standard

290_PK

2 per door
standard



When ordering a head section such as 2891_PK, two corresponding side sections (i.e. 290_PK) should also be ordered for the latch and hinge sides of the frame.

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized)



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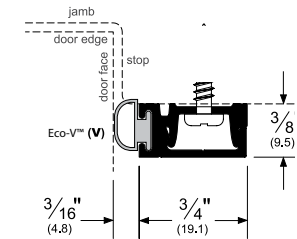
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door opening solutions

Snap Cover Perimeter Gasketing With Concealed Fasteners

- Low-profile snap cover conceals mounting screws to provide security and a clean aesthetic appearance
- Cover snaps securely in place to deter vandalism
- All clear anodized brush products are supplied with gray brush (black brush available upon request)

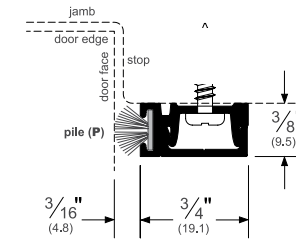
29310_V

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **EV41 (BL, GR, W)**



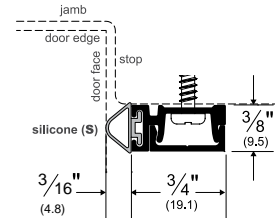
29310_P

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **P2 (BL, GR)**



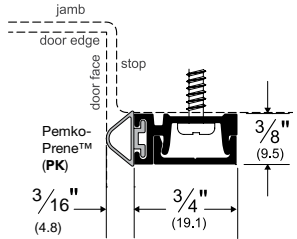
29310_S

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **S4 (BL, GR)**
ANSI: **R3E164, R3E165**



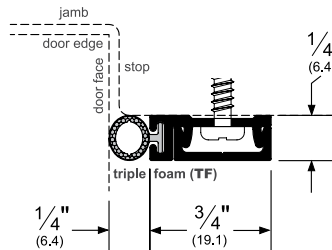
29310_PK

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **PK4 (BL, GR)**
ANSI: **R3G164, R3G165**



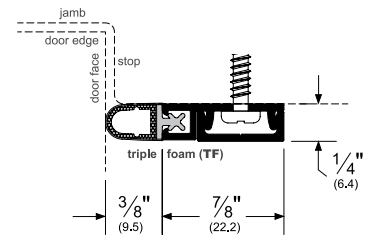
29313_TF

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **TF5588 (BL, W)**



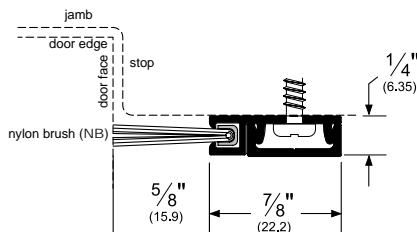
29321_TF

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **FS9 (BL only)**



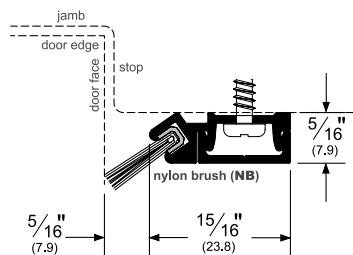
29326_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **P516062 (BL, GR, W)**
ANSI: **R3A164, R3A165**



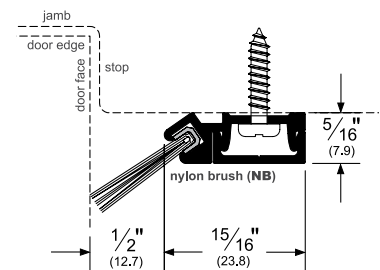
29344_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **P516041 (BL, GR)**
ANSI: **R3A164**



29346_NB

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **P516062 (BL, GR, W)**
ANSI: **R3A164**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

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Kerf-In Weatherstrip

Foam

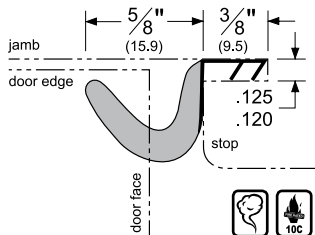
- PEMKO's "Q" foam kerf-in weatherstrip is constructed from soft cell foam enclosed by an embossed, tear-resistant, low-friction, UV-stable polyethylene cover
- Includes rigid PVC insert with extended flange for fast and easy kerf installation

Q102_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: **36", 85", 97", 121"**

Minimum space between the door face and the stop is $\frac{5}{16}$ "; maximum space is $\frac{1}{2}$ "

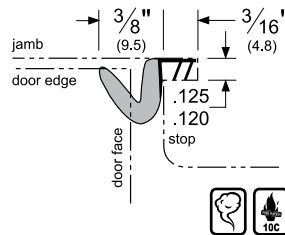


Q103_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: **36", 85", 97", 121"**

Minimum space between the door face and the stop is $\frac{3}{16}$ "; maximum space is $\frac{5}{16}$ "

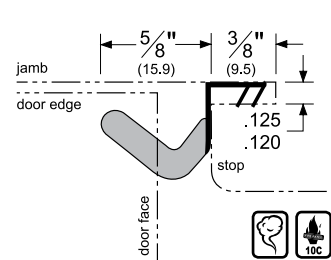


Q106_

AVAILABLE FINISHES: **D, W**

AVAILABLE LENGTHS: **36", 85", 97", 121"**

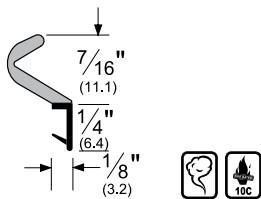
Minimum space between the door face and the stop is $\frac{5}{16}$ "; maximum space is $\frac{1}{2}$ "



Q107_

AVAILABLE FINISHES: **BL, W**

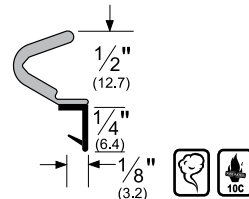
Minimum space between the door face and the stop is $\frac{1}{8}$ "; maximum space is $\frac{7}{16}$ "
Sold per foot (specify length)



Q108_

AVAILABLE FINISHES: **BL, W**

Minimum space between the door face and the stop is $\frac{1}{8}$ "; maximum space is $\frac{1}{2}$ "
Sold per foot (specify length)



Silicone

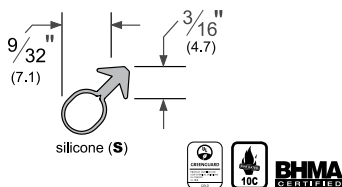
- Extruded from platinum cross-linked silicon
- Self-extinguishing and non-toxic
- Unaffected by sunlight, ozone, and ultraviolet rays
- Impervious to fungus and mildew; will not deteriorate under normal exposure
- Available in 100ft lengths

S104_100

AVAILABLE FINISHES: **D, W**

ANSI: **R0E156**

Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{1}{4}$ "

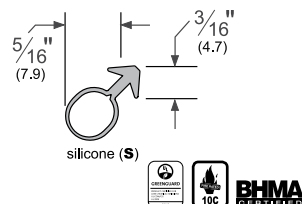


S109_100

AVAILABLE FINISHES: **D, W**

ANSI: **R0E156**

Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{1}{16}$ "

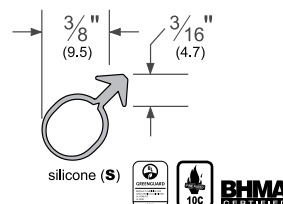


S105_100

AVAILABLE FINISHES: **D, W**

ANSI: **R0E156**

Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{3}{8}$ "

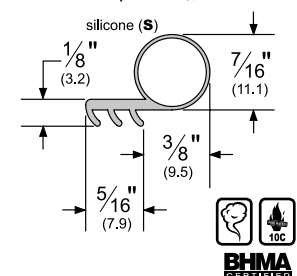


S52_100

AVAILABLE FINISHES: **BL, W**

ANSI: **R0E154**

Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{3}{8}$ "



NOTE: Products shown in this section may not be drawn to scale.

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

BL (Black) **D** (Dark Brown) **W** (White)

Kerf-In Weatherstrip (Cont.)

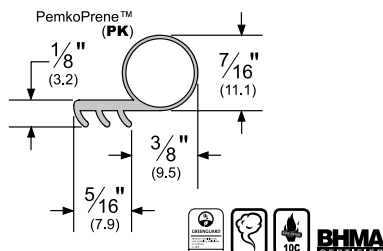
PK52

AVAILABLE FINISHES: **BL, W**

ANSI: **R0G154**

AVAILABLE LENGTHS: **18', 20', 300'**

- Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{3}{8}$ "

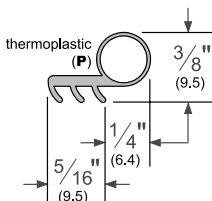


P50

AVAILABLE FINISHES: **BL, W**

AVAILABLE LENGTHS: **17', 25', 250'**

- Minimum space between the door face and the stop is $\frac{1}{16}$ "; maximum space is $\frac{1}{16}$ ".
- Thermoplastic elastomer formulation will not transmigrate; remains flexible to -60° F

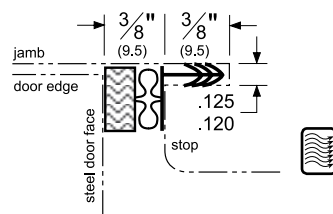


MAG349

AVAILABLE FINISHES: **D, W**

AVAILABLE LENGTHS: **37", 85", 96", 121"**

- Minimum space between the door face and the stop is $\frac{3}{8}$ "; maximum space is $\frac{7}{16}$ ".
- Magnetic kerf-in weatherstrip features a magnetic strip encased by a UV-stable TPE cover
- Use for steel-faced door and wood frame applications
- Can be trimmed in the field and corner-mitered

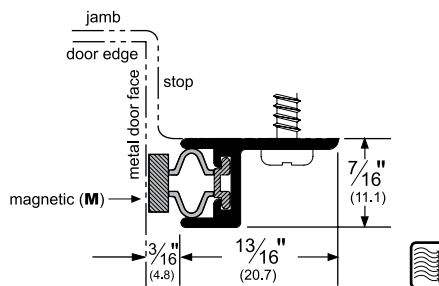


Magnetic Kerf-In Weatherstrip

2815_M

AVAILABLE FINISHES: **C, D, G**

REPLACEMENT INSERT: **2815MAG**



Adhesive Perimeter Gasketing

For more information on these perimeter gasketing products, please see the Adhesive Gasketing section.

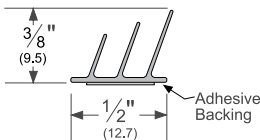
S773

AVAILABLE FINISHES: **BL, D, GR, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 250', 500'**

ANSI: **R0E154, R0E155**

- Triple-fin design blocks light and sound from infiltrating a room
- Product designed as hospitality gasketing (see more hospitality products in the Hospitality Products section)
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



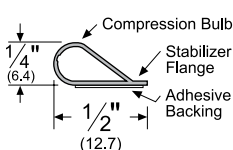
S88

AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 204', 510'**

ANSI: **R0E154, R0E155**

- Seal begins compressing at $\frac{1}{4}$ "; compresses to seal up to a $\frac{1}{16}$ " gap
- Available with perforations for Behavioral Health applications. Substitute "P" in place of "S" to order this option.



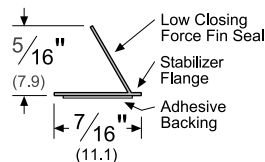
S44

AVAILABLE FINISHES: **BL, C, D, GR, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 204', 510'**

ANSI: **R0E154, R0E155**

- Designed for tighter frames.
- Demonstrates extremely low closing force.
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap
- Available with perforations for Behavioral Health applications. Substitute "P" in place of "S" to order this option.



NOTE: Products shown in this section may not be drawn to scale.

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

Adhesive Gasketing Colors: **BL** (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **TAN** (Tan) **W** (White)

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Adhesive Perimeter Gasketing (Cont.)

For more information on these perimeter gasketing products, please see the Adhesive Gasketing section.

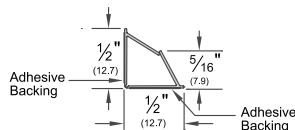
S442_

AVAILABLE FINISHES: **BL, D, GR, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**

ANSI: **R0E154, R0E155**

- Fits flush into corner
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



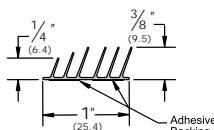
S776_

AVAILABLE FINISHES: **BL**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30'**

ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



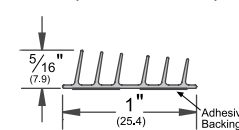
S771x6_

AVAILABLE FINISH: **BL**

AVAILABLE LENGTHS: **7', 8', 10', 17', 18', 20', 21', 25'**

ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



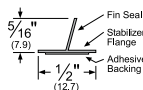
S77_

AVAILABLE FINISHES: **C, BL, D, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30'**

ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications.
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



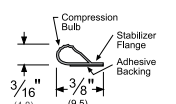
PK33_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**

ANSI: **R0G154, R0G155**

- Designed for tighter frames.
- Demonstrates extremely low closing force.
- Seal begins compressing at $\frac{3}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



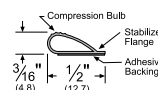
PK55_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**

ANSI: **R0G154, R0G155**

- Designed for tighter frames.
- Demonstrates extremely low closing force.
- Seal begins compressing at $\frac{3}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



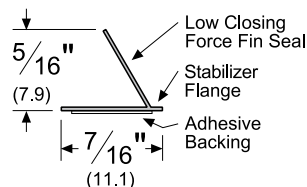
MicroShield® Antimicrobial Adhesive Gasketing

AM44_

AVAILABLE FINISHES: **BL, C, D, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**

ANSI: **R8E154, R0E155**

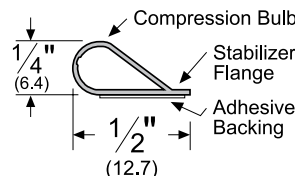


AM88_

AVAILABLE FINISHES: **BL, C, D, W**

AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**

ANSI: **R8E154, R0E155**



NOTES FOR ALL ADHESIVE GASKETING:

Storage and shelf life: All adhesive gaskets have a limited shelf life. This product must be installed within 6 months of purchase and must be stored between 50°F and 100°F. For further notes/details, please see Adhesive Gasketing section.



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NOTE: Products shown in this section may not be drawn to scale.

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

Adhesive Gasketing Colors: **BL** (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **W** (White)

Interlock Weatherstrip For Wood Doors

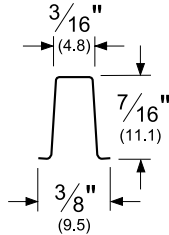
- Fasteners available at additional cost

Liner Strip

- Made from .008" spring bronze (B)

_30

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **96"**

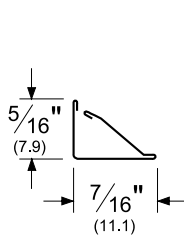


Lock Strip

- Made from .008" spring bronze (B)

_331

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **6", 96"**

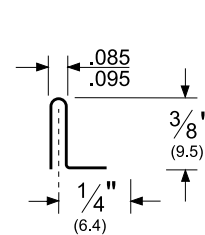


"L" Metal

- Bronze or zinc-plated wafer head drive screws available for _41M (sold separately)

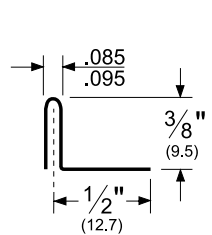
_41M

AVAILABLE FINISHES: **B, Z**
AVAILABLE LENGTHS: **96"**



_43

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **96"**



Interlock Weatherstrip For Wood Windows

Corrugated Rib Strips

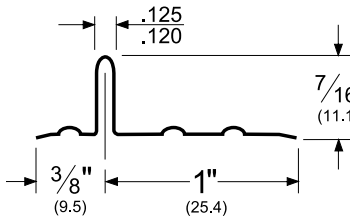
- Corrugated rib strips are made from .015" spring bronze (B) or .0172" galvanized steel (Z)
- _4C and _6C are only available in 96" lengths

_4C (1 3/8" width)

AVAILABLE FINISHES: **B, Z**

_6C (1 7/8" width)

AVAILABLE FINISH: **Z**



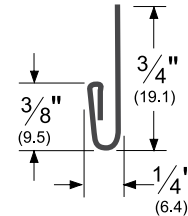
*_4C (1 3/8" width) shown above;
also available in _6C (1 7/8" width)
in galvanized steel (Z) only*

Flat Hooks

- _10 Flat hooks are made from .026" spring bronze (B) or .0172" galvanized steel (Z)

_10

AVAILABLE FINISHES: **B, Z**
AVAILABLE LENGTHS: **96"**

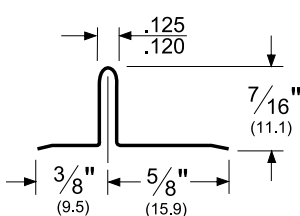


Plain Rib Strips

- Plain rib strips are made from .015" spring bronze (B) or .0172" galvanized steel (Z)

_2P (1" width)

AVAILABLE FINISHES: **B, Z**



_4P (1 3/8" width)

AVAILABLE FINISHES: **B, Z**

*_2P (1" width) shown above;
also available in _4P
(1 3/8" width).
_2P and _4P available in
96" lengths only*



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Bronze) **Z** (Galvanized Steel)

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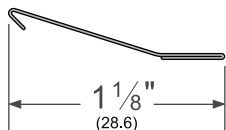
Cushion/Spring Weatherstrip for Wood or Metal Doors and Windows

Spring Bronze - Wood Doors/Windows

- Spring bronze weatherstrip fits wood doors and wood casement windows
- Made from .008" hemmed spring bronze/brass (B)
- Nails should be approximately 1 1/2" on center (sold separately)

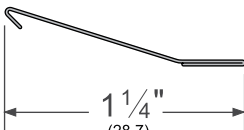
_70C-100

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **100'**



_70D-100

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **100'**



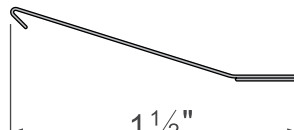
_70E-100

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **100'**



_70F-100

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **100'**



P51B17

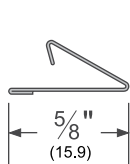
P51B17 is 17 feet of _70C
Packaged with nails

Cushion ("V") - Wood or Metal Doors

- Cushion weatherstrip fits wood or metal doors
- Made from .008" hemmed spring bronze/brass (B)
- Nails should be approximately 3" on center (sold separately)
- Gap coverage is 1/8" minimum to 3/16" maximum

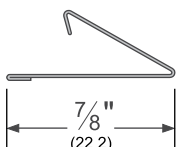
_73

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **96"**



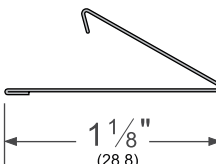
_74

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **96"**



_75

AVAILABLE FINISH: **B**
AVAILABLE LENGTHS: **96"**

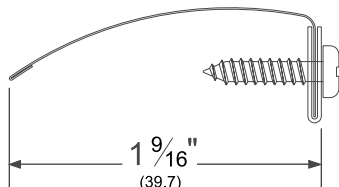


Spring Bronze - Metal Doors

- Spring bronze for metal doors may also be used as a meeting stile
- Made from .008" hemmed spring bronze/brass (B)
- .015" brass (B) retainer

_71

AVAILABLE FINISHES: **B**
AVAILABLE LENGTHS: **96"**



Fasteners for Cushion, Spring and Interlock Weatherstrip

- Fasteners for cushion, spring, and interlock weatherstrip are sold separately unless otherwise specified

NL1678_

AVAILABLE FINISHES: **BL, BP, Z**
For Wood: #16 x 7/8" flat head nail



NL1634_

AVAILABLE FINISHES: **BB, SS**
For Wood: #16 x 3/4" flat head nail



NL13516_

AVAILABLE FINISHES: **BP, Z**
For Metal: #13 x 5/16" wafer head drive screw



ADHESIVE GASKETING

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SiliconSeal Adhesive-Backed Fire/Smoke Gasketing	206
PemkoPrene™ Adhesive-Backed Fire/Smoke Gasketing	207
Silicon Seal/Adhesive-Backed Meeting Stile Gasketing	207
MicroShield® Antimicrobial Gasketing	208
Hot Smoke Seal/SiliconSeal Combination Fire/Smoke Sealing	208

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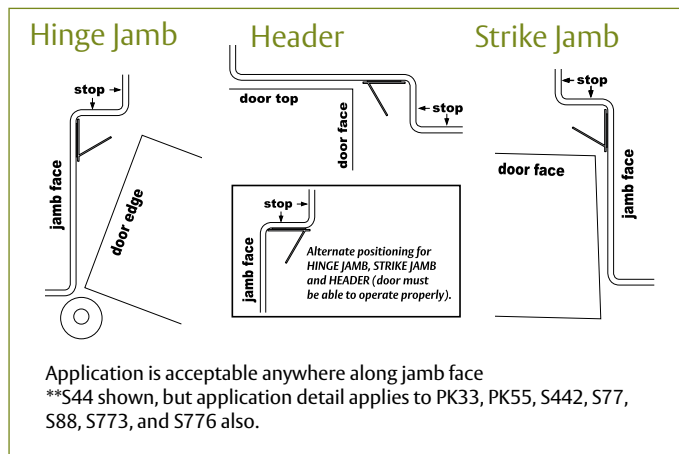
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SiliconSeal Adhesive-Backed Fire/Smoke Gasketing

- SiliconSeal is extruded from high-temperature silicone; effective between -58°F and 450°F
- Self-extinguishing and non-toxic; unaffected by sunlight, ozone, and ultraviolet rays
- Impervious to fungus and mildew; will not deteriorate under normal exposure
- Meets FAR 25.853 Airworthiness Standards for Compartment Interiors

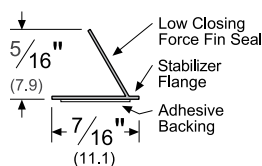


S44_

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510'

ANSI: **R0E154, R0E155**

- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap

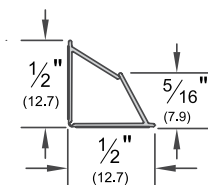


S442_

AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 510'

ANSI: **R0E154, R0E155**

- Fits flush into corner
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap in either direction

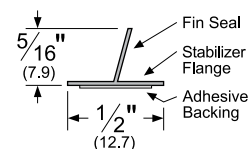


S77_

AVAILABLE FINISHES: **BL, C, D, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 500'

ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap

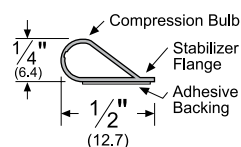


S88_

AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510'

ANSI: **R0E154, R0E155**

- Seal begins compressing at $\frac{1}{4}$ "; compresses to seal up to a $\frac{1}{16}$ " gap

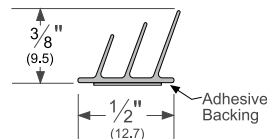


S773_

AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 250', 500'

ANSI: **R0E154, R0E155**

- Triple-fin design effectively blocks light and sound from infiltrating a room
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap

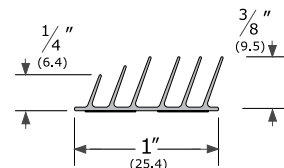


S776_

AVAILABLE FINISHES: **BL**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30'

ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **TAN** (Tan) **W** (White)

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PemkoPrene™ Adhesive-Backed Fire/Smoke Gasketing

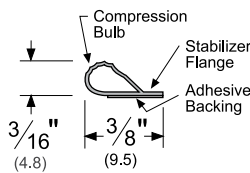
PK33_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 510'

ANSI: **R0G154, R0G155**

- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $\frac{3}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



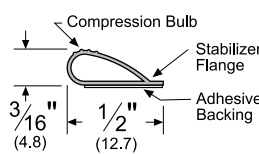
PK55_

AVAILABLE FINISHES: **BL, D, W**

AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 510'

ANSI: **R0G154, R0G155**

- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $\frac{3}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



SiliconSeal Adhesive-Backed Meeting Stile Gasketing

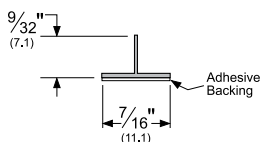
- Excellent resistance to compression set, particularly at elevated temperatures and for extended periods of time
- Outstanding ozone resistance rating
- Smoke tested in accordance with UL1784-01; meets the requirements of NFPA 105 "Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives"

S771_

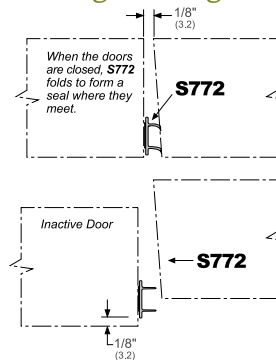
AVAILABLE FINISHES: **BL, C, D, GR, W**

AVAILABLE LENGTHS: 7', 8', 9', 10'

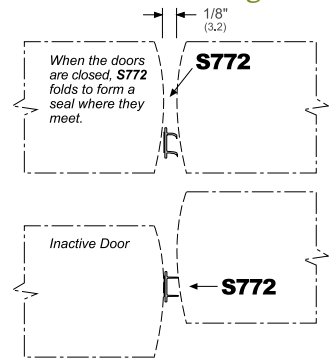
ANSI: **R0E154, R0E155, R0E754, R0E755**



Single Acting Door



Double Acting Door



Gasket may be applied to either the active or inactive door leaf.
NOTE: detail is for S771, S771x6, and S772

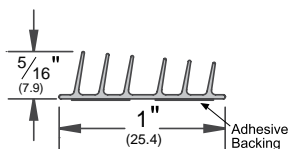
S771x6_

AVAILABLE FINISHES: **BL, C**

AVAILABLE LENGTHS: 7', 8', 9', 10'

ANSI: **R0E154, R0E155, R0E754, R0E755**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap

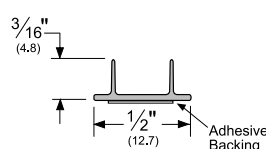


S772_

AVAILABLE FINISHES: **BL, C, D, GR, W**

AVAILABLE LENGTHS: 7', 8', 9', 10'

ANSI: **R0E154, R0E155, R0E754, R0E755**



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **W** (White)

ASSA ABLOY

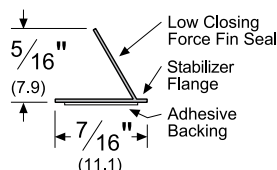
The global leader in
door opening solutions

MicroShield® Antimicrobial Gasketing

- Extruded from high-temperature silicone with MicroShield®, a silver-based antimicrobial additive
- Effective between -58°F and 450°F
- Adhesive Backed
- Self-extinguishing and non-toxic
- Unaffected by sunlight, ozone and ultraviolet rays
- Exceeds the requirements for Antimicrobial Test JIS-Z-2801

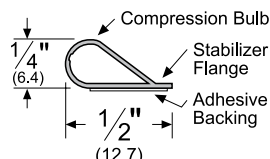
AM44

AVAILABLE FINISHES: **BL, C, D, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**
ANSI: **R0E154, R0E155**



AM88

AVAILABLE FINISHES: **BL, C, D, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**
ANSI: **R0E154, R0E155**



MicroShield®
As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the MicroShield® technology, a silver-based antimicrobial additive designed to inhibit the growth of bacteria.

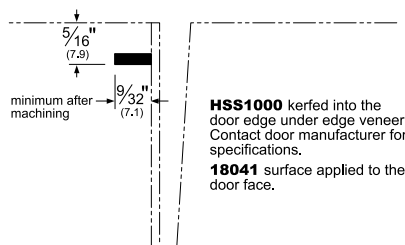
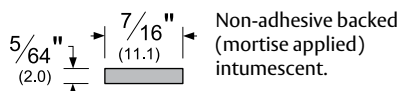
MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.

Hot Smoke Seal/SiliconSeal Combination Fire/Smoke Sealing

- Chemically inert, highly stable, expandable graphite strip
- Tested and proven in positive pressure conditions to withstand both hot smoke and hot gasses, resulting in longer integrity of the door assembly
- More economical to use than specially modified doors in "tested assembly only" classifications
- Hot Smoke Seal can be painted to blend in with the finish of a frame
- Will not degrade from carbon dioxide and ozone like many competitive intumescent from other manufacturers
- Unaffected by moisture and will not break down like fiber-based or cellulose-based products

HSS1000

AVAILABLE FINISHES: Graphite (no finish code), **W**
AVAILABLE LENGTHS: **7', 8', 10', 18', 21', 24'**
ANSI: **R0P124**



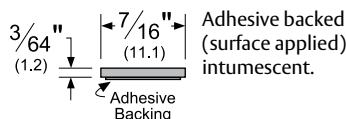
Notes For All Adhesive Gasketing:

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

Before installing: Thoroughly clean the frame to remove grease, dust or cleanser build-up (cleansing towelettes are included with product). Painted frame surface must be completely dry. Some hospital environments have wax or anti-bacterial cleanser build-up. As an alternative or substitute cleanser, use isopropyl (rubbing) alcohol. Note: Mineral spirits or other petroleum based cleaning products should NOT be used.

HSS2000

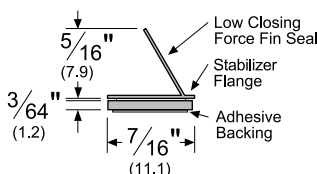
AVAILABLE FINISHES: Graphite (no finish code), **W**
AVAILABLE LENGTHS: **7', 8', 10', 18', 21', 24'**
ANSI: **R0P154**



HSS2000xS44

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **18', 20', 21', 24'**
20' lengths can be supplied in 4-0 x 8-0 or 6-0 x 7-0. Specify when ordering
ANSI: **R0U154, R0U155**

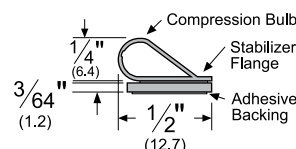
- Compresses to seal a gap up to 1/8"



HSS2000xS88

AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**
AVAILABLE LENGTHS: **18', 20', 21', 24'**
20' lengths can be supplied in 4-0 x 8-0 or 6-0 x 7-0. Specify when ordering
ANSI: **R0U154, R0U155**

- Compresses to seal a gap up to 1/8"



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **TAN** (Tan) **W** (White)

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HOSPITALITY PRODUCTS

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HARDWARE**
WWW.TMHARDWARE.COM

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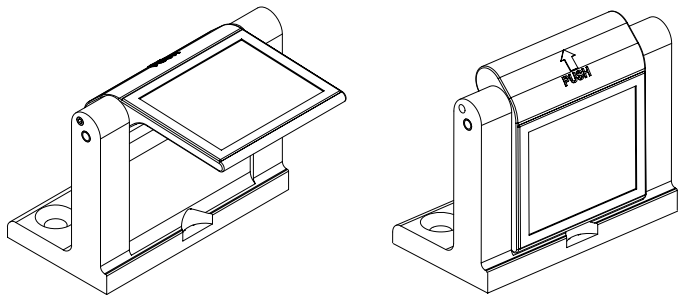
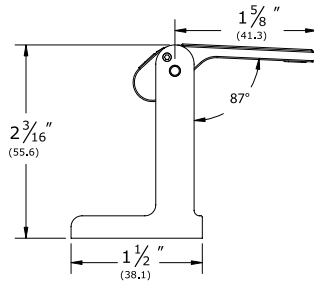
Privacy Door Latch

- Easy to install, simple to operate
- ADA Compliant
- Enhances room privacy
- UL Classified as a fire door accessory

PDL_

AVAILABLE COLORS:

US26 Bright Chrome
US26D/15 Dull Chrome/Satin Nickel
US3 Bright Brass
US4 Dull Brass
US10B Dark Bronze

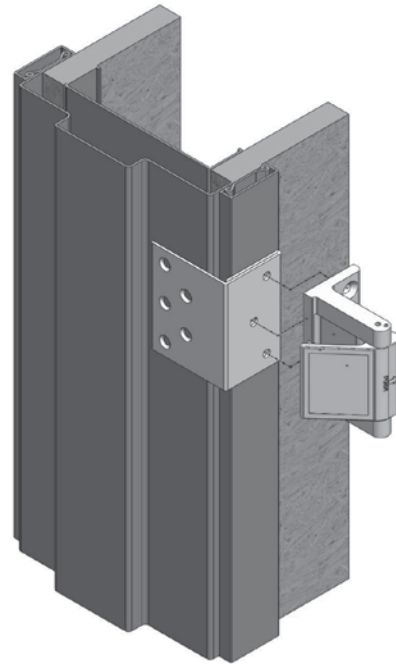
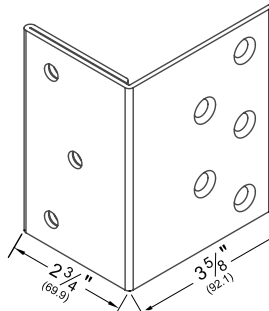


Privacy Door Latch Bracket

- Designed for Timely or Redi-Frame frames with snap on trim
- Bracket allows PDL to be installed in the correct position for proper operation

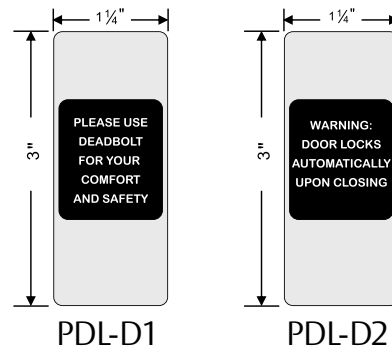
PDLBRKT_

AVAILABLE COLORS:
Off White (blank), 10B



Privacy Door Latch Decals

- Used to cover holes left on door and frame from old style door latch. Per NFPA80 holes must first be filled with like material in order to maintain the fire opening rating
- Made from stable, mar-resistant plastic
- Sub-surface screen printing so verbiage will not be affected by gentle cleaning/dusting



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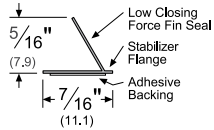
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SiliconSeal Adhesive Gasketing

S44_

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 510'
ANSI: **R0E154, R0E155**

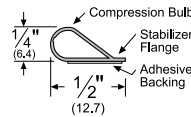
- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



S88_

AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510'
ANSI: **R0E154, R0E155**

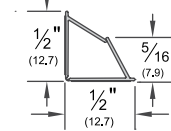
- Seal begins compressing at $\frac{1}{4}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



S442_

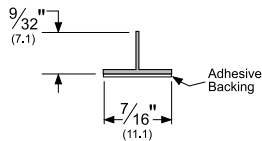
AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510'
ANSI: **R0E154, R0E155**

- Seal Fits flush into corner
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap in either direction



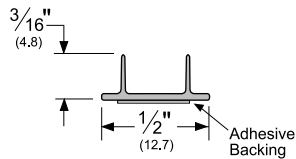
S771_

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: 7', 8', 9', 10'
ANSI: **R0E154, R0E155, R0E754, R0E755**



S772_

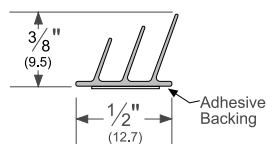
AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: 7', 8', 9', 10'
ANSI: **R0E154, R0E155, R0E754, R0E755**



S773_

AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 250'
ANSI: **R0E154, R0E155**

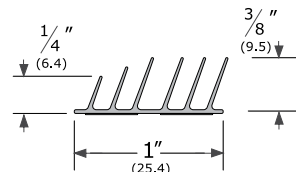
- Triple-fin design effectively blocks light and sound from infiltrating a room
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



S776_

AVAILABLE FINISHES: **BL**
AVAILABLE LENGTHS: 17', 18', 20', 21'
ANSI: **R0E154, R0E155**

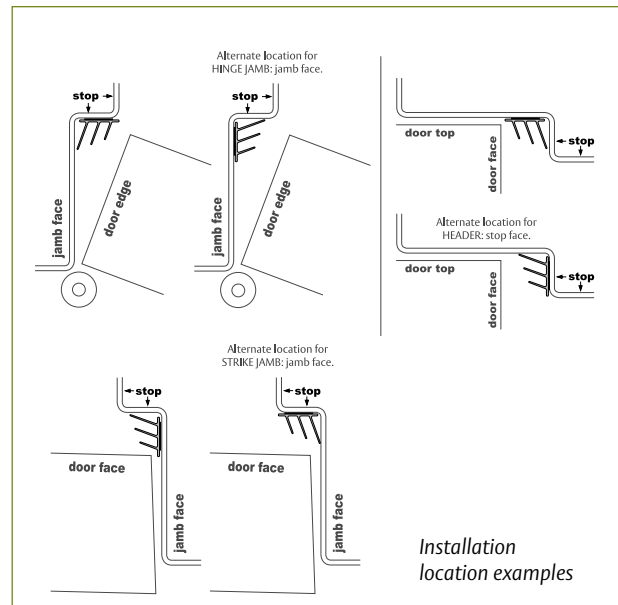
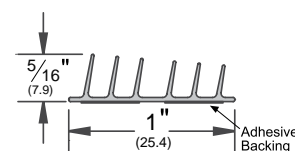
- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



S771x6_

AVAILABLE FINISHES: **BL, C**
AVAILABLE LENGTHS: 7, 8, 9', 10, 17, 18, 20, 21, 25
ANSI: **R0E154, R0E155, R0E754, R0E755**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **TAN** (Tan) **W** (White)

Automatic Door Bottoms: PDB Series

- Unique patented design creates uniform seal pressure across the entire door bottom, resulting in superior acoustic performance
- United States Patent No. 8,925,250 B2

PDB411_E

AVAILABLE FINISH:

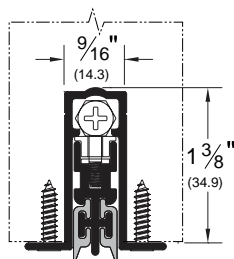
A

REPLACEMENT INSERT:

PK8 (BL)

ANSI:

R3G324, R3G325



PDB4131_E

AVAILABLE FINISHES:

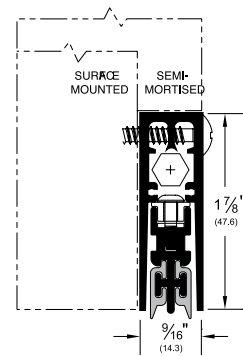
C, D

REPLACEMENT INSERT:

PK8 (BL)

ANSI:

R3G334, R3G335, R3G344, R3G345



Door Shoes

2163_V

AVAILABLE FINISHES:

A, D, G

AVAILABLE LENGTHS:

36", 48"

REPLACEMENT INSERT:

EV94 (BL)

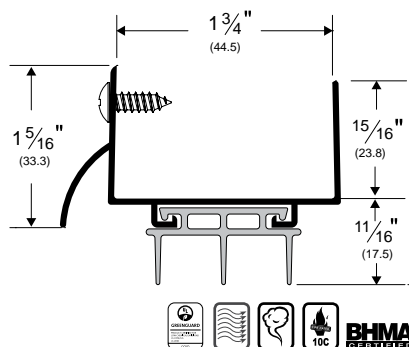
ANSI:

R3D514, R3D515

Also available with
unnotched insert:

2163_V36UN

2163_V48UN



2173_V

AVAILABLE FINISHES:

A, BDG, D, G, PW

AVAILABLE LENGTHS:

36", 48"

REPLACEMENT INSERT:

EV94 (BL)

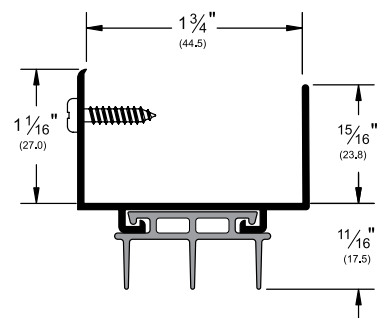
ANSI:

R3D414, R3D415

Also available with
unnotched insert:

2173_V36UN

2173_V48UN



2212_PK773

AVAILABLE FINISHES:

A, D, G

AVAILABLE LENGTHS:

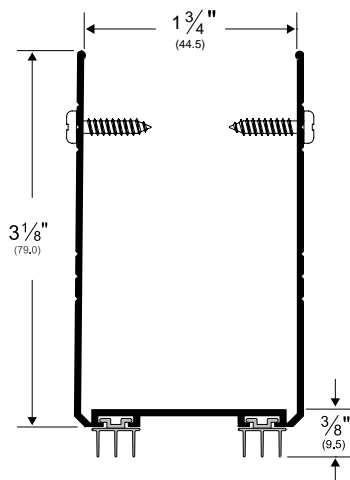
36", 48"

REPLACEMENT INSERT:

PK773 (BL, GR)

ANSI:

R3D414, R3D415



2113_V

AVAILABLE FINISHES:

A, D, G

AVAILABLE LENGTHS:

36", 48"

REPLACEMENT INSERT:

EV94 (BL)

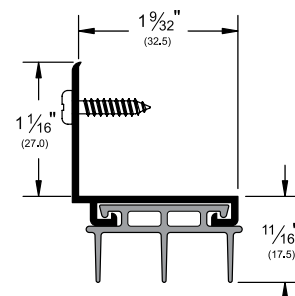
ANSI:

R3D414, R3D415

Also available with
unnotched insert:

2113_V36UN

2113_V48UN



3692_PK773

AVAILABLE FINISH:

A

AVAILABLE LENGTHS:

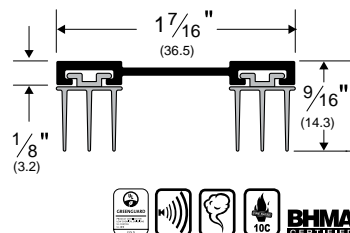
36", 48"

REPLACEMENT INSERT:

PK773 (BL, GR)

ANSI:

R3G414, R3G415



2343_V

AVAILABLE FINISHES:

A, D, G

AVAILABLE LENGTHS:

36", 48"

REPLACEMENT INSERT:

EV94 (BL)

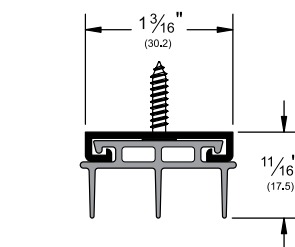
ANSI:

R3D414, R3D415

Also available with
unnotched insert:

2343_V36UN

2343_V48UN



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White)

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Automatic Door Bottoms

- All PEMKO Automatic Door Bottoms, 24" and up, can be manufactured for field alteration.
- Please specify when ordering: Allow 2" for field trimming

- Overall sizes range from 18" to 72"
- 0.0625" Lead-lining available upon request; contact PEMKO Customer Service for options on profiles

411_NBL

AVAILABLE FINISH:

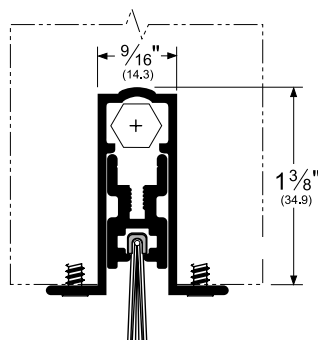
A

REPLACEMENT INSERT:

P14075 (BL, GR)

ANSI:

R3A324, R3A325



nylon brush (NB)



411_RL

AVAILABLE FINISH:

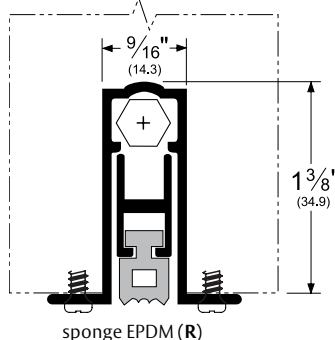
A

REPLACEMENT INSERT:

E7 (BL)

ANSI:

R3G324, R3G325



sponge EPDM (R)



Alternate Insert For 411

411_PKL

AVAILABLE FINISH:

A

REPLACEMENT INSERT:

PK4132 (BL)

ANSI: **R3G324, R3G325**



411_SL

AVAILABLE FINISH:

A

REPLACEMENT INSERT:

SR6 (BL)

ANSI:

R3E324, R3E325



sponge silicone (S)

All above products



4131_NBL

AVAILABLE FINISHES:

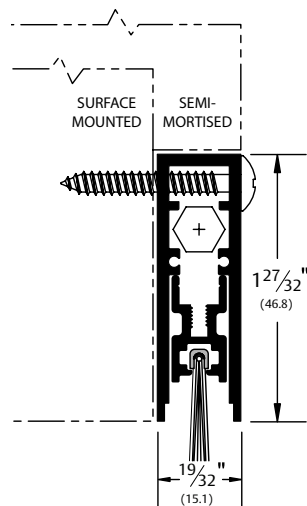
BDG, C, D, SN

REPLACEMENT INSERT:

P14075 (BL, GR)

ANSI:

R3A334, R3A335, R3A344, R3A345



nylon brush (NB)



4131_RL

AVAILABLE FINISHES:

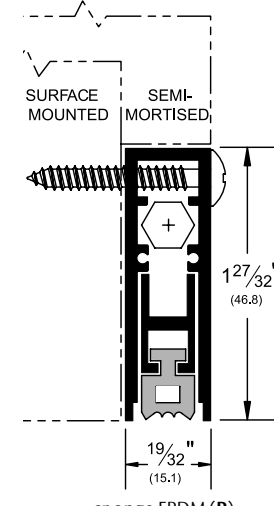
BDG, C, D, SN

REPLACEMENT INSERT:

E7 (BL)

ANSI:

R3G334, R3G335, R3G344, R3G345



sponge EPDM (R)



Alternate Inserts For 4131

4131_PKL

AVAILABLE FINISHES:

BDG, C, D, SN

REPLACEMENT INSERT:

PK4132 (BL)

ANSI: **R3G334, R3G335,**

R3G344, R3G345



PemkoPrene™ (PK)

4131_SL

AVAILABLE FINISHES:

BDG, C, D, SN

REPLACEMENT INSERT:

SR6 (BL)

ANSI: **R3E334, R3E335,**

R3E344, R3E345



sponge silicone (S)

All above products



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

A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **C** (Clear Anodized) **D** (Dark Bronze Anodized)

SN (Satin Nickel Anodized)



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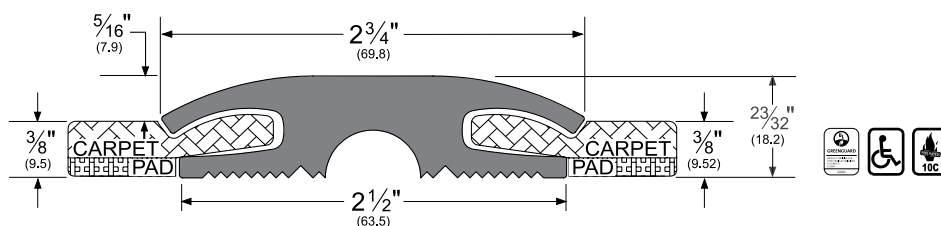


Eco-V™ Thresholds

- Eco-V™ thresholds create an ideal transition where two different pieces of carpet meet, or carpet meets another surface under a door
- Ideal for use in any high-traffic commercial installation, such as hotels and offices
- Eco-V™ thresholds are manufactured from slightly softer material than competitive products. This aids in the cutting and fitting of the threshold and facilitates easier insertion of the carpet into the holding cavities on the carpet side(s) of the threshold
- Eco-V™ thresholds are designed to work in conjunction with PEMKO's **2173_V**, **2113_V** and **2343_V** door shoes
- EV232_**, **EV2325_**, and **ADJ232V** thresholds have been tested and approved under **ADAAG-2010 (Amended)**; **ICC/ANSI A117.1** and **California Building Code, Title 24** for Barrier-Free Entry

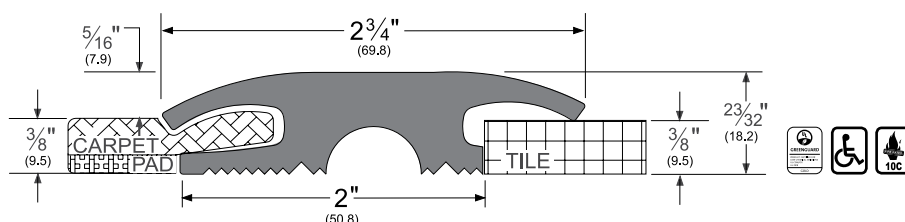
EV232_

AVAILABLE COLORS: **BL**, **D**
AVAILABLE LENGTHS: **36"**, **48"**, **73"**
Serves as a transition where two pieces of carpet meet beneath an interior door



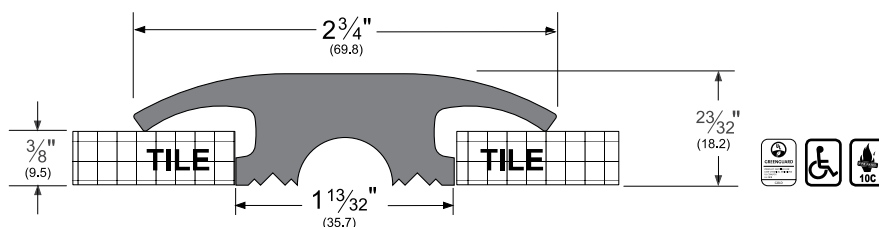
EV2325_

AVAILABLE COLORS: **BL**, **D**
AVAILABLE LENGTHS: **36"**, **48"**, **73"**
Serves as a transition where one piece of carpet meets tile beneath an interior door



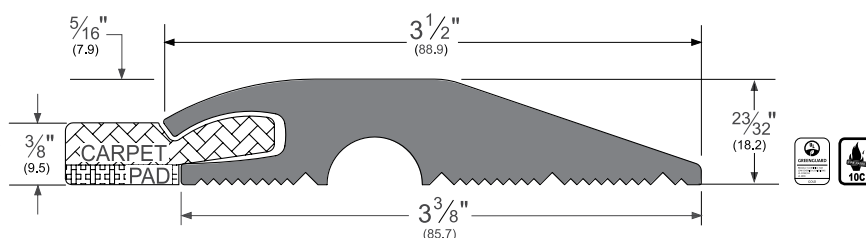
EV2326_

AVAILABLE COLORS: **BL**, **D**
AVAILABLE LENGTHS: **36"**, **48"**, **73"**
Serves as a transition where two pieces of tile meet beneath an interior door



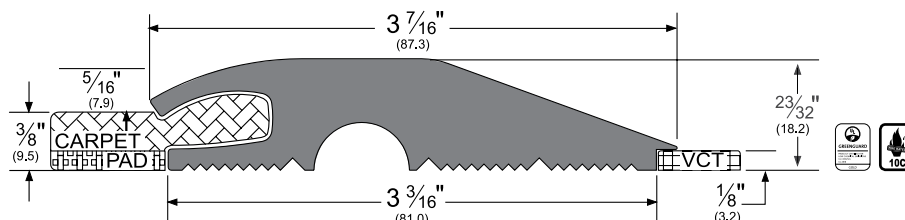
EV2320_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36"**, **48"**, **73"**
Serves as a transition where carpet meets concrete beneath an interior or exterior door



EV2322_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36"**, **48"**, **73"**
Serves as a transition where carpet meets 1/8" tile beneath an interior door



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **D** (Dark Brown)

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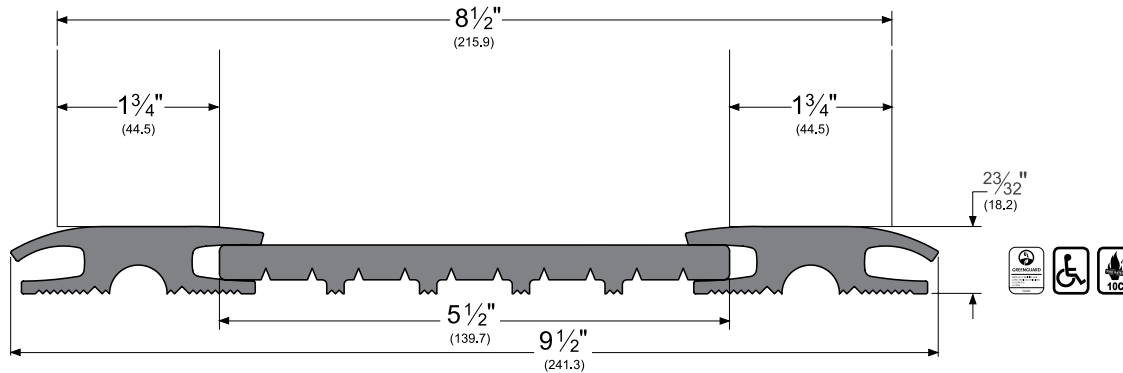
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Adjustable-Width Eco-V™ Threshold

- The adjustable-width threshold is designed for installations where the widths of the transition beneath a door may need to change, without completely disassembling and reinstalling the threshold
- The adjustable-width threshold consists of two Eco-V™ end pieces and one Eco-V™ adjustable center section
- Center section (**EV2321_** below) can easily be cut to size with a standard razor knife

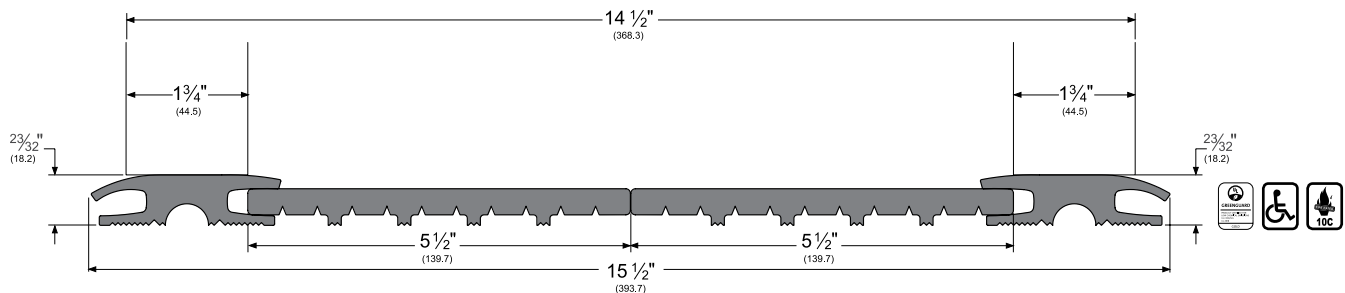
ADJ232V8_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48"**



ADJ232V14_

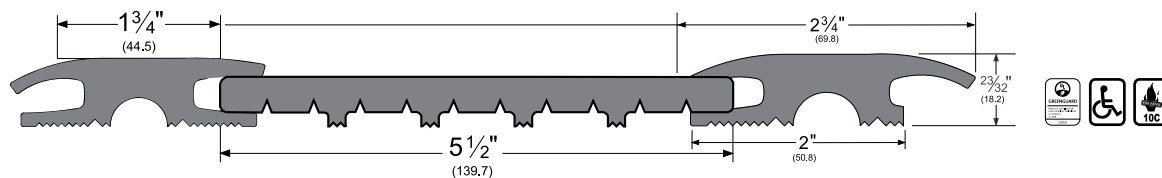
AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48"**



ADJ232x2325V8_

AVAILABLE COLOR: **BL**
AVAILABLE LENGTHS: **36", 48"**

For carpet to tile applications; other combinations available



NOTE: Products shown in this section may not be drawn to scale.

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



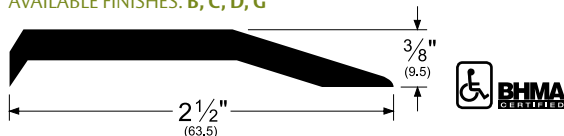
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Carpet Separators

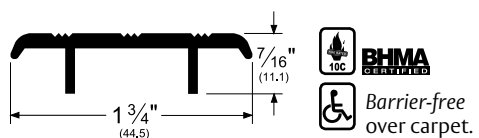
174_

AVAILABLE FINISHES: B, C, D, G



236_

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



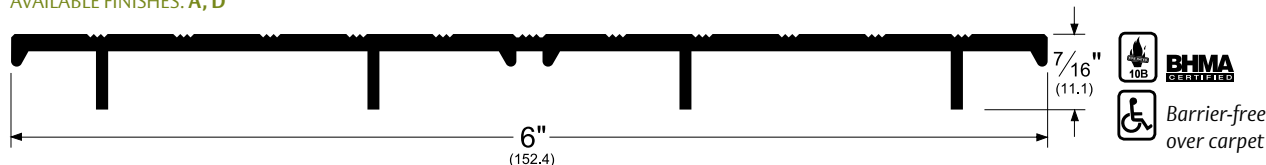
2364_

AVAILABLE FINISHES: A, B, D, G



2366_

AVAILABLE FINISHES: A, D



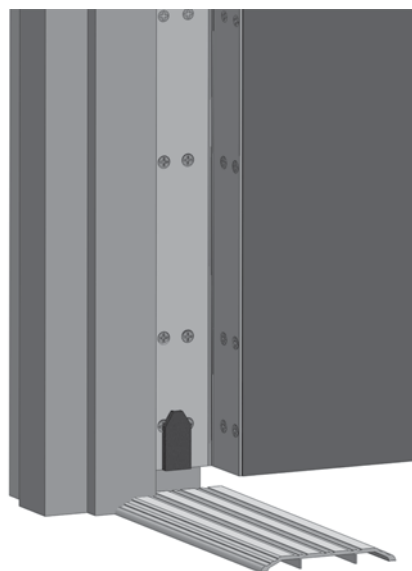
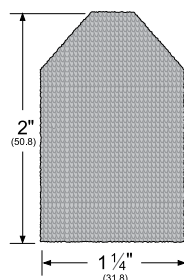
Acoustic Adhesive Corner Pads

Corner pad with black or white polypropylene pile, with pressure-sensitive adhesive

Apply to corner of jamb on hinge side to seal against air and light infiltration

ACP112_

AVAILABLE COLORS: BL, W



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NOTE: Products shown in this section may not be drawn to scale.

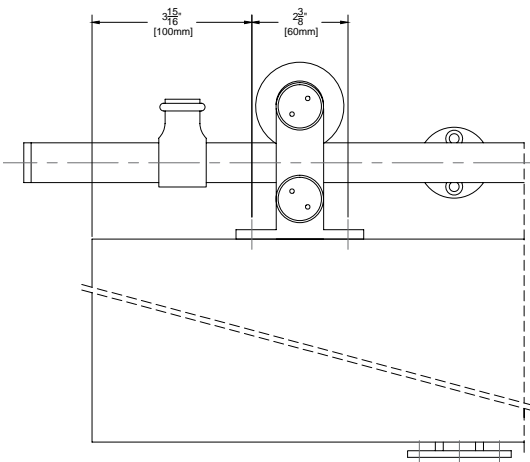
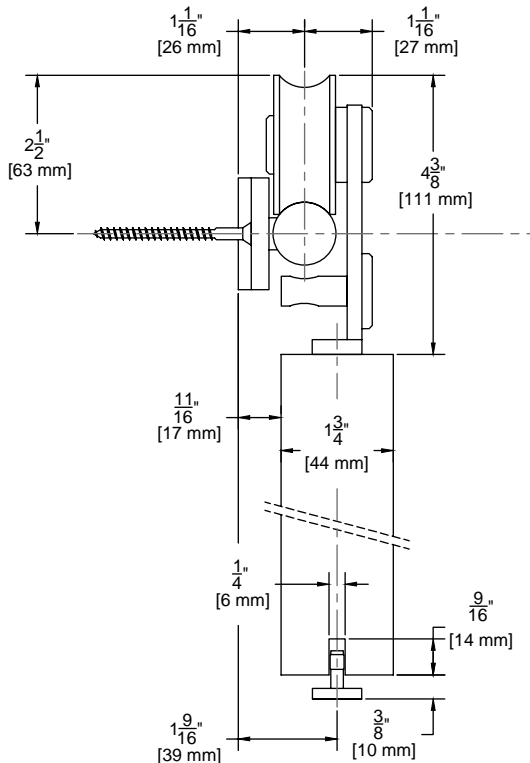
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze[Brass]) BDG (Bright Dip Gold Anodized)
D (Dark Bronze Anodized) G (Gold Anodized)
Corner Pad: BL (Black) W (White)*

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Stainless Steel Sliding Track Hardware System

W60 Series for Wood Doors

For Sliding Panels up to 176 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 176 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W60)
- Dark Bronze Stainless Steel (W60D)
- Polished Stainless Steel (W60P)

W60 Kits Include:

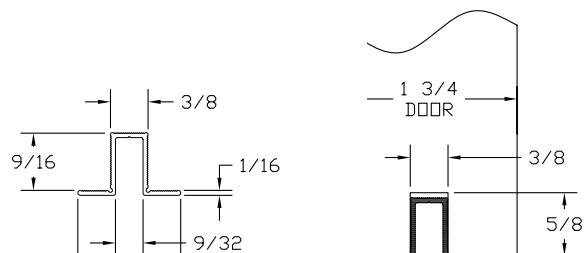
- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **62** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
W60/6	304 Stainless Steel	78 $\frac{3}{4}"$	36"
W60/8	304 Stainless Steel	98 $\frac{7}{16}"$	48"
W60D/6	304 Dark Bronze Stainless Steel	78 $\frac{3}{4}"$	36"
W60D/8	304 Dark Bronze Stainless Steel	98 $\frac{7}{16}"$	48"
W60P/6	304 Polished Stainless Steel	78 $\frac{3}{4}"$	36"
W60P/8	304 Polished Stainless Steel	98 $\frac{7}{16}"$	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**



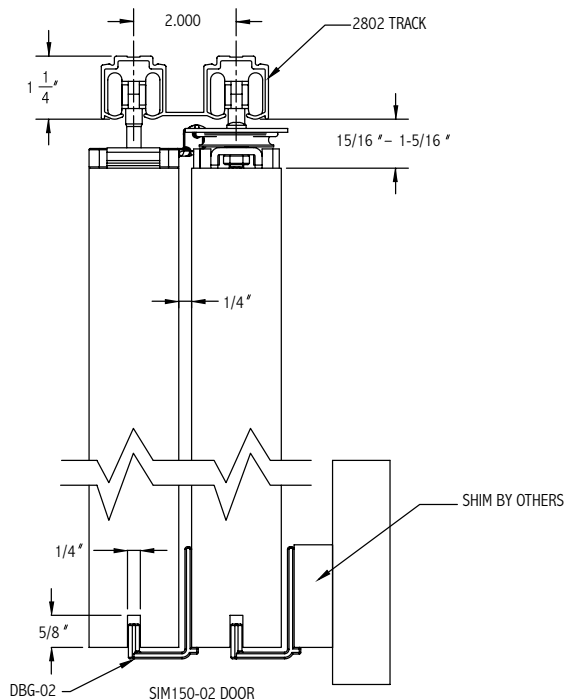
NOTE: Alternate route dimension when using optional EPD3BL



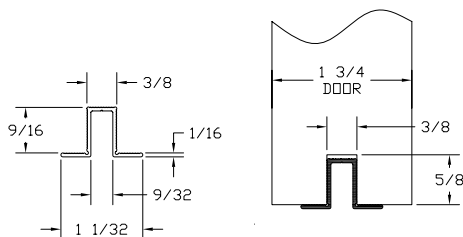
Simultaneous Acting Sliding Door System

SIM 150 for 2 Door Systems

For Sliding Panels up to 176 lbs.



Alternate Route for EPD3BL



Configurations:

- Bi-part Telescoping

Installations:

- Overhead Mount

Features:

- Easy to install with self aligning components
- Telescoping panels glide along the track
- Doors retract into storage pockets when not in use
- 5 year warranty

Finishes:

- Clear (C)
- Dark Bronze (D)

Pulley System Kit Includes:

Pre-Assembled Pulley System

In-Track Stops and Hangers

Door Bottom Guides

Floor Stops, Back Stop and End Plates

Installation Fasteners

Single Extrusion Aluminum Track must be ordered separately.

Specify door width when ordering. Default door overlap is 3". Any other overlap must be specified (Min. overlap is 2").

Pulley System Kits

Part Number	Door Width
SIM150-2-LH/25-32	25" - 32"
SIM150-2-LH/33-40	33" - 40"
SIM150-2-LH/41-48	41" - 48"
SIM150-2-RH/25-32	25" - 32"
SIM150-2-RH/33-40	33" - 40"
SIM150-2-RH/41-48	41" - 48"

System Track

Track	Finish	Track Length
2802C	Clear	up to 147"
2802D	Dark	up to 185"

Options:

Lock Kit- includes lock with edge pull, and cup pull, **SIM150-LOCKKIT**

Bolt Kit- includes surface bolt, dust-proof strike, cup pull, and edge pull, **SIM150-BOLTKIT**

Snap-on Fascia Available **F134**

Polypropylene Guide Rail **EPD3BL**



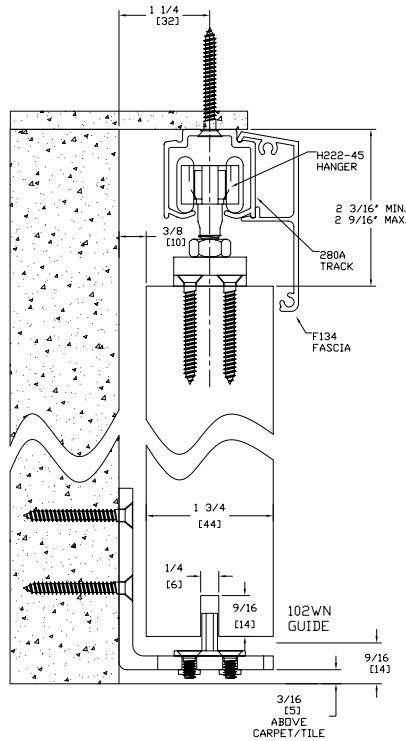
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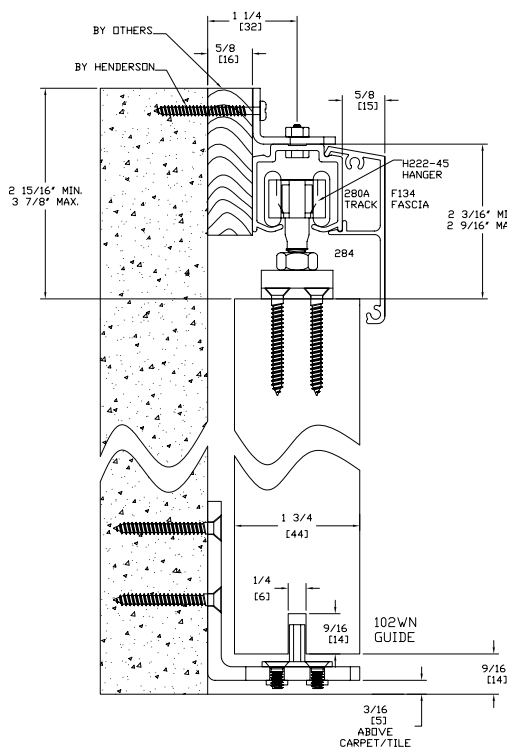
SHS80 System

For Sliding Panels up to 180 lbs.

Overhead Mount



Side Wall Mount



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount

Features:

- Hanger body is made of nickel plated zinc alloy for durability and long life
- Zinc alloy ball bearing wheels coated in nylon for smooth operation
- 180 lb. panel capacity
- 5 year warranty

SHS80 Kits Include:

- 1 ea **280C** clear anodized aluminum track
- 2 ea **H222-45** Hanger - Nickel Plated Zinc Alloy Body
- 2 ea **601H** Nylon In-Track Clip Stop
- 1 ea **102WN** White Nylon Mortise Guide on Zinc Plated Steel "L" Metal

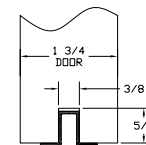
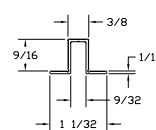
Standard Kit Sizes

Part Number	Material	Track Length	Door Width
SHS80/6	Aluminum	72"	36"
SHS80/8	Aluminum	96"	48"

Options: See page 265

- Fascia
 - F134C** clear anodized aluminum fascia
 - F134D** dark bronze anodized fascia
- Side Wall Track Brackets
 - 281** available as 5 pack only, 2815
- Track
 - 280D** dark bronze anodized track
- End Plate Kit
 - K134EP** (use with F134C and 280C only)
 - K134DEP** (use with F134D and 280D only)
- Bottom Channel
 - 94A**
- Roller Guide
 - 106R/94**
- Threshold
 - 971A**
- Side Wall Mount
 - 102WA**
- Mortise Guides
 - 102N**
- Mortise Floor Guide
 - 102N**
- Polypropylene Guide Rail
 - EPD3BL** for use with 102N or 102WN

Alternate Route for EPD3BL



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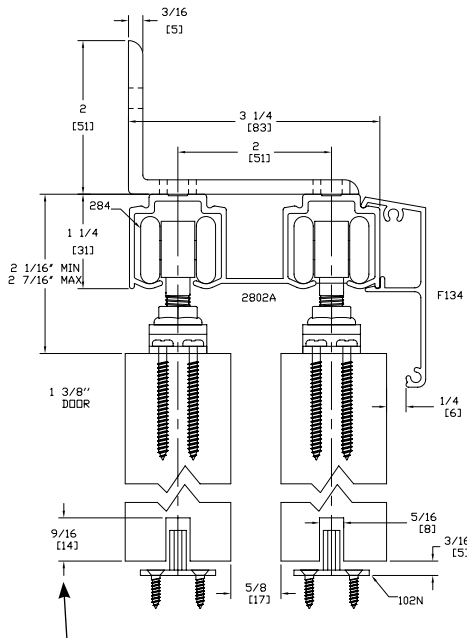
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Bypass Track System

For Bypass Panels up to 200 lbs.

1 3/8" Thick Doors

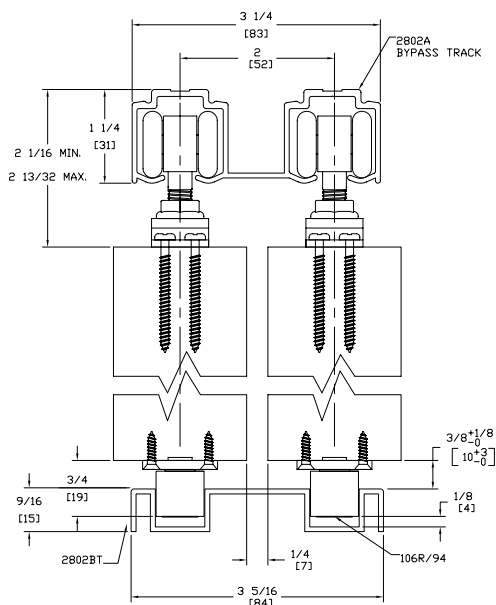
Doors Side Wall Mount



Note: Route door 9/16" deep by 1/4" wide to receive 102N Guide.

1 3/4" Thick Doors

Overhead Mount



* Side Wall mounting: use one (1) 2812 Kit per 3 ft. of track.

Configurations:

- For Bypass Doors

Features:

- Fits 1 3/8" and 1 3/4" doors
- Needle-bearing wheels for ultra smooth performance
- Load capacity 200 lbs. per door panel (2 hangers)
- Extruded aluminum track
- 5 year warranty

HBP200A Kits Include:

- 1 ea **2802C** Clear Anodized Aluminum Track
- 4 ea **284** White Nylon Hangers
- 2 ea **102N** White Nylon Mortise Guide
- 4 ea **286** Stops
- 1 ea Adjusting Wrench and Mounting Hardware

Standard Kit Sizes

Part Number	Track Length	Door Width
HBP200A/4	48"	2 @ 24"
HBP200A/5/4	64"	2 @ 32"
HBP200A/6	72"	2 @ 36"
HBP200A/7	84"	2 @ 42"
HBP200A/8	96"	2 @ 48"
HBP200A/10	120"	2 @ 60"
HBP200A/12	144"	2 @ 72"

Options: See page 265

Hardware Kit	H100/200 pack
Mounting Bracket	2812
Track	2802D dark bronze anodized track
Track Stop (bumper)	287HD
Bottom Channel	94A
Fascia, Snap-On	F134C clear anodized aluminum fascia. F134D dark bronze anodized aluminum fascia
Roller Guide	106R/94
Dual Guide Channel	2802BT
Polypropylene Guide Rail	EPD3BL for use with 102N

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ACOUSTIC PRODUCTS

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The Impact of Sound

Everyday our ears are met with a barrage of sounds. Sounds can be pleasant, like music or laughter. But they can also be disruptive, like construction or traffic, or even just the people in the cubicle next door. At a certain point sound becomes noise and we look for ways to control it. Sound control is especially important in classrooms, hospitals, hotels and offices, as it impacts our ability to learn, heal, sleep and think.

The U.S. Green Building Council recognizes the importance of acoustical control by including LEED Indoor Environment Quality (IEQ) credits for acoustics.

Description of Sound

Sound can be described as vibrations in the air moving in waves. The rate of sound vibrations measured in cycles per second is called frequency and is measured in hertz (Hz). Sound pressure levels are measured in decibels (dB). For a list of common noises and their related decibel level, see the chart on the right.

Sound Level dB

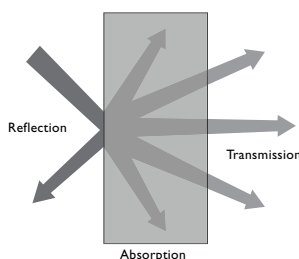
0	Threshold of hearing	Inaudible
20	Very rural environment	Extremely quiet
30	Quiet home	Faint
40	Quiet office	Distant sounds audible
50	Background conversation	Moderate
60	Radio/Television in home	Moderate
70	Highway noise	Moderately loud
80	Background factory noise	Loud
90	Noisy factory	Very loud
105	Elevated train	Deafening
120	Bass drum at 3'	Physical pain
130	Jet aircraft at 100'	Physical pain

Basic Acoustics

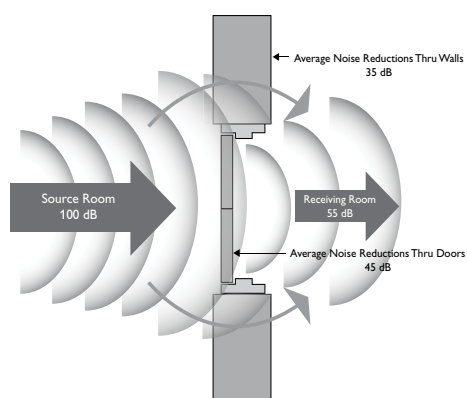
Sound transmission reduction relies on two main principles:

Sound Absorption - Removing sound energy from within a room by using materials such as acoustic tiles or open cell foam to soak up sound.

Sound Insulation - Preventing the transmission of sound waves by introducing a barrier. Examples include brick, concrete, metal, heavy doors, etc.



Sound waves will travel the path of least resistance. A high performing door will not compensate for less performing materials in the walls around it.



In order to reduce the transmission of sound, materials are added between the source room and the receiving room. The resulting change in decibel level is the sound transmission loss and is given a Sound Transmission Class (STC) rating.

The higher the rating number, the lower the transmission of sound. The STC rating is roughly the decibel reduction a partition can provide. For instance, if a 100 dB noise is reduced to 55 dB, that product roughly has a STC 45 rating.



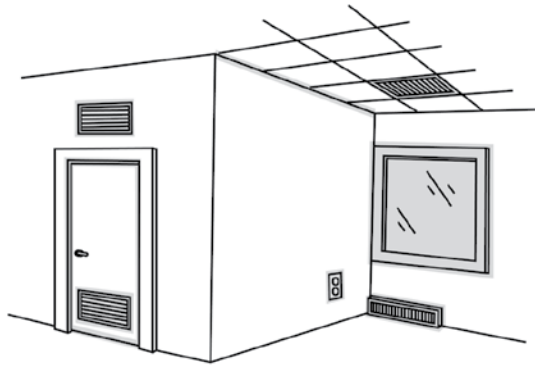
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Sound Flanking

Flanking is the leakage of airborne sound around a door opening through any available gap. Flanking between the door leaf and the surrounding frame is reduced by the use of seals.

Optimum sound attenuation performance is likely achieved using a four sided frame with a sill made to the same detail as the head and the seals set in a single plane. If a full four sided frame is not an option, then alternative threshold sealing options should be made such as automatic door bottoms, door shoes and/or thresholds.



Active STC Rating	Level Of Speech Heard
STC-30	Loud speech understood
STC-35	Loud speech heard but not understood
STC-40	Loud speech audible as a murmur
STC-45	Some loud speech barely audible
STC-48	Hearing strained to hear loud speech
STC-50	Loud speech not audible

STC Ratings

Acoustic Door Testing is done on "sealed-in-place" (fully caulked) doors for door STC ratings, as well as on assemblies (with gasketing and door bottoms) for operable STC ratings. Operable STC ratings are always equal to or lower than the sealed-in-place ratings. The best performance rating on the operable test is a 'zero drop' in the assembly's STC rating. For example, a door with a STC 45 rating can only achieve an operable STC of 45 at its very best; it can never achieve a STC 50.

Also, since sound waves travel the path of least resistance, a high performing door will not compensate for elements like improperly installed seals around doors, the lack of a threshold under the door, a non-insulated frame, louvered doors, or poor seals at the wall/ceiling/floor/mullion connections.

When STC ratings are determined, normal human speech and hearing are used. In most cases the level of reduction does not totally eliminate but rather muffles the sound to an unintelligible level. The chart shown on the left compares the level of speech that would be heard through a door system with the indicated operable STC rating.

Look for PEMKO products with this symbol:



Tested To: ASTM E 90-2009

Products indicated by this symbol have been acoustically tested in accordance with ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

Need STC Rated Doors?

PEMKO Acoustic Seal Sets are an important part of an overall acoustic solution. ASSA ABLOY Group brands can provide the other elements of the solution including STC Rated Doors, STC Rated Frames and complete STC Rated Assemblies.

For more information please see:

CECO DOORS: www.cecodoor.com

CURRIES: www.curries.com

GRAHAM: www.grahamdoors.com

MAIMAN: www.maiman.com

SMP SPECIALTY DOORS: www.secmet.com

Acoustic Seal Sets

PEMKO supplies the appropriate acoustic components in sets. These product combinations are lab tested and have known decibel drops when used with sound-rated doors. Each kit includes gasketing, a door bottom or threshold, and a complete set of installation instructions. Installation instructions show the proper installation location for each component for optimal performance.

HOW TO:

1. Locate the Sealed-In-Place (inoperable) rating for your door.
2. Determine the maximum allowable drop for your opening (i.e. -1 db). Note: the numbers are represented as negative numbers as they will decrease your inoperable rating by the number shown (i.e. 45 using a -1 kit will decrease the inoperable rating from 45 to an operable of 44)
3. Find a number in the column below your door's inoperable rating that will keep your opening in the allowable range.
4. Select a kit (or one of the kits given if Alternate Kits are shown), place it on your Purchase Order and add your opening size in inches (i.e. a 3/0 x 7/0 opening will be ordered as a 3684).

Item Number	Sealed-In-Place Door STC Rating				
	58 to 54	53 to 49	48 to 46	45 to 43	<42
PEMKOSTCSET-1A Alternate Kits: 1B, 1C, 1D, 1E		-2	-2	-1	0
PEMKOSTCSET-2C	-3	-2	-2	-1	0
PEMKOSTCSET-2D Alternate Kits: 2A, 2B	-3	-2	-1	-1	0
PEMKOSTCSET-2E	-2	-2	-1	-1	0
PEMKOSTCSET-3A		-2	-1	0	0
PEMKOSTCSET-3D		-2	-1	0	0
PEMKOSTCSET-3E	-2	-2	-1	0	0
PEMKOSTCSET-3B				0	0
PEMKOSTCSET-4A				0	0
PEMKOSTCSET-4B				0	0
PEMKOSTCSET-4D				0	0
PEMKOSTCSET-4E				0	0

NOTE: A seal set cannot increase the sealed-in-place rating; a zero drop is the best performance any seal set can provide.

Item Number	Gasketing	Door Bottom	Threshold	Corner Pad
PEMKOSTCSET-1A	S773BL (Single Row) and S44BL (Single Row)	PDB411AE		ACP112BL
PEMKOSTCSET-1B	S44BL (Two Rows)	PDB411AE		ACP112BL
PEMKOSTCSET-1C	S442BL (Single Row) and S44BL (Single Row)	PDB411AE		ACP112BL
PEMKOSTCSET-1D	303AS and S44BL (Single Row)	PDB411AE		ACP112BL
PEMKOSTCSET-1E	312CR and S44BL (Single Row)	PDB411AE		ACP112BL
PEMKOSTCSET-2A	S773BL (Single Row) and S44BL (Single Row)		2008APK	
PEMKOSTCSET-2B	S44BL (Two Rows)		2008APK	
PEMKOSTCSET-2C	S442BL (Single Row) and S44BL (Single Row)		2008APK	
PEMKOSTCSET-2D	303AS and S44BL (Single Row)		2008APK	
PEMKOSTCSET-2E	312CR and S44BL (Single Row)		2008APK	
PEMKOSTCSET-3A	S773BL (Single Row) and S44BL (Single Row)	3692APK773BL		
PEMKOSTCSET-3B	S44BL (Two Rows)	3692APK773BL		
PEMKOSTCSET-3D	303AS and S44BL (Single Row)	3692APK773BL		
PEMKOSTCSET-3E	312CR and S44BL (Single Row)	3692APK773BL		
PEMKOSTCSET-4A	S773BL (Single Row) and S44BL (Single Row)		2009APK	
PEMKOSTCSET-4B	S44BL (Two Rows)		2009APK	
PEMKOSTCSET-4D	303AS and S44BL (Single Row)		2009APK	
PEMKOSTCSET-4E	312CR and S44BL (Single Row)		2009APK	

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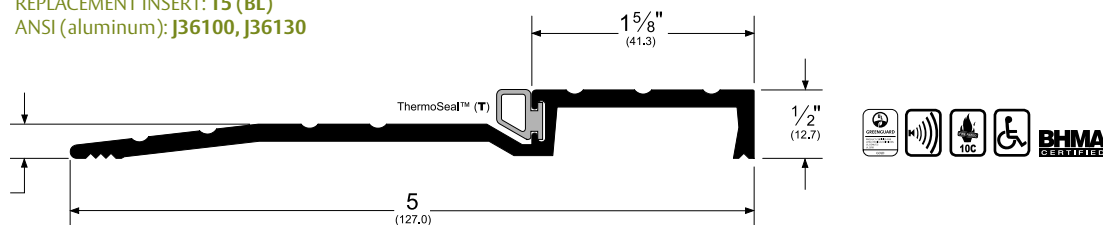
**TRADEMARK
HARDWARE**
WWW.TMHARDWARE.COM

Acoustic Thresholds

- PEMKO's line of Acoustic Thresholds are designed to aid with a door's STC rating.
- Thresholds will not improve a door's "sealed in-place" STC rating
- Visit PEMKO's website, www.pemko.com, for more Acoustic products and additional information

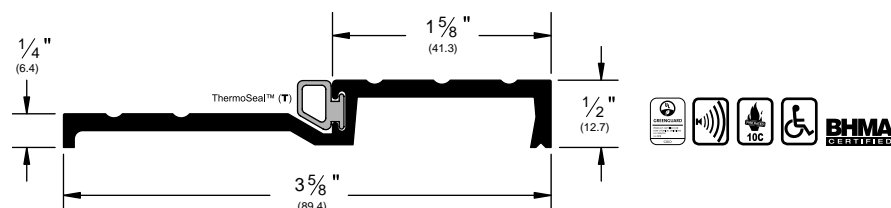
2006STC_

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36100, J36130**



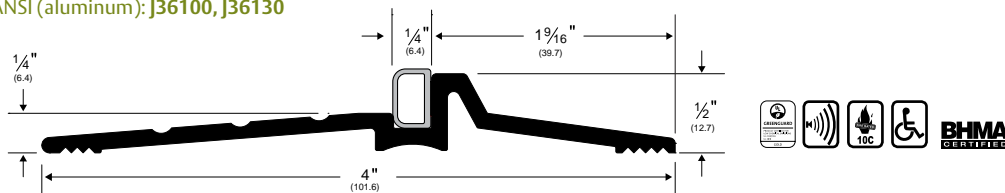
2007STC_

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **T5 (BL)**
ANSI (aluminum): **J36100, J36130**



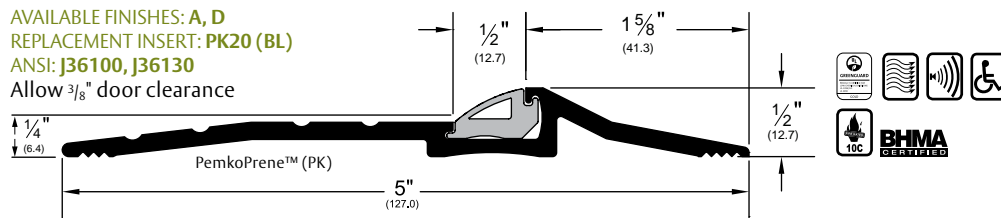
2008_PK

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **PK381 (BL)**
ANSI (aluminum): **J36100, J36130**



2009_PK

AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **PK20 (BL)**
ANSI: **J36100, J36130**
Allow 3/8" door clearance



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Bronze Anodized)



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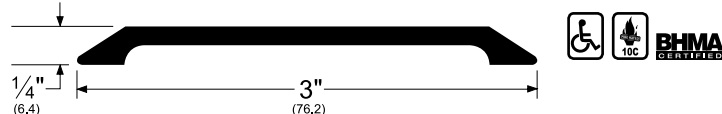


Saddle Thresholds

- Use these with PEMKO Automatic Door Bottoms to create a smooth, even sealing surface

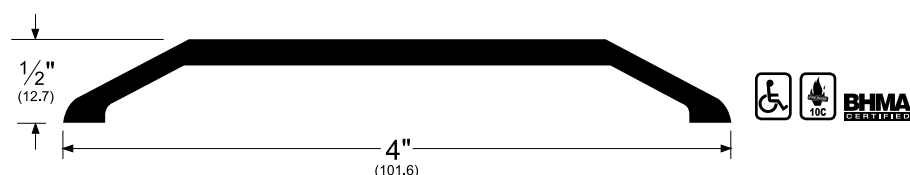
151_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32300, J32330**
ANSI (brass): **J12300, J12330**



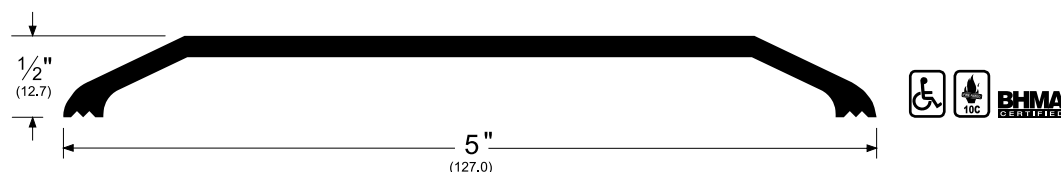
175_

AVAILABLE FINISHES: **A, B, D, G**
ANSI (aluminum): **J32300, J32330**
ANSI (brass): **J12300, J12330**



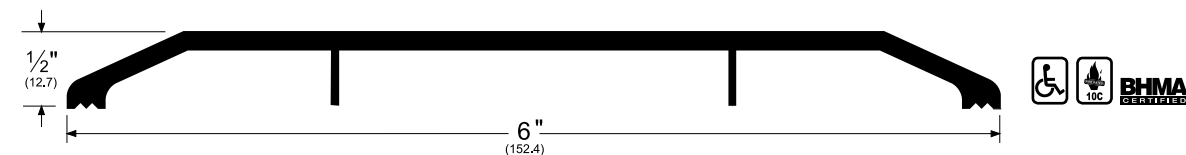
154_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



1546_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



1547_

AVAILABLE FINISHES: **A, D, G**
ANSI (aluminum): **J32300, J32330**



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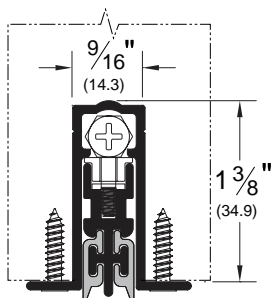
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish [Brass] Bronze) **D** (Dark Bronze Anodized) **G** (Gold Anodized)

Automatic Door Bottoms: PDB Series

- Unique patented design creates uniform seal pressure across the entire door bottom, resulting in superior acoustic performance
- Use a flat saddle to create a positive sealing surface that ensures maximum acoustic performance
- United States Patent No. 8,925,250 B2

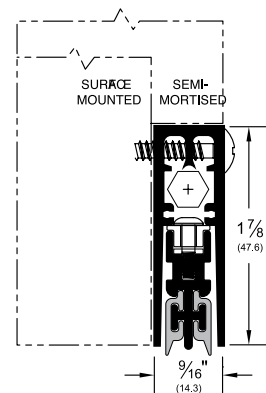
PDB411_E

AVAILABLE FINISHES: **A**
REPLACEMENT INSERT: **PK8 (BL)**
ANSI: **R3G324, R3G325**



PDB4131_E

AVAILABLE FINISHES: **C, D**
REPLACEMENT INSERT: **PK8 (BL)**
ANSI: **R3G334, R3G335, R3G344, R3G345**

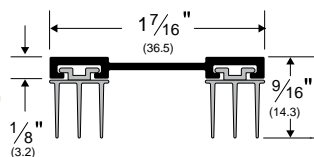


Door Shoes

- Slotted holes for easy adjustment
- Provided with stainless steel fasteners
- Use a flat saddle to create a positive sealing surface that ensures maximum acoustic performance

3692_PK773

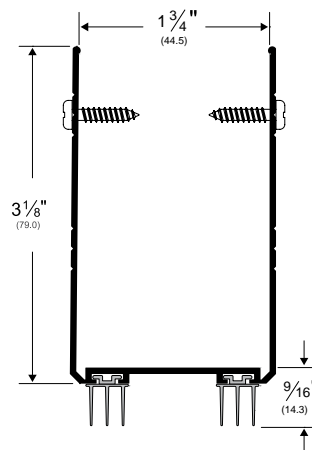
AVAILABLE FINISH: **A**
AVAILABLE LENGTHS: **36\", 48\"**
REPLACEMENT INSERT: **PK773 (BL, GR)**
ANSI: **R3G414, R3G415**



2212_PK773

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK773 (BL)**
ANSI: **R3G416**

- Combination door shoe and kick plate
- Excellent Acoustic performance

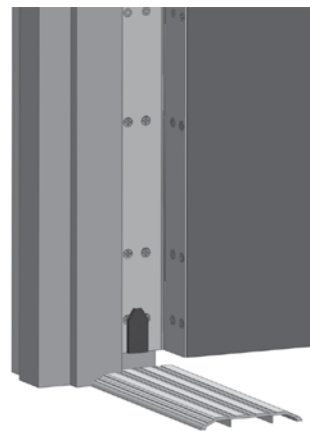
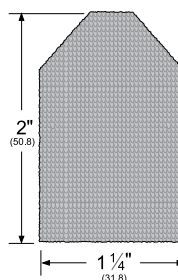


Acoustic Adhesive Corner Pads

- Corner pad with black or white polypropylene pile, with pressure-sensitive adhesive
- Apply to corner of jamb on hinge side to seal against air and light infiltration

ACP112_

AVAILABLE COLORS: **BL, W**



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
Corner Pads: **BL** (Black) **W** (White)

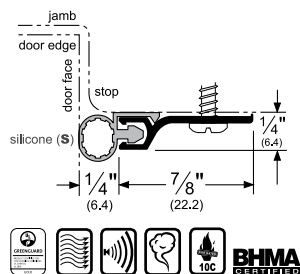


Standard Perimeter Gasketing

- Rigid jamb weatherstrip shown mounted on openings with $\frac{1}{16}$ " gaps; however, each weatherstrip can seal gaps up to the depth of its seal. Seal depth provided on each illustration (example: the **303** has a $\frac{1}{4}$ " seal; therefore, it can seal up to a $\frac{1}{4}$ " gap)
- Punched on 6" centers with slotted holes for adjustment
- Model 303 is available with self-adhesive two-sided tape (TST) and tek screws (3 slotted holes per part) for easy installation. To obtain this option, add "TST" to the end of the part when ordering (example: **303AVTST**)
- PEMKO is continually commissioning tests for acoustic assemblies. More profiles may be tested from this category. Please contact Customer Service if the options here don't suit your application.

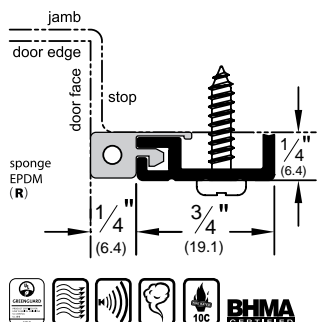
303_S

AVAILABLE FINISHES: **A, BDG, C, D, G, PW, SN**
REPLACEMENT INSERT: **S3 (BL, GR, W)**
ANSI: **R3E164, R3E165**



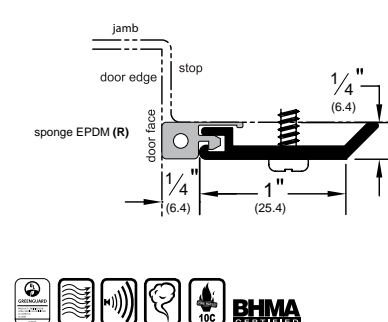
312_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **ER9BL (BL)**
ANSI (alum): **R3G164, R3G165**
• 312BR is being redesigned. Consult website for current profile.



315_R

AVAILABLE FINISHES: **B, C, D, G**
REPLACEMENT INSERT: **ER9BL (BL)**
ANSI (alum): **R3G164, R3G165**
• 315BR is being redesigned. Consult website for current profile.



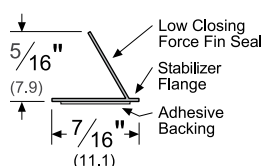
SiliconSeal Adhesive-Backed Gasketing

- SiliconSeal is extruded from high-temperature silicone; effective between -58°F and 450°F
- Self-extinguishing and non-toxic; unaffected by sunlight, ozone, and ultraviolet rays
- Impervious to fungus and mildew; will not deteriorate under normal exposure
- Meets FAR 25.853 Airworthiness Standards for Compartment Interiors

S44_

AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 204', 510'**
ANSI: **R0E154, R0E155**

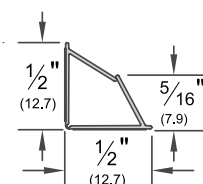
- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



S442_

AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**
ANSI: **R0E154, R0E155**

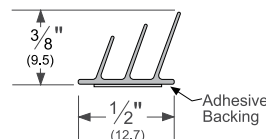
- Fits flush into corner
- Seal begins compressing at $\frac{5}{16}$ "; compresses to seal up to a $\frac{1}{16}$ " gap in either direction



S773_

AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 250', 500'**
ANSI: **R0E154, R0E155**

- Triple-fin design effectively blocks light and sound from infiltrating a room
- Seal begins compressing at $\frac{3}{8}$ "; compresses to seal up to a $\frac{1}{16}$ " gap



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
Metal: **A** (Mill Finish Aluminum) **B** (Mill Finish [Brass] Bronze) **BDG** (Bright Dip Gold Anodized)
D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)
SiliconSeal: **BL** (Black) **C** (Clear) **D** (Dark) **GR** (Gray) **W** (White)

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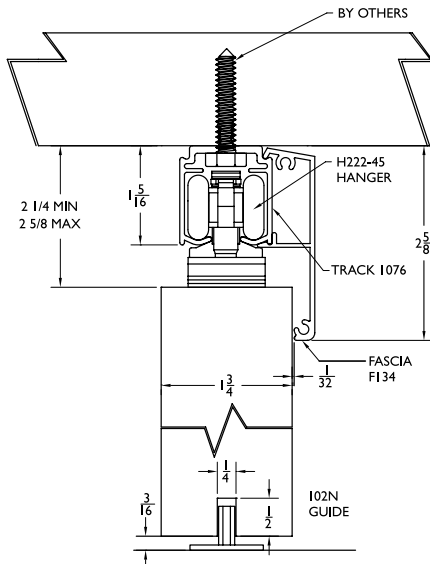
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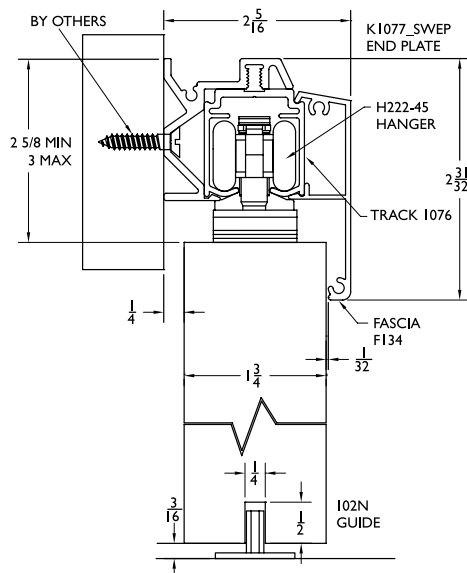
H180A Series

For Sliding Panels up to 180 lbs.

Overhead Mount



Side Wall Mount



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount

Features:

- Hanger body is made of nickel plated zinc alloy for durability and long life
- Zinc alloy ball bearing wheels coated in nylon for smooth operation
- 180 lb. panel capacity
- Optional side wall bracket reduces the amount of wall space needed to mount the track
- 5 year warranty

H180A Kits Include:

- 1 ea **1076C** Clear Anodized Aluminum Track
- 2 ea **H222-45 Hanger** - Nickel Plated Zinc Alloy Body
Zinc Alloy Wheels Coated in Nylon
- 2 ea **287HD** Rubber Bumper In-Track Stop
- 1 ea **102N** White Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H180A/6	Aluminum	72"	36"
H180A/8	Aluminum	96"	48"
H180A/10	Aluminum	120"	60"
H180A/12	Aluminum	144"	72"

Options: See page 265

Fascia

F134C clear anodized aluminum fascia

Side Wall Track Bracket

F134D dark bronze anodized fascia
1075C clear anodized aluminum bracket- order same length as track

Track

1076D dark bronze anodized track

End Plate Kit

K1077C-SWEP (use with F134C fascia and 1075C side wall bracket only)
K1077D-SWEP (use with F134D fascia and 1075D side wall bracket only)

Bottom Channel

94A

Roller Guide

106R/94

Threshold

971A

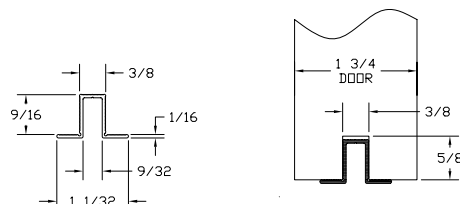
Side Wall Mount

102WN (nylon) and **102WA** (steel)

Mortise Guides

Polypropylene Guide Rail **EPD3BL** for use with 102N or 102WN

Alternate Route for EPD3BL



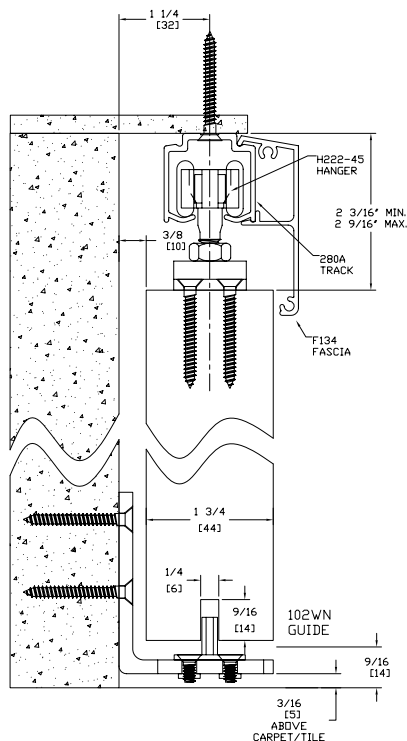
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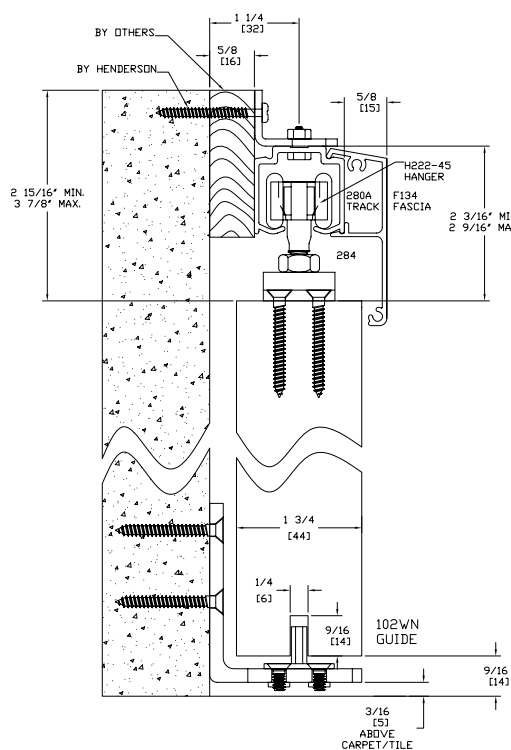
SHS80 Series

For Sliding Panels up to 180 lbs.

Overhead Mount



Side Wall Mount



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount

Features:

- Hanger body is made of nickel plated zinc alloy for durability and long life
- Zinc alloy ball bearing wheels coated in nylon for smooth operation
- 180 lb. panel capacity
- 5 year warranty

SHS80 Kits Include:

- 1 ea **280C** Clear Anodized Aluminum Track
- 2 ea **H222-45** Hanger - Nickel Plated Zinc Alloy Body
- 2 ea **601H** Nylon In-Track Clip Stop
- 1 ea **102WN** White Nylon Mortise Guide on Zinc Plated Steel "L" Metal

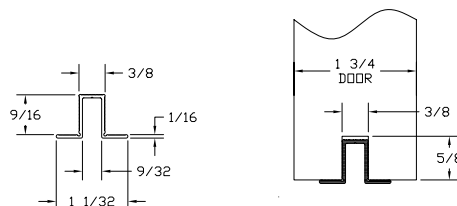
Standard Kit Sizes

Part Number	Material	Track Length	Door Width
SHS80/6	Aluminum	72"	36"
SHS80/8	Aluminum	96"	48"

Options: See page 265

- Fascia
 - F134C** clear anodized aluminum fascia
 - F134D** dark bronze anodized fascia
- Side Wall Track Brackets
 - 281** available as 5 pack only, 2815
- Track
 - 280D** dark bronze anodized track
- End Plate Kit
 - K134EP** (use with F134C and 280C only)
 - K134DEP** (use with F134D and 280D only)
- Bottom Channel
 - 94A**
- Roller Guide
 - 106R/94**
- Threshold
 - 971A**
- Side Wall Mount
 - 102WA**
- Mortise Guides
 - 102N**
- Mortise Floor Guide
 - 102N**
- Polypropylene Guide Rail
 - EPD3BL** for use with 102N or 102WN

Alternate Route for EPD3BL

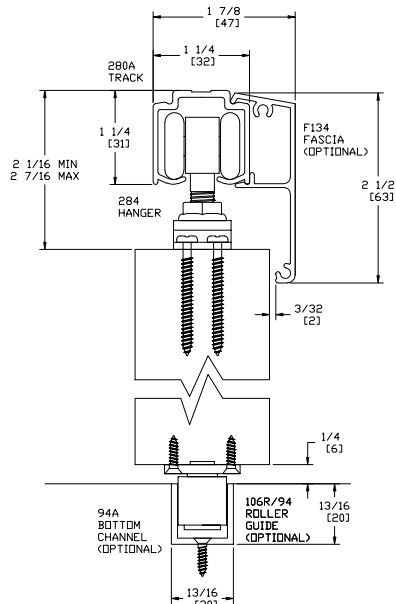

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Sliding 200 Series

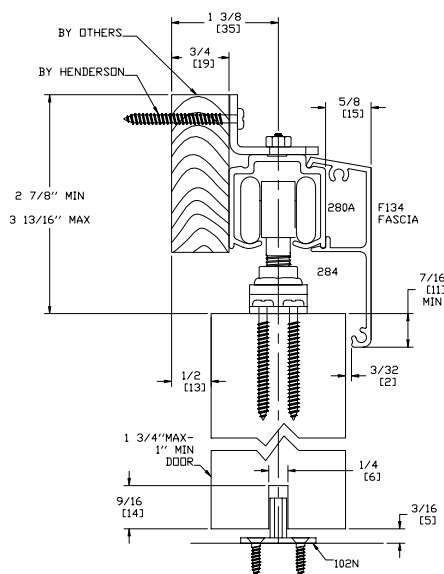
For Sliding Panels up to 200 lbs.
Manufactured by P.C. Henderson

280C Soffit Mounted with Fascia



280C Side Wall Mounted

3/4" shim by others



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door opening solutions

Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount
- Face/Face Fixed Mount with Fascia

Features:

- Needle bearing hangers for smooth operation
- 200 lb. panel capacity
- Galvanized steel track 280
- Clear anodized aluminum track 280C
- 2 year warranty

H200A Kits Include:

- 1 ea **280C** Clear Anodized Aluminum Track
- 2 ea **284** Hangers
- 1 ea **102N** Nylon Guide
- 2 ea **286** Stops
- 1 ea Adjusting Wrench and Mounting Hardware

H200 Kits Include:

- 1 ea **280** Steel Track
- 2 ea **284** Hangers
- 1 ea **102N** Nylon Guide
- 2 ea **286** Stops
- 1 ea Adjusting Wrench and Mounting Hardware

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H200A/4	Aluminum	48"	24"
H200A/5-4	Aluminum	64"	32"
H200A/6	Aluminum	72"	36"
H200A/7	Aluminum	84"	42"
H200A/8	Aluminum	96"	48"
H200A/10	Aluminum	120"	60"
H200A/12	Aluminum	144"	72"
H200/6	Steel	72"	36"
H200/8	Steel	96"	48"

Options: See page 265

Hardware Kit
Mounting Bracket

Track Stop (bumper)
Bottom Channel
Fascia, Snap-On

Track
Roller Guide
Side Wall Mortise Guide
Threshold
End Plate

Polypropylene Guide Rail

H100/200 PACK

281 available as 5 pack only, **2815**
NOTE: Need one at each end and no more than 3 feet in between.

Fasteners included

287HD

94A

F134C in clear anodized (**280C** only)
F134D dark bronze anodized fascia

280D dark bronze anodized
106R/94

102WA (steel) and **102WN** (nylon)
971A

K134EP (use with F134C and 280C only) **K134DEP** (use with F134D and 280D only)

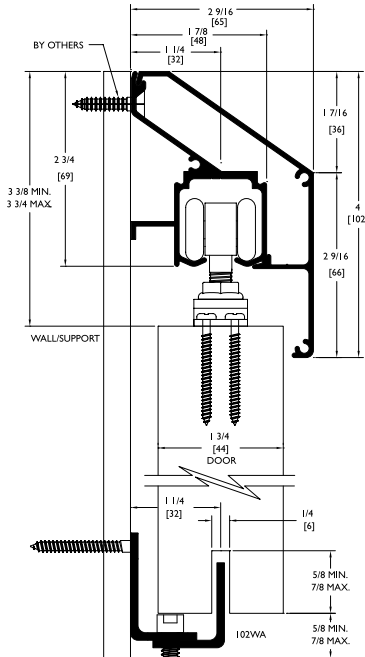
EPD3BL for use with 102N or 102WN

Side Wall Track (SWT) System

For Sliding Panels up to 200 lbs.

The PEMKO Side Wall Track System has a unique mounting bracket that is extruded with the track. An innovative wall mounted bottom guide assembly allows carpet to be replaced without removing the door.

SWT Kit Side Wall Mounted



Configurations:

- Single
- Bi-parting

Features:

- Unique mounting bracket extruded into track
- Supports up to 200 lbs. per door
- Quick, easy attachment
- No additional shims needed
- New construction or retrofit
- 5 year warranty

280SWT Kits Include:

- 1ea **280_SWT** Aluminum Track
- 1ea **280_SWF** Aluminum Fascia
- 1ea **K28_SWEP** Pair of End Plates
- 2ea **284** White Nylon Hangers
- 2ea **286** In Track Stops
- 1ea **102N** White Nylon Mortise Guide
- 1ea **102WA** Wall Mounted Mortise Guide
- 1ea Adjusting Wrench

Standard Kit Sizes

Part Number	Track Length	Door Width
(Mill Finished Track/Clear Anodized Fascia/End Plates)		
280C-SWTKIT/5	60"	30"
280C-SWTKIT/6	72"	36"
280C-SWTKIT/8	96"	48"
280C-SWTKIT/12*	144"	2 @ 36"
(Dark Bronze Anodized Track/Fascia/End Plates)		
280D-SWTKIT/5	60"	30"
280D-SWTKIT/6	72"	36"
280D-SWTKIT/8	96"	48"
280D-SWTKIT/12*	144"	2 @ 36"

*NOTE: 280_SWTKIT/12 comes with enough hardware for two doors.

Options: See page 265

- Hardware Kit (one door) **H100/200 pack**
- Roller Guide **106R/94**
- Bottom Channel **94A**
- Nylon Mortise Guide **102WN**

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) C (Anodized Aluminum) D (Dark Bronze Anodized)



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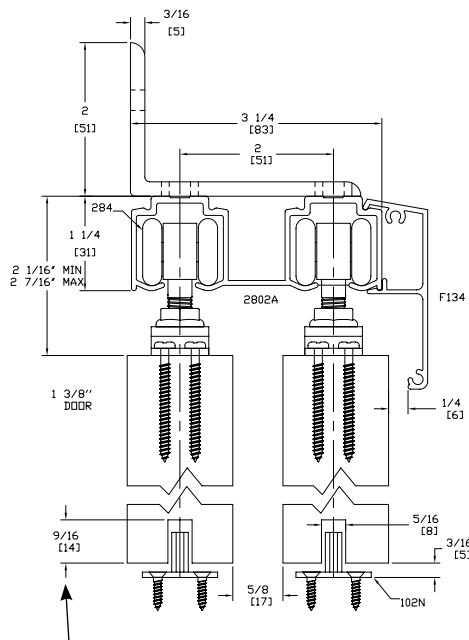
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Bypass Track Series

For Bypass Panels up to 200 lbs.

1 3/8" Thick Doors

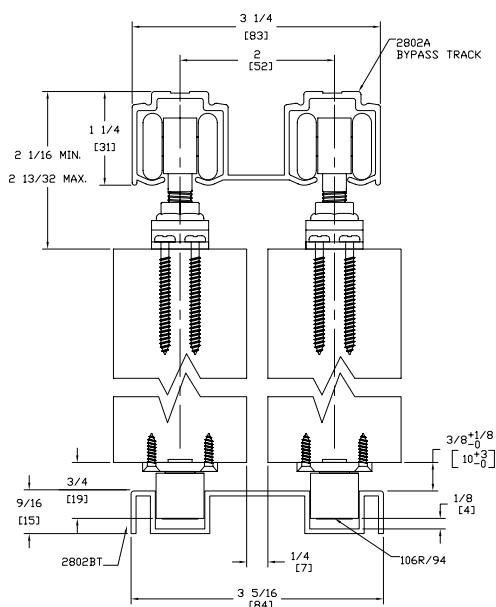
Doors Side Wall Mount



NOTE: Route door 9/16" deep by 1/4" wide to receive 102N Guide.

1 3/4" Thick Doors

Overhead Mount



* Side Wall mounting: use one (1) 2812 Kit per 3 ft. of track.

Configurations:

- For Bypass Doors

Features:

- Fits 1 3/8" and 1 3/4" doors
- Needle-bearing wheels for ultra smooth performance
- Load capacity 200 lbs. per door panel (2 hangers)
- Extruded aluminum track
- 5 year warranty

HBP200A Kits Include:

- 1 ea **2802C** Clear Anodized Aluminum Track
- 4 ea **284** White Nylon Hangers
- 2 ea **102N** White Nylon Mortise Guide
- 4 ea **286** Stops
- 1 ea Adjusting Wrench and Mounting Hardware

Standard Kit Sizes

Part Number	Track Length	Door Width
HBP200A/4	48"	2 @ 24"
HBP200A/ 5-4	64"	2 @ 32"
HBP200A/6	72"	2 @ 36"
HBP200A/7	84"	2 @ 42"
HBP200A/8	96"	2 @ 48"
HBP200A/10	120"	2 @ 60"
HBP200A/12	144"	2 @ 72"

Options: See page 265

Hardware Kit	H100/200 pack
Mounting Bracket	2812
Track	2802D dark bronze anodized track
Track Stop (bumper)	287HD
Bottom Channel	94A
Fascia, Snap-On	F134C clear anodized aluminum fascia, F134D dark bronze anodized aluminum fascia
Roller Guide	106R/94
Dual Guide Channel	2802BT
Polypropylene Guide Rail	EPD3BL for use with 102N

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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) C (Clear Anodized)

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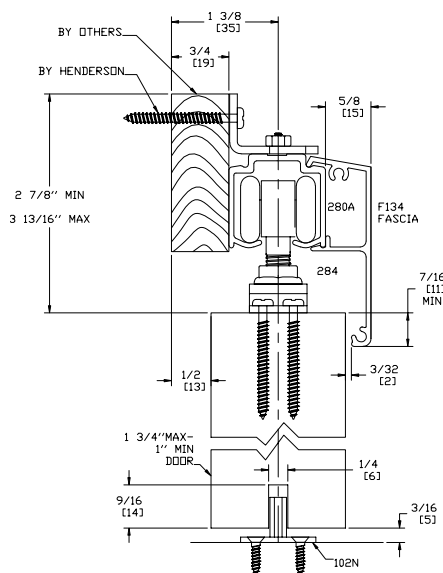
SIM200A Series

For Sliding Doors up to 48" wide and 200 lbs.

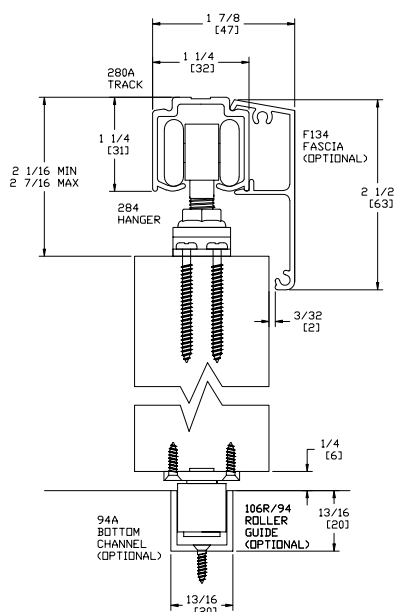
Manufactured by P.C. Henderson

HENDERSON

Side Wall Mount



Overhead Mount



Simultaneous Action Unit (SIM) allows the simultaneous operation of two doors.

Configurations:

- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount

Features:

- Allows individual bi-part doors to act as a single operating unit. When one door is opened or closed, the second door operates simultaneously
- 200 lb. panel capacity
- Needle bearing nylon wheels for smooth operation
- Clear anodized aluminum track 280C
- 2 year warranty

SIM200A Kits Include:

- 1 ea **280C** Clear Anodized Aluminum Track
- 4 ea **284** White Nylon Hangers
- 4 ea **601H** Nylon In-Track Clip Stop
- 2 ea **102N** White Nylon Mortise Guide
- 1 ea **SIM100** Cable and Pulley Kit

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
SIM200A/6	Aluminum	72"	2 @ 18"
SIM200A/8	Aluminum	96"	2 @ 24"
SIM200A/12	Aluminum	2 @ 72"	2 @ 36"
SIM200A/16	Aluminum	2 @ 96"	2 @ 48"

Options: See page 265

- Fascia
 - F134C** clear anodized aluminum fascia
 - F134D** dark bronze anodized fascia
 - 280D** dark bronze anodized
- Side Wall Track Brackets
 - 281** available as 5 pack only, **281S**
 - NOTE: Need one at each end and no more than 3 feet in between. Fasteners included.
- End Plates
 - K134EP** (use with F134C only)
 - K134DEP** (use with F134D only)
- Bottom Channel
 - 94A**
- Roller Guide
 - 106R/94**
- Threshold
 - 971A**
- Side Wall Mortise Guides
 - 102WN** (nylon) and **102WA** (steel)
- Polypropylene Guide Rail
 - EPD3BL** for use with 102N or 102WN

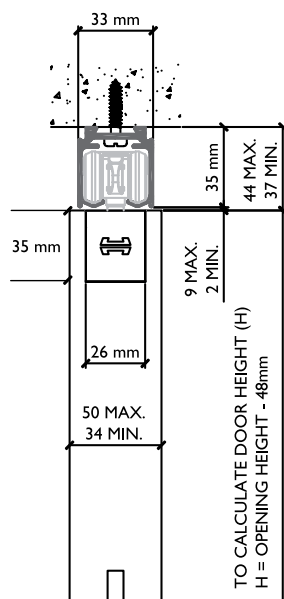


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LP200 Series

For Sliding Panels up to 200 lbs.
Manufactured by P.C. Henderson

HENDERSON



Low profile design for use where space is limited.

Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount
- Side Wall Mount

Features:

- Used to maximize door height
- Designed to give a modern clean finish with all parts concealed. Ideal for applications where minimal clearance between track and door is required
- Easy installation and adjustment
- 200 lb. panel capacity
- Needle bearing nylon wheels for smooth operation
- Clear anodized aluminum track 280C
- 2 year warranty

LP200A Kits Include:

- 1 ea **280C** Clear Anodized Aluminum Track
- 1 ea **LH100** Hardware Kit

LH100 Hardware Kits Include:

- 2 ea Low Head Room Units
- 2 ea End Caps
- 2 ea In-Track Clip Stops
- 1 ea Screw Pack
- 2 ea Low Head Room Hangers
- 1 ea **102N** White Nylon Mortise Guide
- 1 ea Small Spanner and 4mm Allen Key

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
LP200A/6	Aluminum	72"	36"
LP200A/8	Aluminum	96"	48"
LP200A/10	Aluminum	120"	60"

Options: See page 265

Side Wall Track Bracket

281 available as 5 pack only,
2815
Note: Need one at each end
and no more than 3 feet in
between. Fasteners included.

Bottom Channel

94A

Roller Guide

106R/94

Threshold

971A



ASSA ABLOY

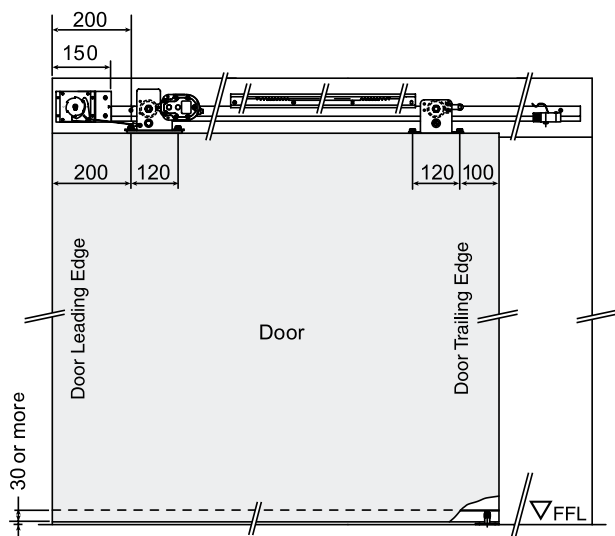
The global leader in
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Sirocco Series

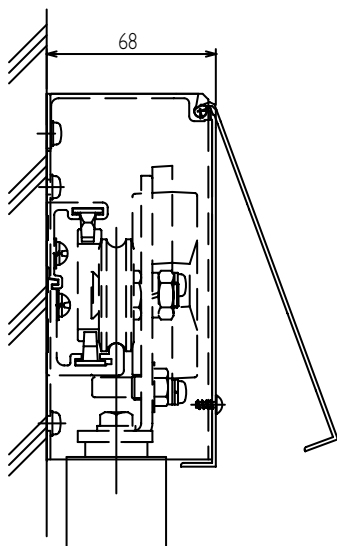
For Sliding Panels up to 200 lbs.

Manufactured by P.C. Henderson

HENDERSON



Right Hand SIRRH Shown Above and Below



The Sirocco system is a quiet, user friendly, self closing system which brings the door gently to a close.

The integrated hydraulic soft stop brings the door to a safe and cushioned close making it ideal for disabled access systems or public areas. The internal door brake can also be adjusted to allow the user to dictate the speed of opening preventing damage to the door and system.

Configurations:

- Single

Installations:

- Side Wall Mount

Features:

- Self closing system for a single door from 31 $\frac{1}{2}$ " to 47 $\frac{1}{4}$ " wide and up to 200 lbs.
- Interior applications only
- Comes complete with a hydraulically controlled soft close feature
- Adjustable closing speed
- Door brake to reduce opening speed to prevent damage to the door and system
- Optional hold open unit giving adjustable time delay before self closing
- Operational between temperature ranges of 50 to 104 degrees Fahrenheit
- 2 year warranty

Sirocco Series Kits Include:

- 1 ea Track 86.61" long
- 1 ea Leading hanger
- 1 ea Trailing hanger
- 1 ea Hydraulic Control Unit
- 1 ea Closing brake rack
- 1 ea Opening brake rack
- 1 ea Power spring mounting bracket
- 7 ea Height adjustment plates
- 1 ea Power spring unit
- 1 ea Guide roller
- 1 ea Opening door stop
- 1 ea Door stop roller
- 1 ea Closing door stop
- 2 ea Wooden door plate (and all required screws and bolts)

Standard Kits

Part Number	Description
SIRRH	Right Hand Opening Kit
SIRLH	Left Hand Opening Kit

Options:

SIRF/2500

98" Fascia

DELRH

Delayed Closing Timer Right Hand

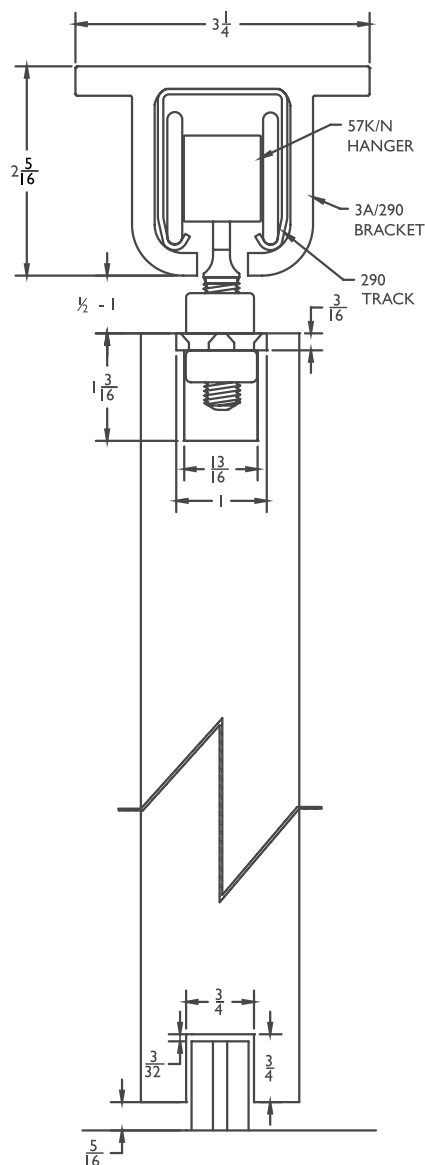
DELLH

Delayed Closing Timer Left Hand

H300S-OH Series

For Sliding Panels up to 300 lbs.
Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount

Features:

- Overhead mount system
- Nylon wheels for smooth operation
- 300 lb. panel capacity
- Galvanized steel track 290
- 2 year warranty

H300S-OH Kits Include:

- 1 ea **290** Galvanized Steel Track
- **3A/290** Aluminum Alloy Overhead Mount Track Brackets (One at each end and no more than 3 feet in between)
- 2 ea **1A/290/EC** Aluminum Alloy End Caps
- 2 ea **57K/N** White Nylon Body and Wheels, Zinc Coated Steel Pendant Bolt Hangers
- 2 ea **HH3/290** Galvanized Steel In-Track Stop
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H300S-OH/6	Steel	72"	36"
H300S-OH/8	Steel	96"	48"
H300S-OH/10	Steel	120"	60"
H300S-OH/12	Steel	144"	72"

Options: See page 265

Bottom Channel	94A
Roller Guide	106R/94
Threshold	971A
Joining Bracket	3AX/290
Mortise Guides	102N



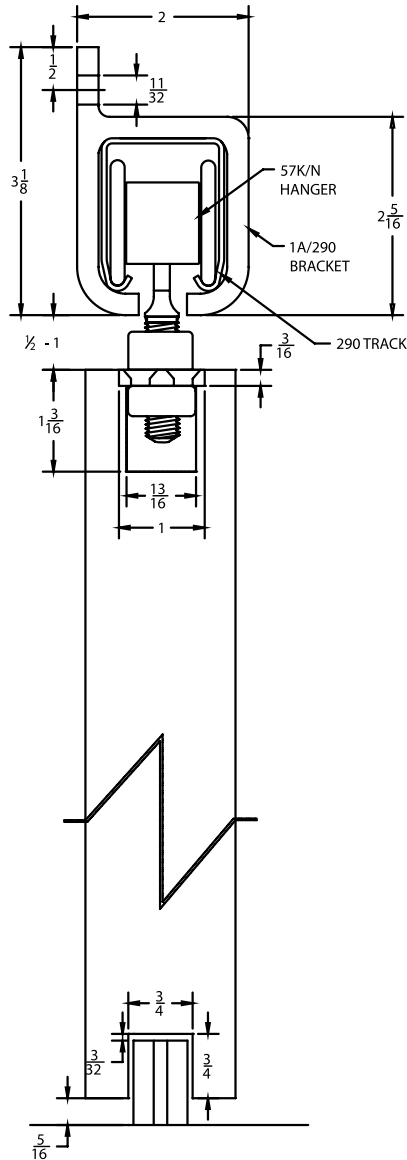
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The global leader in
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H300S-SW Series

For Sliding Panels up to 300 lbs.
Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount

Features:

- Side wall mount system
- Nylon wheels for smooth operation
- 300 lb. panel capacity
- Galvanized steel track 290
- 2 year warranty

H300S-SW Kits Include:

- 1 ea **290** Galvanized Steel Track
- **1A/290** Side Wall Mount Track Brackets
(One at each end and no more than three feet in between)
- 2 ea **1A/290/EC** Aluminum Alloy End Caps
- 2 ea **57K/N** White Nylon Body and Wheels, Zinc Coated Steel Pendant Bolt Hangers
- 2 ea **HH3/290** Galvanized Steel In-Track Stops
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H300S-SW/6	Steel	72"	36"
H300S-SW/8	Steel	96"	48"
H300S-SW/10	Steel	120"	60"
H300S-SW/12	Steel	144"	72"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Side Wall Mortise Guides **102WN** (nylon) and **102WA** (steel)
- Joining Bracket **1AX/290**



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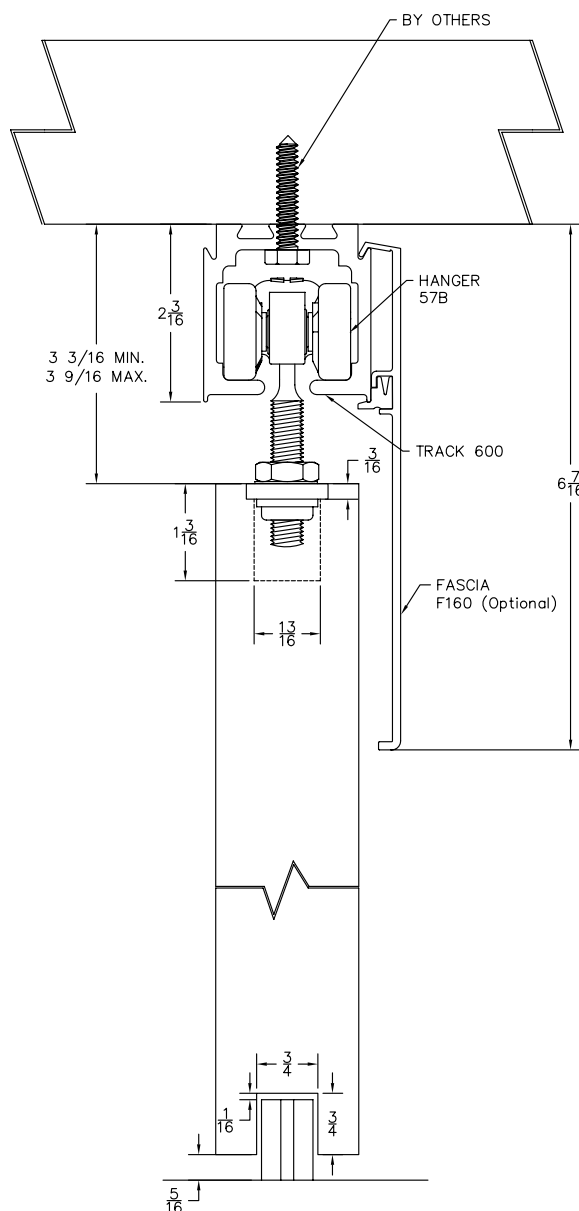
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H440A-OH Series

For Sliding Panels up to 440 lbs.

Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount

Features:

- Overhead mount system
- Nylon body and steel ball bearing nylon wheels for smooth operation
- 440 lb. panel capacity
- Mill finished aluminum track 600A
- 2 year warranty

H440A-OH Kits Include:

- 1 ea **600A** Mill Finished Aluminum Track
- 2 ea **57B** Hangers: Gray Nylon Body, Zinc Coated Steel Pendant Bolt, Steel Ball Bearing Nylon Wheels
- 2 ea **601P** Nylon In-Track Clip Stop
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H440A-OH/6	Aluminum	72"	36"
H440A-OH/8	Aluminum	96"	48"
H440A-OH/10	Aluminum	120"	60"
H440A-OH/12	Aluminum	144"	72"

Options: See page 265

Fascia	F160C
Bottom Channel	94A
Roller Guide	106R/94
Threshold	971A
Mortise Guides	102N
End Plate Kit	F160ECP (used with F160C fascia and 600A track only)



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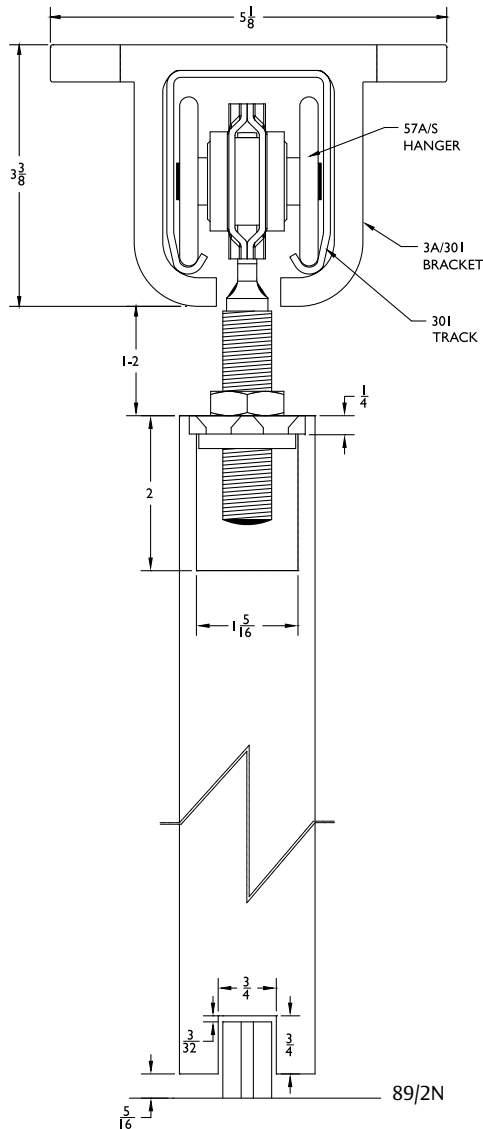


H600S-OH Series

For Sliding Panels up to 600 lbs.

Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount

Features:

- Overhead mount system
- Heavy duty zinc coated steel
- Ball bearing wheels
- 600 lb. panel capacity
- Galvanized steel track 301
- 2 year warranty

H600S-OH Kits Include:

- 1 ea **301** Galvanized Steel Track
- **3A/301** Aluminum Alloy Overhead Mount Track Brackets
(One at each end and no more than three feet in between)
- 2 ea **1A/301/EC** Aluminum Alloy End Caps
- 2 ea **57A/S** Zinc Coated Steel Body, Wheels, and Pendant Bolt Hangers
- 2 ea **HH3/301** Galvanized Steel In-Track Stops
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H600S-OH/6	Steel	72"	36"
H600S-OH/8	Steel	96"	48"
H600S-OH/10	Steel	120"	60"
H600S-OH/12	Steel	144"	72"

Options: See page 265

Bottom Channel	94A
Roller Guide	106R/94
Mortise Guides	102N
Threshold	971A
Joining Bracket	3AX/301



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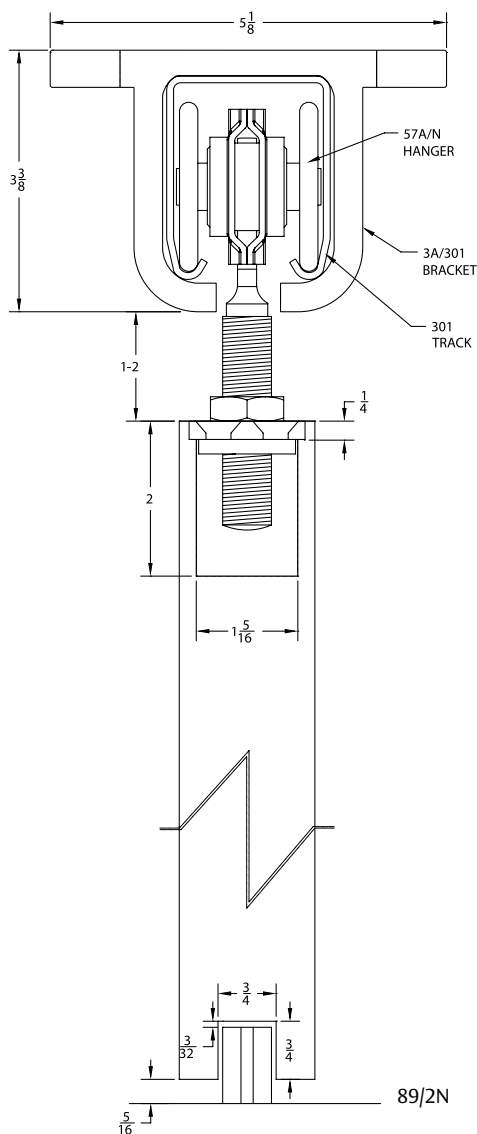
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H800S-OH Series

For Sliding Panels up to 800 lbs.

Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount

Features:

- Overhead mount system
- Heavy duty zinc coated steel body
- Ball bearing nylon wheels for smooth operation
- 800 lb. panel capacity
- Galvanized steel track 301
- 2 year warranty

H800S-OH Kits Include:

- 1 ea **301** Galvanized Steel Track
- **3A/301** Overhead Mount Track Brackets
(One at each end and no more than three feet in between)
- 2 ea **1A/301/EC** Aluminum Alloy End Caps
- 2 ea **57A/N** Zinc Coated Steel Body, Nylon Wheels, and Pendant Bolt Hangers
- 2 ea **HH3/301** Galvanized Steel In-Track Stop
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H800S-OH/6	Steel	72"	36"
H800S-OH/8	Steel	96"	48"
H800S-OH/10	Steel	120"	60"
H800S-OH/12	Steel	144"	72"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Threshold **971A**
- Joining Bracket **3AX/301**



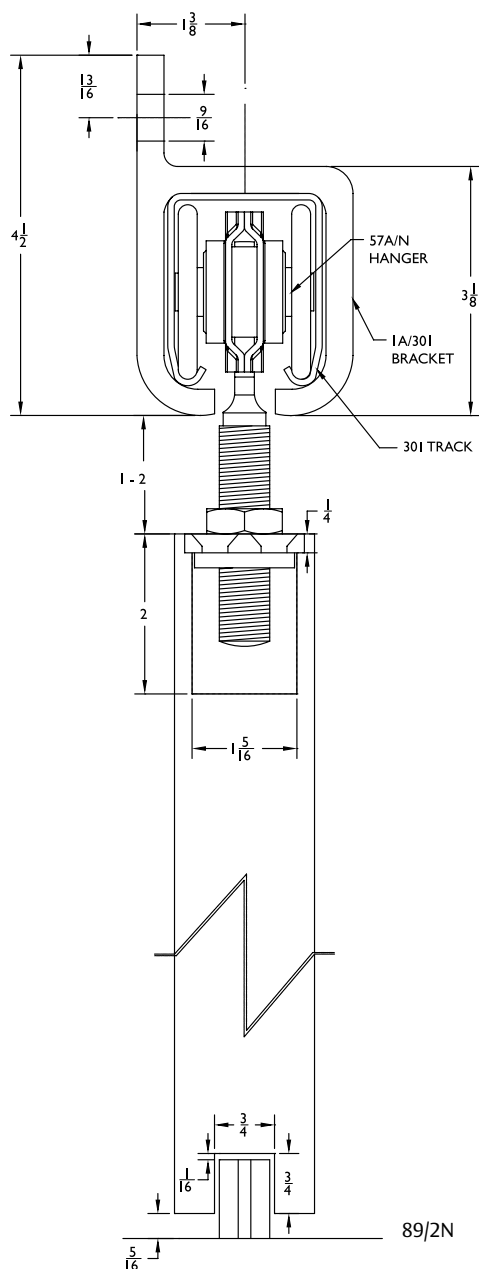
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H800S-SW Series

For Sliding Panels up to 800 lbs.
Manufactured by P.C. Henderson

HENDERSON



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount

Features:

- Side wall mount system
- Heavy duty zinc coated steel body
- Heavy ball bearing nylon wheels for smooth operation
- 800 lb. panel capacity
- Galvanized steel track 301
- 2 year warranty

H800S-SW Kits Include:

- 1 ea **301** Galvanized Steel Track
- **1A/301** Aluminum Alloy Side Wall Mount Track Brackets (One at each end and no more than three feet in between)
- 2 ea **1A/301/EC** Aluminum Alloy End Caps
- 2 ea **57A/N** Zinc Coated Steel Body, Nylon Wheels, and Pendant Bolt Hangers
- 2 ea **HH3/301** Galvanized Steel In-Track Stops
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H800S-SW/6	Steel	72"	36"
H800S-SW/8	Steel	96"	48"
H800S-SW/10	Steel	120"	60"
H800S-SW/12	Steel	144"	72"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Side Wall Mortise Guides **102WN** (nylon) and **102WA** (steel)
- Joining Bracket **1AX/301**



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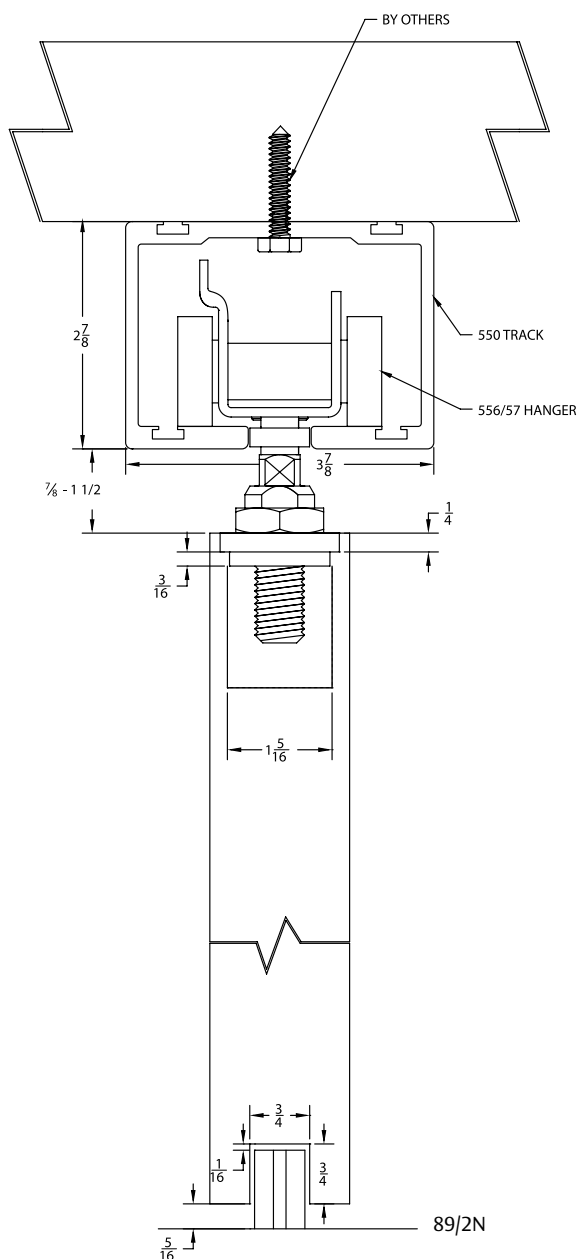
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H1100A-OH Series

For Sliding Panels up to 1100 lbs.

Manufactured by P.C. Henderson

HENDERSON



Ideally suited for large doors that require high performance and an attractive finish.

Typical applications are hotels, conference centers, shop-fronts and showrooms.

Configurations:

- Single
- Bi-parting

Installations:

- Overhead Mount

Features:

- For top hung wood and metal doors
- Heavy duty black painted steel body
- Ball bearing steel wheels
- 1100 lb. panel capacity
- Mill finished aluminum track 550A
- 2 year warranty

H1100A-OH Kits Include:

- 1 ea **550A** Mill Finished Aluminum Track
- 2 ea **556/57** Painted Black Steel Body - Zinc Coated Steel Wheels and Pendant Bolt Hangers
- 2 ea **HH3/301** Galvanized Steel In-Track Stops
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H1100A-OH/6	Aluminum	72"	36"
H1100A-OH/8	Aluminum	96"	48"
H1100A-OH/10	Aluminum	120"	60"
H1100A-OH/12	Aluminum	144"	72"
H1100A-OH/16	Aluminum	197"	98"

Options: See page 265

Bottom Channel	94A
Roller Guide	106R/94
Threshold	971A



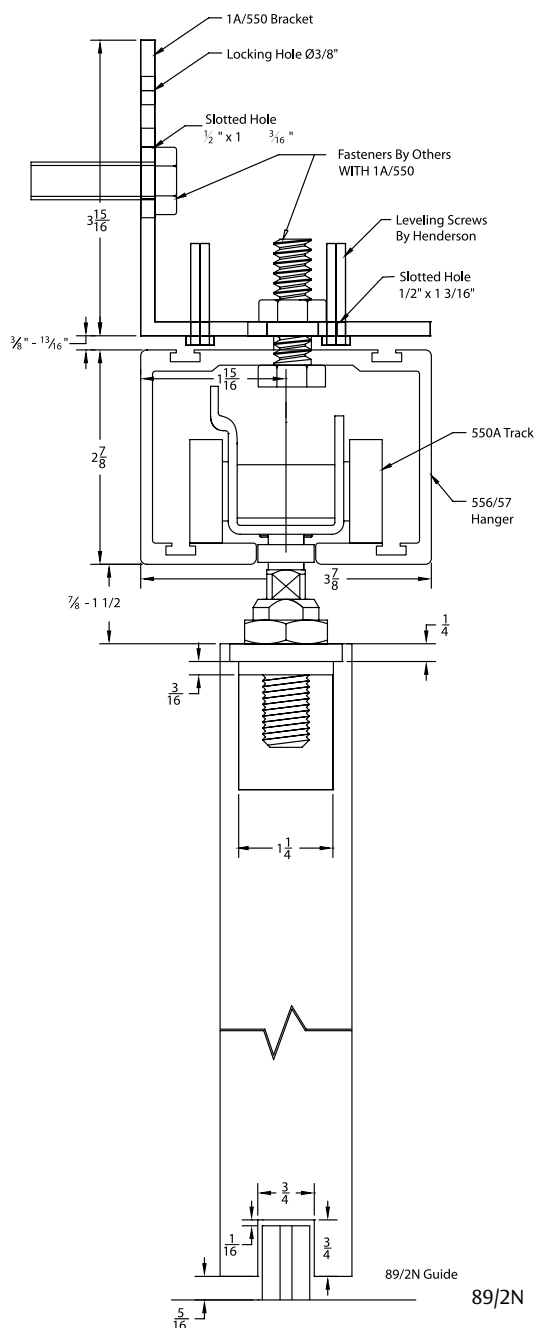
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H1100A-SW Series

For Sliding Panels up to 1100 lbs.
Manufactured by P.C. Henderson

HENDERSON



Ideally suited for large doors that require high performance and an attractive finish.

Typical applications are hotels, conference centers, shop-fronts and showrooms.

Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount

Features:

- Heavy duty black painted steel body ball bearing wheels
- 1100 lb. panel capacity
- Mill finished aluminum track 550A
- 2 year warranty

H1100A-SW Kits Include:

- 1 ea **550A** Mill Finished Aluminum Track
- **1A/550** Aluminum Alloy Side Wall Track Bracket
Fastners not included with 1A/550. (One at each end and no more than three feet in between)
- 2 ea **556/57** Painted Black Steel Body - Zinc Coated Steel Wheels and Pendant Bolt Hangers
- 2 ea **HH3/301** Galvanized Steel In-Track Stops
- 1 ea **89/2N** Gray Nylon Mortise Guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
H1100A-SW/6	Aluminum	72"	36"
H1100A-SW/8	Aluminum	96"	48"
H1100A-SW/10	Aluminum	120"	60"
H1100A-SW/12	Aluminum	144"	72"
H1100A-SW/16	Aluminum	197"	98"

Options: See page 265

Bottom Channel

94A

Roller Guide

106R/94



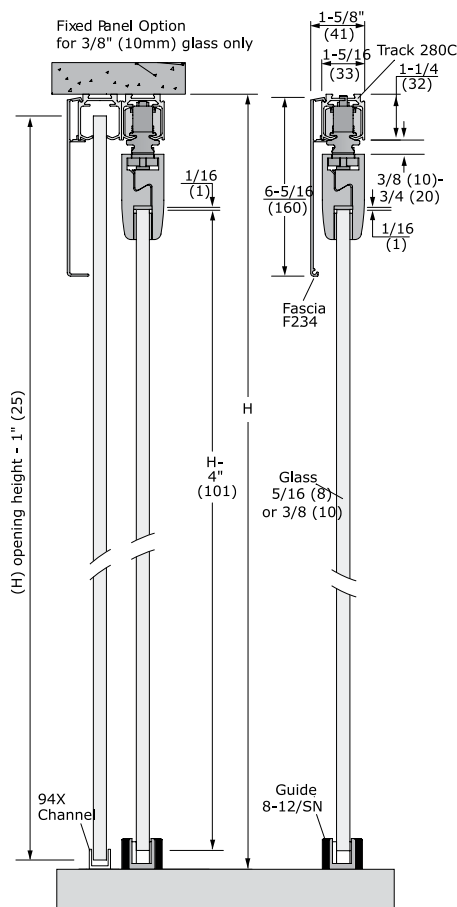
**TRADEMARK
HARDWARE**
WWW.TMHARDWARE.COM

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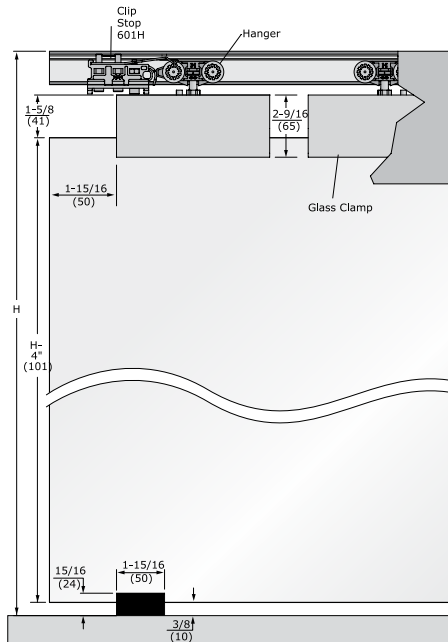
Husky Sliding Glass Series

Manufactured by P.C. Henderson **HENDERSON**



For lightweight glass applications such as office doors and small glass partitions.

- 2 year warranty



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The global leader in
door opening solutions

Capacity:

Max. door weight 165 lbs. (75kg)
Max. door height 7' 10" (2400mm)
Max. door width 4' 1" (1250mm)
Glass thickness $\frac{5}{16}$ " (8mm) & $\frac{3}{8}$ " (10mm)

Door Types:

Glass panels of $\frac{5}{16}$ " (8mm) or $\frac{3}{8}$ " (10mm) thickness in tempered or laminated glass.

8/HY/75 and 10/HY/75 HUSKY Glass Clamp Kit:

8/HY/75 is for 8mm or $\frac{5}{16}$ " thick glass

10/HY/75 kit is for 10mm or $\frac{3}{8}$ " thick glass

- 2 ea **284D** Hangers
- 2 ea **GLASS** Clamps
- 2 ea **601H** End stops
- 1 ea **8-12/SN** adjustable guide for $\frac{5}{16}$ " or $\frac{3}{8}$ " glass guide

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
280C72	Aluminum	72"	36"
280C96	Aluminum	96"	48"
280C120	Aluminum	120"	60"
280C144	Aluminum	144"	72"

Options: See page 265

Face mount bracket:

281 available as 5 pack only, **2815**
NOTE: Need one on each end, with
no more than 3 feet in between
each bracket. Fasteners included.

Fascias:

F234C clear anodized aluminum
fascia

Guides:

8-12/SN adjustable guide for $\frac{5}{16}$ " or
 $\frac{3}{8}$ " glass guide

Accessories:

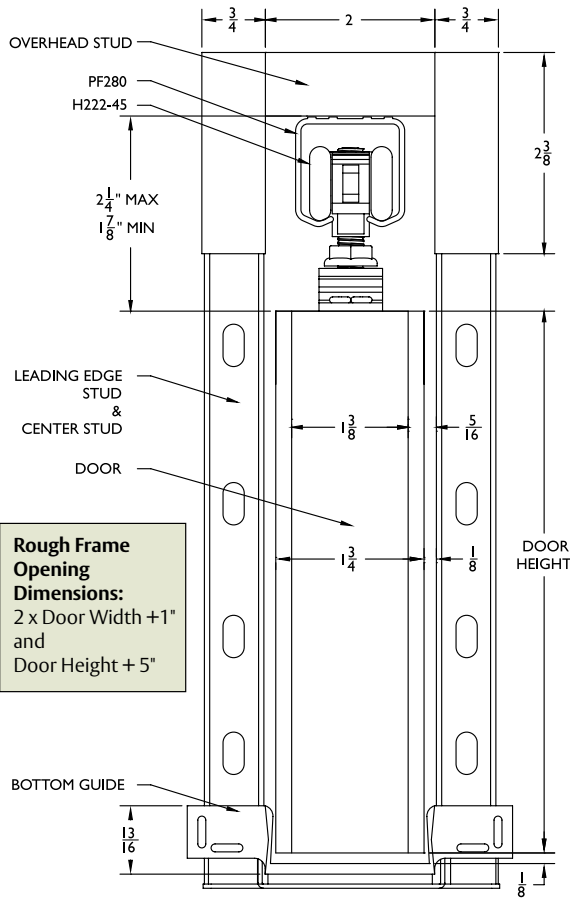
601H retaining stop mounted
within the track



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Pocket Frame Kit

Manufactured by PEMKO



Features:

- Heavy duty hardware supports doors up to 175 lbs. each
- Standard kit is for 1³/₈" door. For 1³/₄" door, MUST use PF134KIT (see Options below)
- Chrome plated steel hangers are corrosion resistant and no maintenance is required
- 5 year warranty

Pocket Frame Kit Includes:

- 1 ea Header Track Assembly
 - 4 ea **PFAS**_ Aluminum Cased Wood Studs
 - 2 ea **PFHB-1** and **PFHB-2** Pre-Mounted Header Brackets
 - 2 ea **H222-45** Hangers
 - 2 ea **PFFC-8** Floor Cleats
 - 1 ea **PFBS** Pocket Frame Bumper Stop
 - 1 ea **PFBG-8** Pocket Frame Bottom Guide for 1³/₈" Thick Doors
- Mounting Hardware

Standard Kit Sizes

2 x 4 (3 ¹ / ₂ " Stud)	2 x 6 (5 ¹ / ₂ " Stud)	2 x 6 (6" Stud)	Net Door Size (The Kits can be trimmed in field)
PF28200A6080	PF28200A6080-2x6	PF28200A6080-SP6	2'6" x 6'8"
PF28200A7280	PF28200A7280-2x6	PF28200A7280-SP6	3'0" x 6'8"
PF28200A9680	PF28200A9680-2x6	PF28200A9680-SP6	4'0" x 6'8"
PF28200A6084	PF28200A6084-2x6	PF28200A6084-SP6	2'6" x 7'0"
PF28200A7284	PF28200A7284-2x6	PF28200A7284-SP6	3'0" x 7'0"
PF28200A9684	PF28200A9684-2x6	PF28200A9684-SP6	4'0" x 7'0"
PF28200A6096	PF28200A6096-2x6	PF28200A6096-SP6	2'6" x 8'0"
PF28200A7296	PF28200A7296-2x6	PF28200A7296-SP6	3'0" x 8'0"
PF28200A9696	PF28200A9696-2x6	PF28200A9696-SP6	4'0" x 8'0"

Options:

- PF134 KIT** - Must be ordered for 1³/₄" doors
- PFAS88** - An extra pair of 88" center studs with floor cleat for 84" tall doors, for doors over 3' wide
- PFAS100** - An extra pair of 100" center studs with floor cleat for 96" tall doors, for doors over 3' wide
- PFCDKIT** - Conversion Kit to achieve a bipart double door frame
- PFKIT-4** - Hardware Kit for PEMKO Pocket Frame Kit for 1³/₄" thick doors (Each contains 2-H222-45 Hangers, 1-PFBS Bumper Stop, 1- PFBG-4 Guide, 2 PFHS Header Shims, 2-PFFC-4 Floor Cleats)
- PFKIT-8** - Hardware Kit for PEMKO Pocket Frame Kit for 1³/₈" thick doors (Each contains 2-H222-45 Hangers, 1-PFBS Bumper Stop, 1- PFBG-8 Guide, 2-PFFC-8 Floor Cleats)

Custom sizes available call for information



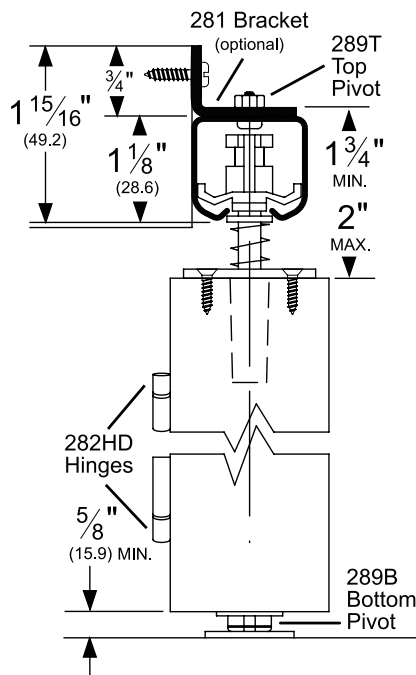
Folding 100 Series

**For Folding Doors and Room Dividers up to 100 lbs.
For Doors up to 24" Wide x 96" Tall**

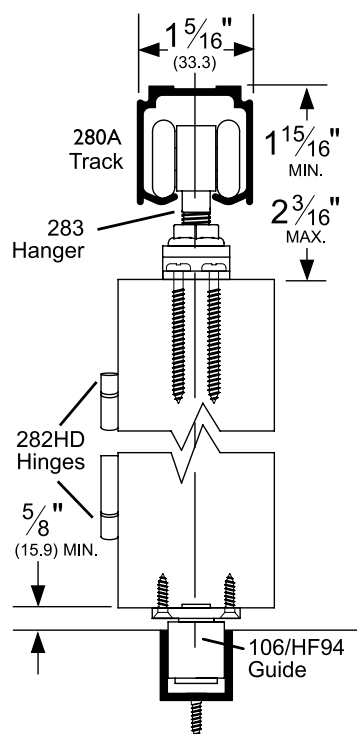
Manufactured by P.C. Henderson

HENDERSON

280 Side Wall Mounted



280C Overhead Mounted



ASSA ABLOY

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door opening solutions

Features:

- For medium weight folding doors
- Two and four leaf kits are available
- 2 year warranty

Two Panel:

HF2/100A Kits Include:

- 1 ea **280C** Clear Anodized Track
- 1 ea **283** Hanger
- 1 ea **289T** Top Pivot
- 1 ea **289B** Bottom Pivot
- 3 ea **282HD** Hinges
- 1 ea **106HF/94** Roller Guide
- 1 ea **94A** Aluminum Guide Channel
- 1 ea Adjusting Wrench and Mounting Hardware

Four Panel:

HF4/100A Kits Include:

- 1 ea **280C** Clear Anodized Track
- 2 ea **283** Hangers
- 2 ea **289T** Top Pivots
- 2 ea **289B** Bottom Pivots
- 6 ea **282HD** Hinges
- 2 ea **106HF/94** Roller Guide
- 1 ea **94A** Aluminum Guide Channel
- 1 ea Adjusting Wrench and Mounting Hardware

Standard Kit Sizes

Part Number	Material	# of Panels	Track Length
HF2/100A/2	Aluminum	2	24"
HF2/100A/2'6	Aluminum	2	30"
HF2/100A/3	Aluminum	2	36"
HF2/100A/4	Aluminum	2	48"
HF4/100A/4	Aluminum	4	48"
HF4/100A/5	Aluminum	4	60"
HF4/100A/6	Aluminum	4	72"
HF4/100A/8	Aluminum	4	96"
HF2/100/4*	Steel	2	48"
HF4/100/8*	Steel	4	96"

*Steel kits include the same components as above, except track is 1 ea 280 galvanized steel.

Options: See page 265

- Mounting Bracket **281** available as 5 pack only, **2815**
- Threshold **971A**
- Track **280D** dark bronze anodized aluminum

NOTE: Allow 1/4" clearance at pivot jambs and 1/8" in between hinged doors if hinges are semi mortised. Allow 3/16" between hinged doors if hinges are surface mounted. Allow 1/8" between doors meeting in the center of the opening on HF4 kits and allow 1/8" between wall and end panel on HF2 kits.

Manufactured by P.C. Henderson

251

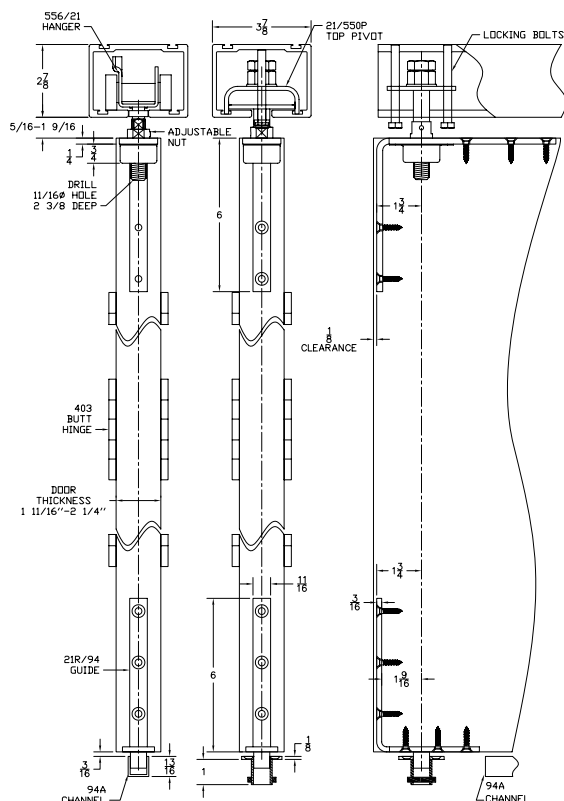
Flexirol Interior End Fold Series

For Folding Doors and Room Dividers up to 275 lbs.

For Doors up to 48" Wide x 177" Tall

Manufactured by P.C. Henderson

HENDERSON



Features:

- For top-hung, heavy weight, interior, partition doors.
- Specifically designed for commercial applications requiring end folding doors
- 2 year warranty.

Two Panel: plan 1

FIF2/275A Kits Include:

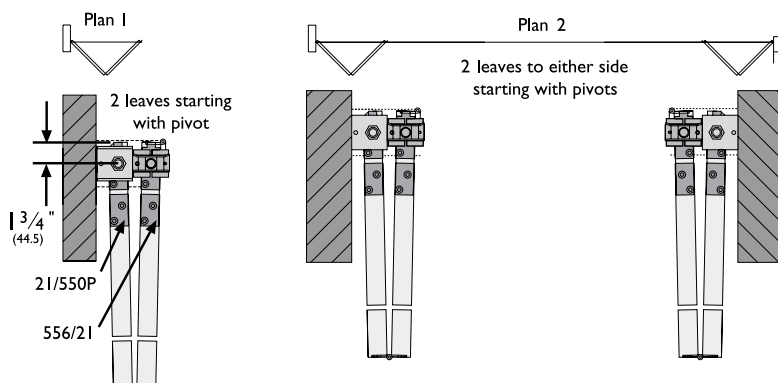
- 1 ea **550A** Mill Finished Aluminum Track
- 1 ea **21/550/P** Top and Bottom Pivot Assembly
- 1 ea **556/21** Zinc Coated Steel Wheels, Pendant Bolt, Body,
and Door Bracket
- 1 ea **21R/94** Bottom Guide
- 4 ea **403/2** Aluminum Alloy Butt Hinges
- 1 ea **94A** Aluminum Guide Channel

Four Panel: plan 2

FIF4/275A Kits Include:

- 1 ea **550A** Mill Finished Aluminum Track
- 2 ea **21/550/P** Top and Bottom Pivot Assembly
- 2 ea **556/21** Zinc Coated Steel Wheels, Pendant Bolt, Body,
and Door Bracket
- 2 ea **21R/94** Bottom Guide
- 8 ea **403/2** Aluminum Alloy Butt Hinges
- 1 ea **94A** Aluminum Guide Channel

Standard Kit Sizes			
Part Number	Material	# of Panels	Track Length
FIF2/275A/6	Aluminum	2	72"
FIF2/275A/8	Aluminum	2	96"
FIF4/275A/6	Aluminum	4	72"
FIF4/275A/8	Aluminum	4	96"
FIF4/275A/12	Aluminum	4	2 @ 72"
FIF4/275A/16	Aluminum	4	2 @ 96"



Options: See page 265

Threshold

971A

NOTE: Allow $\frac{3}{8}$ " clearance at pivot jamba and $\frac{1}{8}$ " in between hinged doors if hinges are semi mortised. Allow $\frac{7}{16}$ " between hinged doors if hinges are surface mounted. Allow $\frac{1}{8}$ " between doors meeting in the center of the opening on FIF4 kits and allow $\frac{1}{8}$ " between wall and end panel on FIF2 kits.



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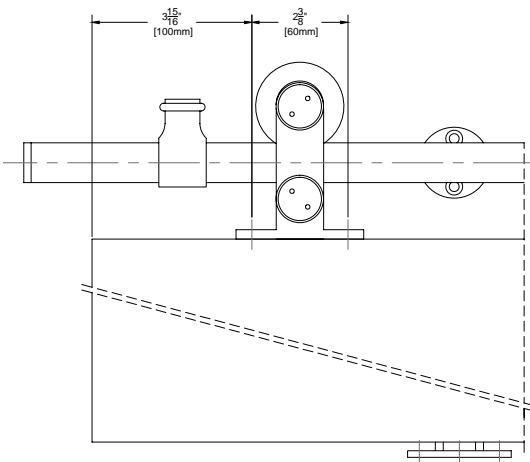
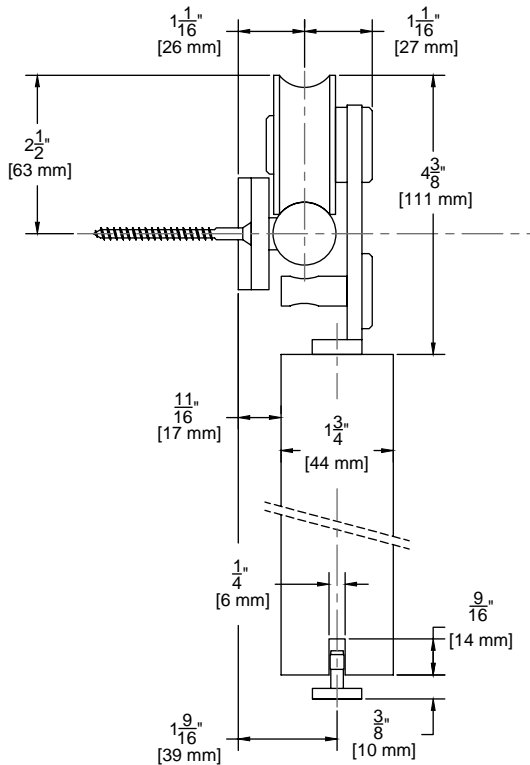
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Stainless Steel Sliding Track Hardware System

W60 Series for Wood Doors

For Sliding Panels up to 176 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 176 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W60)
- Dark Bronze Stainless Steel (W60D)
- Polished Stainless Steel (W60P)

W60 Kits Include:

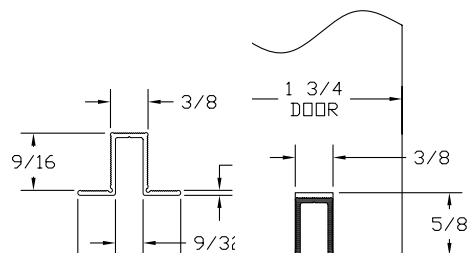
- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **62** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
W60/6	304 Stainless Steel	78 $\frac{3}{4}"$	36"
W60/8	304 Stainless Steel	98 $\frac{7}{16}"$	48"
W60D/6	304 Dark Bronze Stainless Steel	78 $\frac{3}{4}"$	36"
W60D/8	304 Dark Bronze Stainless Steel	98 $\frac{7}{16}"$	48"
W60P/6	304 Polished Stainless Steel	78 $\frac{3}{4}"$	36"
W60P/8	304 Polished Stainless Steel	98 $\frac{7}{16}"$	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**



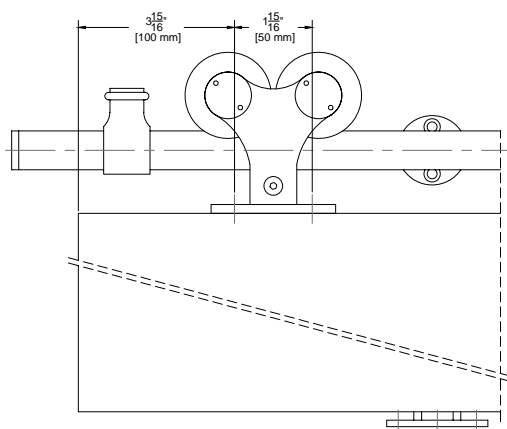
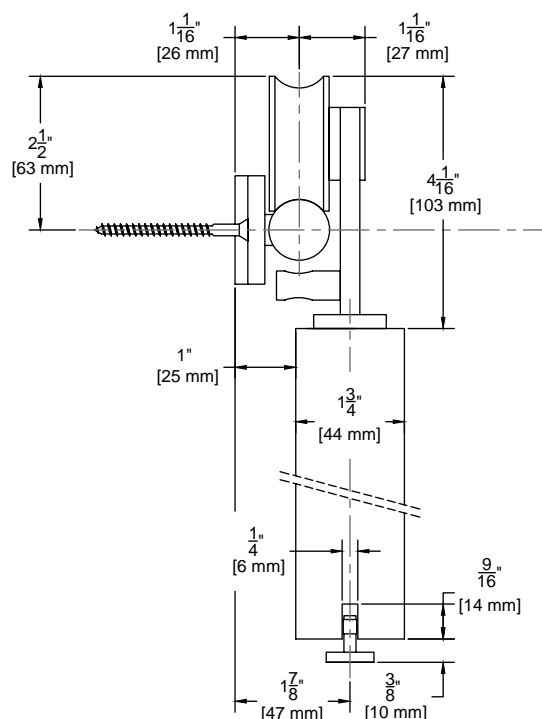
NOTE: Alternate route dimension when using optional EPD3BL



Stainless Steel Sliding Track Hardware System

W70 Series for Wood Doors

For Sliding Panels up to 240 lbs.



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door opening solutions

Configurations:

- Single
- Bi-parting

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 240 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W70)
- Dark Bronze Stainless Steel (W70D)
- Polished Stainless Steel (W70P)

Installations:

- Side Wall Mount (only)

W70 Kits Include:

- 1 ea **BAR** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **72** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

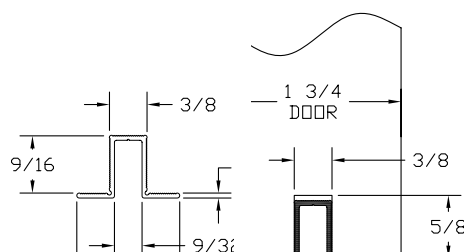
NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
W70/6	304 Stainless Steel	78 3/4"	36"
W70/8	304 Stainless Steel	98 7/16"	48"
W70D/6	304 Dark Bronze Stainless Steel	78 3/4"	36"
W70D/8	304 Dark Bronze Stainless Steel	98 7/16"	48"
W70P/6	304 Polished Stainless Steel	78 3/4"	36"
W70P/8	304 Polished Stainless Steel	98 7/16"	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**

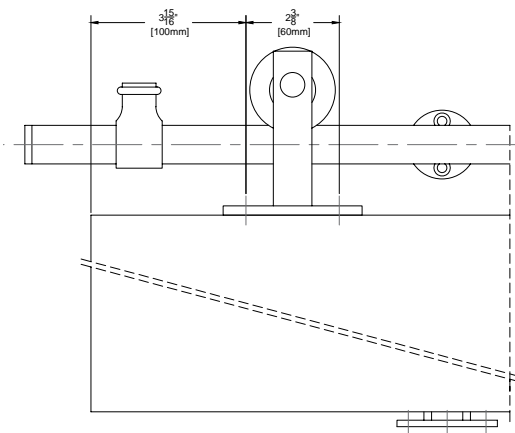
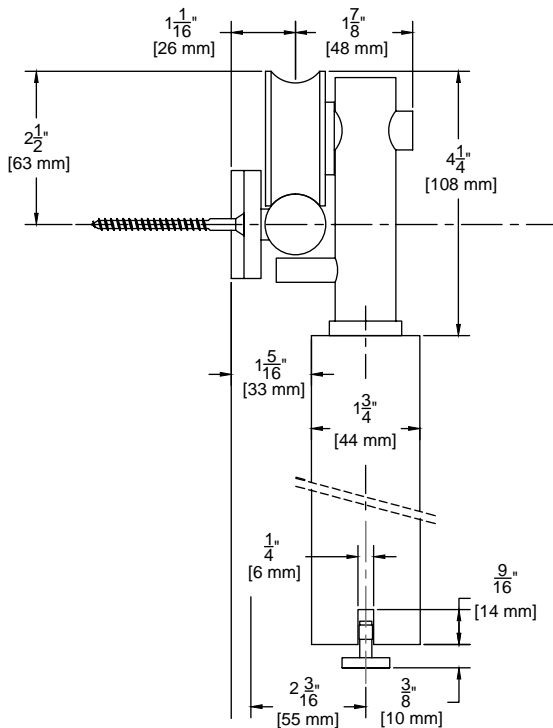


NOTE: Alternate route dimension when using optional EPD3BL

Stainless Steel Sliding Track Hardware System

W80 Series for Wood Doors

For Sliding Panels up to 176 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 176 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W80)
- Dark Bronze Stainless Steel (W80D)
- Polished Stainless Steel (W80P)

W80 Kits Include:

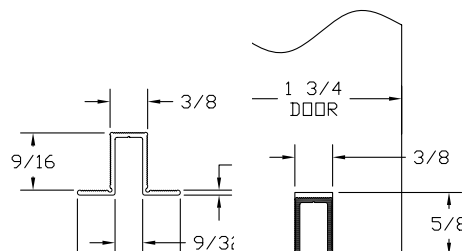
- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **82** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
W80/6	304 Stainless Steel	78 3/4"	36"
W80/8	304 Stainless Steel	98 7/16"	48"
W80D/6	304 Dark Bronze Stainless Steel	78 3/4"	36"
W80D/8	304 Dark Bronze Stainless Steel	98 7/16"	48"
W80P/6	304 Polished Stainless Steel	78 3/4"	36"
W80P/8	304 Polished Stainless Steel	98 7/16"	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**



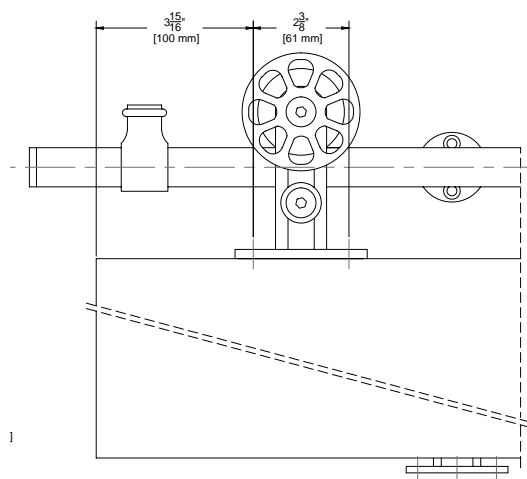
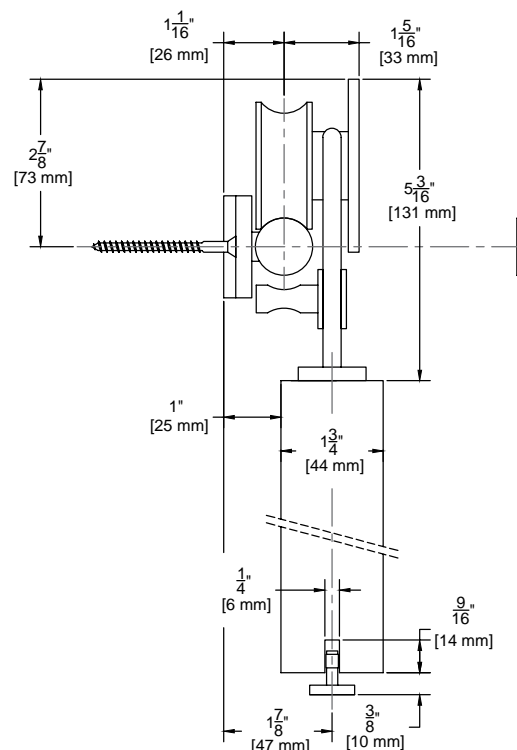
NOTE: Alternate route dimension when using optional EPD3BL



Stainless Steel Sliding Track Hardware System

W90 Series for Wood Doors

For Sliding Panels up to 176 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 176 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W90)
- Dark Bronze Stainless Steel (W90D)
- Polished Stainless Steel (W90P)

W90 Kits Include:

- 1 ea **BAR** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **92** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

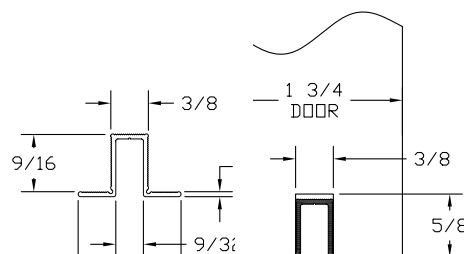
NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
W90/6	304 Stainless Steel	78 3/4"	36"
W90/8	304 Stainless Steel	98 7/16"	48"
W90D/6	304 Dark Bronze Stainless Steel	78 3/4"	36"
W90D/8	304 Dark Bronze Stainless Steel	98 7/16"	48"
W90P/6	304 Polished Stainless Steel	78 3/4"	36"
W90P/8	304 Polished Stainless Steel	98 7/16"	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**



NOTE: Alternate route dimension when using optional EPD3BL

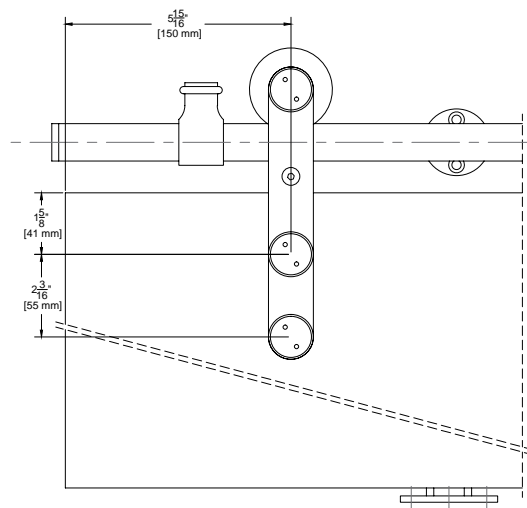
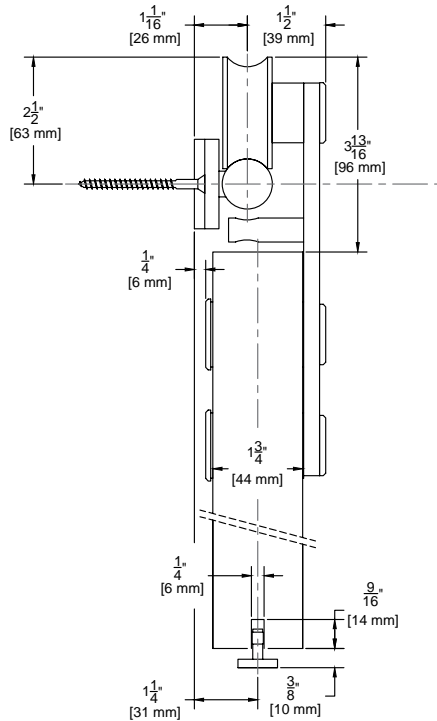
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Stainless Steel Sliding Track Hardware System

W100 Series for Wood Doors

For Sliding Panels up to 198 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (W100)
- Dark Bronze Stainless Steel (W100D)
- Polished Stainless Steel (W100P)

W100 Kits Include:

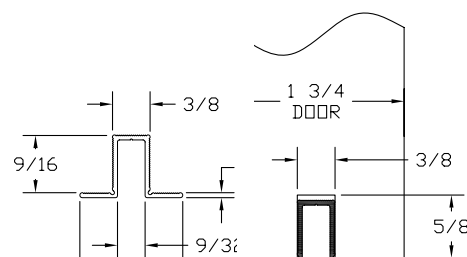
- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **111** Stainless Steel Hangers
- 1 ea **WOODGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
W100/6	304 Stainless Steel	78 3/4"	36"
W100/8	304 Stainless Steel	98 7/16"	48"
W100D/6	304 Dark Bronze Stainless Steel	78 3/4"	36"
W100D/8	304 Dark Bronze Stainless Steel	98 7/16"	48"
W100P/6	304 Polished Stainless Steel	78 3/4"	36"
W100P/8	304 Polished Stainless Steel	98 7/16"	48"

Options: See page 265

- Bottom Channel **94A**
- Roller Guide **106R/94**
- Mortise Guides **102N**
- Polypropylene Guide Rail **EPD3BL For Use With WOODGUIDE**



NOTE: Alternate route dimension when using optional EPD3BL



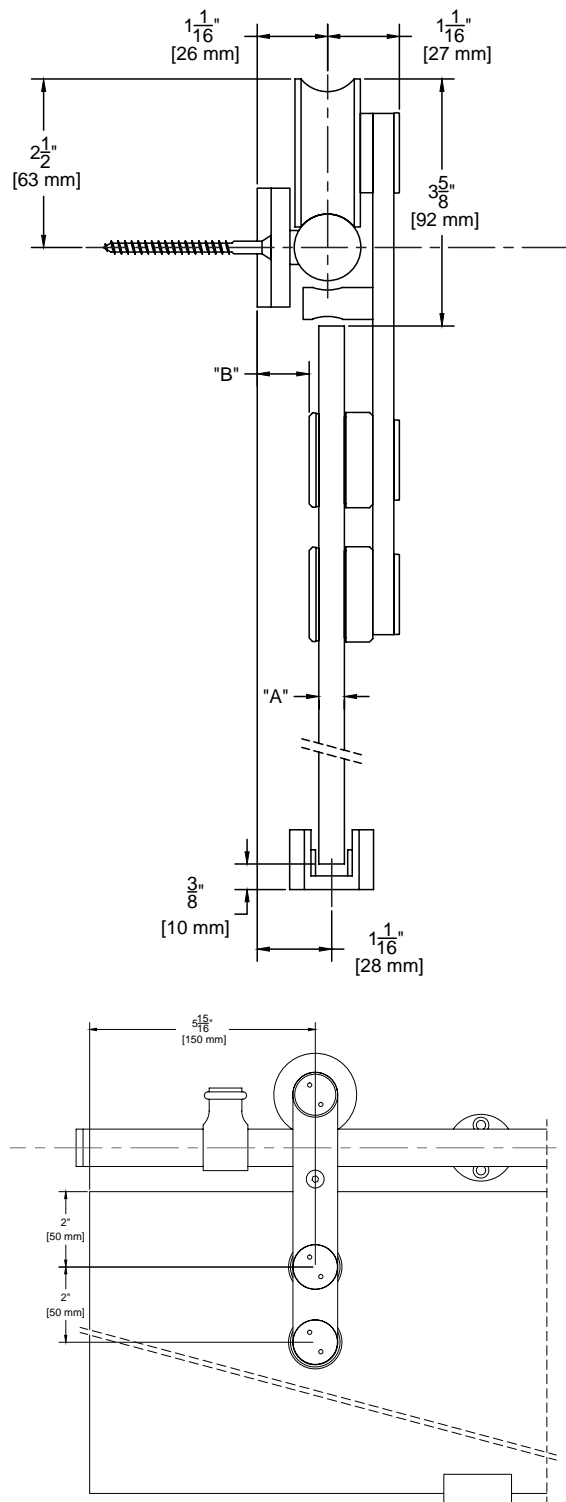
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Stainless Steel Sliding Track Hardware System

G60 Series for Glass Doors

For Sliding Panels up to 198 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (G60)
- Dark Bronze Stainless Steel (G60D)
- Polished Stainless Steel (G60P)

G60 Kits Include:

- 1 ea **BAR/** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **12** Stainless Steel Hangers
- 1 ea **GLASSGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
G60/6	304 Stainless Steel	78 ³ / ₄ "	36"
G60/8	304 Stainless Steel	98 ⁷ / ₁₆ "	48"
G60D/6	304 Dark Bronze Stainless Steel	78 ³ / ₄ "	36"
G60D/8	304 Dark Bronze Stainless Steel	98 ⁷ / ₁₆ "	48"
G60P/6	304 Polished Stainless Steel	78 ³ / ₄ "	36"
G60P/8	304 Polished Stainless Steel	98 ⁷ / ₁₆ "	48"

Glass Thickness "A"	Distance from Wall "B"
3/8"	3/4"
1/2"	5/8"

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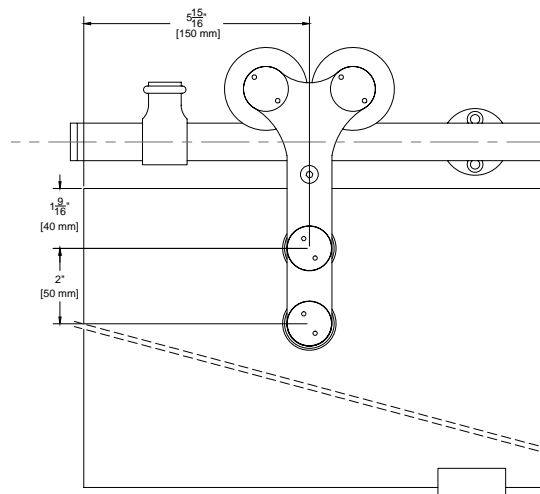
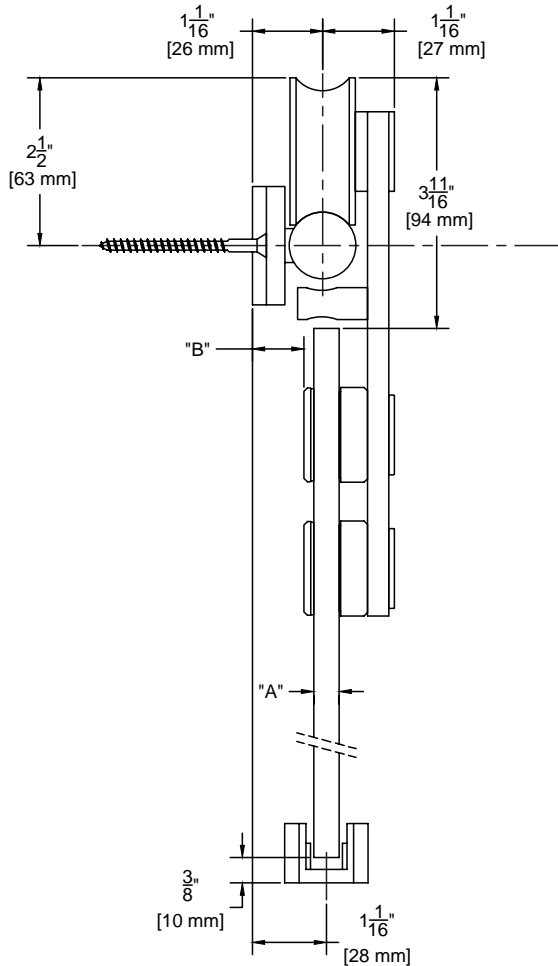


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Stainless Steel Sliding Track Hardware System

G70 Series for Glass Doors

For Sliding Panels up to 240 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 240 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (G70)
- Dark Bronze Stainless Steel (G70D)
- Polished Stainless Steel (G70P)

G70 Kits Include:

- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **32** Stainless Steel Hangers
- 1 ea **GLASSGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
G70/6	304 Stainless Steel	78 3/4"	36"
G70/8	304 Stainless Steel	98 7/16"	48"
G70D/6	304 Dark Bronze Stainless Steel	78 3/4"	36"
G70D/8	304 Dark Bronze Stainless Steel	98 7/16"	48"
G70P/6	304 Polished Stainless Steel	78 3/4"	36"
G70P/8	304 Polished Stainless Steel	98 7/16"	48"

Options: See page 265

Alternate Stop

STOP1

Glass Thickness "A"	Distance from Wall "B"
3/8"	3/4"
1/2"	5/8"



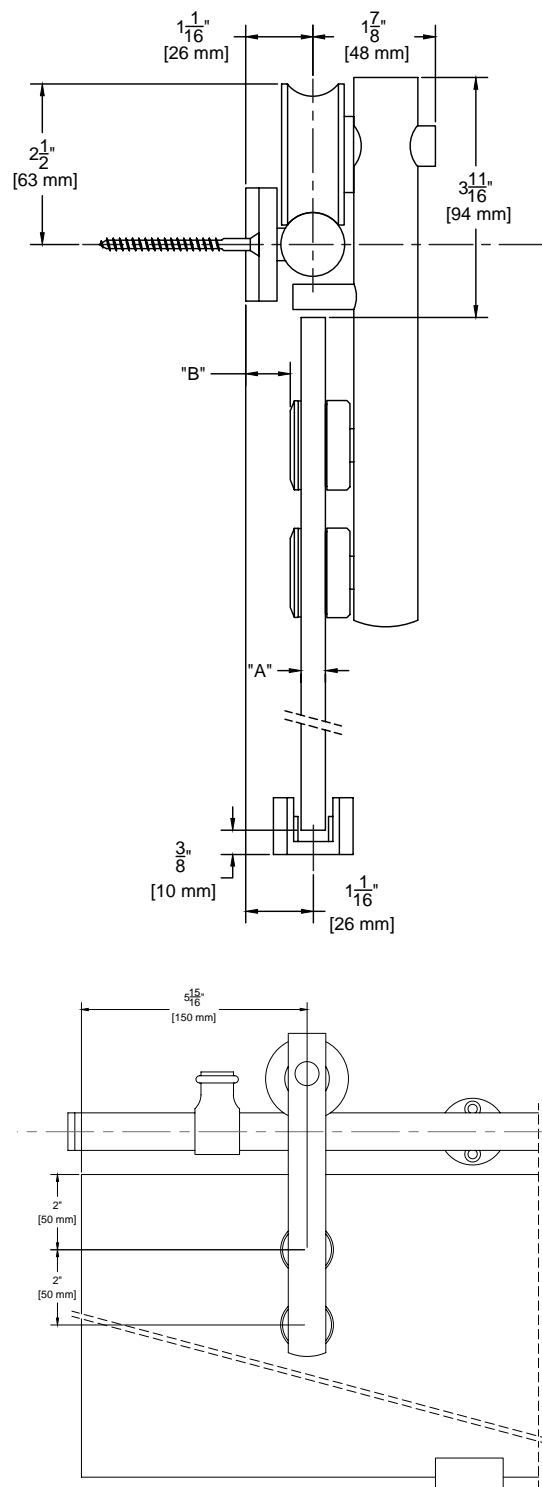
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door opening solutions

Stainless Steel Sliding Track Hardware System

G80 Series for Glass Doors

For Sliding Panels up to 198 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (G80)
- Dark Bronze Stainless Steel (G80D)
- Polished Stainless Steel (G80P)

G80 Kits Include:

- 1 ea **BAR/** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **22** Stainless Steel Hangers
- 1 ea **GLASSGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
G80/6	304 Stainless Steel	78 ³ / ₄ "	36"
G80/8	304 Stainless Steel	98 ⁷ / ₁₆ "	48"
G80D/6	304 Dark Bronze Stainless Steel	78 ³ / ₄ "	36"
G80D/8	304 Dark Bronze Stainless Steel	98 ⁷ / ₁₆ "	48"
G80P/6	304 Polished Stainless Steel	78 ³ / ₄ "	36"
G80P/8	304 Polished Stainless Steel	98 ⁷ / ₁₆ "	48"

Glass Thickness "A"	Distance from Wall "B"
3/8"	11/16"
1/2"	9/16"

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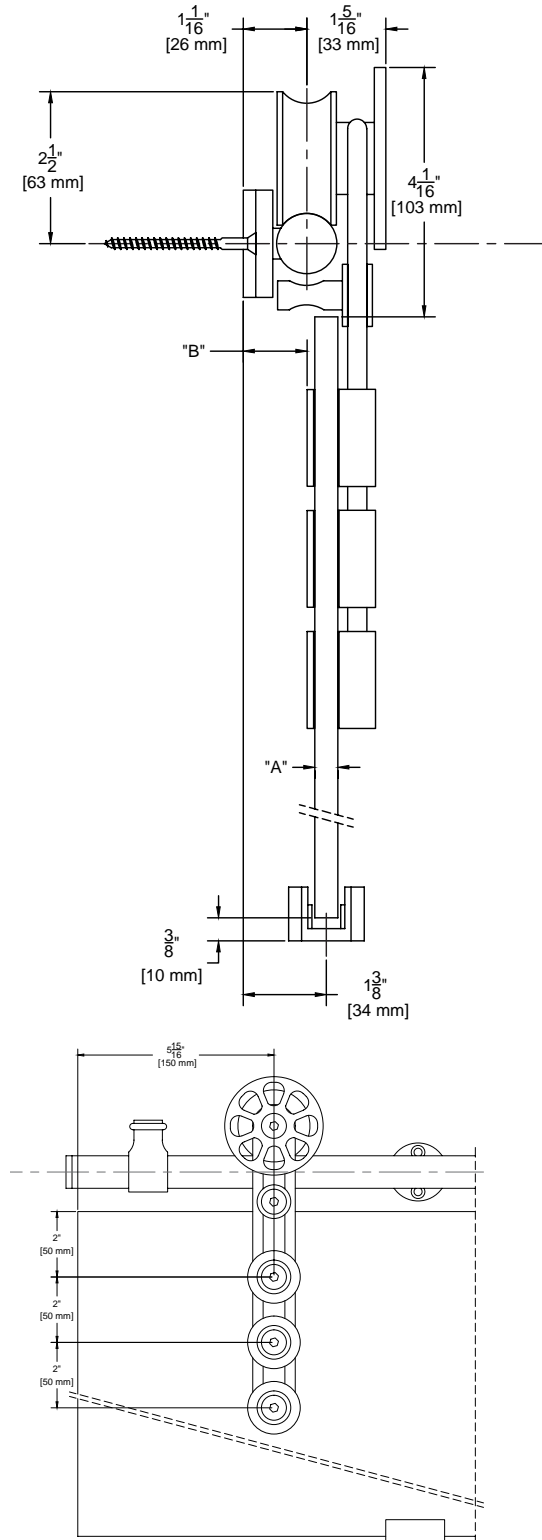


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Stainless Steel Sliding Track Hardware System

G90 Series for Glass Doors

For Sliding Panels up to 198 lbs.



Configurations:

- Single
- Bi-parting

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (G90)
- Dark Bronze Stainless Steel (G90D)
- Polished Stainless Steel (G90P)

G90 Kits Include:

- 1 ea **BAR/_** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **42** Stainless Steel Hangers
- 1 ea **GLASSGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
G90/6	304 Stainless Steel	78 ³ / ₄ "	36"
G90/8	304 Stainless Steel	98 ⁷ / ₁₆ "	48"
G90D/6	304 Dark Bronze Stainless Steel	78 ³ / ₄ "	36"
G90D/8	304 Dark Bronze Stainless Steel	98 ⁷ / ₁₆ "	48"
G90P/6	304 Polished Stainless Steel	78 ³ / ₄ "	36"
G90P/8	304 Polished Stainless Steel	98 ⁷ / ₁₆ "	48"

Glass Thickness "A"	Distance from Wall "B"
3/8"	1 1/16"
1/2"	15/16"



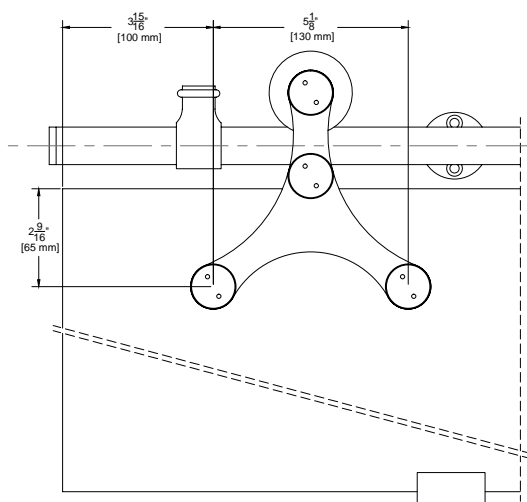
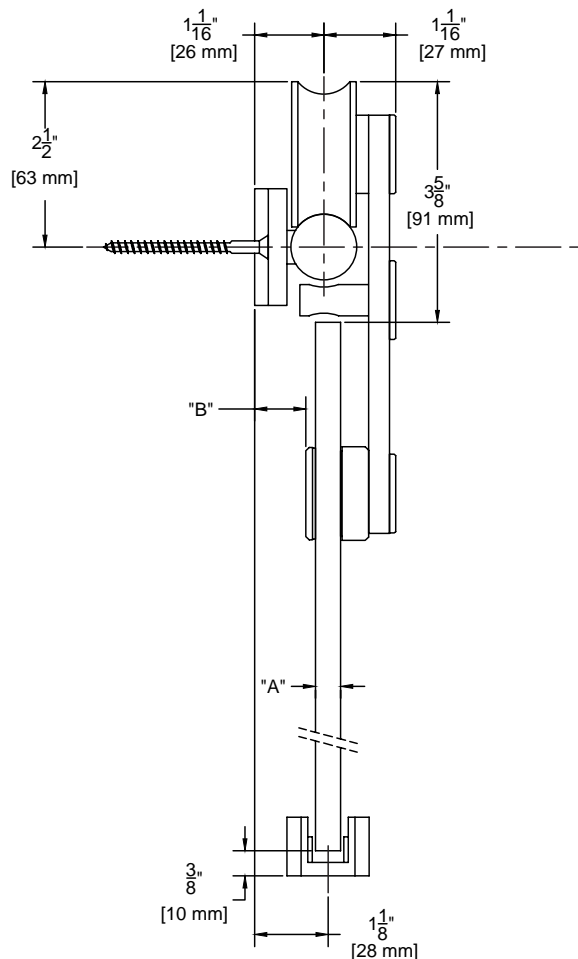
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Stainless Steel Sliding Track Hardware System

G100 Series for Glass Doors

For Sliding Panels up to 198 lbs.



Configurations:

- Single
- Bi-parting

Installations:

- Side Wall Mount (only)

Features:

- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:

- Brushed Stainless Steel (G100)
- Dark Bronze Stainless Steel (G100D)
- Polished Stainless Steel (G100P)

G100 Kits Include:

- 1 ea **BAR/** Stainless Steel Track
- **BRACKET2** Stainless Steel Wall Brackets
- 2 ea **52** Stainless Steel Hangers
- 1 ea **GLASSGUIDE** Stainless Steel Guide
- 2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Dark Bronze or Polished finishes, be sure to include a suffix "D" for Dark Bronze or "P" for Polished Stainless

Standard Kit Sizes

Part Number	Material	Track Length	Door Width
G100/6	304 Stainless Steel	78 ³ / ₄ "	36"
G100/8	304 Stainless Steel	98 ⁷ / ₁₆ "	48"
G100D/6	304 Dark Bronze Stainless Steel	78 ³ / ₄ "	36"
G100D/8	304 Dark Bronze Stainless Steel	98 ⁷ / ₁₆ "	48"
G100P/6	304 Polished Stainless Steel	78 ³ / ₄ "	36"
G100P/8	304 Polished Stainless Steel	98 ⁷ / ₁₆ "	48"

Glass Thickness "A"	Distance from Wall "B"
3/8"	3/4"
1/2"	5/8"

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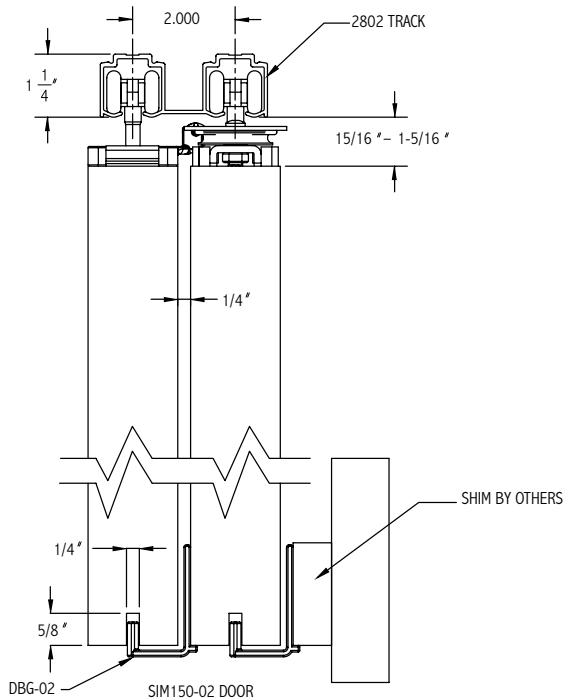


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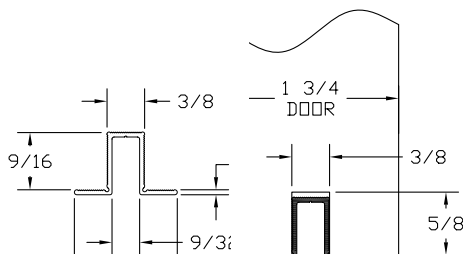
Simultaneous Acting Sliding Door System

SIM 150 for 2 Door Systems

For Sliding Panels up to 176 lbs.



Alternate Route for EPD3BL



Configurations:

- Bi-part Telescoping

Installations:

- Overhead Mount

Features:

- Easy to install with self aligning components
- Telescoping panels glide along the track
- Doors retract into storage pockets when not in use
- 5 year warranty

Finishes:

- Clear (C)
- Dark Bronze (D)

Pulley System Kit Includes:

Pre-Assembled Pulley System

In-Track Stops and Hangers

Door Bottom Guides

Floor Stops, Back Stop and End Plates

Installation Fasteners

Single Extrusion Aluminum Track must be ordered separately.

Specify door width when ordering. Default door overlap is 3". Any other overlap must be specified (Min. overlap is 2").

Pulley System Kits

Part Number	Door Width
SIM150-2-LH/25-32	25" - 32"
SIM150-2-LH/33-40	33" - 40"
SIM150-2-LH/41-48	41" - 48"
SIM150-2-RH/25-32	25" - 32"
SIM150-2-RH/33-40	33" - 40"
SIM150-2-RH/41-48	41" - 48"

System Track

Track	Finish	Track Length
2802C	Clear	up to 147"
2802D	Dark	up to 185"

Options:

Lock Kit- includes lock with edge pull, and cup pull, **SIM150-LOCKKIT**
Bolt Kit- includes surface bolt, dust-proof strike, cup pull, and edge pull, **SIM150-BOLTKIT**

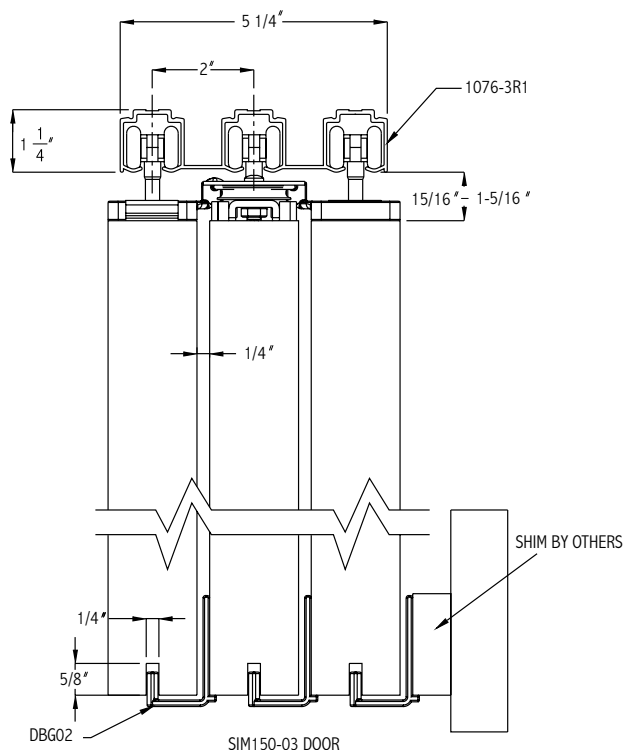
Snap-on Fascia Available **F134**

Polypropylene Guide Rail **EPD3BL**

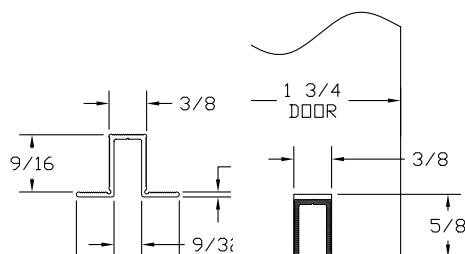
Simultaneous Acting Sliding Door System

SIM 150 for 3 Door Systems

For Sliding Panels up to 176 lbs.



Alternate Route for EPD3BL



Configurations:

- Bi-part Telescoping

Installations:

- Overhead Mount

Features:

- Easy to install with self aligning components
- Telescoping panels glide along the track
- Doors retract into storage pockets when not in use
- 5 year warranty

Finishes:

- Clear (C)
- Dark Bronze (D)

Pulley System Kit Includes:

Pre-Assembled Pulley System

In-Track Stops and Hangers

Door Bottom Guides

Floor Stops, Back Stop and End Plates

Installation Fasteners

Single Extrusion Aluminum Track must be ordered separately.

Specify door width when ordering. Default door overlap is 3". Any other overlap must be specified (Min. overlap is 2").

Pulley System Kits

Part Number	Door Width
SIM150-3-LH/25-32	25" - 32"
SIM150-3-LH/33-40	33" - 40"
SIM150-3-LH/41-48	41" - 48"
SIM150-3-RH/25-32	25" - 32"
SIM150-3-RH/33-40	33" - 40"
SIM150-3-RH/41-48	41" - 48"

System Track

Track	Finish	Track Length
2803C	Clear	up to 185"
2803D	Dark	up to 185"

Options:

Lock Kit- includes lock with edge pull, and cup pull, **SIM150-LOCKKIT**

Bolt Kit- includes surface bolt, dust-proof strike, cup pull, and edge pull, **SIM150-BOLTKIT**

Snap-on Fascia Available **F134**

Polypropylene Guide Rail **EPD3BL**

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**TRADEMARK
HARDWARE**
WWW.TMHARDWARE.COM

Options & Accessories

A visual guide to various parts

Mounting Brackets

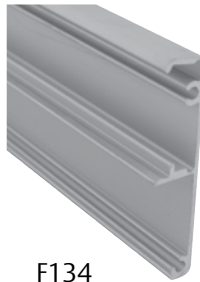


281
(Sold in 5 packs, 2815)

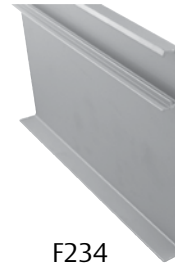


2812

Fascia



F134



F234

End plates



K134EP

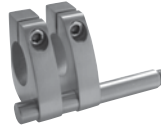
Stops



286



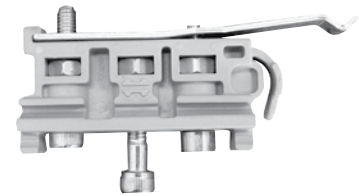
287HD



STOP1
W70 and G70 Kits only



PFBS



601H

Guides



102N



PFBG-4



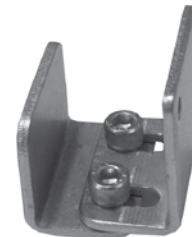
PFBG-8



106R/94

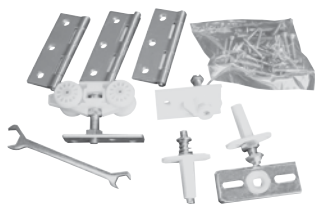


106N/94

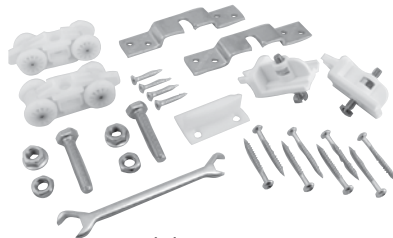


102WA

Hardware Kits



Folding
HF2/100 Pack



Sliding
H100/200 Pack

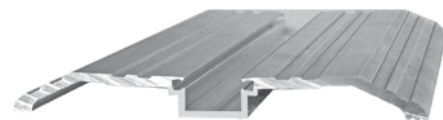
Bottom Channel



94A



2802BT



971A

RESIDENTIAL THRESHOLDS

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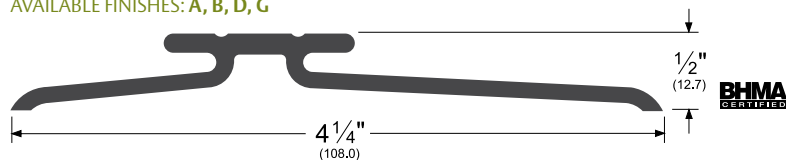
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Interlocking Thresholds

- All interlocking thresholds (including water return types) and caps are furnished with #61 hooks and nails
- For alternate hooks, see following page

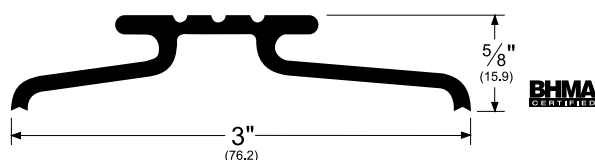
114_

AVAILABLE FINISHES: A, B, D, G



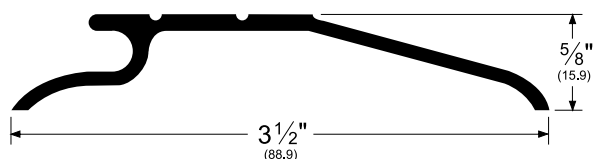
121_

AVAILABLE FINISHES: A, D, G



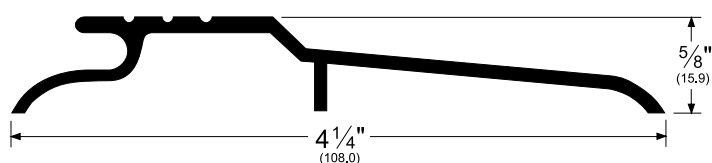
110_

AVAILABLE FINISHES: A, B, D, G



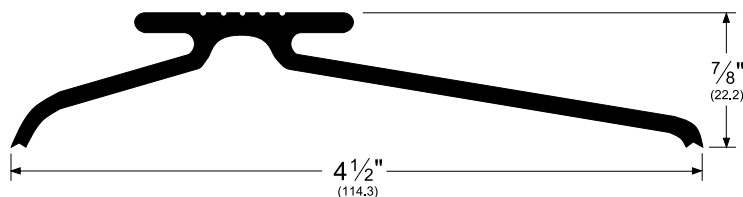
115_

AVAILABLE FINISHES: A, D, G



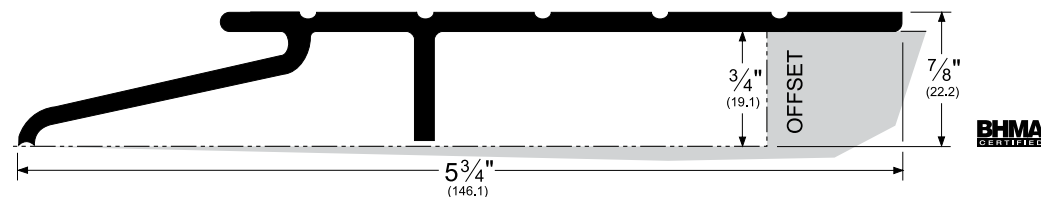
120_

AVAILABLE FINISHES: A, B, D, G



123_

AVAILABLE FINISH: B



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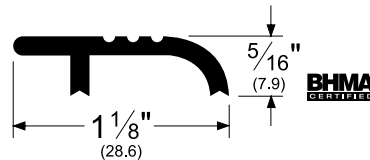
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door opening solutions

Threshold Caps

- Typically mounted on an existing saddle-type threshold to create an interlock with a J-hook or L-hook

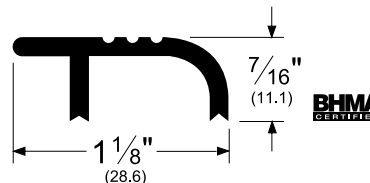
101_

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



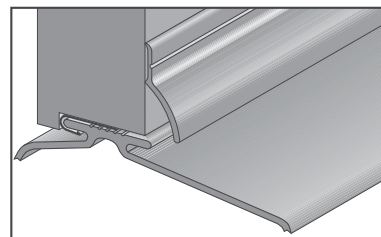
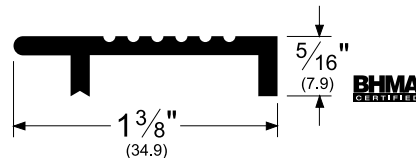
107_

AVAILABLE FINISHES: A, D, G



108_

AVAILABLE FINISH: B



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized)
D (Dark Bronze Anodized) G (Gold Anodized)

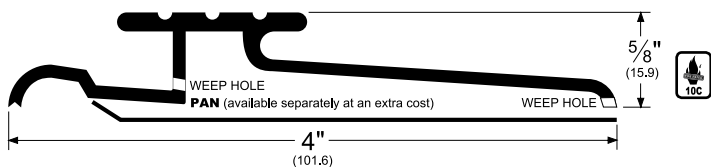
Interlocking Thresholds - Water Return

- Water return thresholds are designed to catch water which may blow or run under the door and return it to the outside through interior weep holes, down the sloped drain pan, and out exterior weep holes

- Product number for the aluminum water return pan is **PAN**
- Products are furnished with #61 hooks and nails

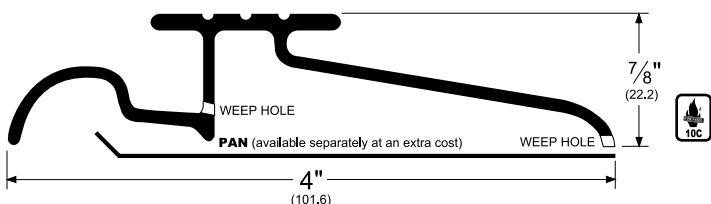
142_

AVAILABLE FINISHES: **A, D, G**



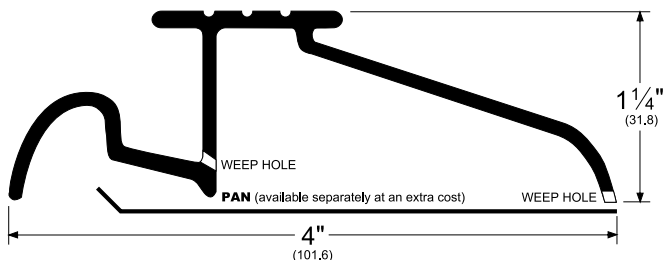
145_

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



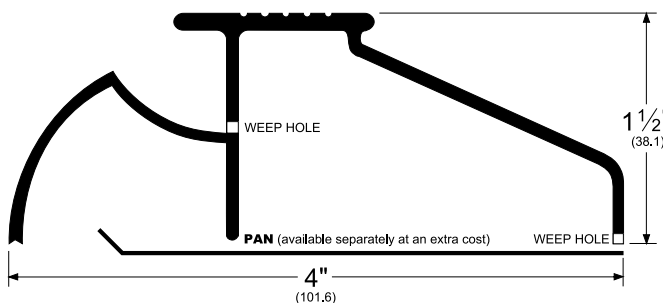
146_

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



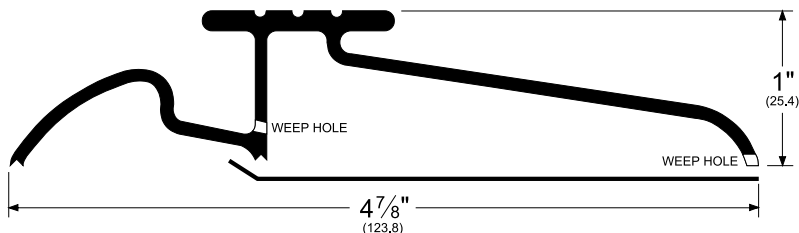
147_

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



136_

AVAILABLE FINISHES: **A, B, BDG, D, G, SN**



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)

D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White) **SN** (Satin Nickel Anodized)

For Hooks: **B** (Bronze) **Z** (Zinc)

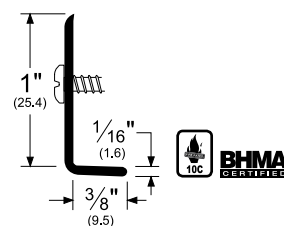
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Hooks

- When installed properly on bottom of door, hooks interlock with threshold for a superior seal
- When substituting #66 or #67 hooks for #61 hooks, price will be increased accordingly. Contact PEMKO Customer Service

66_

AVAILABLE FINISHES: **A, B, D, G**



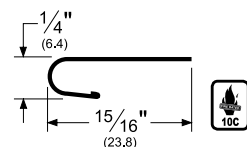
_61

AVAILABLE FINISHES: **B, Z**

.018 bronze

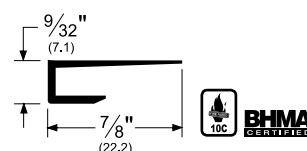
.015 zinc

NOTE: B61 is roll form bronze metal



_67

AVAILABLE FINISHES: **A, D, G**



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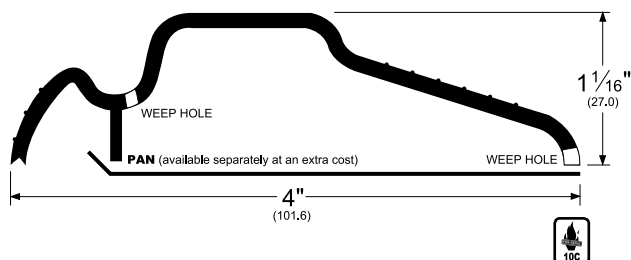
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Residential Thresholds - Water Return

- Water return thresholds are designed to catch water which may blow or run under the door and return it to the outside through interior weep holes, down the sloped drain pan and out exterior weep holes
- Product number for aluminum water return pan is **PAN**
- Eco-V™ feet replacement insert (where applicable) is **EV12GR**

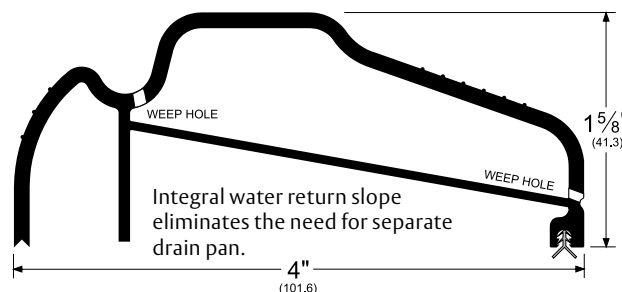
213_

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



2813_

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

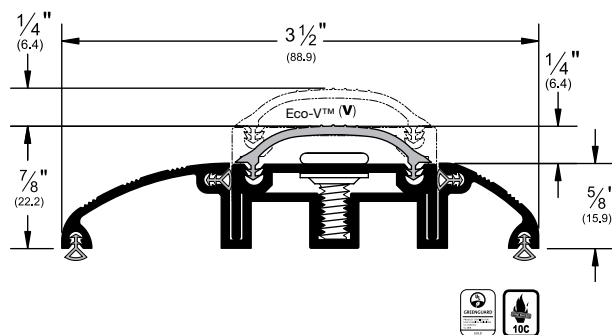


Adjustable Eco-V™ Top Thresholds

- Furnished with concealed, weather-sealed mounting screws and adjustment mechanism
- Eco-V™ seal adjusts to overcome swelling and/or shrinking of door and floor and eliminates need for shoe or sweep
- Furnished with Eco-V™ (V) insert. Gray replacement Eco-V™ is **PV64GR** (see Weatherization Products section)
- Eco-V™ replacement "foot" insert is **EV63GR**
- Pre-assembled for easy installation and adjustment

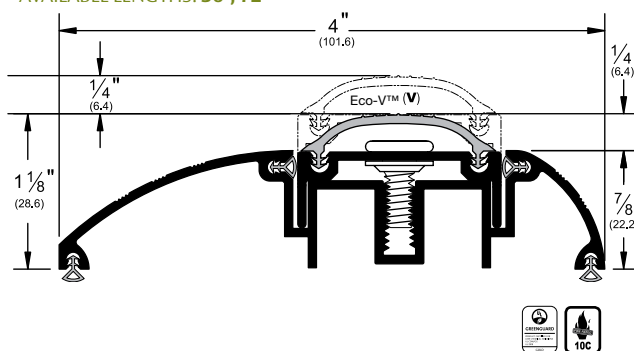
249_V

AVAILABLE FINISHES: **A, D**
AVAILABLE LENGTHS: **36", 72"**



250_V

AVAILABLE FINISHES: **A, D**
AVAILABLE LENGTHS: **36", 72"**



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White) **SN** (Satin Nickel Anodized)

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Eco-V™ Top Thresholds

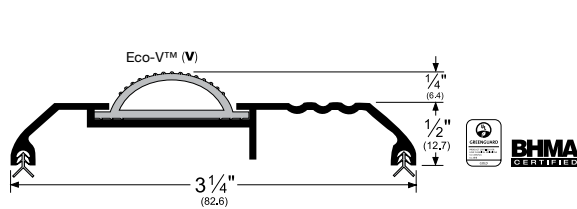
- Eco-V™ (V) top creates a seal at the bottom of the door, eliminating the need for door sweeps or door shoes

206_V

AVAILABLE FINISHES: **A, D, G**

Gray replacement Eco-V™ is **PV22GR36**

Black replacement Eco-V™ is **PV22BL36**

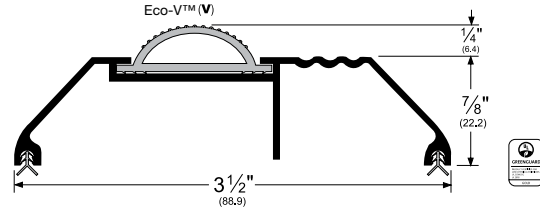


207_V

AVAILABLE FINISHES: **A, D, G**

Gray replacement Eco-V™ is **PV22GR36**

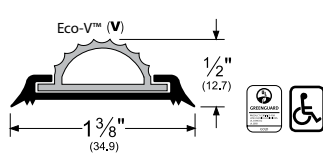
Black replacement Eco-V™ is **PV22BL36**



208_V

AVAILABLE FINISHES: **A, D, G**

Gray replacement Eco-V™ is **PV13GR36**



Residential Saddles

- Use a door bottom shoe or sweep with these thresholds to seal out the elements
- Made of sturdy extruded aluminum
- Replacement Eco-V™ feet (where applicable) is **EV12GR**

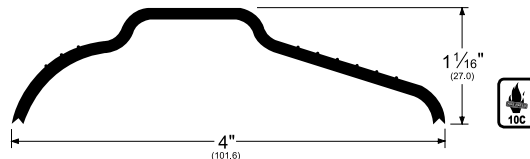
212_

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



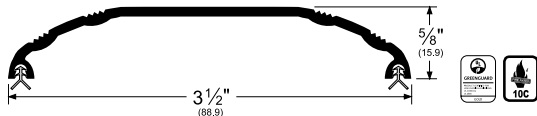
214_

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



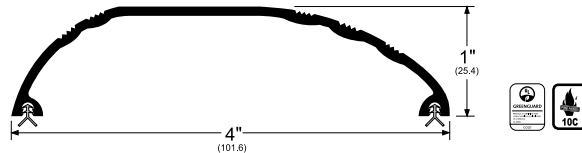
218_

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



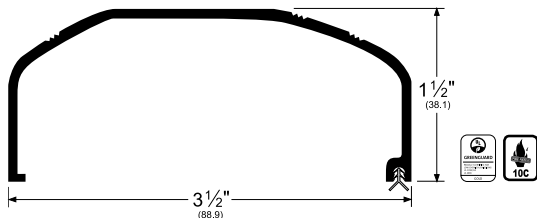
219_

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



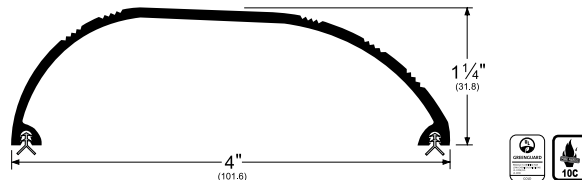
231_

AVAILABLE FINISHES: **A, D, G**



233_

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



NOTE: Products shown in this section may not be drawn to scale.

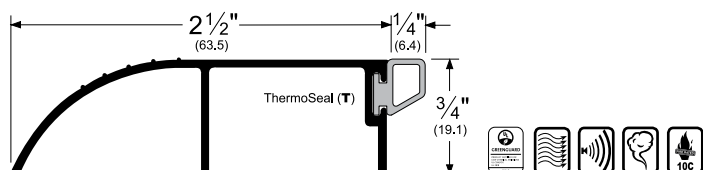
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White) **SN** (Satin Nickel Anodized)

Bumper Thresholds for Outswing Doors

- In the closed position, the door butts up to bumper seal on threshold creating a seal against the elements

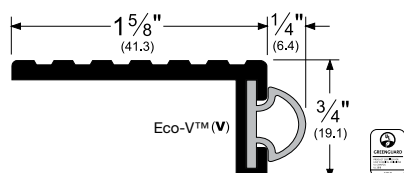
149_T

AVAILABLE FINISHES: **A, BDG, D, G, PW, SN**
REPLACEMENT INSERT: **T5 (BL)**



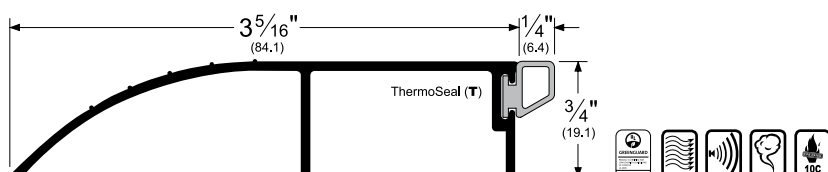
155_V

AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK10 (BL)**



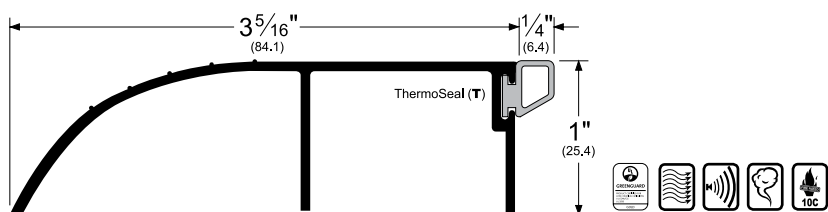
205_T

AVAILABLE FINISHES: **A, D, G, PW**
REPLACEMENT INSERT: **T5 (BL)**



2051_T

AVAILABLE FINISHES: **A, D, G, PW**
REPLACEMENT INSERT: **T5 (BL)**



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Alternate Insert For 149

149_P

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

REPLACEMENT INSERT:
P2 (BL, GR)



149_V

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

REPLACEMENT INSERT:
EV41 (BL, GR, W)



Alternate Insert For 205

205_P

AVAILABLE FINISHES:
A, D, G, PW

REPLACEMENT INSERT:
P2 (BL, GR)



205_V

AVAILABLE FINISHES:
A, D, G, PW

REPLACEMENT INSERT:
EV41 (BL, GR, W)



Alternate Insert For 2051

2051_P

AVAILABLE FINISHES:
A, D, G, PW

REPLACEMENT INSERT:
P2 (BL, GR)



2051_V

AVAILABLE FINISHES:
A, D, G, PW

REPLACEMENT INSERT:
EV41 (BL, GR, W)



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White) **SN** (Satin Nickel Anodized)

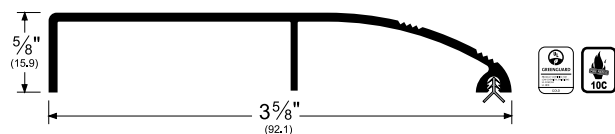
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Squareback Thresholds

- Replacement Eco-V™ feet (where applicable) is **EV12GR**
- Interior support leg flushes with interior jamb in application, allowing flooring to squarely abut threshold
- Ideal for tall terra cotta, plush carpet or stone paver entry applications for smooth transition

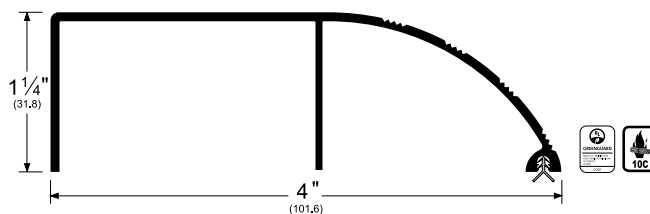
2052_

AVAILABLE FINISHES: **A, D**



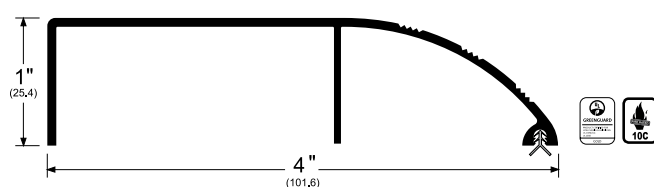
2054_

AVAILABLE FINISHES: **A, D**



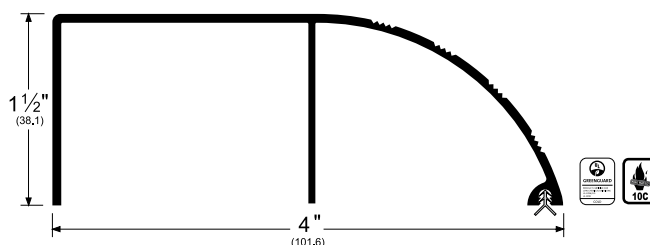
2053_

AVAILABLE FINISHES: **A, D**



2055_

AVAILABLE FINISHES: **A, BDG, D**

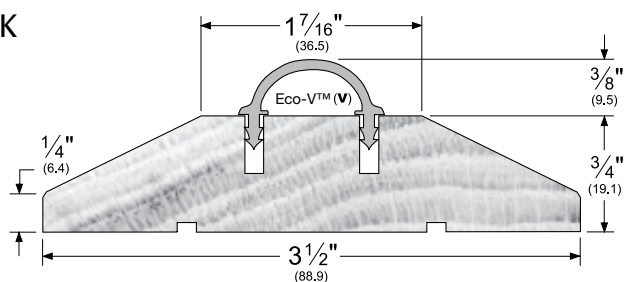


Oak Thresholds

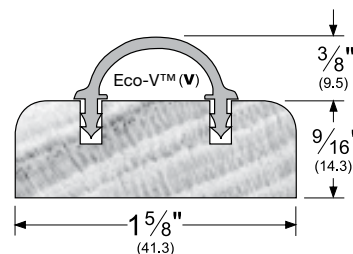
- Natural unfinished oak provides beauty as well as thermal benefits
- Eco-V™ top creates a seal at bottom of door, eliminating the need for door sweeps or door shoes

- Tan replacement for Oak Eco-V™ Top Thresholds is **PV83TN** (see Weatherization Products section)
- Available in 36" or 72" lengths only

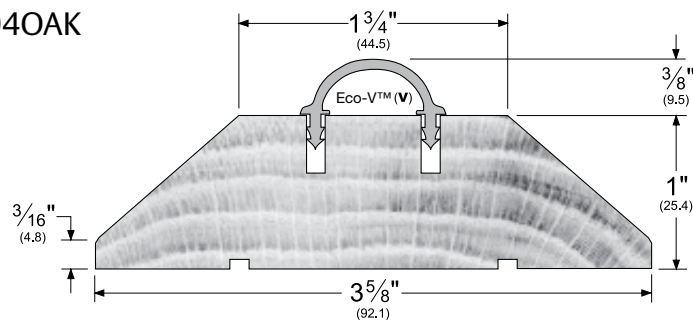
2030AK



2080AK



2040AK



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **OAK** (Natural Unfinished Oak)

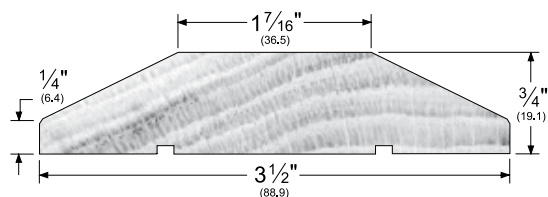


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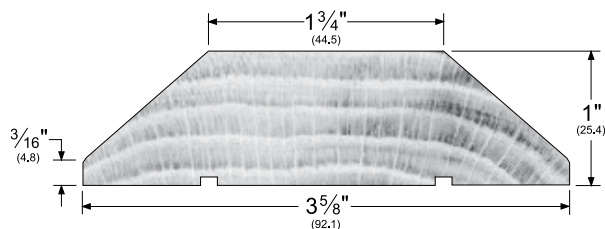
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Oak Thresholds (Cont.)

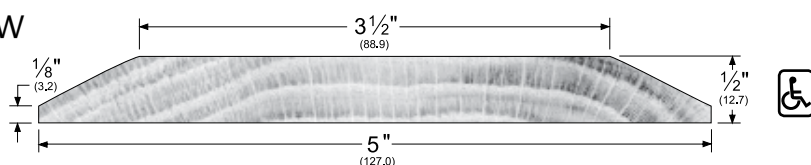
218OAK



219OAK



2500W

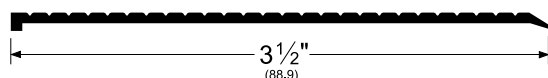


Sill Nosings

- Used to cover concrete or wood sill
- Provides an attractive finished look to new and old door openings, covering defects in existing sill
- Sill nosings are held in place with mastic and pressure from threshold placement

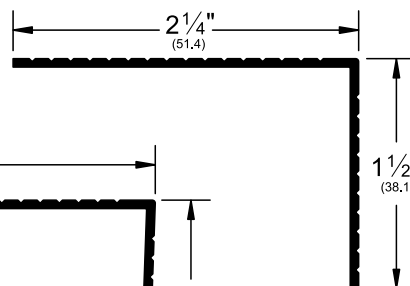
324_

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

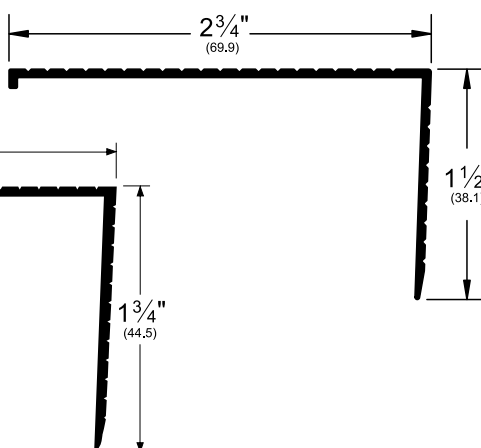


3261_

AVAILABLE FINISHES: A, D, G, SN

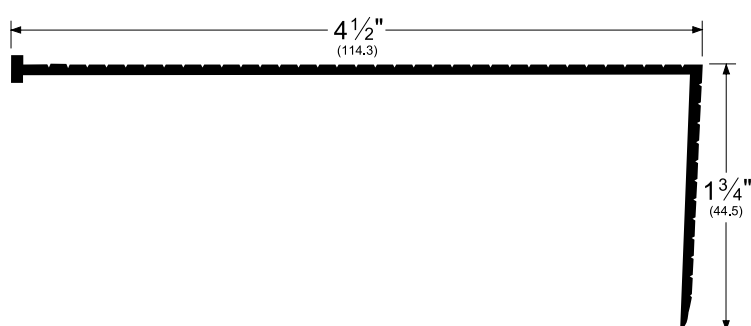


326_

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

327_

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



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized)

D (Dark Bronze Anodized) G (Gold Anodized) OAK (Natural Unfinished Oak)

PW (Painted White) SN (Satin Nickel Anodized)

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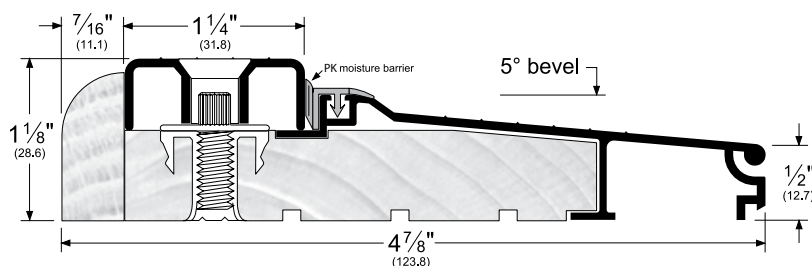
Residential Millwork Sills

- Sills for use with standard $4\frac{5}{8}$ " jamb width with easy snap-on extension for jambs as wide as $8\frac{3}{4}$ "
- For fabrication options for adjustable or fixed substrate sills, such as honing or sidelite mullion notching, contact PEMKO Customer Service
- Residential Sills are designed specifically for the pre-hung door market. They are furnished un-drilled and without screws or nails
- Adjustable up to $\frac{1}{4}$ " to compensate for uneven door bottoms and sub-sill level changes. Two-part zinc plated steel stud shoulder screw joins a long-barreled, zinc plated steel T-nut for superior stability and long-lasting reliability
- PemkoPrene (PK) moisture barrier prevents water intrusion. Design of PemkoPrene (PK) bulb configuration keeps constant pressure between aluminum cap and aluminum extrusion at any level of adjustment (bulb shown compressed). Replacement insert is **PK74BL**
- Available in standard sizes 32.5", 36.5", and 73.75"

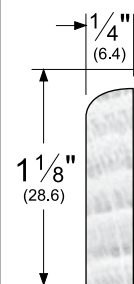
Adjustable Aluminum Top Sills

94518_

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

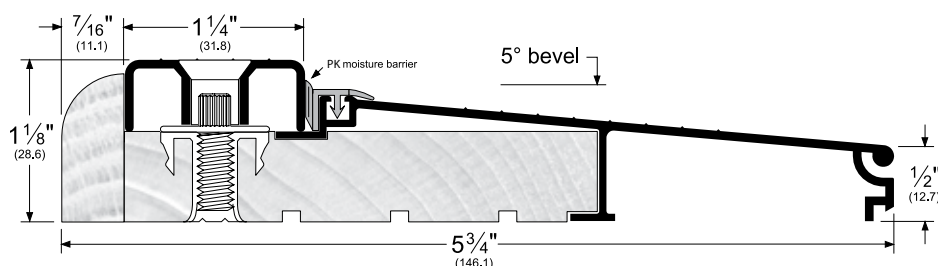


Add "NT" to the end of product number to order narrow trim (i.e. **94518A36.5NT**). Full width of sill changes from $4\frac{7}{8}$ " to $4\frac{11}{16}$ ".

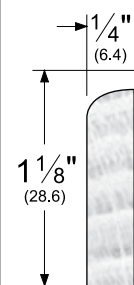


95518_

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



Add "NT" to the end of product number to order narrow trim (i.e. **95518A36.5NT**). Full width of sill changes from $5\frac{3}{4}$ " to $5\frac{9}{16}$ ".



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **SN** (Satin Nickel Anodized)



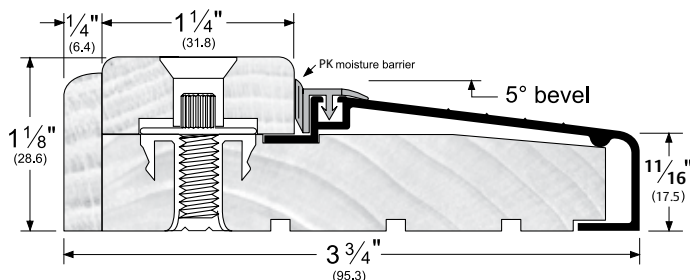
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Adjustable Oak Top Sills

93518_W

AVAILABLE FINISHES: **A, D**



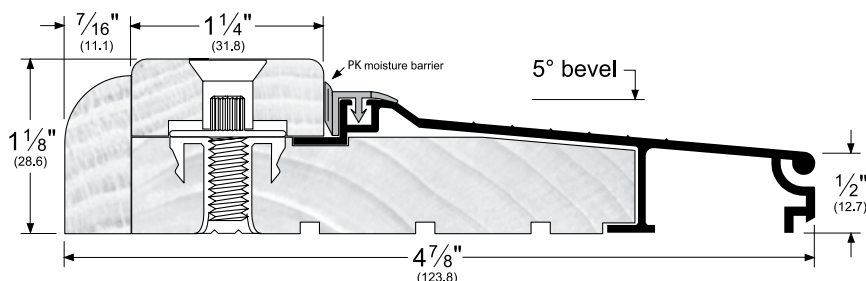
Available with optional Synthetic Wood Substrate

93518_W_SYN

AVAILABLE FINISH: **A, D**

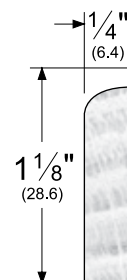
94518_W

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



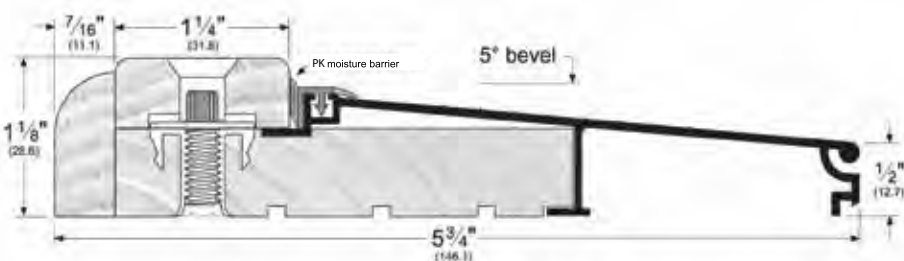
Add "NT" to the end of product number to order narrow trim (i.e. **94518AW36.5NT**).

Full width of sill changes from 4 7/8" to 4 11/16".



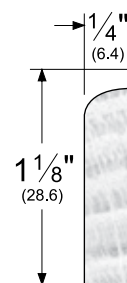
95518_W

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



Add "NT" to the end of product number to order narrow trim (i.e. **95518AW36.5NT**).

Full width of sill changes from 5 3/4" to 5 9/16".



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NOTE: Products shown in this section may not be drawn to scale.

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

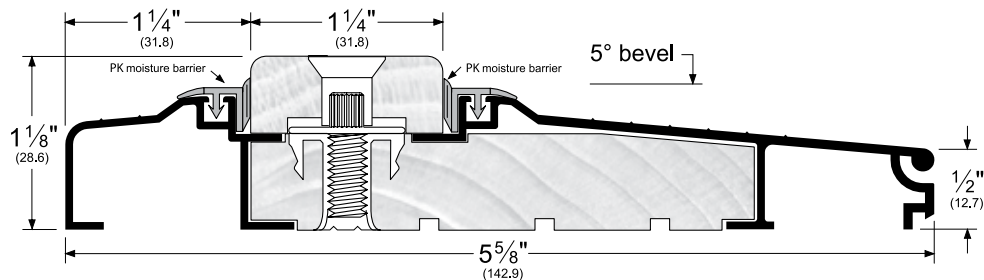
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized)
SN (Satin Nickel Anodized)

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Outswing Adjustable Oak Top Sills

OS95518_W

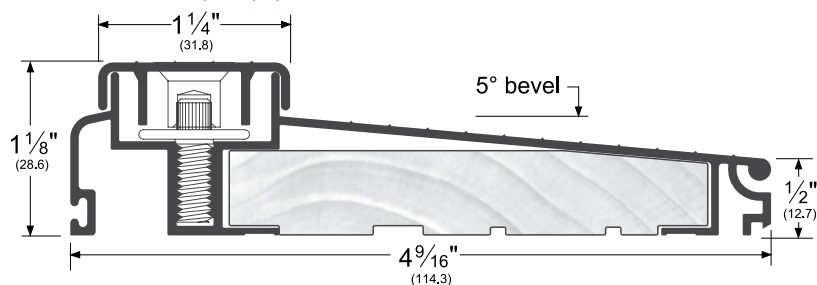
AVAILABLE FINISHES: **A, BDG, D**



Residential All-Aluminum Adjustable Sills

74518_

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



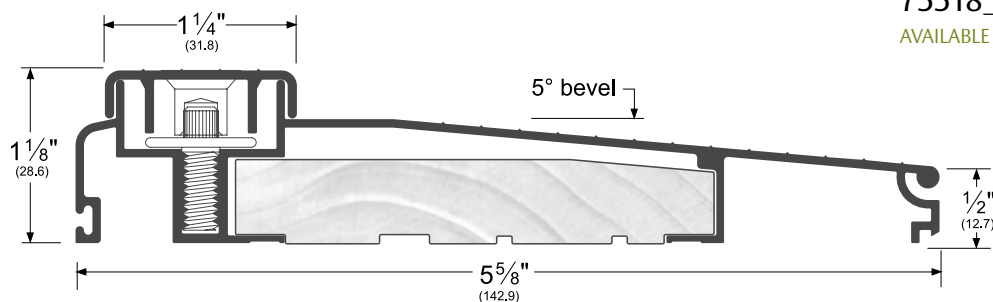
Available with optional Synthetic Wood Substrate

74518_SYN

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

75518_

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



Available with optional Synthetic Wood Substrate

75518_SYN

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

NOTE: Products shown in this section may not be drawn to scale.

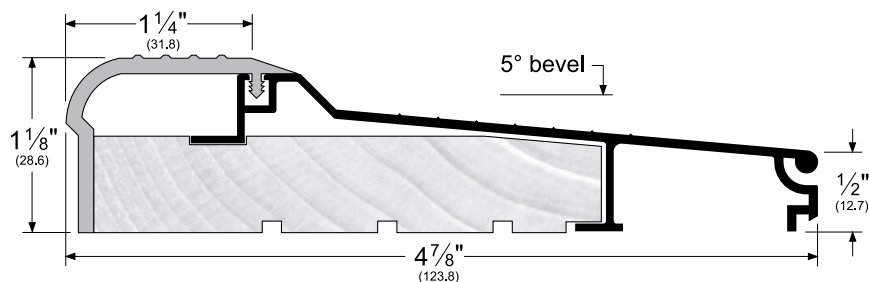
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **SN** (Satin Nickel Anodized)

Fixed Eco-V™ Top Residential Sills

- Fixed rigid Eco-V™ (V) cap includes ratchet lock feature which prevents moisture penetration and securely fastens Eco-V™ to aluminum extrusion

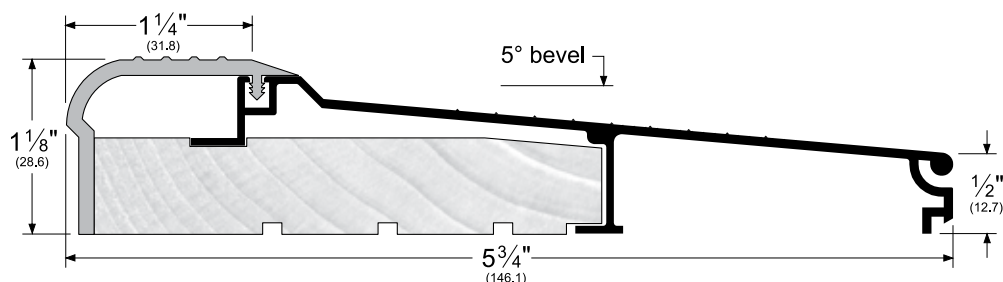
N84518_V

AVAILABLE FINISHES: **A, D, SN**



N85518_V

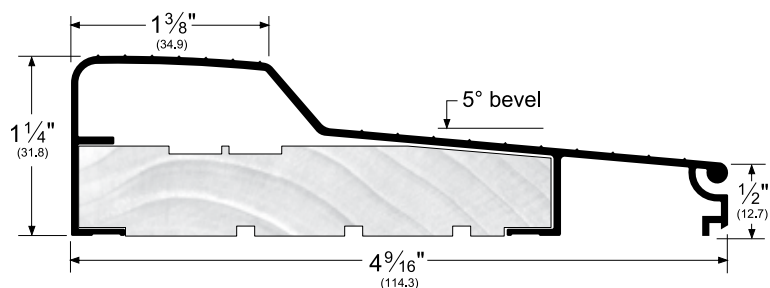
AVAILABLE FINISHES: **A, D**



Residential All-Aluminum Fixed Sills

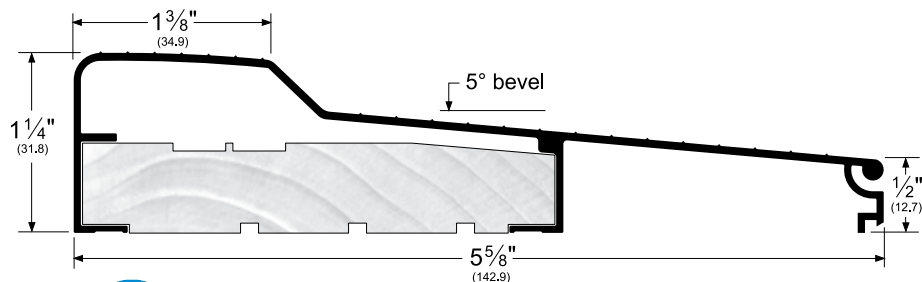
84514_

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



85514_

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



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NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized)
SN (Satin Nickel Anodized)

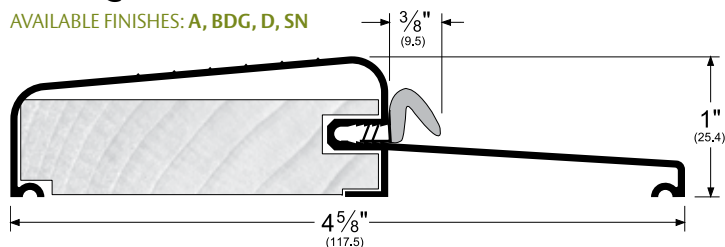
Outswing Fixed Bumper Sills

- High dam design restricts water intrusion
- Supplied with high quality Q103 (Q) kerf-in seal

- 8452_Q is extendable to interior

8451_Q

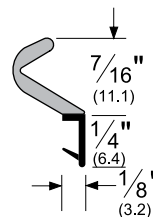
AVAILABLE FINISHES: **A, BDG, D, SN**



Alternate Insert for 8451 and 8452; available upon request

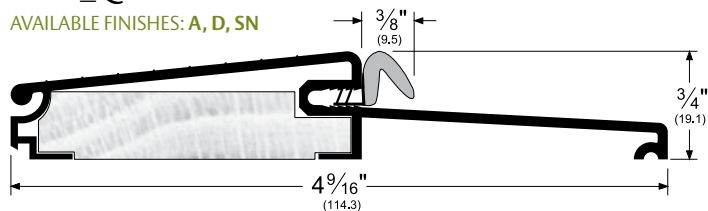
Q107_

AVAILABLE FINISHES: **BL, W**



8452_Q

AVAILABLE FINISHES: **A, D, SN**



Available with optional Synthetic Wood Substrate

8452_Q_SYN

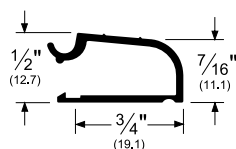
AVAILABLE FINISHES: **A, D, SN**

Extenders For All Residential Sills

- Extenders fit all 4 7/8\" wide and 5 3/4\" wide extrusions
- Extenders are available for jambs as wide as 8 3/4\"

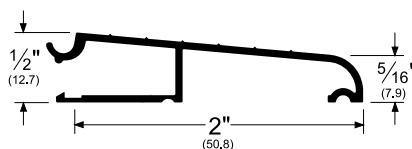
EXT3/4_

AVAILABLE FINISHES
A, BDG, D, SN



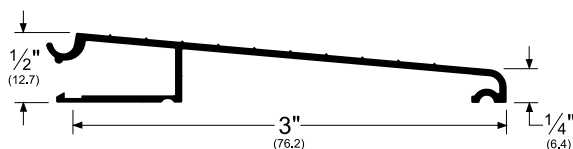
EXT2_

AVAILABLE FINISHES:
A, BDG, D, SN



EXT3_

AVAILABLE FINISHES:
A, BDG, D, SN



NOTE: Products shown in this section may not be drawn to scale.

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

A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **SN** (Satin Nickel Anodized)
For Kerf Gasket: **BL** (Black) **W** (White)



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Bumper Thresho-Sills For Outswing Doors

- Please specify whether the part is to be used for a standard threshold or for a prehung application. For a standard threshold application, the part is supplied with 3 holes on center and $\frac{1}{2}$ " over net length

(less than 48") or 1" over net length (48" and over). For a prehung application, the part is supplied according to fabrication options for thresho-sills - **STYLE 4** only (see page 282).

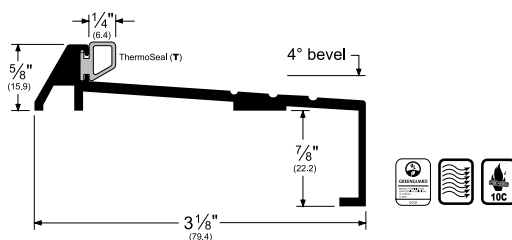
165_T

AVAILABLE FINISHES:

A, D

REPLACEMENT INSERT:
T5 (BL)

Allow $\frac{3}{8}$ " door clearance.



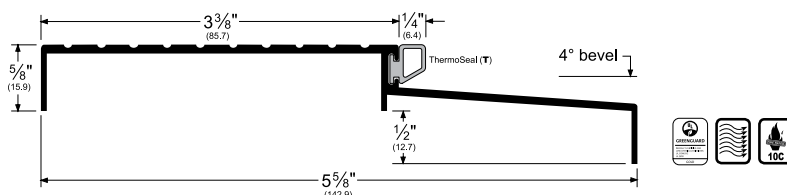
153_T

AVAILABLE FINISHES:

A, BDG, D, G, SN

REPLACEMENT INSERT:
T5 (BL)

Allow $\frac{3}{8}$ " door clearance.



Alternate Insert

165_V

AVAILABLE FINISHES:

A, D

REPLACEMENT INSERT:
EV41 (BL, GR, W)



153_V

AVAILABLE FINISHES:

A, BDG, D, G, SN

REPLACEMENT INSERT:
EV41 (BL, GR, W)

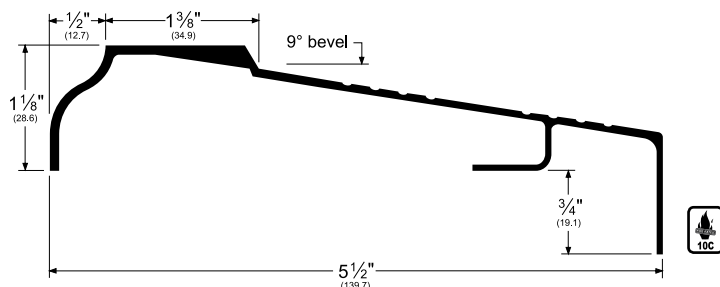


Thresho-Sills

- The following products are designed specifically for the prehung door market
- See updated fabrication options for thresho-sills (see page RT-16) for complete information and drawings regarding milling, drilling, and notching

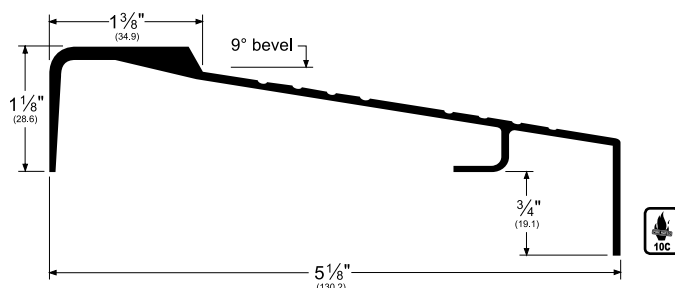
160_

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



160_M

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



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NOTE: Products shown in this section may not be drawn to scale.

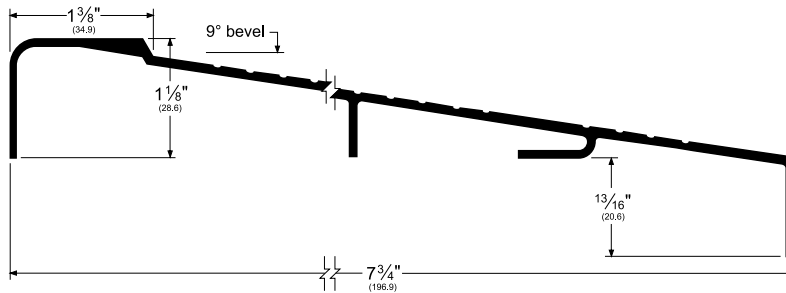
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White) **SN** (Satin Nickel Anodized)

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Thresho-Sills (Cont.)

161_M

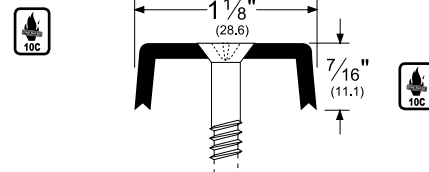
AVAILABLE FINISHES: **A**, **BDG**, **D**, **G**, **PW**, **SN**



167_

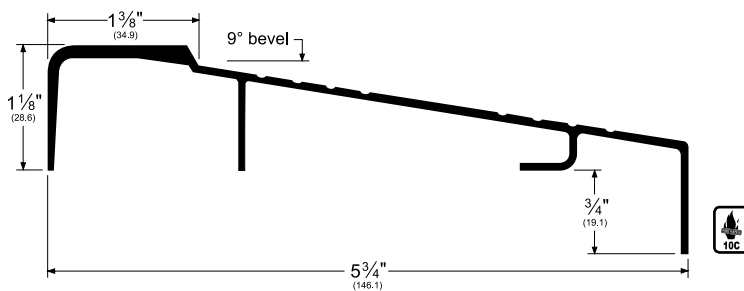
AVAILABLE FINISHES: **A**, **D**, **G**

- Riser fastens to top of any thresho-sill
- Supplied with both wood and sheet metal screws
- Specify NET length when ordering
- Furnished undrilled unless drilling instructions are specified when ordering



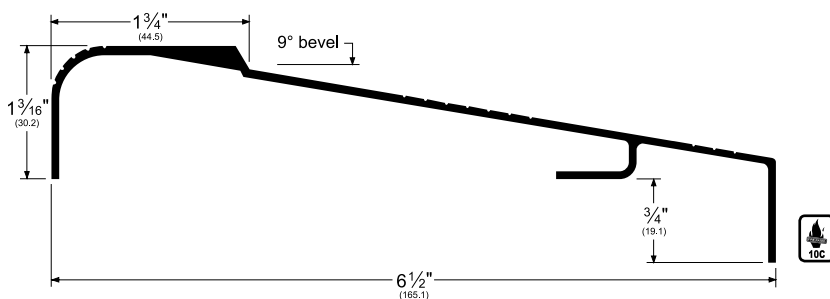
163_M

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



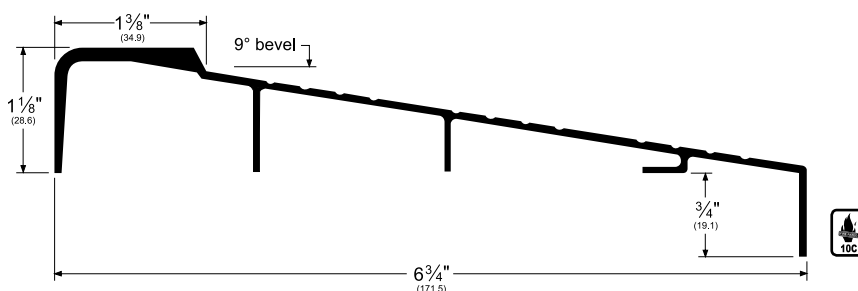
164_M

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



140_M

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



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
PW (Painted White) **SN** (Satin Nickel Anodized)

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Fabrication Options For Thresho-Sills

STYLE 3A (standard mill)

- Fabrication includes: $\frac{3}{4}$ " mill each end, 3 nail holes at each end, and one center screw
- Preparation: Cut jamb $\frac{3}{4}$ " at angle and height of threshold. Nail threshold to underside of jamb
- Ordering: Add $1\frac{1}{2}$ " to net opening dimension and designate Style 3A by adding "M" following product number and add "x3A" after length

(Example: A 160_M profile for a 36" net opening with a STYLE 3A fabrication = 160_MM37.5x3A)

STYLE 3B (modification of STYLE 3A)

- Fabrication includes: $\frac{3}{8}$ " mill each end, 3 nail holes at each end, and one center screw
- Preparation: Cut jamb $\frac{3}{8}$ " at angle and height of threshold. Nail threshold to underside of jamb
- Ordering: Add $\frac{3}{4}$ " to net opening dimension and designate STYLE 3B by adding "M" following product number and add "x3B" after length

(Example: A 160_M profile for a 36" net opening with a STYLE 3B fabrication = 160_MM36.75x3B)

STYLE 3C (modification of STYLE 3A)

- Fabrication includes: $\frac{1}{2}$ " mill each end, 3 nail holes at each end, and one center screw
- Preparation: Cut jamb $\frac{1}{2}$ " at angle and height of threshold. Nail threshold to underside of jamb
- Ordering: Add 1" to net opening dimension and designate STYLE 3C by adding "M" following product number and add "x3C" after length

(Example: A 160_M profile for a 36" net opening with a STYLE 3C fabrication = 160_MM37x3C)

STYLE 4

- Fabrication includes: 2 nail holes at each end and one center screw
- Preparation: Rabbet stop to angle and height of threshold. Nail threshold to underside of stop
- Ordering: Order net opening dimension and designate STYLE 4 by adding "H" following the product number

(Example: A 160_M profile for a 36" net opening with a STYLE 4 fabrication = 160_MH36)

L-NOTCH

- Accommodates trim molding by notching corner of product
- Fabrication: Customer must supply diagram indicating location and dimensions of L-NOTCH (see drawing)
- PEMKO Customer Service can provide form to fill in location and dimensions
- Ordering: Specify "L-NOTCH". After fabrication, orders are non-cancellable and non-returnable

U-NOTCH

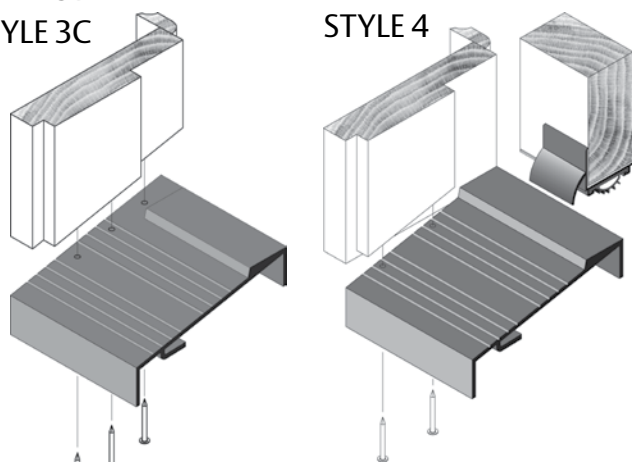
- For use with pre-installed door frames, to "drop-in" around door frame stops
- Fabrication: Customers must supply diagram indicating location and dimensions of U-NOTCH cut-out
- PEMKO Customer Service can provide form to fill in location and dimensions
- Ordering: Specify "U-NOTCH". After fabrication, orders are non-cancellable and non-returnable

STYLE 3A

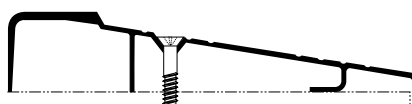
STYLE 3B

STYLE 3C

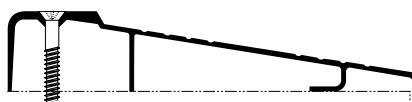
STYLE 4



Screw Location

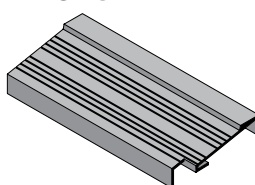


Standard thresho-sill center screw is located on the slope.

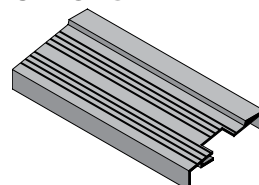


Alternate thresho-sill screw is located on the top of the sill. Specify "thresho-sill screws on top".

L-NOTCH

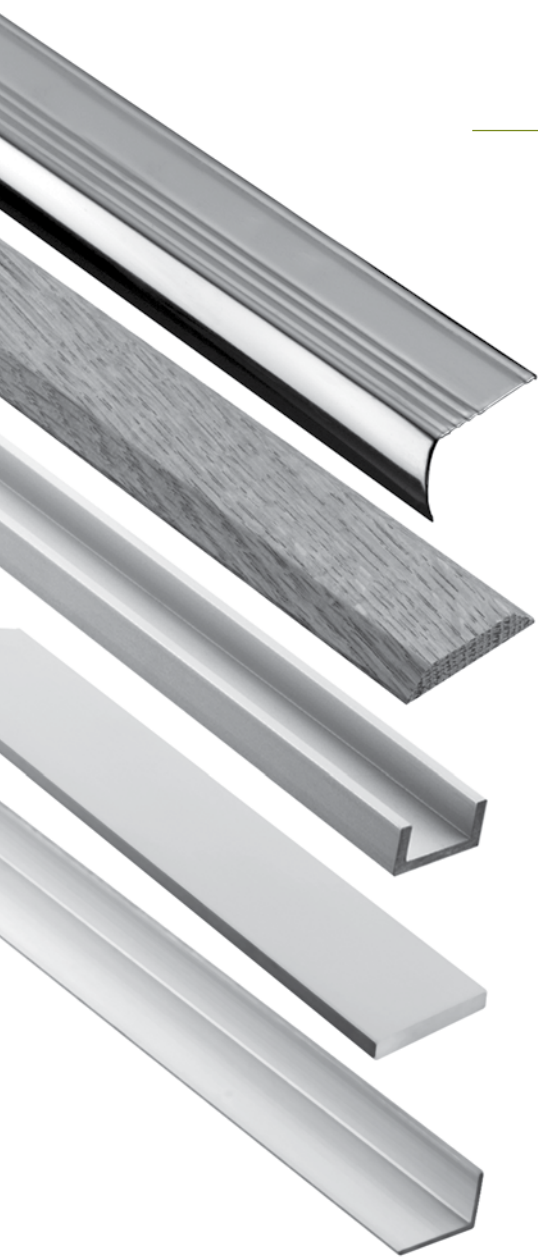


U-NOTCH



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FLOOR MOLDING, TRIM & HANDYSHAPES™

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2219.....	284	2905.....	286	2959.....	286
2219W.....	285	2909.....	286		
2250W.....	285	2913.....	286		

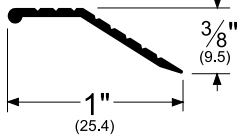
Carpet Bar - Standard

- Carpet Bars protect and provide a neat trim for the edge of carpet

2131_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

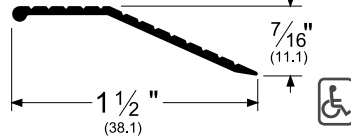
Provided with drive nails



2132_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

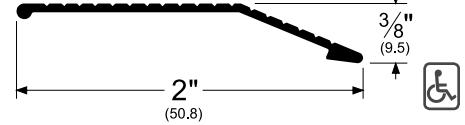
Provided with drive nails



2134_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

Provided with drive nails



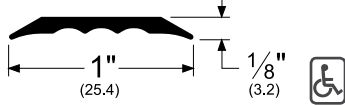
Seam Binding

- Covers seams and joins in linoleum, tile, carpet, and other floor coverings

2218_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

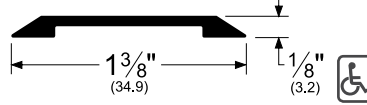
Provided with drive nails



2219_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

Provided with drive nails



Stair Nosing

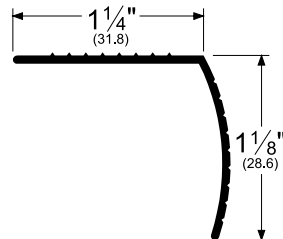
- Protects and improves the appearance of stair edges

2120_

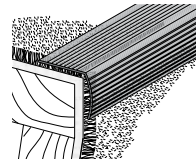
AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

Provided with drive nails

Ribbed top surface and fluted face



Typical Installation



2120_ shown installed

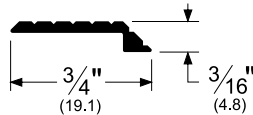
Edging

- Protects and provides neat trim for edge of linoleum, tile, and other floor coverings

2604_

AVAILABLE FINISHES: **A, G**
AVAILABLE LENGTHS: **36", 72"**

Provided with screw nails



Typical Installation



2604_ shown installed



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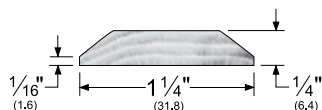
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **G** (Gold Anodized)

Oak Seam Binding

- Oak Seam Binding covers seams between wood, tile, linoleum and other surfaces

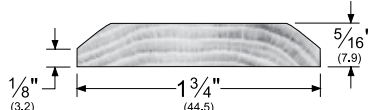
2219W

AVAILABLE LENGTHS: 36", 72"



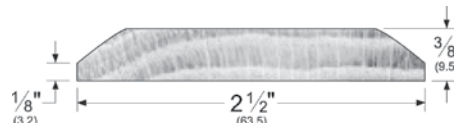
2175W

AVAILABLE LENGTHS: 36", 72"



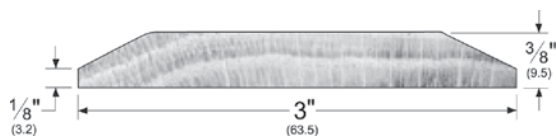
2250W

AVAILABLE LENGTHS: 36", 72"



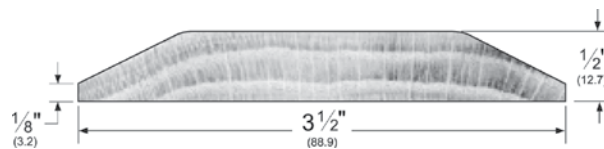
2300W

AVAILABLE LENGTHS: 36", 72"



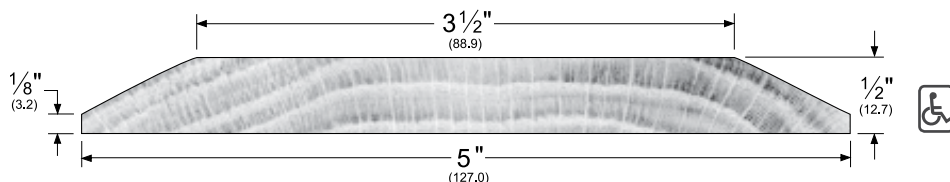
2350W

AVAILABLE LENGTH: 36"



2500W

AVAILABLE LENGTHS: 36", 72"

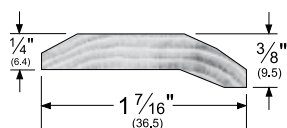


Oak Carpet Trim

- Oak Carpet Trim covers, protects and beautifies carpet edges
- Also covers seams between two surfaces of different height
- Oak is provided unfinished with countersunk holes and brass plated screws

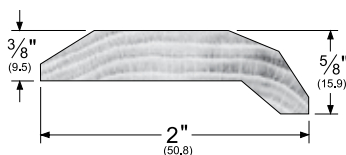
2132W

AVAILABLE FINISH: **W**
AVAILABLE LENGTHS: 36", 72"



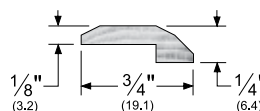
2133W

AVAILABLE FINISH: **W**
AVAILABLE LENGTHS: 36", 72"



2604W

AVAILABLE FINISH: **W**
AVAILABLE LENGTHS: 36", 72"



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

Oak Floor Edging

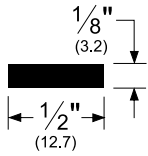
- Covers, protects, and provides a neat trim for edges of wood, tile, linoleum, and other surfaces
- Oak is provided unfinished with countersunk holes and brass plated screws



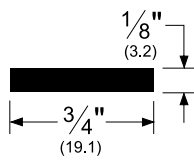
HandyShapes™ - Flat Bar

- Available in Clear Anodized Aluminum (C) in 96" lengths only

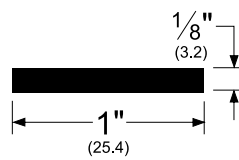
2945C96



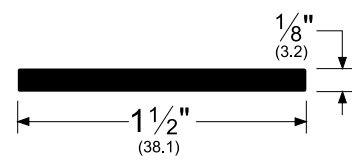
2949C96



2953C96



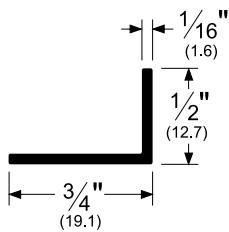
2959C96



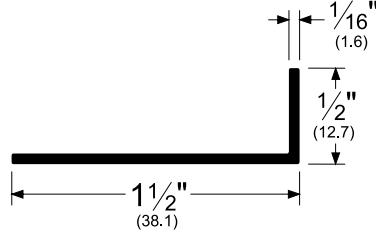
HandyShapes™ - Angles

- Available in Clear Anodized Aluminum (C) in 96" lengths only

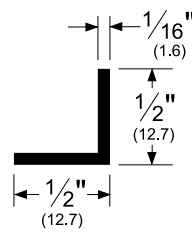
2897C96



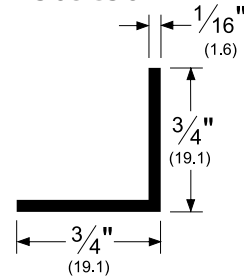
2899C96



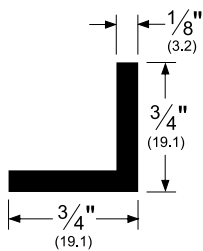
2901C96



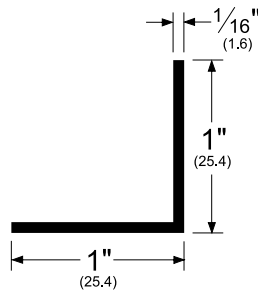
2905C96



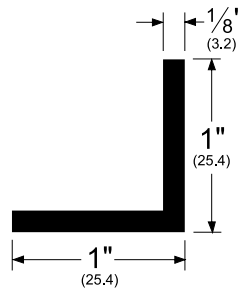
2909C96



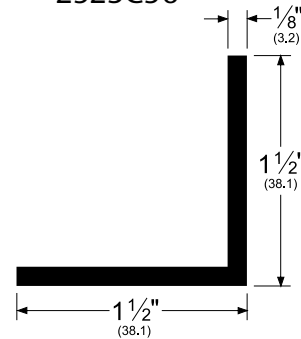
2913C96



2917C96



2925C96

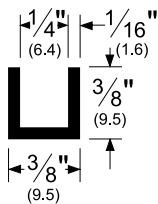


HandyShapes™

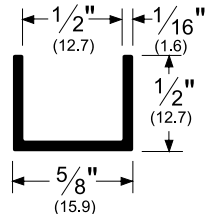
U-Channel

- Available in Clear Anodized Aluminum (C) in 72" and 96" lengths only

2933_



2937_



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

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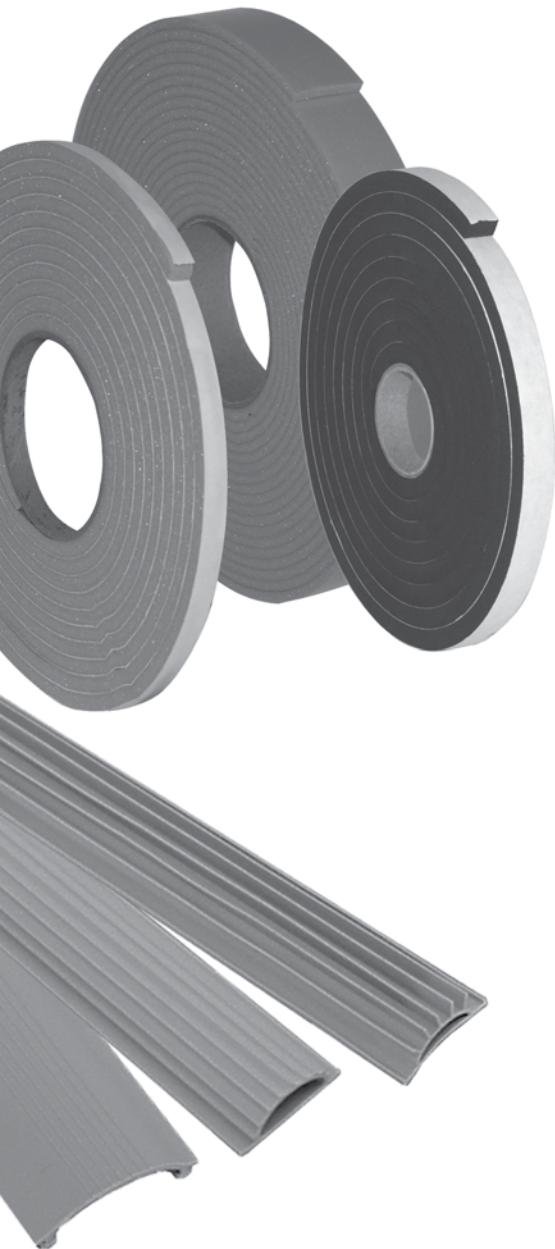
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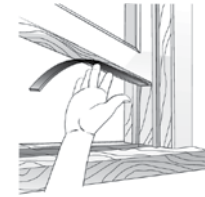


Open Cell Polyurethane Foam Tape

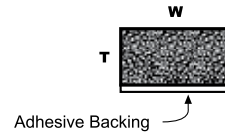
- Easily compressible self-adhesive weatherstrip

Product #	Color	Thickness (T)		Width (W)		Length
P390	Gray	3/16"	x	3/8"	x	17'
P391	White	1/4"	x	3/8"	x	17'
P392	Gray	3/8"	x	3/8"	x	17'
P393	Gray	1/2"	x	1/2"	x	17'
P394	Gray	1/2"	x	3/4"	x	17'
P396	Charcoal	1/4"	x	1/2"	x	17'
P397	White	1/8"	x	3/8"	x	17'
P398	Gray	1/4"	x	3/4"	x	17'

Suggested Installation



Open Cell Foam Tape installed on casement window.

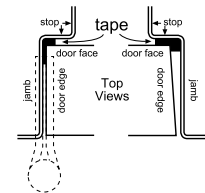


Closed Cell Soft PVC Foam Tape

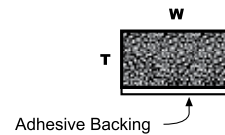
- Flexible, conformable, and softly compressible self-adhesive weatherstrip
- Highly resilient: resists ultraviolet, oxygen and moisture degradation
- Seals against air and water, around doors and windows

Product #	Color	Thickness (T)		Width (W)		Length
P240	Gray	1/8"	x	1/4"	x	17'
P241	Gray	3/16"	x	3/8"	x	17'
P241-30	Gray	3/16"	x	3/8"	x	30'
P242	Gray	1/4"	x	3/8"	x	17'
P243	Gray	3/8"	x	3/8"	x	17'
P244	Gray	3/8"	x	3/4"	x	17'

Suggested Installation



Top view of Closed Cell PVC Soft Foam Tape installed on door opening.

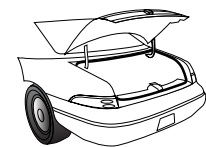


Closed Cell Firm PVC Foam Tape

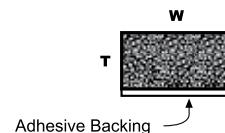
- Moderately compressible self-adhesive weatherstrip

Product #	Color	Thickness (T)		Width (W)		Length
P260	Black	1/8"	x	1/4"	x	17'
P261	Black	3/16"	x	3/8"	x	17'
P262	Black	3/16"	x	3/4"	x	17'
P263	Black	5/16"	x	3/8"	x	10'
P264	Black	5/16"	x	3/4"	x	10'
P265	Black	7/16"	x	3/8"	x	10'
P266	Black	7/16"	x	3/4"	x	10'
P385	Gray	1/4"	x	1/2"	x	10'
P386	Gray	1/4"	x	3/4"	x	10'

Suggested Installation



Closed Cell PVC Firm Foam Tape installed as car trunk weatherstrip.



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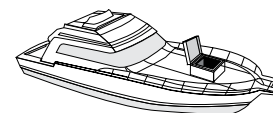
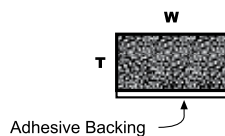
EPDM Sponge Neoprene Tape

- Slightly compressible self-adhesive weatherstrip
- Resists deterioration and remains flexible at sub-zero temperatures

Product #	Color	Thickness (T)		Width (W)		Length
P490	Gray	1/8"	x	3/8"	x	10'
P491	Gray	1/4"	x	3/8"	x	10'
P493	Gray	1/4"	x	1/2"	x	10'
P497	Gray	1/4"	x	3/4"	x	10'

- Superior product for weatherstripping doors, windows, hatchways, lids and covers

Suggested Installation



EPDM Sponge Neoprene Tape installed as boat hatch weatherstrip

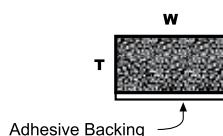
Closed Cell Sponge Neoprene Tape

- Superior product for weatherstripping homes, cars, trucks and boats

- Resists deterioration from oily substances
- Remains flexible at high and low temperatures

Product #	Color	Thickness (T)		Width (W)		Length
P380	Black	3/16"	x	3/8"	x	10'
P381	Black	5/16"	x	3/8"	x	10'
P382	Black	5/16"	x	3/4"	x	10'
P384	Black	7/16"	x	3/4"	x	10'
P387	Black	3/16"	x	3/4"	x	10'
P388	Black	5/16"	x	1/2"	x	10'
P484	Black	7/16"	x	3/8"	x	10'

Suggested Installation

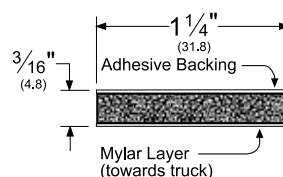


Closed Cell Sponge Neoprene Tape installed as car door weatherstrip.

Closed Cell Sponge Vinyl Camper Tape

- Mylar-backed tape cushions between camper and truck

Product #	Color	Thickness (T)		Width (W)		Length
P480	Gray	3/16"	x	1 1/4"	x	30'



Suggested Installation

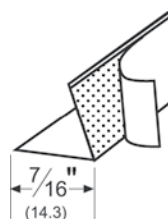


Sponge Vinyl Camper Tape installed as seal between camper and truck bed

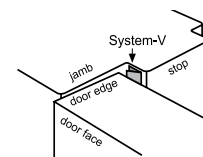
System-V Weatherstrip Tape

- Compression adhesive weatherstrip is easy to install and seals out air, dust and sound

Product #	Color	Width		Length
P39C17	Clear	7/8"	x	17'
P39C180	Clear	7/8"	x	180'



Suggested Installation



System-V Weatherstrip Tape installed onto door jamb stop

For more weatherstripping products (such as PK33, PK55 and S88) see pages AG-2 through AG-4 in the Adhesive Gasketing Section.

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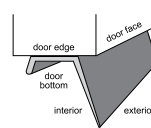
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Garage Door Weatherstrip

- All garage door weatherstrips are furnished with roofing nails

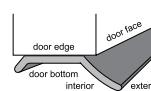
Product #	Color	Height		Width		Length
P361V16	Black	1½"	x	1"	x	16'
P364R16	Black	¾"	x	2¼"	x	16'
P365V16	Gray	1¾"	x	⅝"	x	16'
P366V16	Black	⅝"	x	½"	x	16'

P361V16



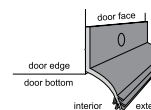
- Nails to door edge, bottom or jamb, closing gaps up to 1½"

P364R16



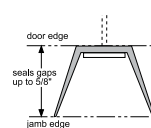
- Nails to door bottom, closing gaps up to ⅝"

P365V16



- Nails to door edge, bottom or face, closing gaps up to 1¾"

P366V16

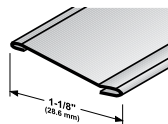


- Nails to door edge, jamb edge, or door bottom

Spring Bronze Weatherstrip

- For use on wood doors and wood casement windows
- .008" hemmed spring bronze (brass)
- Packaged with nails. Nails should be approximately 1½" on center

Product #	Material	Width		Length
P51B17	Bronze	1⅞"	x	17'

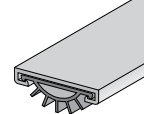


Replacement Eco-V™

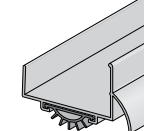
Door Shoe Replacement Eco-V™

Product #	Color	Used In (PEMKO Product Numbers):
PV9BL36	Black	210, 211, 215, 216, 217, 220, 221, 222, 234, 2211, 2221
PV9GR36	Gray	210, 211, 215, 216, 217, 220, 221, 222, 234, 2211, 2221
PV15GR36	Gray	209

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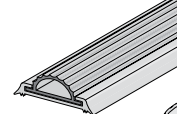
216



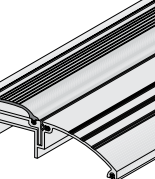
Threshold Replacement Eco-V™

Product #	Color	Used In (PEMKO Product Numbers):
PV11_36	Gray, Black	203, 204, 237 238
PV13_36	Gray, Black	208
PV22BL36	Black	206, 207
PV22GR36	Gray	206, 207
PV64GR36	Gray	249, 250
PV83TN36	Tan	203OAK, 204OAK, 208OAK

208



250



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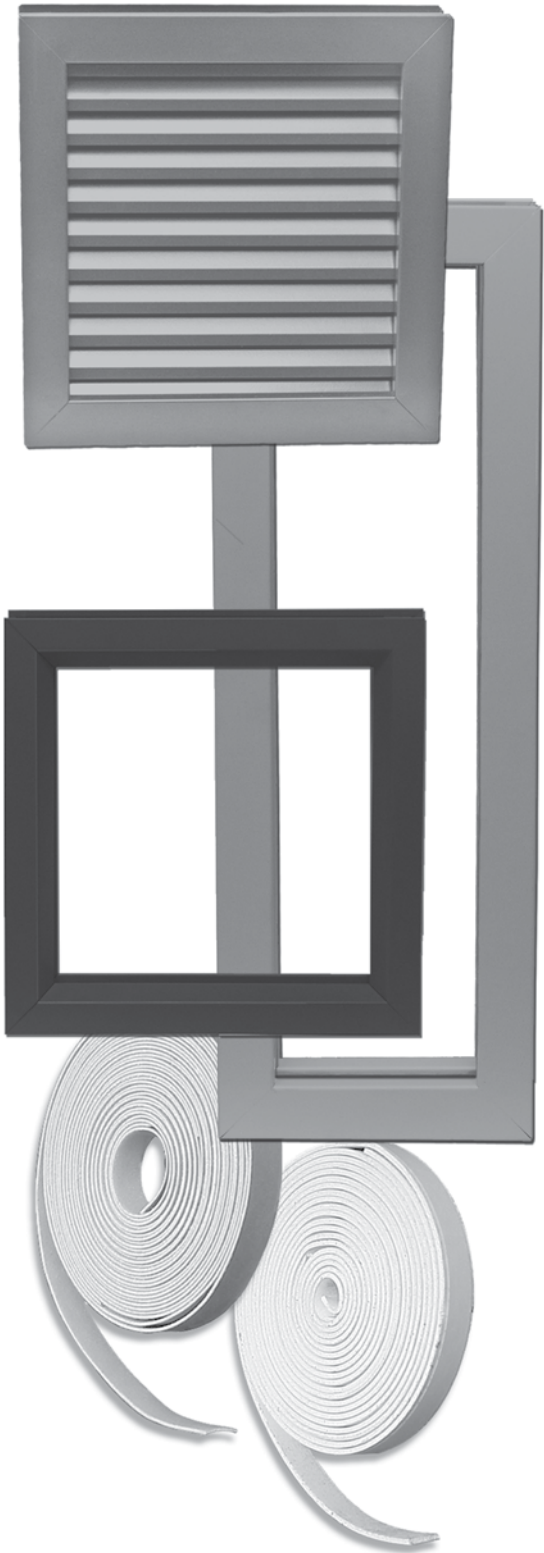
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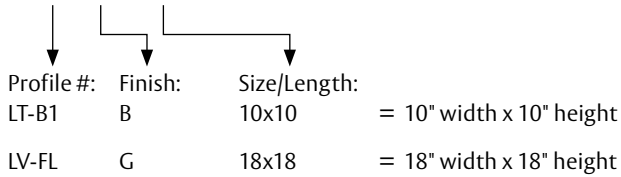
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Ordering Information

The following information is necessary for ordering (quantities are not included in product numbers):

Quantity Series Finish Size
10 LT-B1 B 3 x 33

Example: LT-B1 | B | 10X10 (Shown as LT-B1_ in catalog)



Specify exposed or cutout dimensions

Exposed Glass Dimensions		Cutout Dimensions	
LT-B1	10" x 10"	CO-B1	12" x 12"
LT-B1	16" x 16"	CO-B1	18" x 18"
LT-B1	5" x 20"	CO-B1	7" x 22"
LT-B1	22" x 22"	CO-B1	24" x 24"
LT-B1	4" x 25"	CO-B1	6" x 27"
LT-B1	16" x 28"	CO-B1	18" x 30"
LT-B1	22" x 28"	CO-B1	24" x 30"
LT-B1	6" x 30"	CO-B1	8" x 32"
LT-B1	22" x 30"	CO-B1	24" x 32"
LT-B1	22" x 32"	CO-B1	24" x 34"
LT-B1	3" x 33"	CO-B1	5" x 35"
LT-B1	16" x 34"	CO-B1	18" x 36"
LT-B1	22" x 34"	CO-B1	24" x 36"
LT-B1	22" x 58"	CO-B1	24" x 60"

Features/Finishes

PEMKO lites and louvers are finished with polyester resin powder coat in the following standard colors:

B - Beige

D - Dark Bronze Duranodic

G - Gray Primer

- Other colors are available. Sample chip required for color match
- PEMKO lites and louvers are made from A40 galvanized steel for additional corrosion protection

Options

- Security Fasteners
- Security Grilles (Square Kits ONLY)
- 304 Stainless Steel with #4 finish

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Low Profile - Beveled Lite Kit

The LT-B1 Lite Kit provides a wide viewing angle. For use with glazing material requiring a $\frac{3}{8}$ " pocket in $1\frac{3}{4}$ " wood or metal doors. The LT-B1 installs without drilling holes through the door for quick installation. The hemmed design is a flush mounted assembly and is ideal for clean environments.

LT-B1_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

20 gauge galvanized hemmed design with $\frac{3}{8}$ " glazing pocket

Fasteners:

#8 x $1\frac{3}{4}$ " O.H.S.M.S.

Dimensions:

- Minimum width - 2" exposed glass
- Maximum height - 80" exposed glass

Other:

- Mitered and welded clean corner construction
- 37° beveled glass stops

Fire Rating:

Classified in accordance with UBC code standard 7-2 for positive pressure



Optional Features:

Materials:

304 - #4 stainless steel in 20 gauge material

Finish:

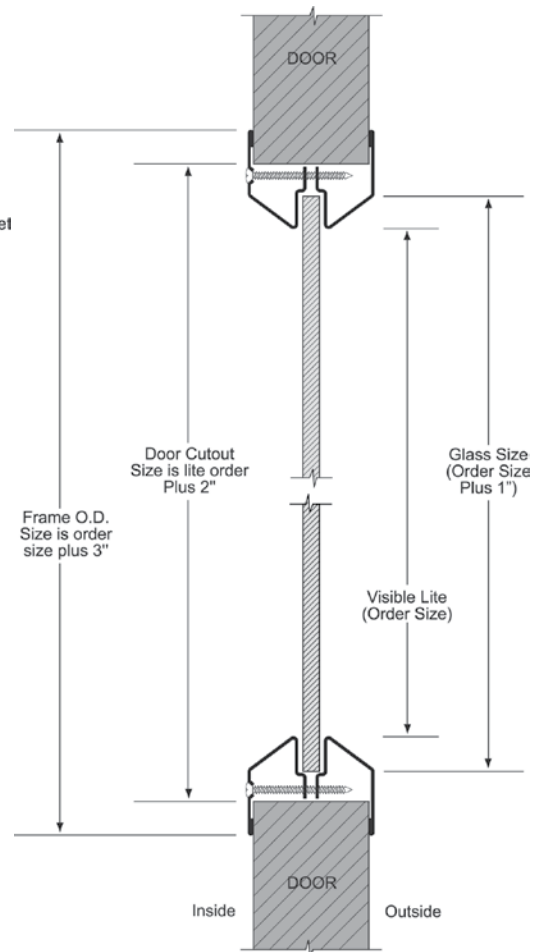
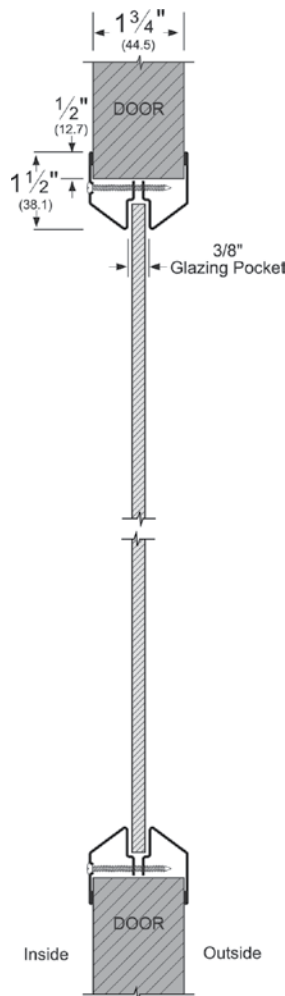
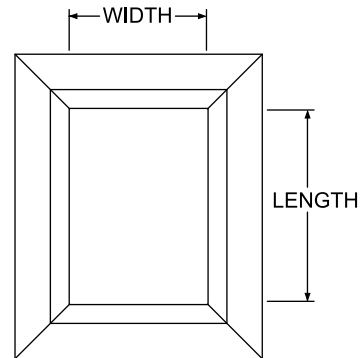
Custom powder coated finishes (sample chip must accompany order)

Fasteners:

Security fasteners

Other:

- Glazing tape
- Custom glass sizes



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) **D** (Dark Bronze Duranodic Powder Coat) **G** (Gray Primer Powder Coat)

Low Profile - Beveled Lite Kit (Cont.)

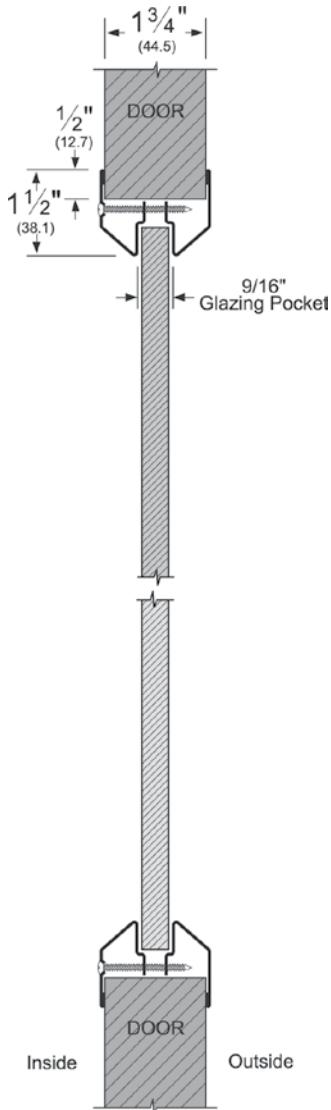
LT-B2_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

20 gauge galvanized hemless design with $\frac{9}{16}$ " glazing pocket



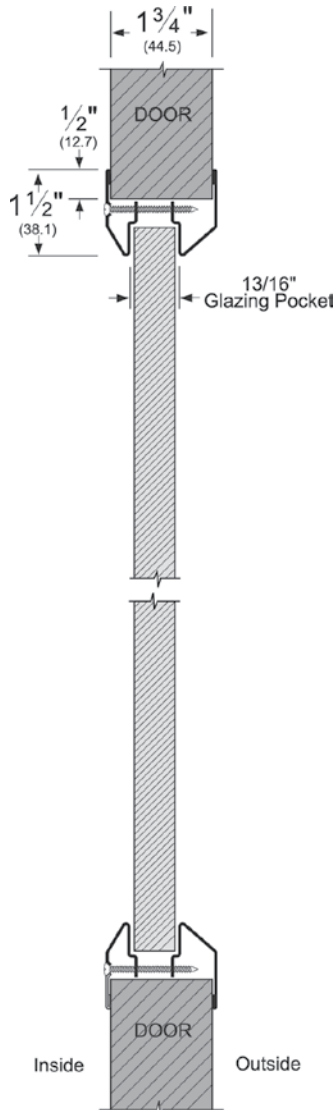
LT-B3_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

20 gauge galvanized hemless design with $\frac{13}{16}$ " glazing pocket



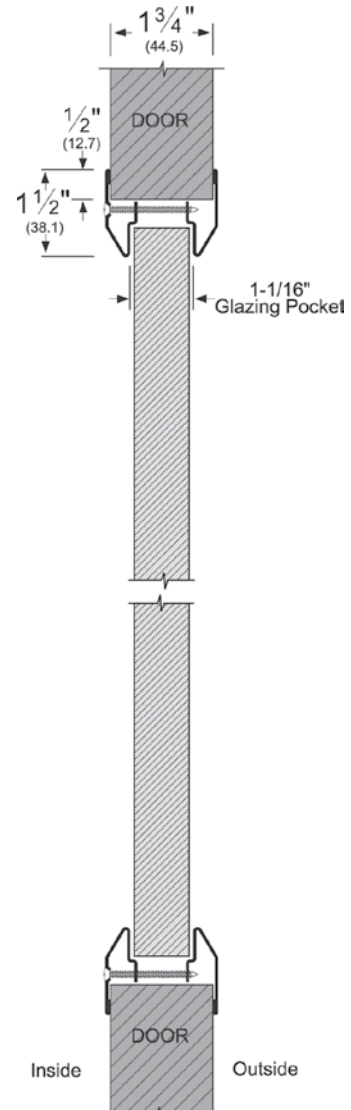
LT-B4_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

20 gauge galvanized hemless design with $\frac{1}{16}$ " glazing pocket



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) **D** (Dark Bronze Duranodic Powder Coat) **G** (Gray Primer Powder Coat)

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Low Profile - 90° Lite Kit

The LT-S1 Lite Kit provides a wide viewing angle. For use with glazing material requiring a $\frac{3}{8}$ " pocket in $1\frac{3}{4}$ " wood or metal doors. The LT-S1 installs without drilling holes through the door for quick installation. The hemless design is a flush mounted assembly and is ideal for clean environments.

LT-S1_

AVAILABLE FINISHES: B, D, G

Standard Features

Materials:

20 gauge galvanized steel for width $\frac{3}{8}$ " glazing pocket

Fasteners:

#8 x $1\frac{3}{4}$ " O.H.S.M.S.

Dimensions:

- Minimum width - 2" exposed glass
- Maximum height - 80" exposed glass

Other:

- Mitered and welded clean corner construction
- 90° square glass stop

Fire Rating:

Classified in accordance with UBC code standard 7-2 for positive pressure



Optional Features

Materials:

304 - #4 stainless steel in 20 gauge material

Finish:

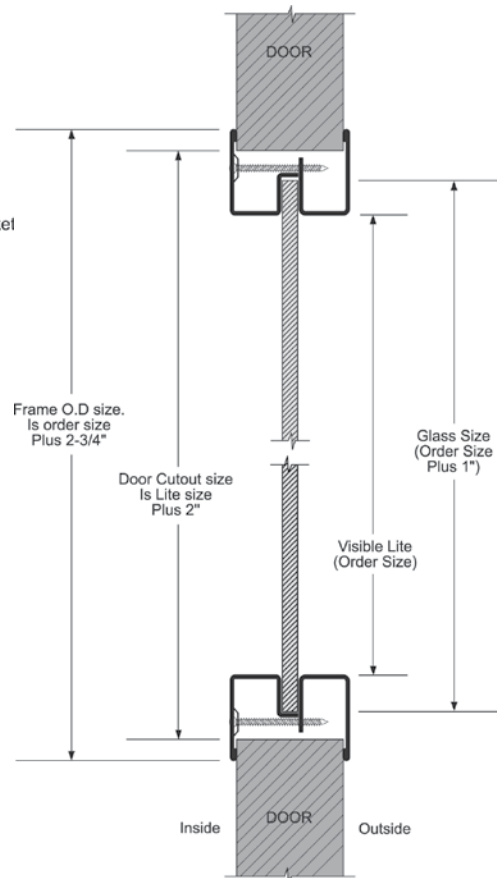
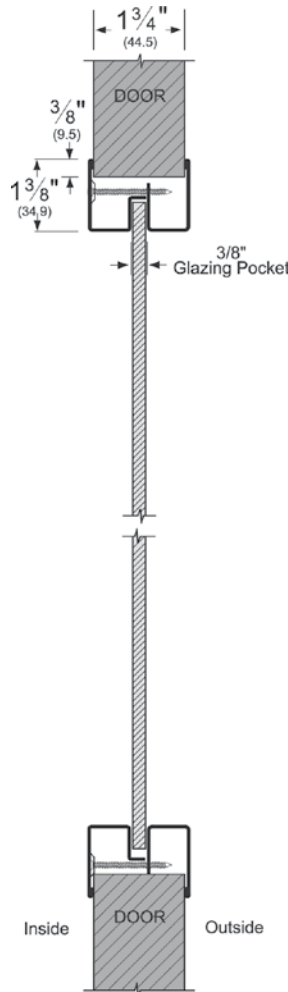
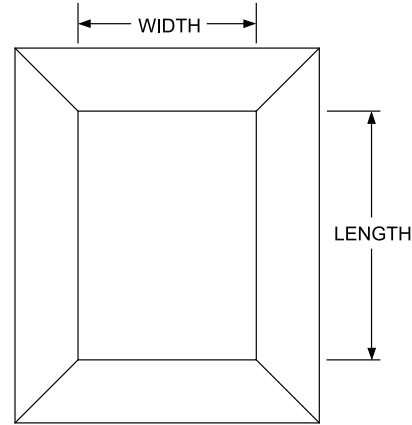
Custom powder coated finishes
(sample chip must accompany order)

Fasteners:

Security fasteners

Other:

- Vision lites
(supplied on both sides, standard)
- Glazing tape
- Custom glass sizes



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) D (Dark Bronze Duranodic Powder Coat) G (Gray Primer Powder Coat)

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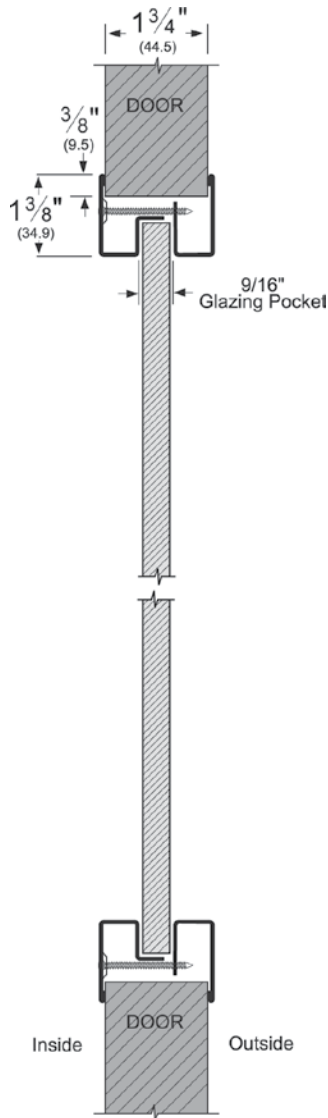
Low Profile - 90° Lite Kit (Cont.)

LT-S2_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

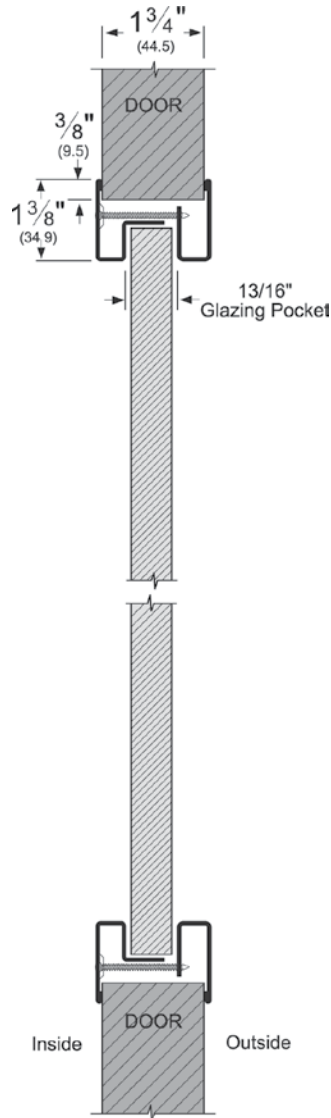
20 gauge galvanized steel
with $\frac{9}{16}$ " glazing pocket

LT-S3_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

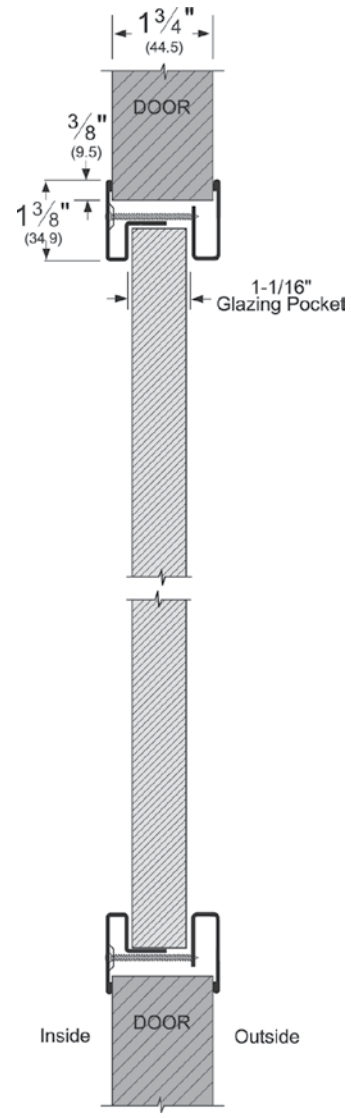
20 gauge galvanized steel
with $\frac{13}{16}$ " glazing pocket

LT-S4_

AVAILABLE FINISHES: **B, D, G**

Standard Features

Materials:

20 gauge galvanized steel
with $1\frac{1}{16}$ " glazing pocket

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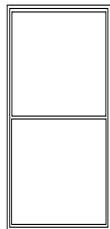
The global leader in
door opening solutionsAVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) **D** (Dark Bronze Duranodic Powder Coat) **G** (Gray Primer Powder Coat)Copyright © 2015, Pemko Manufacturing Co., an ASSA ABLOY Group company. All rights reserved.
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Grills/Vision Lites For LT-S1 through LT-S4 Lites

These products are for the LT-S_ series only.

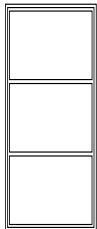
G-2

AVAILABLE FINISHES:
B, D, G



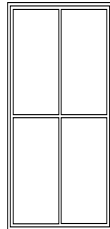
G-3

AVAILABLE FINISHES:
B, D, G



G-4

AVAILABLE FINISHES:
B, D, G



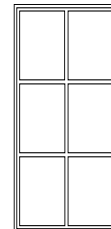
G-5

AVAILABLE FINISHES:
B, D, G



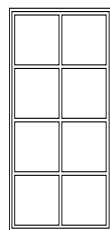
G-6

AVAILABLE FINISHES:
B, D, G



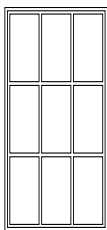
G-8

AVAILABLE FINISHES:
B, D, G



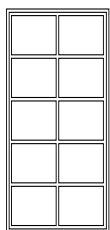
G-9

AVAILABLE FINISHES:
B, D, G



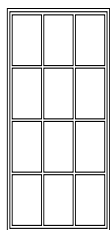
G-10

AVAILABLE FINISHES:
B, D, G



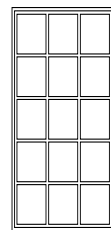
G-12

AVAILABLE FINISHES:
B, D, G



G-15

AVAILABLE FINISHES:
B, D, G



Standard Features

Materials:

- Vision Lites: 20 gauge galvanized steel
- Muntins: 18 gauge C.R.S. 1/2" x 1/2" steel tube

Door Thickness:

For 1 3/4" doors only

Optional Features

Finish:

Custom powder coated finishes
(sample chip must accompany order)

Fasteners:

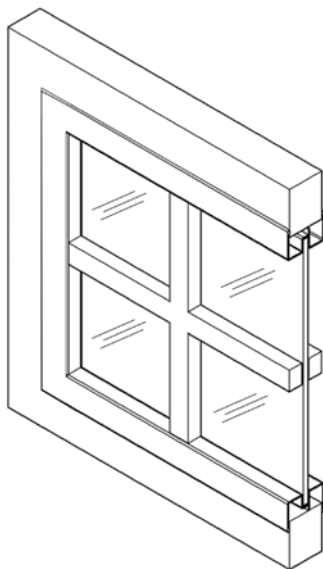
Special security screws available

Other:

Customized grille patterns

Vision Lites:

Only for use in LT-S1 to LT-S4 ("S" Series)



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) **D** (Dark Bronze Duranodic Powder Coat) **G** (Gray Primer Powder Coat)

Inverted "Y" Louver

The LV-IY louver for use with 1 $\frac{3}{4}$ " wood or metal doors provides 50% free air flow. The 20 gauge inverted "Y" blades add stiffness and a burr-free exposed edge. The 18 gauge galvanized mitered frame secures the grill assembly in place giving it a clean appearance.

LV-IY_

AVAILABLE FINISHES:
B, D, G

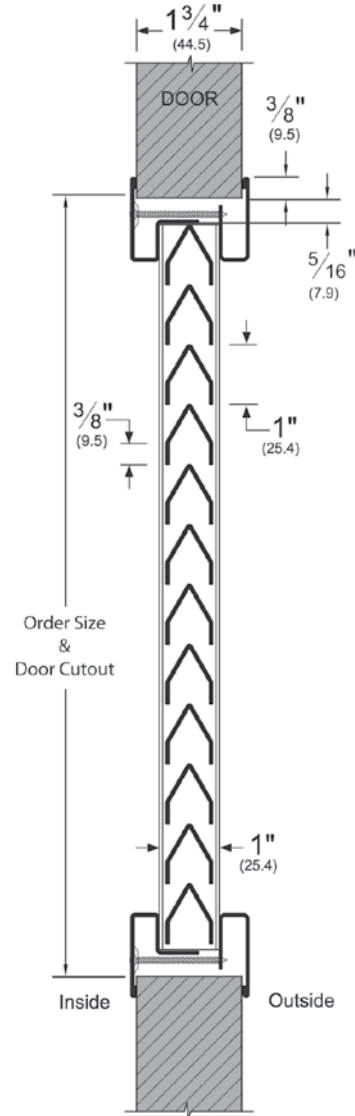


Standard Features

- 18 gauge galvanized frame
- 20 gauge galvanized inverted "Y" blades
- For 1 $\frac{3}{4}$ " doors
- 50% Free air flow
- #8 - 15" x 1 $\frac{3}{4}$ " O.H.S.M.S.
- Welded corner construction

Optional Features

- 304 - #4 stainless steel
- Louver core only
- Security screws
- Security grilles
- Insect screens
- Custom powder coated finishes (sample chip must accompany order)



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) D (Dark Bronze Duranodic Powder Coat) G (Gray Primer Powder Coat)

Fusible Link Louver

The LV-FL louver is for use with 1 $\frac{3}{4}$ " wood or metal doors and provides 50% free air flow while fastening to one side to ensure security.

LV-FL_

AVAILABLE FINISHES:
B, D, G



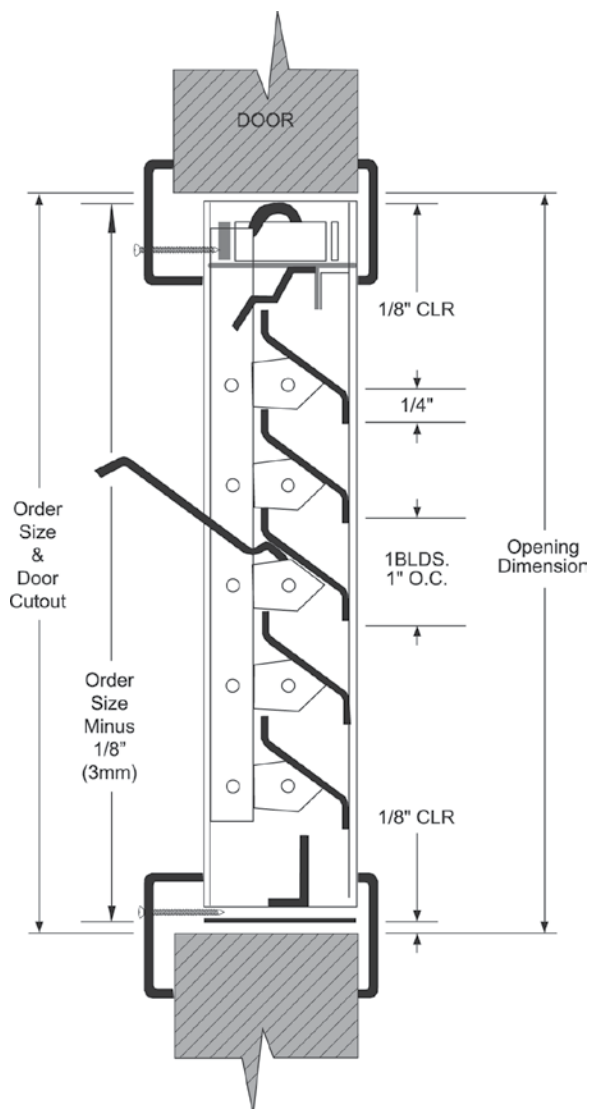
Standard Features

- 18 gauge galvanized frame
- 16 gauge adjustable "Z" blades
- For 1 $\frac{3}{4}$ " doors
- 50% Free air flow
- #8 - 15 x 1" O.H.S.M.S.
- UL listed



Optional Features

- Security screws
- Custom powder coated finishes (sample chip must accompany order)



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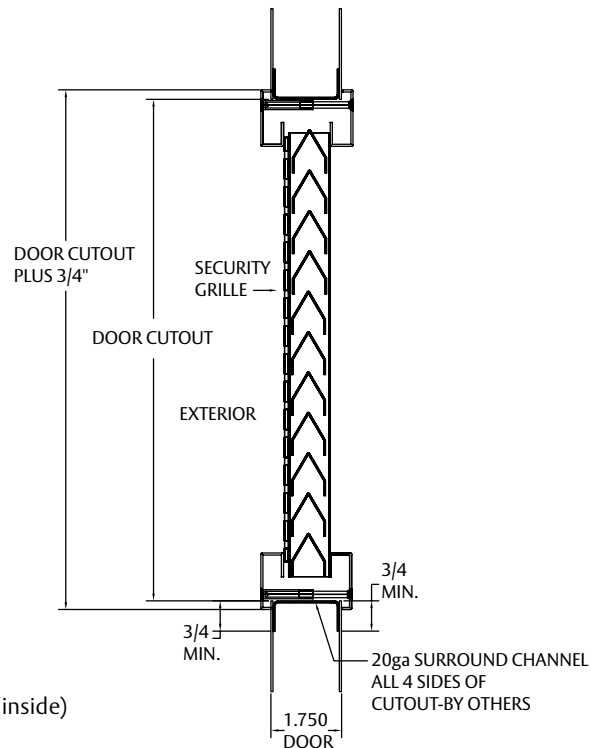
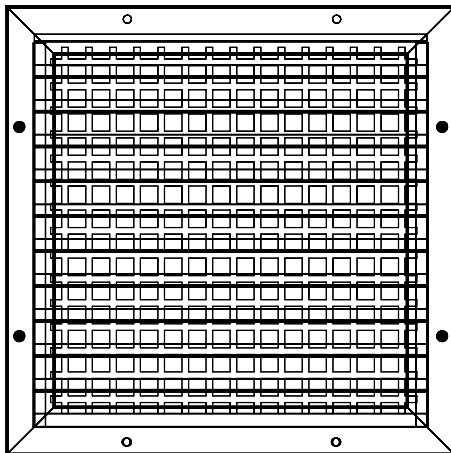
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Windstorm Louver

The LV-WS Windstorm Louver is for use with 1³/₄" exterior doors and provides 50% free air flow. The 18 gauge inverted "Y" blades add stiffness and a burr-free exposed edge. The 18 gauge galvanized mitered frame secures the grill assembly in place giving it a clean appearance.

LV-WS_

AVAILABLE FINISHES:
B, D, G



Standard Features

- 18 gauge galvanized frame
- 18 gauge inverted "Y" blades
- For 1³/₄" doors
- 50% Free air flow
- Fasteners #8 x 1/2" flat head machine screws (inside)
- #8 x 1⁵/₁₆" threaded sleeve (outside)
- Welded corner construction

Optional Features

- Insect screens
- Custom powder coated finishes (sample chip must accompany order)

Standards

- UL Certification File #R26694. Successfully tested in accordance with ASTM E1886, E1996, TAS 201
- Large Missile Impact, 350 Ft. Lbs., +/- 70 psf and ASTM E330, TAS 202, TAS 203, +/- 70 psf
- Florida Building Code Hurricane Approval File # FL14267.1
- Design Pressure: +/- 70 psf, large missile



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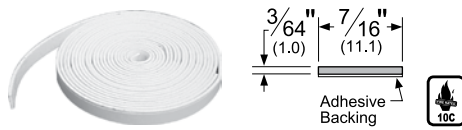
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Beige Powder Coat) **D** (Dark Bronze Duranodic Powder Coat) **G** (Gray Primer Powder Coat)

Fire Glazing Tape

- Verify all applications with your door and/or frame manufacturer
- **FG3000S45** and **FG3000S90** are specially formulated high-performance fire glazing tapes
- For exterior fire-rated applications, seal against moisture using standard industry methods

FG3000S45

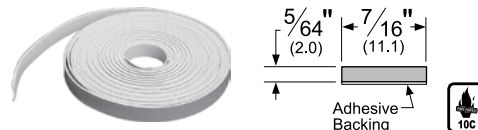
AVAILABLE LENGTHS: 7', 8', 14', 16'



Color: White

FG3000S90

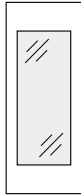
AVAILABLE LENGTHS: 8', 16'



Color: White

Fire Glazing Tape in Larger Lite Applications

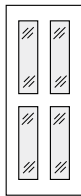
Single Vision Lites (Wood/Hollow Metal Door)



Maximum Height: 84"
Maximum Width: 34"
Maximum Total Square Inches
(Visible Glass Area): 2,856

- In 20-, 45-, 60- and 90-minute rated wood and hollow metal doors with metal vision frames, the use of FG3000 fire glazing tape allows for much larger vision lites
- In 20- and 45-minute rated hollow metal screens, the use of FG3000 fire glazing tape allows for much larger sidelites, borrowed lites and glass transoms
- New allowable visible glass areas for vision lites in 20- and 45-minute rated wood and hollow metal doors with FG3000S45 is 2,856 square inches with a maximum height of 84" and a maximum width of 34"

Multiple Vision Lites (Hollow Metal Door)



Maximum Height (Each Lite): 12"
Maximum Width (Each Lite): 46"
Maximum Combined Square Inches
(All Visible Glass Areas): 2,208

- For 90-minute hollow metal doors with FG3000 fire glazing tape, 12" x 46" vision lites are allowed, but the total number of lites must not exceed four (4) per door. The combined total visible glass area allowed is 2208 square inches

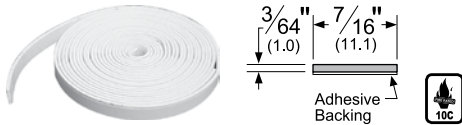
FG3000S45 Fire Glazing Tape in 20- and 45-Minute Hollow Metal Frame (Screen)

Sidelite/Borrowed Lite/Transom Lite Applications

- Verify all applications with your door and/or frame manufacturer
- For exterior fire-rated applications, a clear silicone caulk is recommended for water proofing

FG3000S45

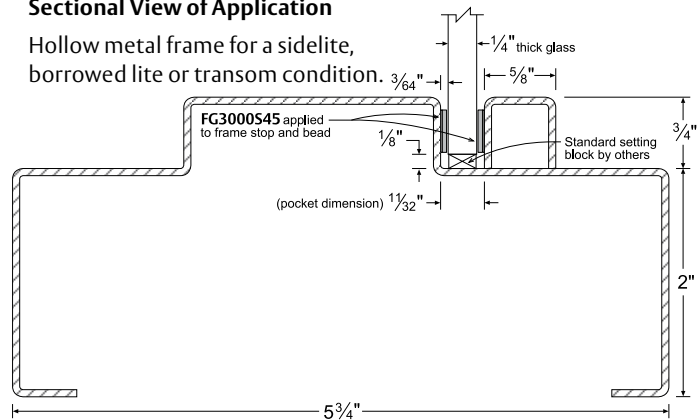
AVAILABLE LENGTHS: 7', 8', 14', 16'



Color: White

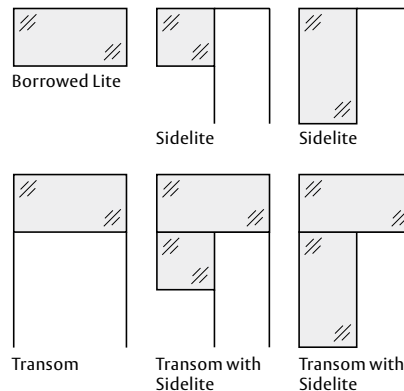
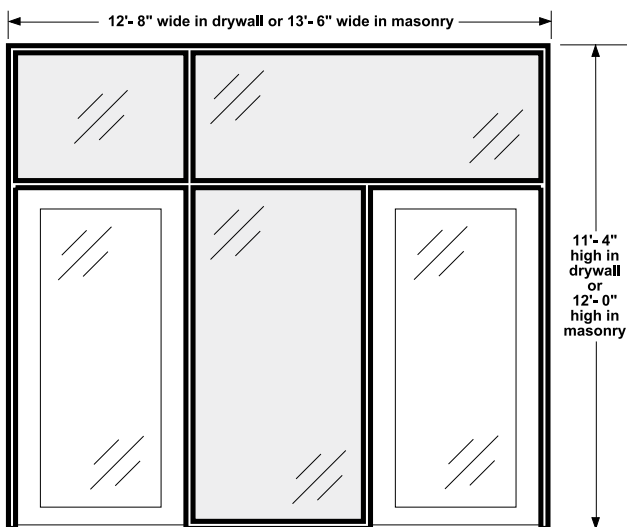
Sectional View of Application

Hollow metal frame for a sidelite, borrowed lite or transom condition.



Technical Data for 20- And 45-Minute Hollow Metal Screens Equipped with FG3000S45 (Sidelite/Borrowed Lite/Transom Lite Applications)

Lite Configurations



The maximum visible glass area allowed for side lites, borrowed lites, and glass transoms is 4,704 square inches with a maximum length of 106" in any one direction.

Lite Specifications	Hollow Metal Screen Specifications	Listing/Labeling Specifications
<p>Maximum Lite Size: 106" In Any One Direction</p> <p>Maximum Lite Combined Square Inches: Not To Exceed 4,704</p>	<p>Maximum Dimensions (Drywall): 12'8" X 11'4"</p> <p>Maximum Dimensions (Masonry): 13'6" X 12'0"</p> <p>Metal Requirements: Frames are restricted to a minimum of 16-gauge with 5/8" high stops and 18-gauge glazing bead with #8 fasteners at 9" maximum centers</p>	<ul style="list-style-type: none"> • Door and frame must be manufactured by companies that are classified by Underwriters Laboratories Inc.® for the manufacturing and labeling of hollow metal fire doors. Warnock Hersey (I.T.S.) listings are also available through participating hollow metal manufacturers • Listed Glazing Products include: <ul style="list-style-type: none"> – Wire Glazing: Pilkington, Asahi and Central Glass • All vision lite kits must be listed fire door glass frames, packaged with FG3000S45 or FG3000S90 • Individual door and frame manufacturers' modification procedures may vary slightly from the size listings shown

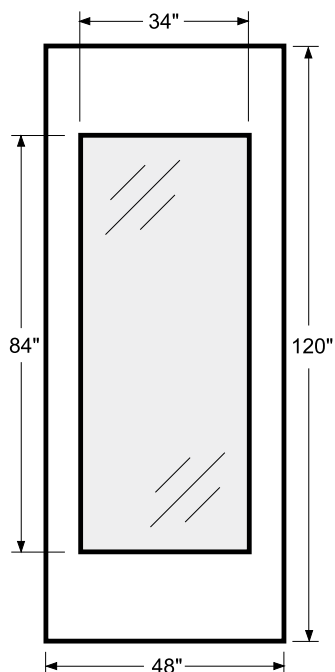


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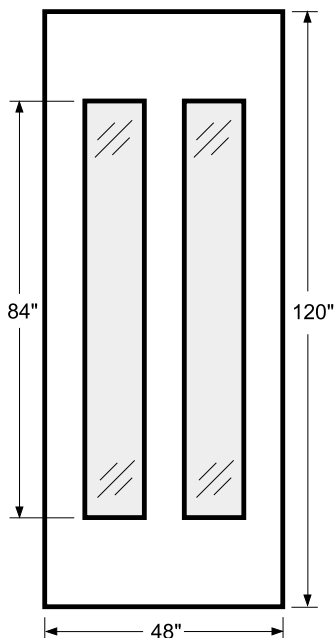
FG3000S45 Fire Glazing Tape in 20- and 45-Minute Hollow Metal Door

Metal Vision Frame Applications

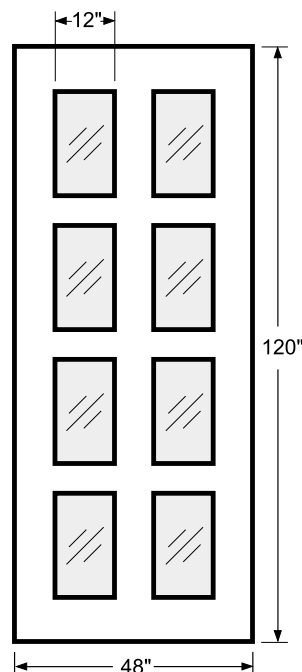
- Maximum hollow metal door size: 48" x 120" single, pairs approved
- Door and frame must be manufactured by companies that are classified by Underwriters Laboratories Inc.® for the manufacturing and labeling of hollow metal fire doors and frames. Warnock-Hersey (I.T.S.) listings are also available through participating hollow metal manufacturers
- For exterior fire rated applications, seal against moisture using standard industry methods
- Verify all applications with your door and/or frame manufacturer



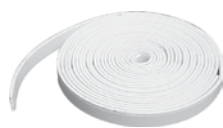
For 20 minute and 45 minute the maximum visible glass size allowed is 34" wide x 84" high or 2,856 square inches per vision lite.



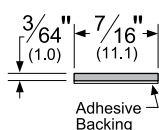
Multiple vision lites are allowed in both the 20 minute and 45 minute, but the combined total visible glass area allowed is 2,856 square inches per door.



FG3000S45

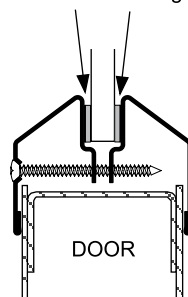


Color: White



Sectional View of Applications

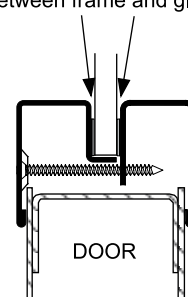
FG3000S45 applied between frame and glass



Beveled



FG3000S45 applied between frame and glass



Square



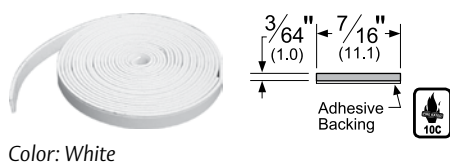
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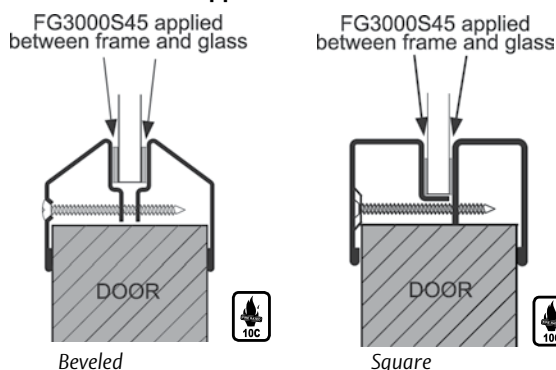
FG3000S45 Fire Glazing Tape in 20- and 45-Minute Wood Door

Metal Vision Frame Applications

FG3000S45

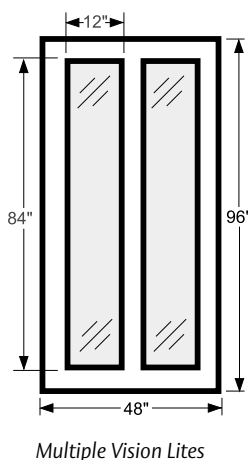
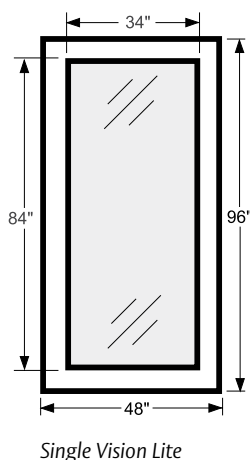


Sectional View of Applications



Technical Data for 20- And 45-Minute Wood Doors Equipped with FG3000S45 (Metal Vision Frame, Single and Multiple Lite Applications)

Lite Configurations



The maximum visible glass area allowed for single lites is 34" wide x 84" high; for single and multiple lites, the total visible glass area allowed is 2,856 square inches per door.

Lite Specifications	Door Specification	Listing/Labeling Specifications
Maximum Dimensions (Single Lite): 34" wide x 84" high, 2,856 square inches per lite Maximum Combined Dimensions (Multiple Lites): Multiple vision lites are allowed in both the 20- and 45-minute doors, but the combined total visible glass area allowed is 2,856 square inches per door.	Maximum Dimensions: Or both 20- and 45-minute doors, the maximum wood door size is 48" x 96" single, pairs approved	<ul style="list-style-type: none"> Door and frame must be manufactured by companies that are classified by Underwriters Laboratories Inc.® for the manufacturing and labeling of hollow metal fire doors. Warnock Hersey (I.T.S.) listings are also available through participating hollow metal manufacturers Listed Glazing Products include: <ul style="list-style-type: none"> Wire Glazing: Pilkington, Asahi and Central Glass Individual door and frame manufacturers' modification procedures may vary slightly from the size listings shown

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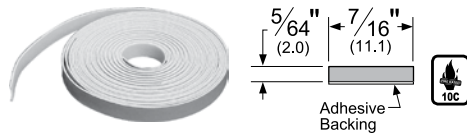
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FG3000S90 Fire Glazing Tape in 90-Minute Hollow Metal Door Metal Vision Frame Applications

- Verify all applications with your door and/or frame manufacturer
- For exterior fire-rated applications, seal against moisture using industry standard methods

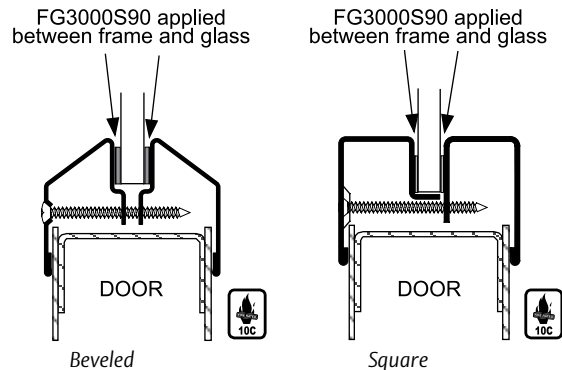
FG3000S90

AVAILABLE LENGTHS: 8', 16'



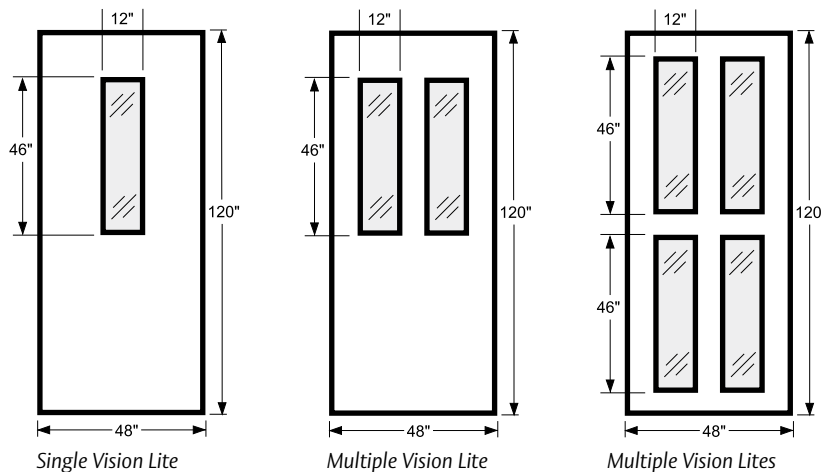
Color: White

Sectional View of Applications



Technical Data for 90-Minute Hollow Metal Doors Equipped with FG3000S90 (Metal Vision Frame, Single And Multiple Lite Applications)

Lite Configurations



The maximum visible glass area allowed for single lites is 12" wide x 46" high or 552 square inches per vision lite; for multiple lites, the largest approved door configuration is two (2) vision lites at 12" wide x 46" high above two (2) vision lites at 12" wide x 46" high (as shown at far right). No more than four (4) lites are allowed per door, and the combined total visible glass area allowed is 2,208 square inches per door.

Lite Specifications	Door Specification	Listing/Labeling Specifications
<p>Maximum Dimensions (Single Lite): 12" wide x 46" high, 552 square inches per lite</p> <p>Maximum Combined Dimensions (Multiple Lites): Multiple vision lites are allowed in 90-minute doors, but the combined total visible glass area allowed is 2,208 square inches per door. No more than four (4) lites are allowed per door. The largest approved configuration is above two (2) vision lites at 12" wide x 46" high above two vision lites at 12" wide x 46" high.</p>	<p>Maximum Dimensions: For 90-minute doors, the maximum hollow metal door size is 48" x 120" single, pairs approved.</p>	<ul style="list-style-type: none"> • Door and frame must be manufactured by companies that are classified by Underwriters Laboratories Inc.® for the manufacturing and labeling of hollow metal fire doors. Warnock Hersey (I.T.S.) listings are also available through participating hollow metal manufacturers • Listed Glazing Products include: <ul style="list-style-type: none"> – Wire Glazing: Pilkington, Asahi and Central Glass • Individual door and frame manufacturers' modification procedures may vary slightly from the size listings shown.

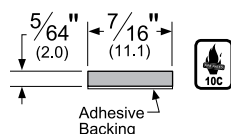
FG3000S90 Fire Glazing Tape in 60- and 90-Minute Wood Doors

Metal Vision Frame Applications

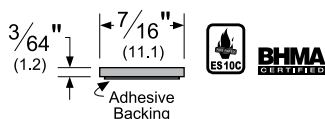
- Verify all applications with your door and/or frame manufacturer
- For exterior fire-rated applications, a clear silicone caulk is recommended for water proofing

FG3000S90

AVAILABLE LENGTHS: 8', 16'

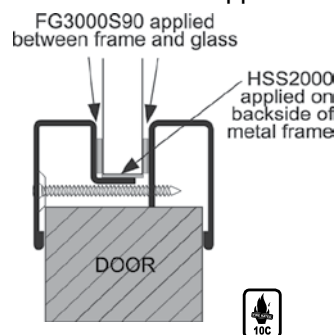


HSS2000



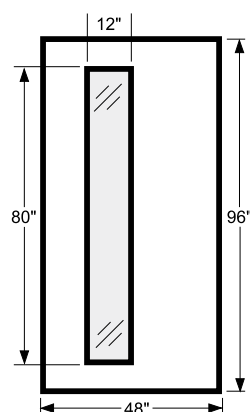
HSS2000 is required to be installed with FG3000S90 for positive pressure applications only. For more information about HSS2000, please see the Adhesive Gasketing section.

Sectional View of Applications

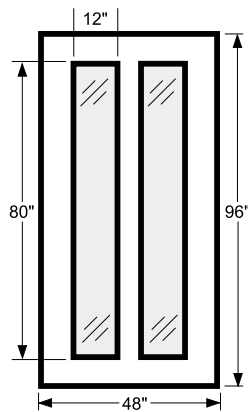


Technical Data for 60- and 90-Minute Wood Doors Equipped with FG3000S90 & HSS2000 (Metal Vision Frame, Single and Multiple Lite Applications)

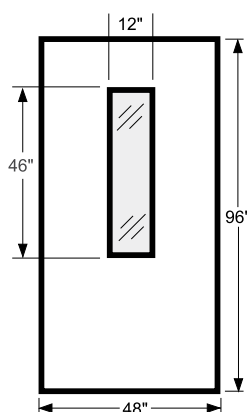
Lite Configurations



Single Vision Lite,
60-Minute Door



Multiple Vision Lites,
60-Minute Door



Single Vision Lite,
90-Minute Door

The maximum visible glass area allowed for 60-minute single lites is 12" wide x 80" high or 960 square inches per vision lite; 90-minute doors are allowed a maximum visible glass area of 12" wide x 46" high or 552 square inches per vision lite. Multiple lites (allowed on 60-minute doors only) have a maximum combined visible glass area of 1,920 square inches per door.

Lite Specifications	Door Specification	Listing/Labeling Specifications
<p>Maximum Dimensions (Single Lite, 60-Minute): 12" wide x 80" high; 960 square inches per lite</p> <p>Maximum Dimensions (Single Lite, 90-Minute): 12" wide x 46" high; 552 square inches per lite</p> <p>Maximum Combined Dimensions (Multiple Lites, 60-Minute): Multiple vision lites are allowed in 60-minute doors only; the combined total visible glass area allowed is 1,920 square inches per door</p>	<p>Maximum Dimensions: For both 60- and 90-minute doors, the maximum wood door size is 48" x 96" single, pairs approved</p>	<ul style="list-style-type: none"> • Door must be manufactured by companies that are classified by Underwriters Laboratories Inc.® for the manufacturing and labeling of hollow metal fire doors. Warnock Hersey (I.T.S.) listings are also available through participating hollow metal manufacturers. • Listed Glazing Products include: <ul style="list-style-type: none"> – Wire Glazing: Pilkington, Asahi and Central Glass • Individual door and frame manufacturers' modification procedures may vary slightly from the size listings shown • HSS2000 is required on Positive Pressure applications only

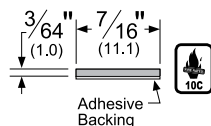
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FG3000S45 Fire Glazing Tape in 20- and 45-Minute Wood Doors and Frames

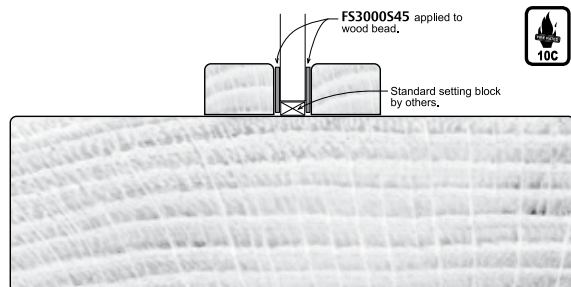
FG3000S45

AVAILABLE LENGTHS:
7', 8', 14', 16'



- Verify all applications with your door and/or frame manufacturer
- For exterior fire-rated applications, seal against moisture using standard industry methods
- Wood vision frames rated 20-minute and 45-minute
- Wood sidelite frames rated 20-minute and 45-minute
- Wood borrowed lite frames rated 20-minute and 45-minute

Technical Data for 20-Minute Wood Sidelite Frame/Wood Lite Bead/Clear Tempered Glass



Maximum Visible Glazing Dimensions (Sidelite):

32^{7/8}" x 87^{13/16}"

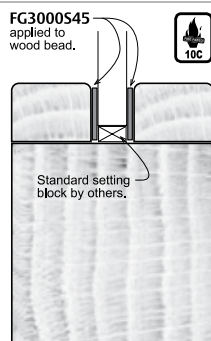
Glazing Materials (Sidelite):

- PyroEdge 20™ by Interedge Technologies
- Fireglass 20™ by Technical Glass Products

Listing/Labeling Specifications:

- Positive Pressure Tested and Listed
- Verify availability with door and frame manufacturer

Technical Data For 20-Minute Full Lite Wood Door/Wood Lite Frame/Clear Tempered Glass



Maximum Visible Glazing Dimensions (Lite):

• (4'0" x 8'0" Door): 32^{7/8}" x 75^{13/16}"

• (4'0" x 8'0" Door): 32^{7/8}" x 75^{13/16}"

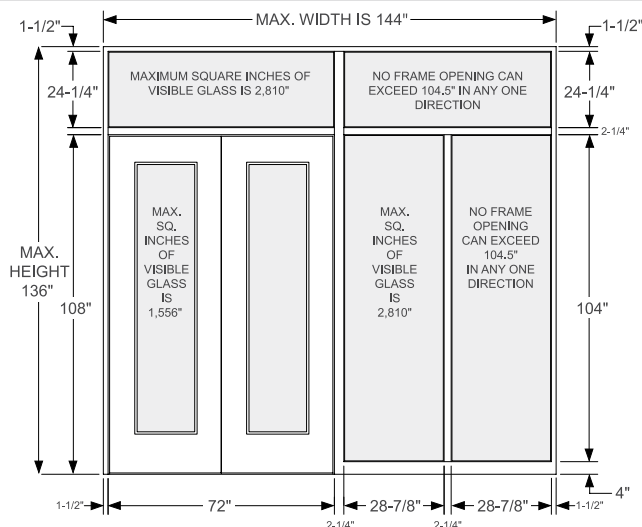
Glazing Materials (Sidelite):

- PyroEdge 20™ by Interedge Technologies
- Fireglass 20™ by Technical Glass Products

Listing/Labeling Specifications:

- Positive Pressure Tested and Listed
- Verify availability with door and frame manufacturer

Technical Data for: 20- and 45-Minute Full Lite Wood Door/Wood Lite Frame With Wire Glass or FireLite™, 20- and 45-Minute Wood Sidelite Frame/Borrowed Lite Frame/Transom Lite Frame with Wire Glass or FireLite™



Lite Specifications (see diagram at left):

- Positive Pressure Tested and Listed
- Large visible glazing areas
- Wire Glass and FireLite™
- Verify availability with door and frame manufacturer.

Contact These Manufacturers:

Navy Island, Inc.

275 Marie Ave East, West St. Paul, MN 55118

Phone: 651.451.4454, Fax: 651.451.4484

Eggers Industries - Frame Plant

1819 East River Street, Two Rivers, WI 54241

Phone: 920.793.1351, Fax: 920.793.2958

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DOOR & FRAME ACCESSORIES

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Anchors

Base Anchors (Weld-in Type)

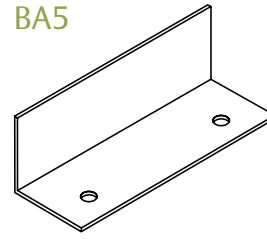
- Holes in one side for anchoring 1⁵/₈" x 1⁵/₈"
- .065 - 16 gauge galvanized steel
- Sold in 50 packs only

BA5-50PK Base anchor, for 4³/₄" and 5³/₄" masonry frames

BA6-50PK Base anchor, for 6³/₄" and 7³/₄" masonry frames

BA8-50PK Base anchor, for 8³/₄" masonry frames

BA5



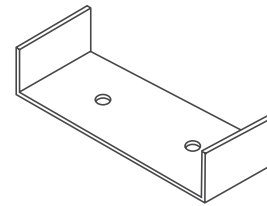
Mullion Base Anchors

- For 2" face frames. Two (2) holes for anchoring
- .083 - 14 gauge galvanized steel
- Sold in 25 packs only

MA4-25PK Mullion base anchor, 4³/₄" length

MA5-25PK Mullion base anchor, 5³/₄" length

MA4



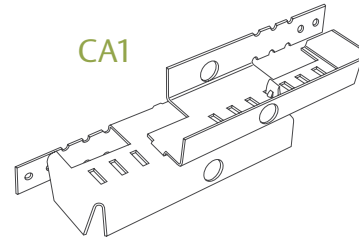
Combination Adjustable Stud Anchors

- Adjustable - saves time and is easy to install for a wider range of frames
- 18 gauge electro zinc finish
- Two (2) pieces per anchor (1 set)
- Sold in 50 packs only

CA1-50PK Adjustable stud anchor for 4³/₄" and 5³/₄" masonry frames

CA2-50PK Adjustable stud anchor for 6³/₄" to 8³/₄" masonry frames

CA1



Z Anchors (Weld-in Type)

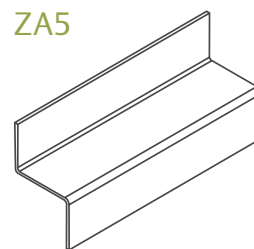
- For stud walls built inside of frame jambs
- .049 - 18 gauge galvanized steel
- Sold in 100 packs only

ZA5-100PK Weld-in Z anchor, for 4³/₄" and 5³/₄" masonry frames

ZA6-100PK Weld-in Z anchor, for 6³/₄" and 7³/₄" masonry frames

ZA8-100PK Weld-in Z anchor, for 8³/₄" masonry frames

ZA5

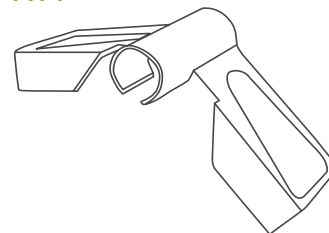


Adjustable Wall Anchors

- Butterfly design
- .065 galvanized steel
- Sold in 100 packs only

XT1-100PK Twist-in existing wall anchor, 4³/₄" to 6³/₄"

XT1



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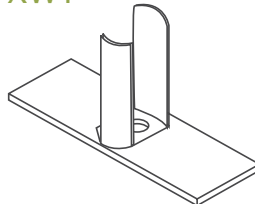
Anchors (Cont.)

Existing Wall Anchors

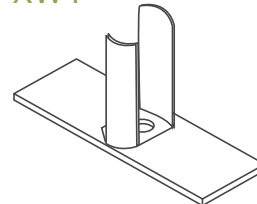
- Ideal for all existing wall applications
- For $4\frac{3}{4}$ " to $8\frac{3}{4}$ " frames
- Sold in 100 packs only

XW1-100PK	4 $\frac{3}{4}$ " existing wall anchor, unequal rabbet
XW2-100PK	5 $\frac{3}{4}$ " existing wall anchor, equal rabbet
XW3-100PK	5 $\frac{3}{4}$ " existing wall anchor, unequal rabbet
XW4-100PK	6 $\frac{3}{4}$ " existing wall anchor, equal rabbet
XW5-100PK	6 $\frac{3}{4}$ " existing wall anchor, unequal rabbet
XW6-100PK	7 $\frac{3}{4}$ " existing wall anchor, equal rabbet
XW7-100PK	7 $\frac{3}{4}$ " existing wall anchor, unequal rabbet
XW8-100PK	8 $\frac{3}{4}$ " existing wall anchor, equal rabbet
XW9-100PK	8 $\frac{3}{4}$ " existing wall anchor, unequal rabbet

XW1



XW4

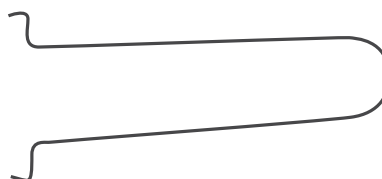


Wire Masonry Anchors

- For masonry frames
- Sold in 100 packs only

WA1-100PK

WA1



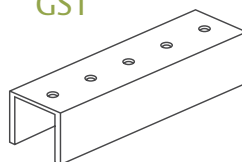
Glazing Bead/Spread Bar

Glazing Bead

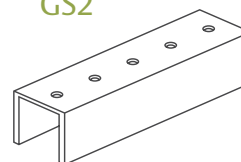
- Sold in 20 packs only
- No fasteners supplied

GS1-20PK	<ul style="list-style-type: none"> • $\frac{5}{8}$" x $\frac{5}{8}$" x 8'0" • Punched and countersunk for #8 screw • Hole spacings are 6" from ends and 12" on center • .049 18 gauge A40 galvanized steel
GS2-20PK	<ul style="list-style-type: none"> • $\frac{5}{8}$" x $\frac{5}{8}$" x 10'0" • Punched and countersunk for #8 screw • Hole spacings are 6" from ends and 12" on center • .049 18 gauge A40 galvanized steel
GS3-20PK	<ul style="list-style-type: none"> • $\frac{5}{8}$" x $\frac{5}{8}$" x 10'0" • Blank (no holes) • .049 18 gauge A40 galvanized steel
GS4-20PK	<ul style="list-style-type: none"> • $\frac{5}{8}$" x $\frac{5}{8}$" x 3'0" • Blank (no holes) • .049 18 gauge A40 galvanized steel

GS1



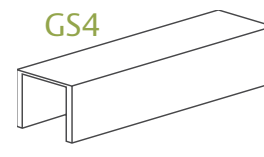
GS2



GS3



GS4



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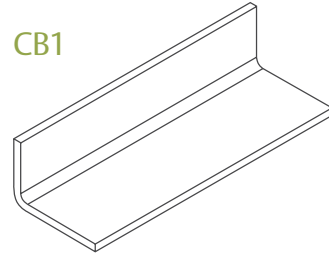
Reinforcements - Fillers

Corner Fillers

- Holes in one side for anchoring 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ "
- .065 - 16 gauge galvanized steel
- Sold in 50 packs only

- CB1-50PK** • 2" face frame corner filler.
• $\frac{5}{8}$ " x $\frac{7}{16}$ " lip x 1 $\frac{13}{16}$ " wide
- CB2-50PK** • 2 $\frac{5}{8}$ " face frame corner filler
• $\frac{5}{8}$ " x $\frac{7}{16}$ " lip x 2 $\frac{7}{16}$ " wide
- CB3-50PK** • 4" face frame corner filler
• $\frac{5}{8}$ " x $\frac{7}{16}$ " lip x 3 $\frac{13}{16}$ " wide

CB1

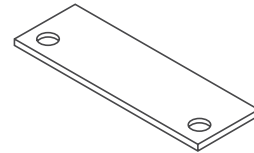


Door Hinge Filler Plates

- Two (2) #12-24 x 1/2" F.H.M.S. included
- Sold in 25 packs only

- HF1-25PK** • 4 $\frac{1}{2}$ " hinge filler for beveled edge (handed) doors
• 1 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " x .134 HRPO
- HF2-25PK** • 4 $\frac{1}{2}$ " hinge filler for square edge (non-handed) doors
• 1 $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " x .134 HRPO
- HF4-25PK** • 5" hinge filler for beveled edge (handed) doors
• 1 $\frac{1}{2}$ " x 5" x .146 HRPO
- HF5-25PK** • 5" hinge filler for square edge (non-handed) doors
• 1 $\frac{3}{4}$ " x 5" x .146 HRPO

HF1

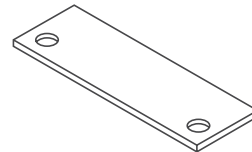


Frame Hinge Filler Plates

- For 1 $\frac{3}{4}$ " rabbeted frames
- Two (2) #12-24 x 1/2" F.H.M.S.
- Sold in 25 packs only

- HF3-25PK** • 4 $\frac{1}{2}$ " hinge filler for frames.
• 1 $\frac{5}{8}$ " x 4 $\frac{1}{2}$ " x .134 HRPO
- HF6-25PK** • 5" hinge filler for frames
• 4 $\frac{5}{8}$ " x 5" x .134 HRPO

HF3

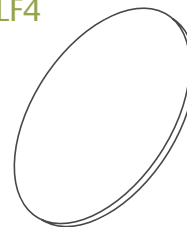


Hole Covers

Sold in 50 packs only

- LF4-50PK** • 2 $\frac{1}{8}$ " hole covers
• For 160 & 161 cylinder holes
• 2 $\frac{3}{32}$ " diameter x .049 galvanized steel

LF4



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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
FHMS (Flat-head Machine Screw) **HRPO** (Hot rolled, pickled & oiled)

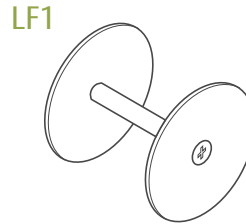
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Reinforcements - Fillers (Cont.)

Door Face Filler Plates

- One (1) 8-32 thru bolt included
- Sold in 25 packs only

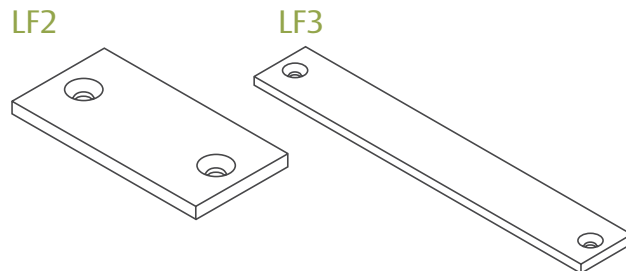
- LF1-25PK**
- 2 $\frac{1}{8}$ " screw-in hole cover
 - For 160 & 161 cylinder holes
 - 2 $\frac{5}{8}$ " diameter x .049 galvanized steel
- LF5-25PK**
- For 1 $\frac{1}{2}$ " cylinder holes
 - 3 $\frac{3}{4}$ " diameter x .049 galvanized steel



Door Edge Filler Plates

- Sold in 25 packs only

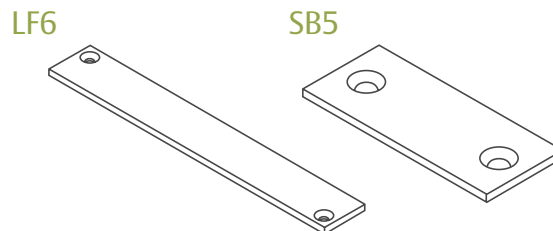
- LF2-25PK**
- For government 161 latch
 - 1 $\frac{1}{8}$ " x 2 $\frac{1}{4}$ " x .134 CRS
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included
- LF3-25PK**
- For government 86 mortise lock face
 - 1 $\frac{1}{4}$ " x 8" x .187 HRPO
 - Two (2) #12-24 x 1 $\frac{1}{2}$ " F.H.M.S. included



Flush Bolt Filler Plates

- Sold in 25 packs only

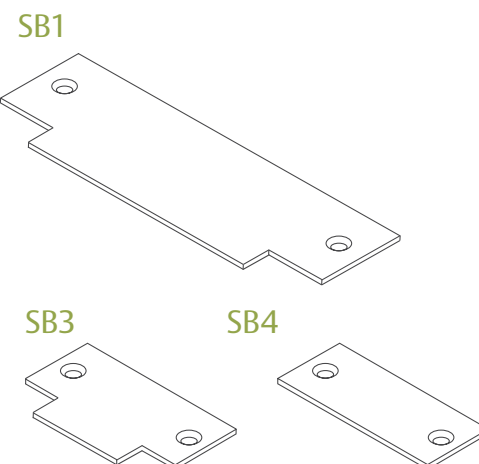
- LF6-25PK**
- Flush bolt filler
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included
 - 1" x 6 $\frac{3}{4}$ " x .134 CRS
- SB5-25PK**
- Flush bolt strike filler
 - 1 $\frac{5}{16}$ " x 2 $\frac{1}{4}$ " .075 galvanized steel
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included



Strike Filler Plates

- Sold in 25 packs only

- SB1-25PK**
- For 4 $\frac{7}{8}$ " strike
 - 1 $\frac{1}{4}$ " x 4 $\frac{7}{8}$ " x .095 CRS
 - Two (2) #12-24 x 1 $\frac{1}{2}$ " F.H.M.S. included
- SB3-25PK**
- For 2 $\frac{3}{4}$ " T-strike
 - 1 $\frac{1}{8}$ " x 2 $\frac{3}{4}$ " x .083 galvanized steel
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included
- SB4-25PK**
- For Schlage B lock and other deadlock strikes
 - 1 $\frac{1}{8}$ " x 2 $\frac{3}{4}$ " x .083 galvanized steel
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included
 - Two (2) #8-32 x 1 $\frac{1}{2}$ " F.H.M.S. included



NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
CRS (Cold Rolled Steel) FHMS (Flat-head Machine Screw) HRPO (Hot rolled, pickled & oiled)

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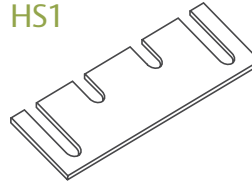
Reinforcements - Fillers (Cont.)

Shims

- Sold in 50 packs only.

- | | |
|-----------------|---|
| HS1-50PK | <ul style="list-style-type: none"> 22 gauge 4½" hinge shim 17/16" x 4½" x .028 galvanized steel |
| HS2-50PK | <ul style="list-style-type: none"> 16 gauge 4½" hinge shim 17/16" x 4½" x .065 galvanized steel |
| HS3-50PK | <ul style="list-style-type: none"> 22 gauge 5" hinge shim 17/16" x 5" x .028 galvanized steel |
| HS4-50PK | <ul style="list-style-type: none"> 16 gauge 5" hinge shim 17/16" x 5" x .065 galvanized steel |

HS1

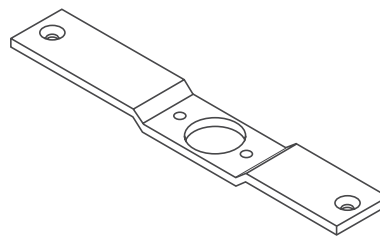


Latch Adapters

- Mortise lock to bored latch adapter
- Sold in 25 packs only

- | | |
|-----------------|--|
| LA1-25PK | <ul style="list-style-type: none"> For 86 lock edge to 161 latch 161 latch position offset 3/16" HRPO Two (2) #12-24 M.S. included |
|-----------------|--|

LA1

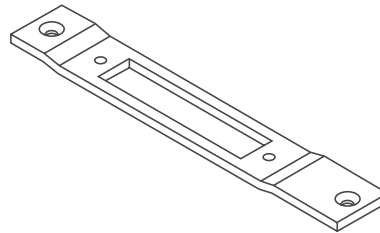


Strike Adapters

- Mortise lock edge to 47/8" strike adapter
- Sold in 25 packs only

- | | |
|-----------------|---|
| EA1-25PK | <ul style="list-style-type: none"> For 86 lock edge to ASA strike Strike prep is offset 1/8" Inside cutout dimension is 3/4" wide x 3½" long HRPO Two (2) #12-24 M.S. included |
|-----------------|---|

EA1



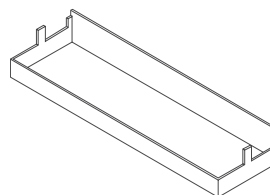
Reinforcements - Misc.

Mortar Box

- Hinge mortar box
- Sold in 50 packs only

MB1-50PK

MB1


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NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
HRPO (Hot rolled, pickled & oiled) **MS** (Machine Screw)

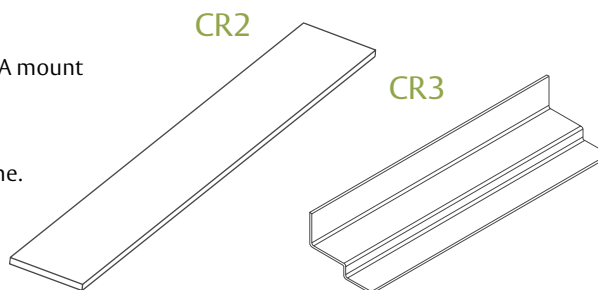
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Reinforcements - Misc. (Cont.)

Weld-In Reinforcements

- Weld-in closer reinforcement
- CR2 sold in 5 packs only
- CR3 sold in 20 packs only

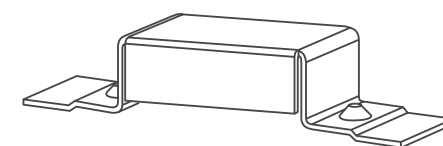
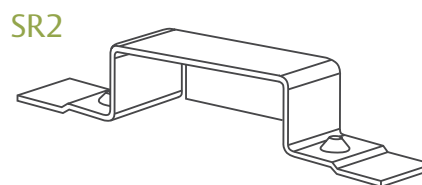
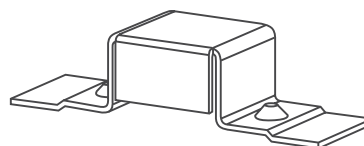
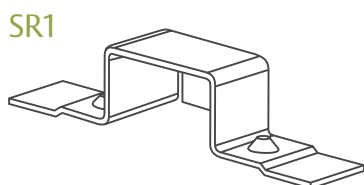
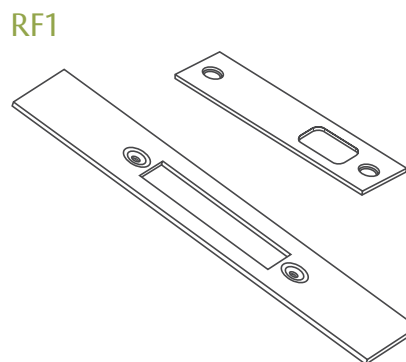
- CR2-5PK**
- 12" flat closer reinforcement for standard and PA mount closers
 - 1³/₄" x 12" x .134 - 10 gauge HRPO
- CR3-20PK**
- Half sleeve closer reinforcement for 2" face frame. For 14" standard mount and PA closers
 - 14" long x .109 - 14 gauge HRPO



Weld-in Strike Combination Reinforcement & Dust Cover/Reversible Flush Bolt Strike

- RF1 sold in 25 packs only
- SR1 and SR2 sold in 10 packs only

- RF1-25PK**
- Reversible flush bolt strike reinforcement - 7" x 1¹/₂" x 14 gauge
 - Includes 3³/₄" x 1¹/₈" x 16 gauge reversible strike plate
 - Both parts CRS
- SR1-10PK**
- 2³/₄" T-strike reinforcing
 - 16 gauge CRS
- SR2-10PK**
- For use with standard ASA or 4⁷/₈" strike in frame
 - 16 gauge CRS



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
CRS (Cold Rolled Steel) **HRPO** (Hot rolled, pickled & oiled)



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Reinforcements - Misc. (Cont.)

Hinge Reinforcements

- 1 $\frac{1}{4}$ " x 9" x .187 HRPO
- Holes tapped #12-24. Fits door and frames
- Sold in 50 packs only

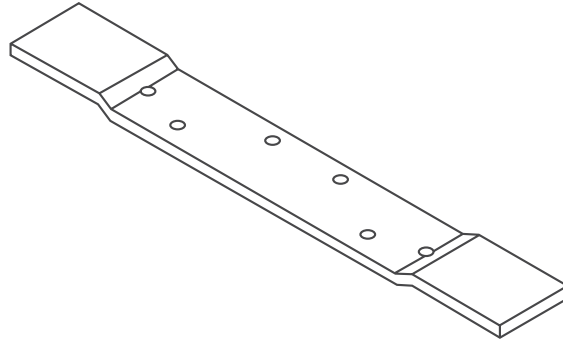
HR1-50PK • For 4 $\frac{1}{2}$ " x .180 heavy weight hinges

HR2-50PK • For 4 $\frac{1}{2}$ " x .134 regular weight hinges

HR3-50PK • For 5" x .190 heavy weight hinges

HR4-50PK • For 5" x .146 regular weight hinges

HR1



Reinforcements - Tabs

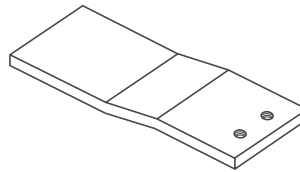
Flush Bolt Tabs

- 1" x 2 $\frac{1}{2}$ " x .109 HRPO
- Two holes tapped #8-32
- Sold in 50 packs only

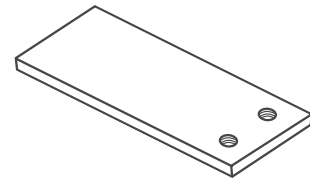
DT4-50PK • For doors, 1" face flush bolts - $\frac{3}{32}$ " offset

DT5-50PK • For doors, 1" face flush bolts - no offset

DT4



DT5

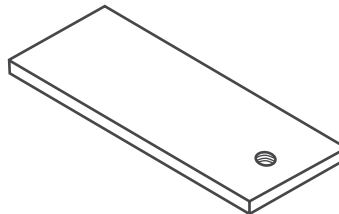


Flush Bolt Strike Tabs

- For strike in header bars - no offset
- 1" x $\frac{1}{2}$ " x .109 HRPO
- Hole tapped #8-32
- Sold in 50 packs only

FT3-50PK

FT3



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
HRPO (Hot rolled, pickled & oiled)

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Reinforcements - Tabs (Cont.)

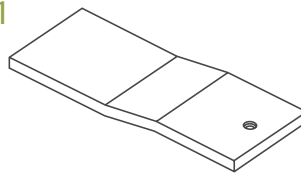
Dead Lock/Spring Latch/Lock Strike Tabs

- 1" x 2 1/2" x .109 HRPO
- Hole tapped #8-32
- Sold in 50 packs only

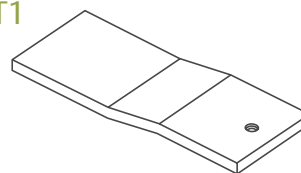
DT1-50PK • For 160 & 161 latch bolts - 3/32" offset

FT1-50PK • For 160 & 161 latch bolts - 1/16" offset

DT1



FT1



Strike Tabs

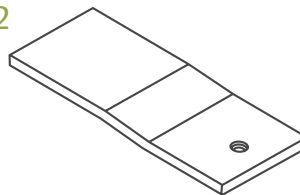
- 1" x 2 1/2" x .109 HRPO
- Hole tapped 12-24
- Sold in 50 packs only

FT2-50PK • For 4 7/8" ASA strikes - 1/16" offset

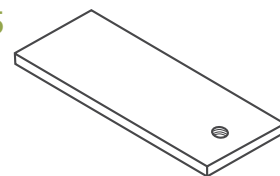
FT4-50PK • For Von Duprin, Folger Adams and other electric strikes - 5/16" offset

FT5-50PK • For strikes in frame - no offset

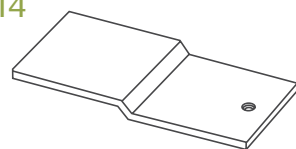
FT2



FT5



FT4

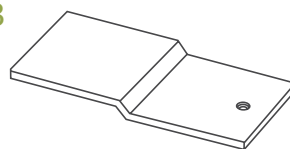


Lock Edge Tabs

- Mortise lock tab
- 1" x 2 1/2" x .109 HRPO
- Hole tapped #12-24
- Sold in 50 packs only

DT3-50PK • For government 86 locks - 1/8" offset

DT3



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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
HRPO (Hot rolled, pickled & oiled)



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Door Channels & Top Caps

Door Channels

- $\frac{1}{2}$ " x $1\frac{5}{8}$ " x $\frac{1}{2}$ " - .049 - 18 gauge galvanized steel
- Sold in 10 packs only

DC1-10PK

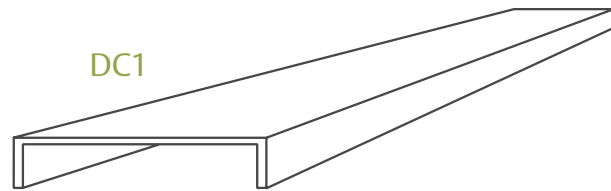
- For use when cutting doors in height and width 10'0"

DC2-10PK

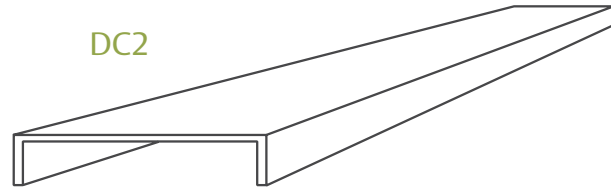
- For use when cutting doors in height and width 8'0"

DC3-10PK

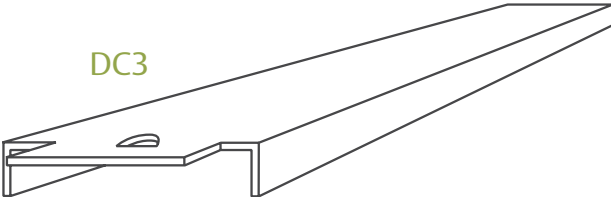
- Door cap with flush bolt guide
- For use when cutting doors in height
- Channels are notched at each end
- 4'0"
- Specify nominal door width when ordering



DC1



DC2



DC3

Screw-in Flush Top Caps

- Holes are punched and countersunk
- Specify nominal door width when ordering
- $\frac{1}{2}$ " x $1\frac{7}{16}$ " x $\frac{1}{2}$ " .035 20 gauge galvanized steel channel
- #6 x $1\frac{7}{8}$ " TEK Bugle head included
- Sold in 10 packs only

TC1-10PK

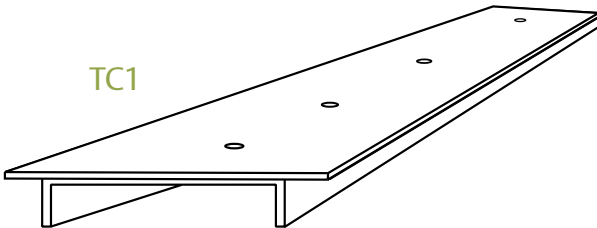
- Screw in flush top cap 3'0"

TC2-10PK

- Screw in flush top cap 3'6"

TC3-10PK

- Screw in flush top cap 4'0"



TC1

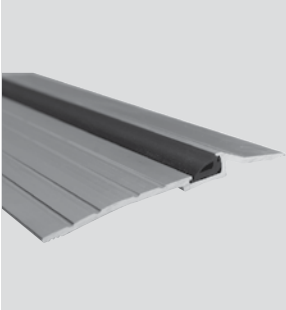


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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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