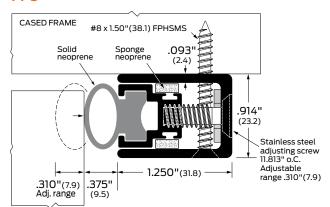


# Adjustable sealing systems - jamb-applied

### 770



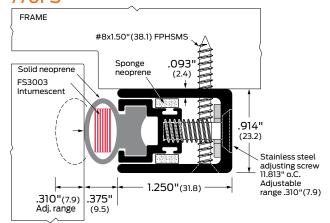
770AA, 770BK, 770D, 770G D, G

BHMA This model is supplied with mitered corners 20 min as a stop. 180 min when applied to stop.



770 used on cased opening frame with mitered corners, used as a stop.

### 770FS

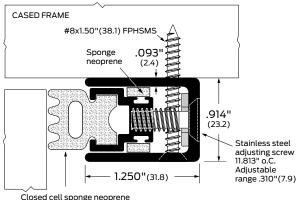


ANSI/BHMA: 770FS-AA, 770FS-BK, 770FS-D, 770FS-G R3R264 AA, BK, S, SEC

BHMA

This model is supplied with mitered corners. 180 min. fire rating for metal doors when applied on a certified steel frame with no cased opening.

### 170



170AA, 170BK, 170D, 170G AA, BK, S, SEC

D. G 

This model is supplied with mitered corners. 20 minutes as a stop. 180 min when applied to stop.

R3C254

See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish

**B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block Pressure-sensitive adhesive PSA ZAG Ligature resistant gasketing Order as a set Security screws

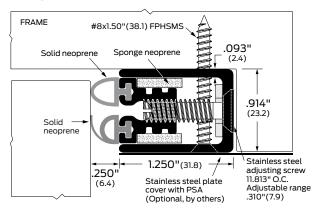
Verify frame manufacturer is approved to use applied stop.

### Perimeter seals

# Adjustable sealing systems – jamb-applied



### 7770

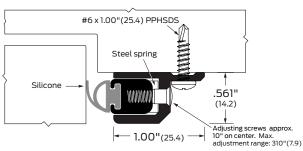


S, SEC

7770AA, 7770BK, 7770D, 7770G R3B264 

This model is supplied with mitered corners. Extruded Bulb/Finger for double-sealing protection.

### 712

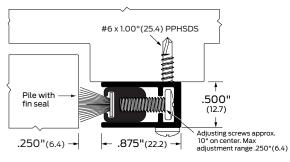


S, SEC AA, BK,

712AA, 712BK, 712D, 712G R3E264 BHMA

Adjustable and spring loaded. Extruded Bulb/Finger for double-sealing protection.

### 871



AA. BK. S. SEC

871AA, 871BK, 871D, 871G R3F265

**BHMA** 

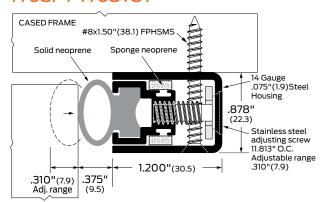
See Perimeter seals Accessories & options page for details.

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized вк Aluminum dark bronze anodized

Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block Pressure-sensitive adhesive PSA Ligature resistant gasketing ZAG Order as a set Security screws

### 770SP / 770STST



ANSI/BHMA S SEC

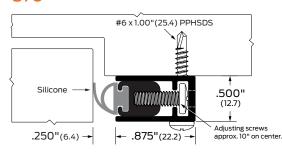
770STST R0B264

This model is supplied with mitered corners. 90 min. fire rating for certified wood and metal doors

and frames when applied as a stop.

Postitive Pressure Listed as a stop for 16 gauge steel cased opening up to 90 minutes on single and pair doors. 180 minutes when applied to a stop.

### 870

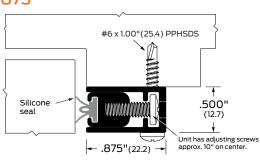


S, SEC

870AA, 870BK, 870D, 870G AA, BK, 

Extruded Bulb/Finger for double-sealing protection.

### 873



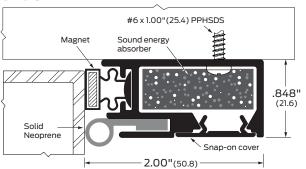
AA, BK, D, G

Finishes: SP = Steel Primed, STST=Stainless Steel.

Verify frame manufacturer is approved to use applied stop.



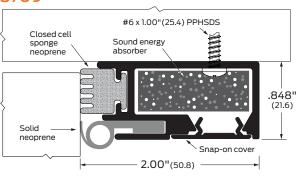
### 3708



ANSI/BHMA: AA, BK, D, G 3708AA R3L154 

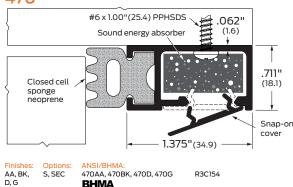
Magnetic head & jamb gasketing. For use with metal interior doors only. Available to order as engineering special.

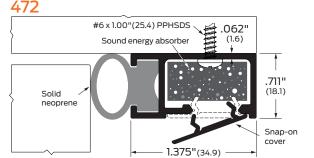
### 3709



Extruded Bulb/Finger for double-sealing protection.

### 470

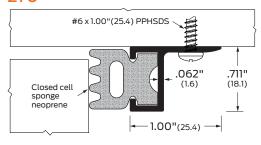




AA, BK, 472AA, 472BK, 472D, 472G D. G

#6 x 1.00"(25.4) PPHSDS

### 270



Options S, SEC A. BK. D, G

BHMA

ANSI/BHMA: 270A, 270BK, 270D, 270G R3C154

### See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized вк Aluminum black anodized Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing Order as a set Security screws

### Note:

Δ RK

D, G

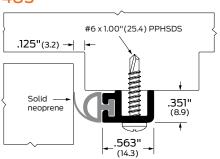


### Perimeter seals

# Head and jamb gasketing



### 485

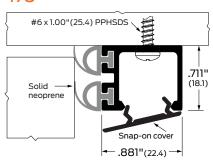


ZAG, S, SEC

ΔΝSI/ΒΗΜΔ 485AA, 485BK, 485D, 485G 

ZAG option for mental health applications includes security screws. Extruded Bulb/Finger for double-sealing protection.

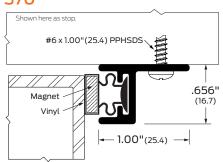
### 478



ΔΝSI/ΒΗΜΔ: 478AA, 478BK, 478D, 478G BHMA

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

### 370

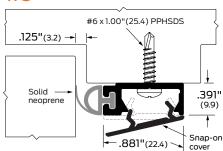


ANSI/BHMA:

370A, 370BK, 370D, 370G R3L155

 $\label{lem:magnetic head \& jamb gasketing For use with interior metal doors only. \\$ Available to order as engineering special.

### 475

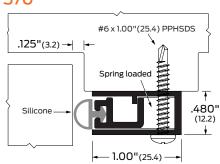


AA, BK,

ΔΝSI/RΗΜΔ: 475AA, 475BK, 475D, 475G R3B164 BHMA BHMA

Extruded Bulb/Finger for double-sealing protection. Channel may be used for low-voltage wiring, subject to local building codes.

### 570

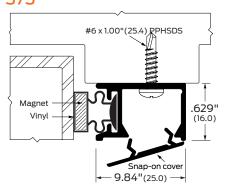


AA, BK,

S. SEC

ANSI/BHMA: 570AA, 570BK, 570D, 570G R3E264

### 375



A, BK, D, G

375A, 375BK, 375D, 375G

Magnetic Head & Jamb Gasketing For use with interior metal doors only. Available to order as engineering special.

### See Perimeter seals Accessories & options page for details.

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK

Aluminum dark bronze anodized Aluminum gold anodized

Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

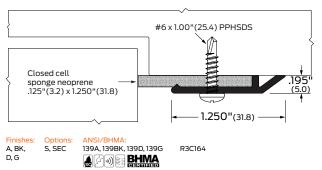
### Options:

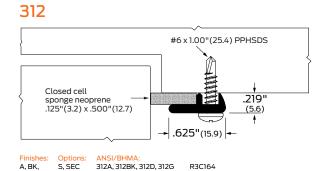
FLO Air flow/ sound block Pressure-sensitive adhesive PSΔ Ligature resistant gasketing ZAG Order as a set

Security screws

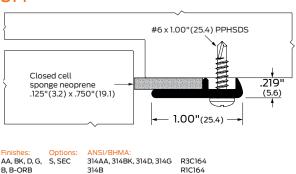






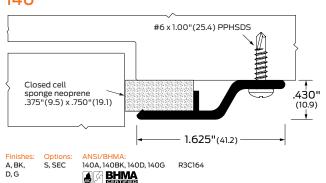


# 314

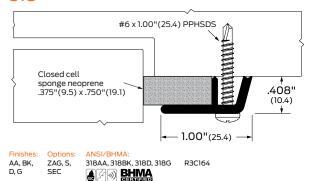


### 140

D. G

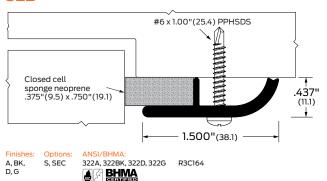


### 318



ZAG option for mental health applications includes security screws.

### 322



### See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing Order as a set Security screws

### Perimeter seals

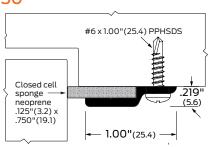
# Head and jamb gasketing

R3C164

R31J164



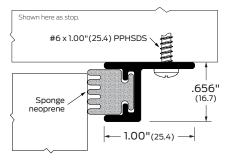
### 50



AA, BK, D, G S, SEC

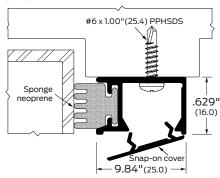
50AA, 50BK, 50D, 50G

### 1370



A, BK, D, G S, SEC 1370A, 1370BK, 1370D, 1370G R3C154

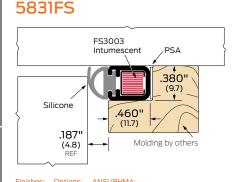
### 376



AA, BK, D. G

ANSI/BHMA: 376AA, 376BK, 376D, 376G BHMA

Channel may be used for low-voltage wiring, subject to local



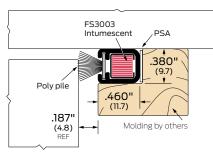
5831FS-AA, 5831FS-BK,

5831ES-D 5831ES-G

Supplied standard with PSA.

S

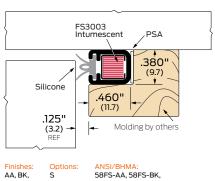
### 5832FS



ANSI/RHMA AA, BK, S 5832FS-AA, 5832FS-BK, 5832FS-D 5832FS-G R3V164 **BHMA** 

Supplied standard with PSA.

### **58FS**

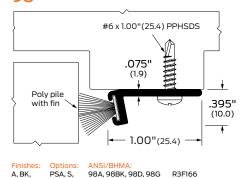


58FS-D, 58FS-G R3V164 **BHMA** 

For applications with very small clearances between door and frame. Supplied standard with PSA.

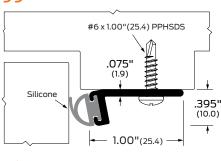
### 98

AA, BK,



BHMA

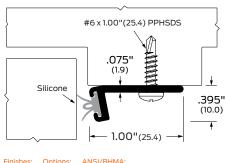
99



ZAG, S, D, G

99A, 99BK, 99D, 99G R3E164 **BHMA** 

### 100



A, BK, S, SEC 100A, 100BK, 100D, 100G **BHMA** 

For applications with and frame.

### See Perimeter seals Accessories & options page for details.

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized вк Aluminum dark bronze anodized Aluminum gold anodized

**B-ORB** Oil-rubbed aged bronze

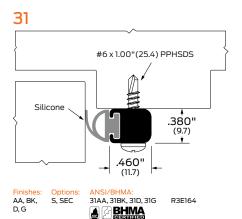
Bronze, architectural mill finish

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive Ligature resistant gasketing ZAG Order as a set Security screws

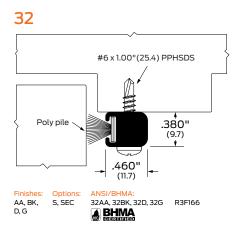
### Note:

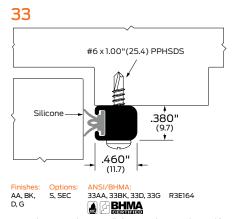
Zero · Door sealing systems · www.zerointernational.com





Extruded Bulb/Finger for double-sealing protection.





For applications with very small clearances between door and frame.

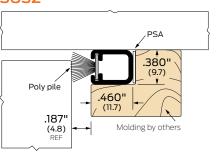
# Silicone .187" (4.8) Molding by others

Finishes: Options: ANSI/BHMA:
AA, BK, S 5831A, 5831BK, 5831D, 5831G R3E164
BGRAUDIED

FINISHES: Options: ANSI/BHMA:
5831A, 5831BK, 5831D, 5831G R3E164
BGRAUDIED

Extruded Bulb/Finger for double-sealing protection. Supplied standard with PSA.

### 5832



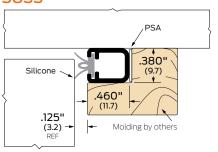
 Finishes:
 Options:
 ANSI/BHMA:

 AA, BK, D, G
 S
 5832AA, 5832BK, 5832D, 5832G
 R3F166

 BHMA GERMINIA
 GERMINIA
 GERMINIA
 GERMINIA

Supplied standard with PSA.

### 5833



 Finishes:
 Options:
 ANSI/BHMA:

 AA, BK,
 S
 5833A4, 5833BK, 5833D, 5833G
 R3E1644

 D, G
 BHMA
 GERMALIDIES

For applications with very small clearances between door and frame. Supplied standard with PSA.

### See Perimeter seals Accessories & options page for details.

### Finishes

# A Aluminum mill finish AA Aluminum clear anodized BK Aluminum black anodized D Aluminum dark bronze anodized G Aluminum gold anodized

Aluminum dark bronze anodize
 Aluminum gold anodized
 Bronze, architectural mill finish
 B-ORB Oil-rubbed aged bronze

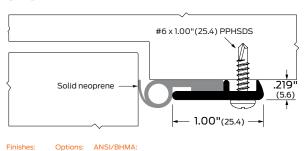
### Options:

FLO Air flow/ sound block
PSA Pressure-sensitive adhesive
ZAG Ligature resistant gasketing
S Order as a set
SEC Security screws



### 326

Perimeter seals

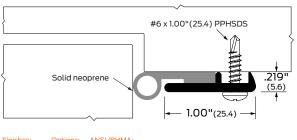


AA, BK, D, G, ZAG, S, B, B-ORB SEC

326AA, 326BK, 326D, 326G R3B164 326B R1B164

Extruded Bulb/Finger for double-sealing protection

### 328

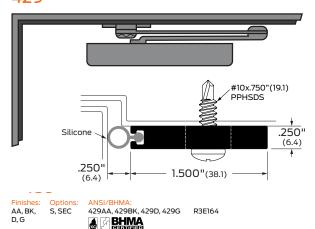


AA, BK, D, G, B, B-ORB ZAG, S, SEC

328AA, 328BK, 328D, 328G R3B164 328B R1B164 **BHMA** 

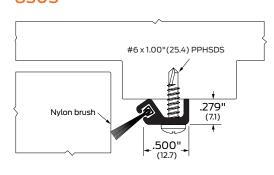
ZAG option for mental health applications includes security screws

### 429



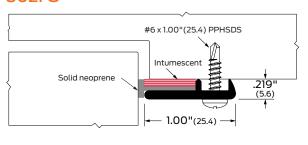
Gasketing protection for closer bracket or door coordinator.

### 8305



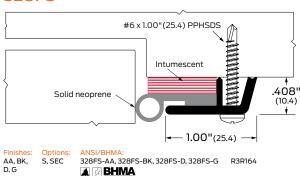
AA, BK, S, SEC 8305AA, 8305BK, 8305D, 8306G D. G

### 302FS



ANSI/BHMA AA, BK, D, G S, SEC B, B-ORB 302FS-AA, 302FS-BK, 302FS-D, 302FS-G 302FS-B

### 328FS



See Perimeter seals Accessories & options page for details.

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish

**B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block Pressure-sensitive adhesive PSA Ligature resistant gasketing ZAG Order as a set

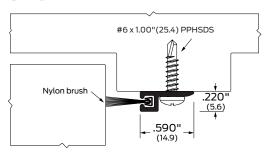
Security screws

R3R164





### 8193

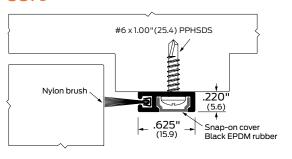


Finishes: AA, BK, D, G Options: PSA, S, SEC

S, 819

8193AA, 8193BK, 8193D, 8193G R3A

### 8879

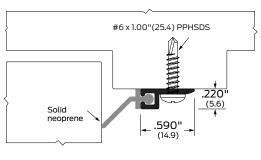


Finishes: AA, BK, D. G

PSA, S, SEC 8879AA, 8879BK, 8879D, 8879G

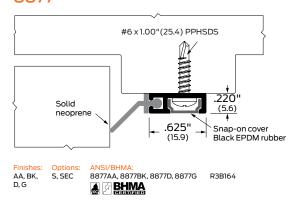
R3A166

### 8302

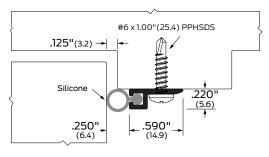


Finishes: Options: ANSI/BHMA:
AA, BK, S, SEC 8302AA, 8302BK, 8302D, 8302G R3B164
D, G BHMA
GREWITED

### 8877



### 8303

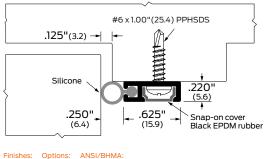


AA, BK, S, SEC 830

ANSI/BHMA: 8303AA, 8303BK, 8303D, 8303G BHMA

R3E164

### 8878



AA, BK, S, SEC B878AA, 8878BK, 8878D, 8878G R3E164
D, G B778 B878A B878B B878B

### See Perimeter seals Accessories & options page for details.

### Finishes

A Aluminum mill finish
AA Aluminum clear anodized
BK Aluminum black anodized
D Aluminum dark bronze anodized
G Aluminum gold anodized
B Bronze, architectural mill finish

**B-ORB** Oil-rubbed aged bronze

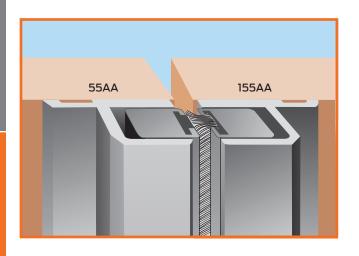
### Ontions

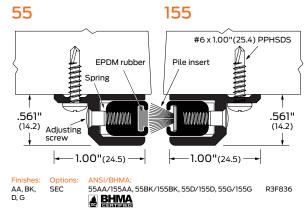
FLO Air flow/ sound block
PSA Pressure-sensitive adhesive
ZAG Ligature resistant gasketing
S Order as a set
SEC Security screws

### Perimeter seals

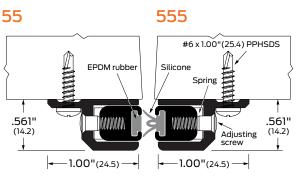
# Meeting stiles

### Adjustable surface-mounted meeting stiles for beveled doors



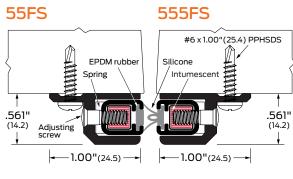


Fire-rated as a set--both components required. Order components separately.



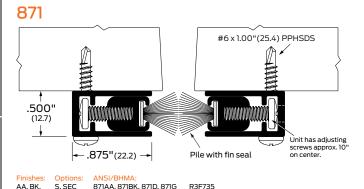
ANSI/BHMA: 55AA/555AA, 55BK/555BK, 55D/555D, 55G/555G R3E834 AA, BK, SEC D, G

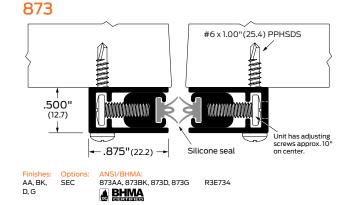
BHMA
GENTIES
h components required. Order components separately. Fire-rated as a set--both



ANSI/BHMA 55FS-AA/555FS-AA, 55FS-BK/555FS-BK, 55FS-D/555FS-D, 55FS-G/555FS-G R3U834 D. G **BHMA** 

Fire-rated as a set--both components required. Order components separately.





### See Perimeter seals Accessories & options page for details.

### Finishes

AA. BK.

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized

**BHMA** 

Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

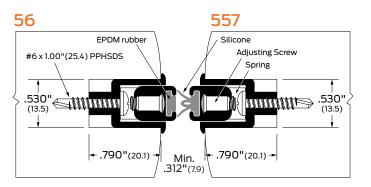
FLO Air flow/ sound block Pressure-sensitive adhesive PSA Ligature resistant gasketing ZAG Order as a set Security screws

Follow NPFA 80 requirements for fire door clearances.



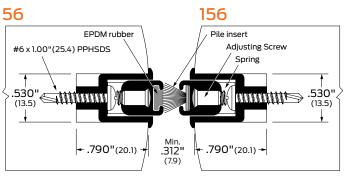
# Meeting stiles

### Adjustable mortised meeting stiles for bull-nosed doors



AA, BK, D, G 56AA/557AA, 56BK/557BK, 56D/557D, 56G/557G

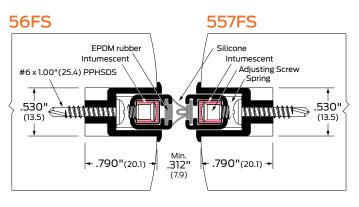
BHMA



ANSI/BHMA:

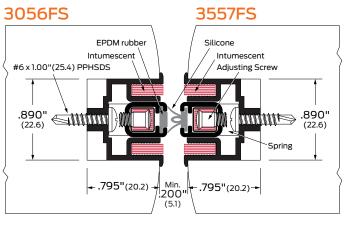
AA, BK, D, G 56AA/156AA, 56BK/156BK, 56D/156D, 56G/156G

Order components separately



AA, BK, 56FS-AA/ 557FS-AA, 56FS-BK/ 557FS-BK 56FS-D/ 557FS-D, 56FS-G/ 557FS-G D, G

Order components separately.



3056FS-AA/ 3557FS-AA, 3056FS-BK/ 3557FS-BK 3056FS-D/ 3557FS-D, 3056FS-G/ 3557FS-G AA. BK.

Fire-rated as a set--both components required. Order components separately.

See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK D Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish

**B-ORB** Oil-rubbed aged bronze

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing Order as a set Security screws

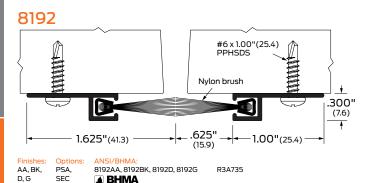
Follow NPFA 80 requirements for fire door clearances.

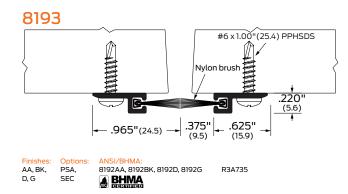
### Perimeter seals

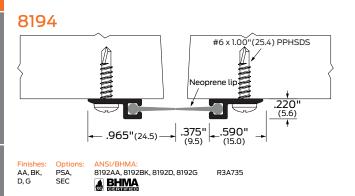
# Meeting stiles

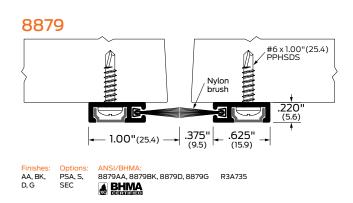


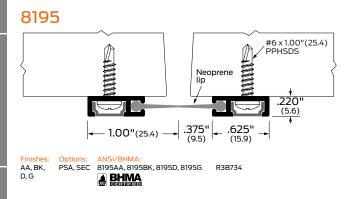
### Surface-mounted meeting stiles for beveled doors, both doors active

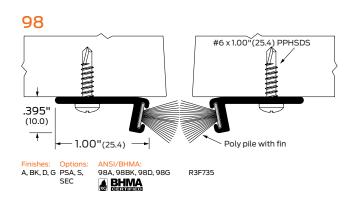












### See Perimeter seals Accessories & options page for details.

### Finishes:

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized

Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

### Options:

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive Ligature resistant gasketing ZAG Order as a set Security screws

For stile applications order two of each model, or mix and match models if desired.

Follow NFPA-80 requirements for fire door clearances.

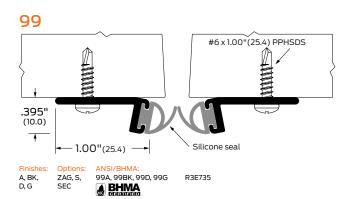


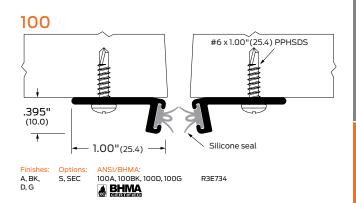
# Meeting stiles

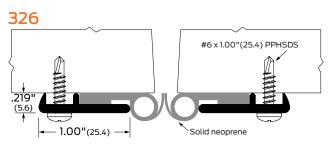
### Surface-mounted meeting stiles for beveled doors, both doors active (cont.)

B. B-ORB

AA, BK, D, G SEC







.320" (8.1)

Min



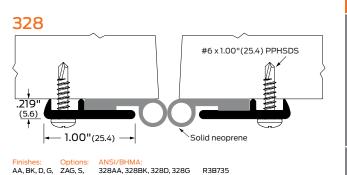
370

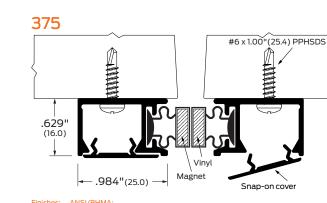
.656" (16.7)

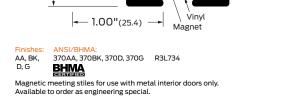
**Finishes** 

ΔΔ

BK







See Perimeter seals Accessories & options page for details.

Aluminum mill finish

B-ORB Oil-rubbed aged bronze

Aluminum clear anodized

Aluminum black anodized

Aluminum gold anodized

Aluminum dark bronze anodized

Bronze, architectural mill finish

FLO Air flow/ sound block
PSA Pressure-sensitive adhesive
Ligature resistant gasketing
Corder as a set
SEC Security screws

#6 x 1.00"(25.4) PPHSDS

### Note:

375AA, 375BK, 375D, 375G R3L734

Magnetic meeting stiles for use with metal interior doors only.

For stile applications order two of each model, or mix and match models if desired.

Follow NFPA-80 requirements for fire door clearances.

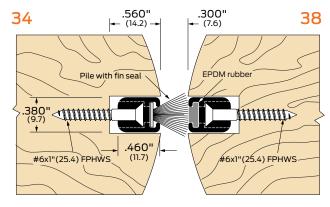
Available to order as engineering special.

### Perimeter seals

# Meeting stiles

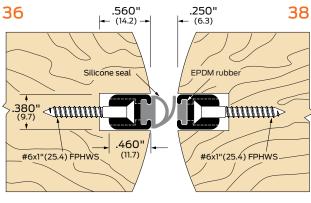


### Mortised meeting stiles for bull-nosed doors, both doors active



AA, BK,

34AA, 34BK, 34D, 34G D, G **BHMA** 



ANSI/BHMA: 36AA, 36BK, 36D, 36G R3E824 AA. BK.

BHMA

398V .300" (7.6)PVC with PSA .380" (9.7) Pile with fin seal .160"

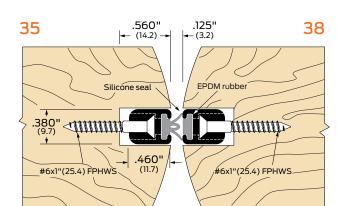
Solid PVC-brown. Supplied standard with PSA

Options:

FLO Air flow/ sound block Pressure-sensitive adhesive PSA Ligature resistant gasketing ZAG

Order as a set Security screws

Follow NFPA-80 requirements for fire door clearances.

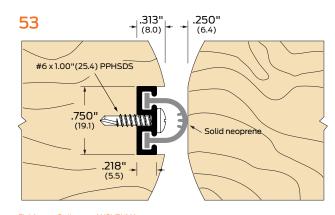


ANSI/BHMA: 35AA, 35BK, 35D, 35G

Order components separately

AA, BK,

D. G



ANSI/BHMA: 53A R3B724 Options: SEC 

399V .125" (3.2)PVC with PSA .380" (9.7) Silicone seal .160"

Solid PVC-brown. Supplied standard with PSA

### See Perimeter seals Accessories & options page for details.

Finishes

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK

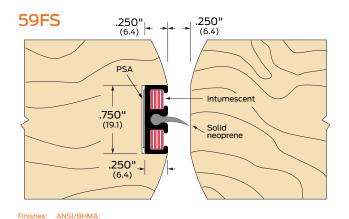
Aluminum dark bronze anodized Aluminum gold anodized

Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze



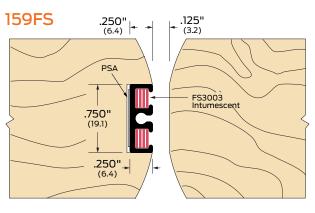
# Meeting stiles

### Mortised meeting stiles for bull-nosed doors, both doors active. (cont.)



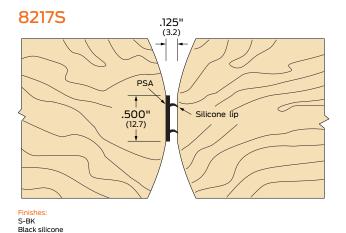
R3R724 

Supplied standard with PSA.

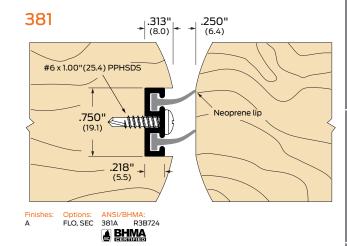


ANSI/BHMA: 159FS-A R3P7246 BHMA

Supplied standard with PSA.



Very low profile, for door pairs with very small clearance. Also suitable for glass doors. Supplied standard with PSA.



See Perimeter seals Accessories & options page for details.

### Finishes

Aluminum mill finish ΔΔ Aluminum clear anodized вк Aluminum black anodized D Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish B-ORB Oil-rubbed aged bronze

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing Order as a set Security screws

See Ives catalog for door coordinators.

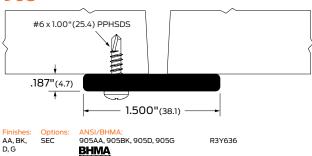
Follow NFPA-80 requirements for fire door clearances.

### Perimeter seals

# Meeting stiles

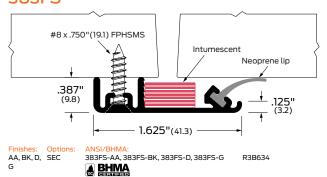
### Astragals — One door active or coordinating doors

### 905



# 47 #6 x 1.00"(25.4) PPHSDS 1.750" (44.5) ANSI/BHMA: 47AA, 47BK, 47D, 47G AA, BK, D, SEC

### 383FS



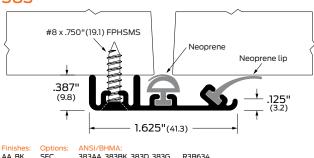
90 minute max fire rating

# #6 x 1.00"(25.4) PPHSDS .093"(2.4) 1.500"(38.1)

44STST R5Y636 STST SEC BHMA

Stainless steel finish only.

### 383



AA, BK, D, G 383AA, 383BK, 383D, 383G R3B634 (()

90 minute max fire rating

### 43 Security astragal Active 1.750" (44.5) 1/4-20x1"(25.4) Thru bolt Strike plate by others .531" (13.5)Steel prime or Stainless steel .795"(20.2) 2.250"(57.2)

See Perimeter seals Accessories & options page for details.

### Finishes

Aluminum mill finish ΔΔ Aluminum clear anodized Aluminum black anodized BK Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

### Options:

FLO Air flow/ sound block Pressure-sensitive adhesive Anti-ligature gasketing PSA ZAG Order as a set

NRGC Rubber not assembled, no glue or no crimp on seal SEC

Security screws

Finishes: SP, STST

See Ives catalog for door coordinators.

Finishes: SP = Steel Primed, STST=Stainless Steel.

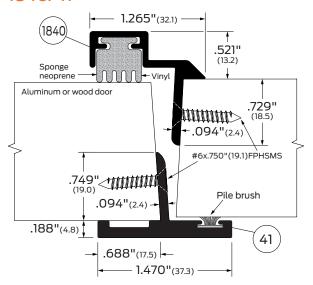
Follow NFPA 80 requirements for fire door clearances.



# Meeting stiles

### Astragals — One door active or coordinating doors (cont.)

### 1840/41



### 1840

ANSI/BHMA:

1840AA, 1840BK, 1840D, 1840G

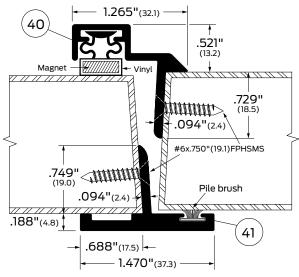
Astragal, inswing.

### 41

ANSI/BHMA: 41AA, 41BK, 41D, 41G R3F636 AA. BK.

**BHMA** 

### 40/41



### 40

ANSI/BHMA:

40AA, 40BK, 40D, 40G

D. G

 ${\bf Magnetic\ astragal,\ inswing.\ For\ use\ on\ interior\ metal\ doors\ only.\ \ Available\ to\ order\ as}$ engineering special.

See Perimeter seals Accessories & options page for details.

### Finishes

Aluminum mill finish ΔΔ Aluminum clear anodized вк Aluminum black anodized Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish B-ORB Oil-rubbed aged bronze

### Options:

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing Order as a set Security screws

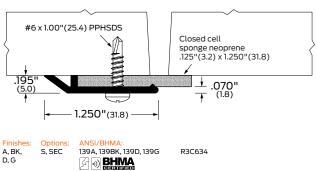
See Ives catalog for door coordinators.

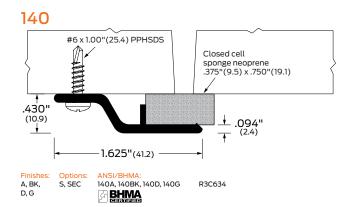
### Perimeter seals

# Meeting stiles

### Astragals — One door active or coordinating doors (cont.)

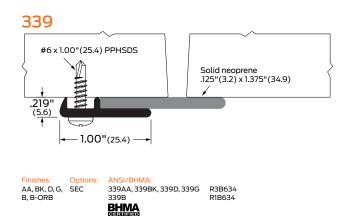
### 139





### 322 #6 x 1.00"(25.4) PPHSDS Closed cell sponge neoprene .375"(9.5) x .750"(19.1) .437' (11,1) .125" (3.2) 1.500"(38.1) ANSI/BHMA: 322A, 322BK, 322D, 322G R3C164 D. G

**BHMA** 



See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized вк Aluminum black anodized Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish **B-ORB** Oil-rubbed aged bronze

### Options:

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive Ligature resistant gasketing ZAG Order as a set Security screws

See Ives catalog for door coordinators.

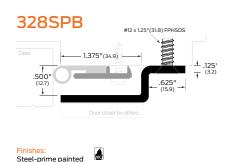


# Specialized solutions

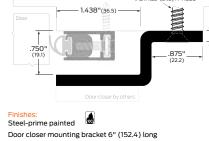
### Door closer mounting brackets

These mounting brackets can be used to protect gasketing when installed with an LCN® door closer or with products supplied by other manufacturers. See the table below to determine which bracket model to use with a chosen gasketing model.

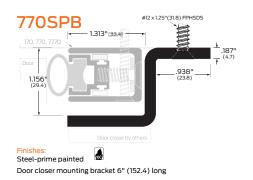




Door closer mounting bracket 6" (152.4) long



870SPB



### Compatible gasketing for door closer brackets

328SPB		870SPB		770SPB	
Height	Width	Height	Width	Height	Width
.500"	1.375"	.750"	1.438"	1.156"	1.313"
314, 326, 328, 475, 48 5832FS, 5833, 8193	98, 99, 100, 139, 312, 5, 5831, 5831FS, 5832, 8, 8302, 8303, 8305, 8878, 8879		70, 375, 376, 470, 472, 871, 873, 1370	170, 770, 3708, 37 770STS	09, 770FS, 770SP, 5T, 7770

### See Perimeter seals Accessories & options page for details.

### **Finishes**

Aluminum mill finish ΔΔ Aluminum clear anodized вк Aluminum black anodized Aluminum dark bronze anodized

Aluminum gold anodized Bronze, architectural mill finish B-ORB Oil-rubbed aged bronze

FLO Air flow/ sound block PSΔ Pressure-sensitive adhesive ZAG Ligature resistant gasketing

Order as a set Security screws

# Notes

Perimeter seals



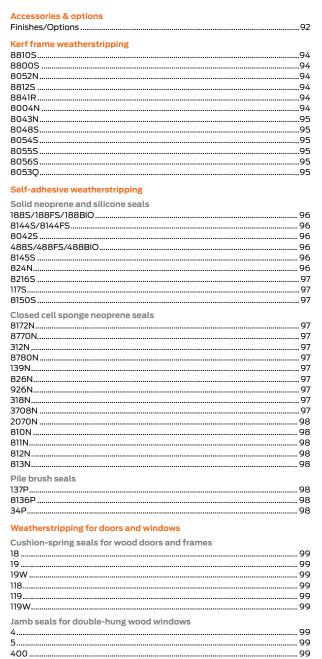


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### Weatherstripping

### Indov

Ш	IU	X





### PSA Weatherstripping for glass doors

VC glass edge protection for swinging and sliding door	rs .
35	100
36	
oly pile seals with PVC and polycarbonate housings –	for swinging and sliding
oors	
37	100
38	100
136	100
137	100
138	
dge protection for glass sliding doors	
35/137	101
36/138	101
37P	101
137	101
131	101
stragals for swinging doors	
33	
34	101
ilass door meeting stiles—surface mounted self-adhes	ive, both doors active
192	*
193	
18	
194	
194	102

.. 99

### Weatherstripping Introduction

# Designed for durability and optimal performance

Zero offers a comprehensive selection of kerf seals and pressure-sensitive adhesive (PSA) rubber seals in a variety of materials.

With a broad portfolio, Zero offers solutions for a variety of challenging applications. Zero's unique profiles and versatile shapes deliver the best performance for common sealing challenges.

- Metal weatherstripping enables specifiers to optimize sealing solutions for a wide range of door and double-hung window applications.
- Glass door weatherstripping includes solutions for sliding and swinging glass doors.

Special features, such as state of the art adhesive, set Zero apart. Our PSA products are constructed using the highest-quality self-adhesives for superior adhesion even when the surface is contaminated with oil. Making them perfect for applications where budget or installation factors favor the use of PSA gasketing. Thoughtful engineering and design details include a subtle indentation in the extruded profile of Zero tear drop seals that enhances the wrap of the rubber for a tighter seal.

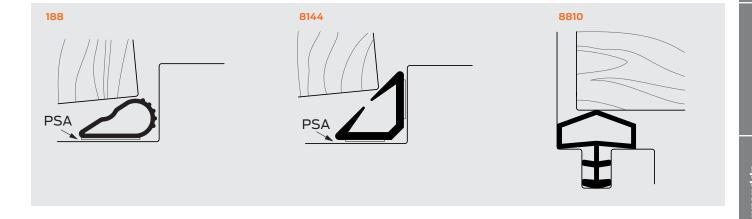
A variety of material options are available to customize a solution for the specific needs of your application.

- Silicone rubber can handle many applications including those with temperature extremes (S)
- Neoprene rubber a versatile material for heavy duty applications (N)
- Intumescent for fire and smoke protection (FS)
- BioWall rubber with anti-microbial inhibitor for infection control (BIO)
- EPDM rubber excellent for outdoor use (R)
- Vinyl Covered Foam (Q)

# High quality self adhesive

- Strong initial adhesion
- Long term holding power
- Holds well even on contaminated surfaces

Most Zero weatherstripping products use best-in-class 3M 9495LE adhesive tape.



# Accessories & options



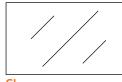
### **Finishes**



BK Black



BR Brown



Clear



GY Gray



WH White



Bronze, Architectural Mill Finish



Zinc Mill Finish



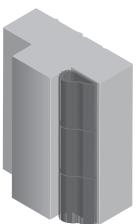
Pressure-sensitive adhesive **ZAG** Ligature-resistant gasketing

### Pressure-sensitive adhesive (PSA)

Many weatherstipping products are supplied standard with a high quality 3M adhesive. PSA is also available as an option on other models. See profile for information on standard or optional PSA.



This patented ligature-resistant option prevents unintended usage of the gasketing, including harming oneself or others. When ZAG is specified, the rubber is scored before insertion into the aluminum extrusion. This allows the seal to function as intended, but it will now break apart if removal is attempted or any weight is placed on the seal.



188-ZAG



### **Fasteners**

Weatherstripping is supplied with the appropriate fasteners and quantities needed for installation based on order length. Use the part numbers below for ordering additional screws.

Models	Category	Part number	Finish	Details
4, 5, 18, 19, 19W, 23, 400, 500, 4000, 5000	Metal weatherstripping	47253928	B, Z	10 Nails #16 x 7/8" and 10 Waferhead drive screws #4 x 5/16"

Options:

PSA

ZAG



### For hollow metal doors

#4 x 5/16" wafer-head drive screws used for installation on metal doors



### For wood doors

#16 x 7/8" weatherstrip nails used for installation on wood doors

See Weatherstripping Accessories & options page for details.

Finishes: вк

Black BR Brown CL Clear GΥ Grav WH White

z Mill finish Zinc Pressure-sensitive adhesive

Ligature-resistant gasketing



# Weatherstripping order guide

### How to order

	Model	Finish	Length	Options
	1885	ВК	17	
Models				
Example				
5				
19W				
1885				
318N				
4000				
824N				
Finishes*				
B - Architectural mill finish Bronze		<u> </u>		
<b>BK</b> - Black				
BR - Brown				
CL - Clear				
GY - Gray				
WH - White				
<b>Z</b> - Mill finish Zinc				
*See profile for finish options.				
Length				
For all lengths, specify feet desired US std. measure.				
Example common Weatherstripping rolls:				
<b>17</b> - 17' roll for std. 3070 door				
<b>18</b> - 18' roll				
<b>19</b> - 19' roll				
<b>20</b> - 20' roll for std. double door				
25 - for double doors to 8' wide x 8' high				
Options				

**PSA** - Pressure sensitive adhesive, standard on some models

**ZAG** - Ligature-resistant

See Weatherstripping Accessories & options page for details.

### Finishes:

### Options:

BK Black
BR Brown
CL Clear
GY Gray

PSA Pressure-sensitive adhesive ZAG Ligature-resistant gasketing

WH White

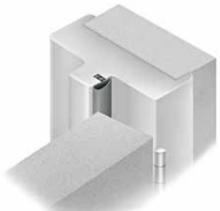
B Architectural mill finish bronze
Z Mill finish Zinc

www.zerointernational.com  $\cdot$  Door sealing systems  $\cdot$  Zero  $\cdot$  93

# Kerf frame weatherstripping

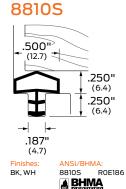




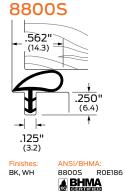




8810



8880

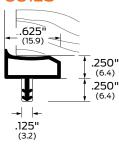


8052



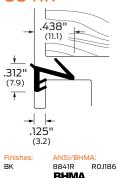
Finishes: ANSI/BHMA: Closed cell sponge neoprene rubber.

### 8812S



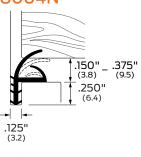
Finishes BK, WH

### 8841R



**BHMA** 

### 8004N



ANSI/BHMA: 8004N R R0B186 BK

### See Weatherstripping Accessories & options page for details.

### Finishes:

z

BK Black BR Brown CL Clear GΥ Grav WH White

Architectural mill finish bronze Mill finish Zinc

PSA Pressure-sensitive adhesive ZAG Ligature-resistant gasketing

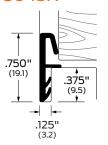
See door manufacturer specifications for minimum required clearance between door and frame. Most models shown are available in neoprene (N) or silcone (S). Both materials are self-extinguishing and non-staining.





# Kerf frame weatherstripping

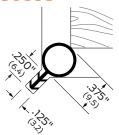
### 8043N



R0B186 BHMA

ANSI/BHMA:

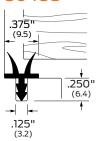
### 8055S



Finishes BK, WH

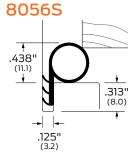
ANSI/BHMA: 8055S R0E186

### 8048S



Finishes:

ANSI/BHMA: R0E186 BHMA

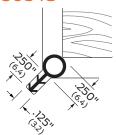


Finishes: WH

ANSI/BHMA: 8056S

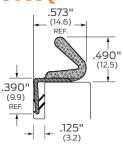
R0E186

### 8054S



ANSI/BHMA: 80545 R0E186 

### 8053Q



Finishes BR, WH

ANSI/BHMA 8053Q F R0Y186 **BHMA** 

Vinyl-covered foam.

See Weatherstripping Accessories & options page for details.

### Finishes:

BK Black BR Brown CL Clear GΥ Grav WH White

Architectural mill finish bronze

z Mill finish Zinc

### Options:

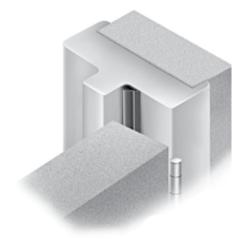
PSA Pressure-sensitive adhesive ZΔG Anti-ligature gasketing

See door manufacturer specifications for minimum required clearance between door and frame. Most models shown are available in neoprene (N) or silcone (S). Both materials are self-extinguishing and non-staining.

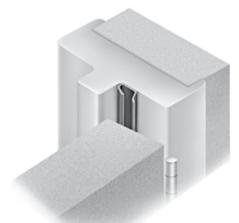
# Self-adhesive weatherstripping



### Solid neoprene and silicone seals







188 / 488

188S/188FS/188BIO .250" (6.4)

.500" (12.7)

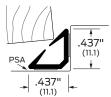
BK, BR, CL, GY, WH

ZAG ZAG

ΔΝSI/ΒΗΜΔ: 1885 188FS R0U154

- PSA standard. 20-minute fire rating. Intumescent rubber for fire and smoke protection
- PSA standard. 45-minute fire rating. BIO: BioWall antimicrobial rubber. PSA standard.

8144S/8144FS



S: BK, WH FS: BK

8144

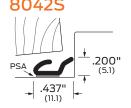
Ontions: ZAG ZAG

ANSI/RHMA: R0E154 R0U154 8144FS 

S: PSA standard.

FS: Intumescent rubber for fire and smoke protection

8042



BK

ZAG

ANSI/BHMA: R0E154 80425

PSA standard.

### 488S/488FS/488BIO



BK, BR, CL, GY, WH BK BIO: BR

ZAG ZAG

4885

R0E154

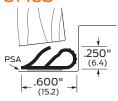
BHMA

PSA standard.

Intumescent rubber for fire and smoke protection.

BIO: BioWall antimicrobial rubber. PSA standard.

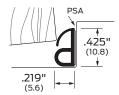
### 8145S



ZAG

PSA standard.

### 824N



BK

ZAG

ANSI/BHMA: 824N ROB154 **BHMA** 

PSA standard.

### See Weatherstripping Accessories & options page for details.

### Finishes:

ВK Black BR Brown CL Clear GΥ Grav

WH Architectural mill finish bronze z Mill finish Zinc

Pressure-sensitive adhesive ZAG Ligature-resistant gasketing

Zero · Door sealing systems · www.zerointernational.com

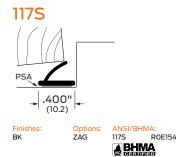


# Self-adhesive weatherstripping

### Solid neoprene and silicone seals (cont.)











PSA standard.

### Closed cell sponge neoprene seals

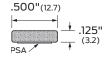






PSA standard

### 8770N

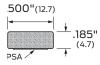


ZAG



PSA standard.

### 312N



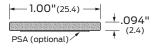
BK

ZAG



PSA standard.

### 8780N

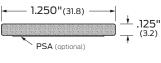


PSA, ZAG



Mullion seal

### 139N







### 826N





PSA standard

3708N

### 926N





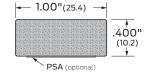




### 318N



### PSA, ZAG



PSA, ZAG

### See Weatherstripping Accessories & options page for details.

R0C155

### Finishes:

BK Black BR Brown CL Clear

GΥ Grav WH

Architectural mill finish bronze

z Mill finish Zinc

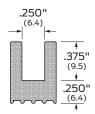
### Options:

PSΔ Pressure-sensitive adhesive ZΔG Ligature-resistant gasketing

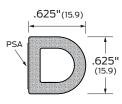
# Self-adhesive weatherstripping

### Closed cell sponge neoprene seals (cont.)

### 2070N

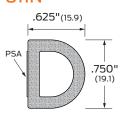


### 810N



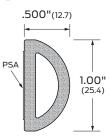
Finishes: ZAG PSA standard.

### 811N



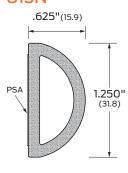
PSA standard.

### 812N



ZAG PSA standard.

### 813N



ZAG PSA standard.



### Pile brush seals

### 137P



Also suitable for glass door application -- see Specialized Solutions. PSA standard.

### 8136P



Finishes:

### 34P



BK, GY

### See Weatherstripping Accessories & options page for details.

### Finishes:

BK Black BR Brown CL Clear GY Grav WH White Architectural mill finish bronze z Mill finish Zinc

PSA Pressure-sensitive adhesive ZAG Ligature-resistant gasketing



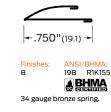
# Weatherstripping for doors and windows

### Cushion-spring seals for wood doors and frames



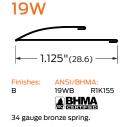


34 gauge bronze spring. PSA Standard.



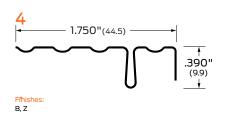
19

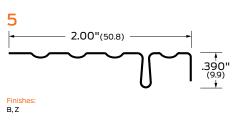


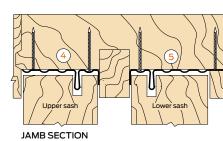


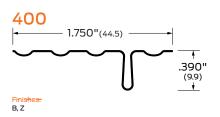


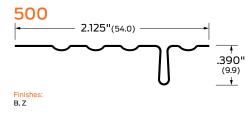
### Jamb seals for double-hung wood windows

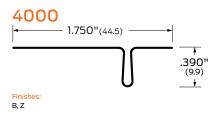


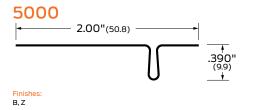












See Weatherstripping Accessories & options page for details.

### Finishes: BK Black BR CL

Brown Clear GΥ Grav WH

Architectural mill finish bronze Mill finish Zinc

PSΔ Pressure-sensitive adhesive ZΔG Ligature-resistant gasketing

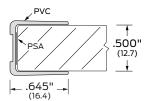
PSA models use highest-quality foam-based, double-sided tape.

# PSA Weatherstripping for glass doors



### PVC glass edge protection for swinging and sliding doors

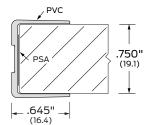
135



135 R0Y716

For .450" to .500" (12.4mm) doors. PSA standard.

136

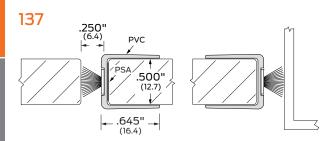


136 R0Y716

For .665" to .750" (19.1mm) doors. PSA standard.

For long door pulls see IVES catalog

### Poly pile seals with PVC and polycarbonate housings - for swinging and sliding doors



R0F716

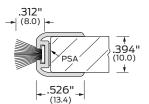
BHMA

For .450" to .500" (12.4mm) doors. Clear housing with gray pile brush. PSA standard.

138 .250" PVC .75Ó" (19.1)645" (16.4)ANSI/BHMA **BHMA** 

For .655" to .750" (19.1mm) doors. Clear housing with gray pile brush. PSA standard.

### 8136

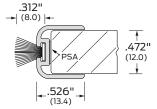


ANSI/BHMA 8136

R0F716

For .325" to .394" (10mm) thick doors. Clear housing

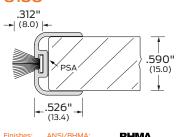
### 8137



R0F716

For .425" to .472" (12mm) thick doors, Clear housing

### 8138



8138

For .535" to .590" (15mm) thick doors. Clear housing with gray pile brush. PSA standard

### See Weatherstripping Accessories & options page for details.

### Finishes:

вк Black BR Brown CL Clear GΥ Grav

WH White Architectural mill finish bronze

z Mill finish Zinc

Pressure-sensitive adhesive Ligature-resistant gasketing

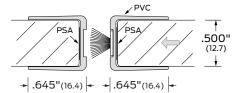




# PSA Weatherstripping for glass doors

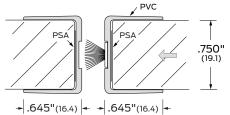
### Edge protection for glass sliding doors

### 135/137



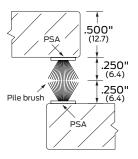
PVC housing and poly pile brush seal for .500" (12.4mm) doors. PSA standard.

### 136/138



PVC housing with neoprene seal. PSA standard. Min door gap .250", max door gap .340"

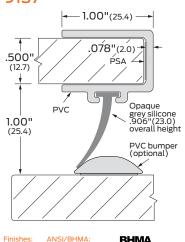
### 137P



BK, GY

Poly pile brush seal for .500" (12.4mm) doors.

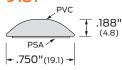
### 9137



For .500" (12.4mm) doors. Application with #9131 PVC bumper. PSA standard. Min door gap .500", max door gap 1" when used without bumper or 1.2" when used with 9131 bumper.

R0E716

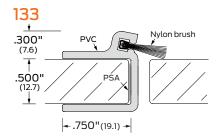
### 9131



Finishes:

PVC bumper, PSA standard.

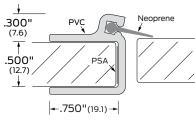
### Astragals for swinging doors



CL

PVC housing with black nylon brush. PSA standard. Min door gap .125", max door gap .250"  $\,$ 

### 134



Finishes: ANSI/BHMA: CL 134 R0B716

9137

PVC housing with neoprene seal. PSA standard. Min door gap .125", max door gap .250"

See Weatherstripping Accessories & options page for details.

### Finishes:

BK Black
BR Brown
CL Clear
GY Gray

WH WhiteB Architectural mill finish bronze

**Z** Mill finish Zinc

### Options:

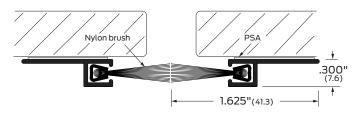
PSA Pressure-sensitive adhesive ZAG Ligature-resistant gasketing

# PSA Weatherstripping for glass doors



Glass door meeting stiles—surface mounted self-adhesive, both doors active

### 8192



8192AA-PSA, 8192BK-PSA, 8192D-PSA, 8192G-PSA

R3A735

AA, BK, D, G

8193

ANSI/BHMA

(9.5)

8193AA-PSA, 8193BK-PSA, 8193D-PSA, 8193G-PSA

(15.0)

PŚA

.220" (5.6)

Min door gap .250", max door gap .700'

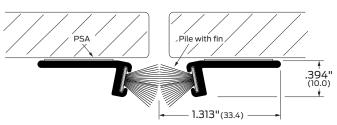
Nylon brush

— **.965**"(24.5) –

AA, BK, D, G

BHMA Min door gap .375", max door gap 1"

### 98



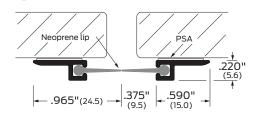
A, BK, D, G

ANSI/BHMA

98AA-PSA, 98BK-PSA, 98D-PSA, 98G-PSA

Min door gap .250", max door gap .625

### 8194



AA, BK, D, G

PSA

ANSI/BHMA

8194AA-PSA, 8194BK-PSA, 8194D-PSA, 8194G-PSA R3B735

Min door gap .250", max door gap .700'

See Weatherstripping Accessories & options page for details.

### Finishes:

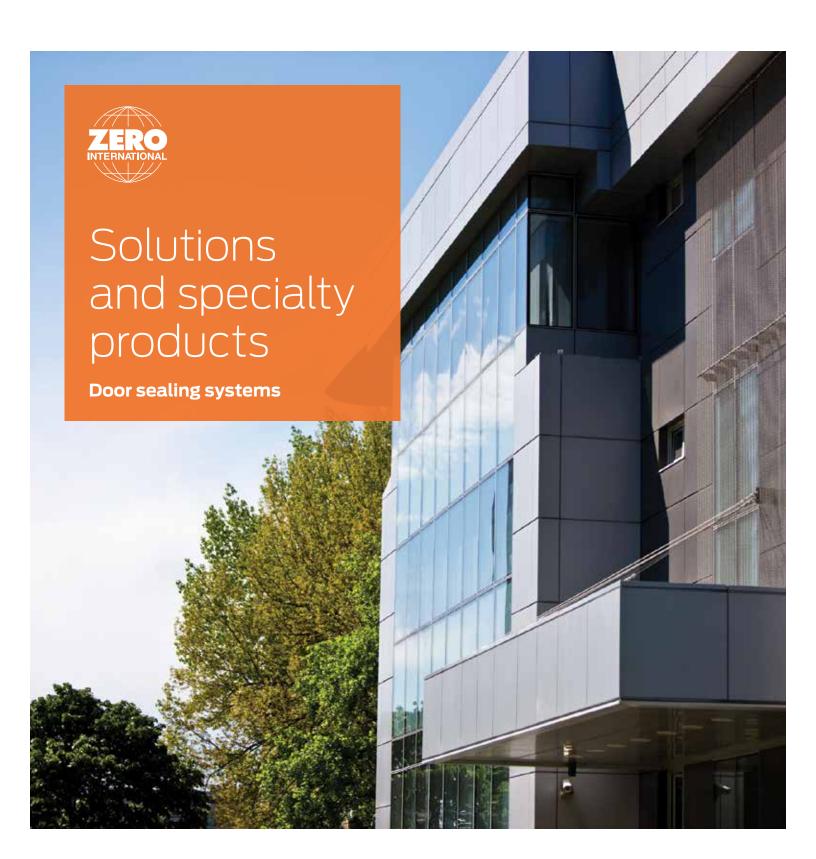
Aluminum clear anodized BK Aluminum black anodized Aluminum dark bronze anodized D G Aluminum gold anodized

### Options:

PSA Pressure-sensitive adhesive ZAG Ligature-resistant gasketing

PSA models use highest-quality foam-based, double-sided tape.





973 Bio......

974 Bio.....

### Solutions and specialty products

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Solutions and specialty products Introduction

# Zero solutions

When presented with a challenging application, turn to Zero for solutions designed to perform together for optimal results.

Piecing a solution together across multiple product and manufacturers adds time, complexity and risk. Instead, Zero offers proven solutions for a variety of applications, including: sound control, fire and smoke seals, flood barriers to ADA access systems and more.

- Fire and smoke seal: When a positive pressure rating is needed, turn to Zero intumescent seals that are self-extinguishing and flame retardant
- Sound control: For single and pairs of doors,
   Zero offers STC rated sound traps to improve the acoustical performance of your facility
- ADA access: For accessible openings Zero offers ADA access systems that minimize opening and closing force and meet ADA threshold height requirements
- opening and closing force and meet ADA
  threshold height requirements

  Flood barrier: Zero's solution for flood prone areas protects from water ingress with a shield that blocks incoming flood waters

For your piece of mind, look to Zero for time proven specialty solutions designed to work together. Zero's commitment to quality and reliability ensure, that at critical moments, the systems you depend on to protect your building and its occupants will perform as intended.



# Intumescent solutions



# Positive pressure fire solutions for doors

ZERO's many years of leadership and innovations in developing fire and smoke seals for international and U.S. positive pressure code requirements have produced top-quality components and engineered gasketing systems that meet the highest standards of design and life safely. Our expertise in intumescent technology provides special value for the entire building team spanning a wide range of fire protection applications.

Zero's positive pressure seals are tested and listed according to U.S. listing agencies' classifications for Category G edge sealing systems and Category H smoke and draft control systems. (See listing at right for category definitions.) Category G edge seals are required for use on Category B wood core doors. Category H smoke seals are required for all positive-pressure doors carrying "S" labels.

Our inutmescent material is used in OEM Category A doors to eliminate the need for add-on seals to achieve positive-pressure ratings. Smoke seals may still be required.

Products tested for fire and smoke are identified in our catalog by these symbols:





Fire-rated

Smoke-rated

# U.S. Positive pressure testing definition of listing categories

### CATEGORY A

### Doors - No additional edge-sealing system required

This category includes doors that do not require the use of any intumescent in either the frame or the door. It also includes doors evaluated with intumescent incorporated into the edge of the door by the manufacturer. Category A doors are eligible to bear the "S" label for Smoke & Draft Control assemblies if a listed Category H "Smoke & Draft Control Gasket" has been applied to the assembly.

### CATEGORY B

### Doors - Additional edge-sealing system required

This category includes doors that require add-on intumescent sealing systems either surface-applied or built into the frame in order to meet positive-pressure fire test requirements.

Category B doors are eligible to bear the "S" label for Smoke & Draft Control assemblies if a listed Category H "Smoke & Draft Gasket" has been applied to the assembly.

### CATEGORY G

### **Edge-sealing systems**

This category includes systems that are surface-applied (such as kerf applied, adhesive backed or mechanically attached) to frames or doors. It includes meeting edge seals for use in pair and double-egress assemblies.

### CATEGORY H

# Smoke and draft control gasketing

This category includes gasket systems that are surfaceapplied (such as kerf applied, adhesive backed or mechanically attached) to frames or doors. It includes gasketing for the meeting edge for use in pair and doubleegress assemblies.

NOTE: This category covers gasket systems that have been evaluated for use in positivepressure-rated assemblies but do not "provide" an edge-sealing system to the opening (see

# Testing and compliance

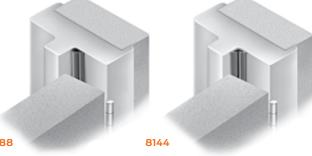
U.S.		International	
UL 10B	Standard for fire tests of door assemblies	CAN/ULC-S104-10	Canadian standard method for fire tests of door assemblies.
UL 10C	Standard for positive pressure fire tests of door assemblies	International Standards Organization ISO 3008 2007	Fire-resistance tests - door and shutter assemblies
UL 1784	Standard for air leakage tests of door assemblies and other opening protectives.	British standard institute BS 476-PART 22 1987	Methods for determination of the fire resistance of non-load bearing elements of construction
IBC 2018	International building code	British standard institute BS 476-PART 31 1983	Methods for measuring smoke penetration through doorsets and shutter assemblies
NFPA 105	Standard for the installation of smoke door assemblies	BS EN 1634	Fire-resistance tests for door and shutter assemblies
NFPA 252	Standard methods of fire tests of door assemblies	Building and regulatory test Australia / New Zealand AS 1530.4	Fire resistance test



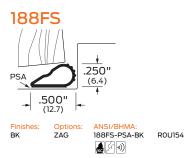
# Intumescent solutions

# Category G and Category H seals

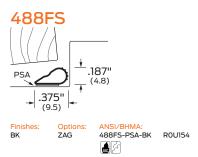
Our extruded, surface-applied fire and smoke seals are engineered for improved performance and shelf life. These self-extinguishing, flame-retardant seals are formulated with a proprietary chemistry using silicone and intumescent.



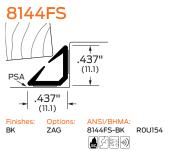
188 /488



Intumescent rubber for fire and smoke protection. PSA standard. 45-minute fire rating.



PSA standard.



Intumescent rubber for fire and smoke protection. PSA standard.

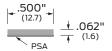
# Head & jamb FS3003 intumescent seals

Intumescent fire seals for use where smoke and draft control is not required. Can be mortised into wood doors or frames, or into edge strips. Wide range of choices tested to positive pressure standards, including UL 10C and BS 476-Part 22 1987.

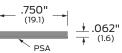
Available in black color. Supplied in 8 feet (2.4m) coil.

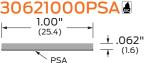


# 3062500PSA

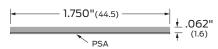


Provides 30 minutes fire resistance. Two parallel seals can provide 60 minutes

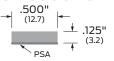




# 30621750PSA

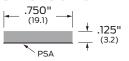


# 3125500PSA



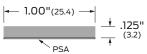
Suitable for softwood constructions or where the gap between the door and the frame is greater than usual

# 3125750PSA 🛦



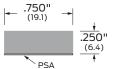
Provides 60 minutes fire resistance. Can be notched to fit around hinges.

# 31251000PSA

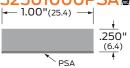


Larger seal helps control door distortion. May also be used between the door frame and masonry.

# 3250750PSA







# Intumescent technology & firestopping solutions



# Intumescent material definitions and physical properties

	FS3003	FS4004	
Activation Temperature	350°F (176°C)	550°F (288°C)	
Expansion volume	16-18 X	80 X	
Expansion pressure	27 PSI (.0187 N/mm )	131 PSI (.09 N/mm )	
Multi or controlled directional	<b>√</b>	V	
Stability after expansion	Very good	Poor	
Char	Soft & fluffy	Fluffy	
Flame-resistant	<b>V</b>	V	
Moisture-resistant	<b>√</b>	V	
Chemically inert /paintable	<b>√</b>	V	
Non-carcinogenic	<b>V</b>	V	
Long-life (no deterioration)	<b>V</b>	V	
Odor-free	<b>√</b>	<b>√</b>	
Color – standard	Black	Red	

## **Specifications:**

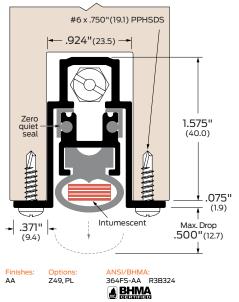
Stock Sizes:

Thickness .062"(1.6), .125"(3.2), .250"(6.4)

.375"(9.5), .500"(12.7), .750"(19.1), 1.00"(25.4), 1.75"(44.5), 2.00"(50.8)

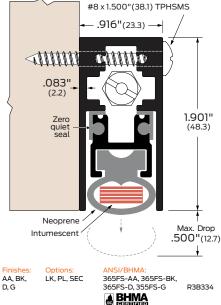
# Intumescent automatic door bottoms

# 364FS



Mortised. Intumescent fire protection

# 365FS



Surface-mounted application, Intumescent fire protection.

### Finishes:

Clear Anodized Aluminum вк Black Anodized Aluminum Dark Bronze Anodized Aluminum Gold Anodized Aluminum

Z49 Removable end cap Pull out SEC Torx security screws Locking key

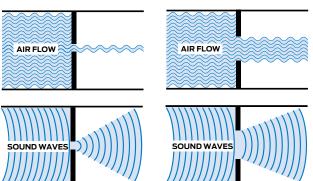


ZERO's SOUND TRAP sound control systems are solving sound problems in all types of facilities—including performing arts centers, recording studios, commercial offices, hospitals, schools, churches, hotels and apartment buildings, as well as industrial plants, embassies and government buildings.

### Adjustable gasketing: key to our success

Nobody does sound control better than ZERO. Our sound seals and systems are built to withstand the stress of the installation process and perform reliably. We use advanced technology to master two critical challenges: creating an effective sound barrier at the perimeter of the door AND preventing gaps in that barrier for the life of the assembly.

Gaps in sound barriers are a major problem because sound travels through any opening with very little loss. While the amount of air flowing through a gap increases in proportion with the size of the gap, the size of the gap in a sound barrier does not matter. A small hole transmits almost as much sound as a much larger gap.



Because of this phenomenon, any unsealed gaps effectively cancel out the noise reduction benefits of even the highest-rated sound doors. To be effective, acoustical door assemblies require gasketing that provides a **complete**, **uninterrupted and air-tight** seal around head, jamb and sill. If all sides of the door are not sealed, the gasketing used will provide little or no sound-control value.

Imperfect alignment is a common cause of gaps even in newly installed gasketing. Problems can also surface later on as buildings shift and settle and doors cycle through changes in temperature and humidity. ZERO solves the problem efficiently with adjustable gasketing.

Models such as the **770 adjustable jamb-applied gasket** are designed to perform consistently over time. When clearances increase, a few turns of a screwdriver is all it takes to restore a sound-tight seal.

# Sound control solutions

### Proven solutions for sealing the gaps

Our featured SOUND TRAP gasketing systems can satisfy a wide range of commercial and industrial sound-control applications for single swinging doors — as well as provide privacy behind double doors for typical office applications.

# Sound transmission class (STC) table

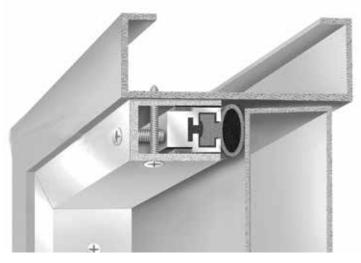
STC	Performance	Description
50 - 60	Excellent	Loud sounds heard faintly or not at all.
40 - 50	Very Good	Loud speech heard faintly but not understood.
35 - 40	Good	Loud speech heard but hardly intelligible.
30 - 35	Fair	Loud speech understood fairly well.
25 - 30	Poor	Normal speech understood easily and distinctly.
20 - 25	Very Poor	Low speech audible.

Sound Transmission Class (STC) ratings indicate the ability to prevent the transfer of sound from one area to another. For example, 12 inches of reinforced concrete would be rated at 56 STC, while 1/4" plate glass is 26 STC.

# Zero sound trap systems high level rating

Gasketing system	Head & jamb	Threshold	Door bottom	STC Rating
STC 1	3708 &119WB	564B	367	53 STC
STC 2	770 & 119WB	564B	367	52 STC
STC 3	770 & 119WB	656B	367	51 STC
STC 4	170 & 119WB	564B	367	51 STC
STC 5	485 & 119WB	565B	361	49 STC
STC 6	870 & 119WB	564B	365	49 STC

All systems tested with STC 55 Doors (rated as panels).



The integrity of the system, properly installed, is essential to its sound rating. ZERO guarantees the performance of SOUND TRAP systems in rated assemblies provided that other manufacturers' gasketing products are not combined with ZERO components.

# Sound control solutions - single door

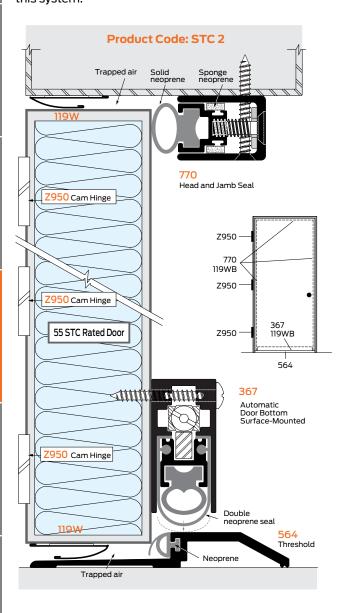


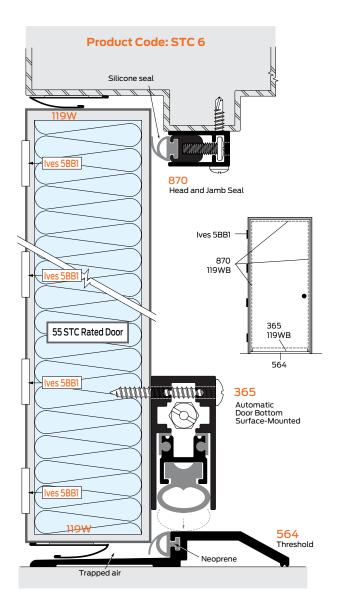
# Sound trap 52 STC sealing system

Our SOUND TRAP 52 STC rated systems are designed for use with sound-rated single metal doors with a casedopening frame. They provide an STC 52 rating when properly fitted with STC 55 or higher acoustical doors. That level of sound control means loud sounds will be heard only faintly, or not at all, on the opposite side of the door, which satisfies the typical needs of recording studios and performance halls. It is also suitable for office buildings and other commercial facilities that need to mute very loud noise originating from outside, such as the sound of aircraft overhead or heavy traffic nearby, as well as interior equipment noise. A metal frame without a stop is recommended in order to use the Model #770 adjustable head and jamb seal, which is an important component in this system.

# Sound trap 49 STC sealing system

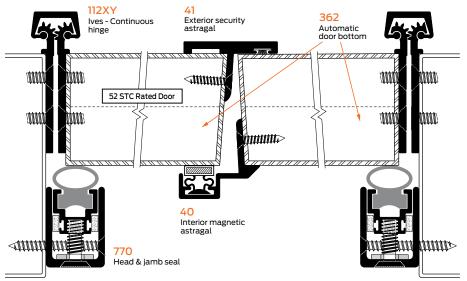
SOUND TRAP 49 STC rated systems for single doors feature several alternative head and jamb seals designed for use with frame stops. The 49 STC value they provide means that loud speech will be heard only faintly and cannot be understood on the opposite side of the door. That level of acoustic performance provides very good sound control suitable for a variety of applications ranging from busy schools to multi-family residential buildings and any settings requiring private conversations, such as doctors' offices, counseling centers and churches. A metal frame with a stop is recommended.

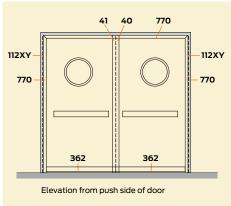






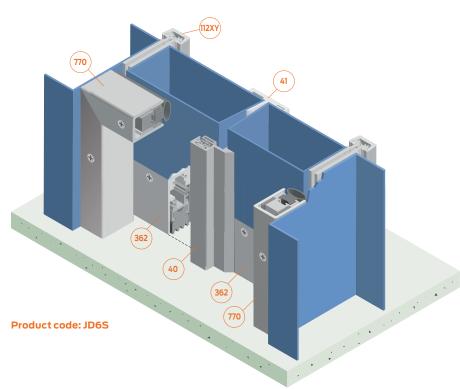
# Sound control solutions - pairs systems





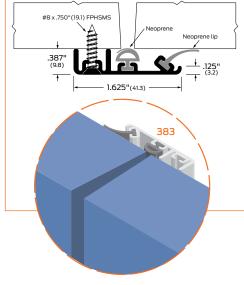
# Sound trap system JD6S

Pairs of doors pose additional challenges for sound control because there are more openings to seal. The need for a meeting stile means there will always be relatively more sound leakage through pair assemblies than with single doors. Properly fitted with STC 52 or higher acoustical doors, ZERO's **SOUND TRAP-PAIRS** system for metal doors achieves an office-friendly estimated STC rating of 41 with an optimal configuration that balances those limitations with appropriate, cost-effective technology.



### Alternative seal option to 40/41

For a pairs configuration with suitable wood doors, you need Model #383 astragals for the meeting stile. #383 provides three sets of seals to block sound: the neoprene bulb with extra "lip" of neoprene in the primary seal at the meeting edge, plus another neoprene "finger" for added sound cushioning against the active door.



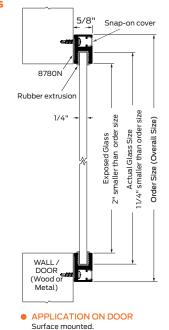
# Sound control solutions

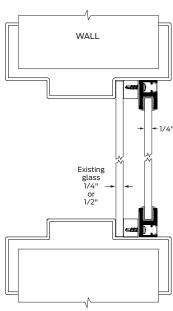


# 8880 - Vision Lite for doors, walls and acoustical windows

To increase sound rating for doors, walls and acoustical windows of any thickness. Used with 1/4" thick glass. (Glass sold separately.) Aluminum extrusion frame with concealed screws. Supplied with factory mitered corners.

# 250" (6.4) Laminated glass





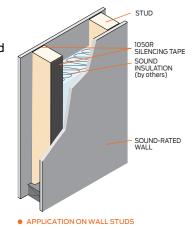
APPLICATION ON WINDOW
 Surface mounted on any edge of window
 frames.

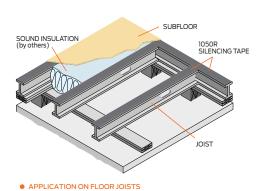
# Structural acoustics - floors and walls

Sound-damping materials and products used to isolate or insulate structural elements in floors and walls perform a vital role in reducing vibrations to minimize sound transmission.

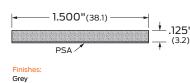
### Structural silencing tape 1050R

- Extruded low-density, high-elasticity neoprene rubber, self-adhesive one side.
- Absorbs and dampens vibrations.
- Designed for application to floor joists and wall studs and install as usual.
- Supplied in 75-foot coils.





1050R



# Finishes:

AA Clear Anodized Aluminum
BK Black Anodized Aluminum

D Dark Bronze Anodized Aluminum

Gold Anodized Aluminum





# Sound control systems

ZERO has designed and tested its systems against air, light, smoke, fire and sound to demonstrate the effectiveness of these products and materials. By specifying a complete "Control System," you are assured that the components installed for head, jamb and sill will perform properly together. All tests were performed in accordance with nationally accepted standards by independent laboratories.

# Sound - single doors

System no.	Door rating	Type of door	Head & jamb	Door bottom	Threshold	STC
STC1	55	Metal	3708 + 119WB	367	564B	53
STC2	55	Metal	770 + 119WB	367	564B	52
STC3	55	Metal	770 + 119WB	367	656B	51
STC4	55	Metal	170 + 119WB	367	564B	51
STC5	55	Metal	485 + 119WB	361	565B	49
1T	52	Metal	770	367	564A	47
2T	52	Metal	870	361	565	44
2U	52	Metal	485	361	565	44
1R	51	Metal	770	361	565	44
4R	51	Metal	370	361	565	43
5S	52	Metal	328	361	565	42
5T	52	Metal	312	351	564	42
SU299	38	Wood	1885	None	564A	37
TR298	35	Wood	8144FS	253	1685R	35
LG302	36	Wood	188S	369	None	35

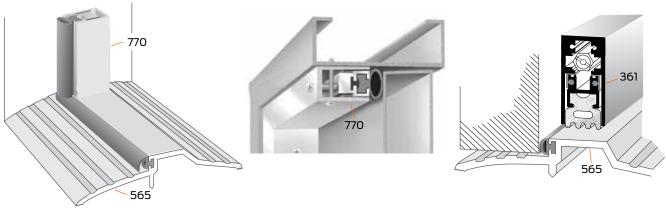
# Sound - double doors

System no.	Door rating	Type of door	Head & jamb	Door bottom	Meeting stiles	STC
RM1	48	Metal	770	367	383/139/118B	47
JD6S		Metal	770	362	40	41
JD8S		Metal	475	362	156/56	36
AT4	37	Metal	188/119WB	564	383	36
AT5	37	Metal	485/119WB	564	383	35
AT7	37	Metal	485/119WB	839/544	383	35

# **Applications**

All types of openings with a sound-reduction requirement, including:

- High-performance sound blocking, such as recording and broadcast studios, theaters and concert halls, commercial
  industrial factories.
- Privacy and security needs, such as doctors' offices, corporate offices, school counseling offices, embassies and military.



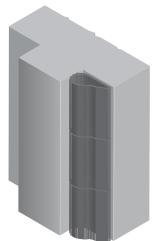
# Specialty head and jamb protection Ligature-resistant gasketing (ZAG option)

ZERO

Zero offers a ligature-resistant option to prevent gasketing from being used for unintended purposes, including harming self or others. The rubber in our patented ligature-resistant gasketing is scored before insertion into aluminum extrusions. This allows the seal to still function normally for its specified purpose, but it will now break apart if removed from the housing or if any weight is placed on the seal.

Applications for ligature-resistant gasketing include correctional facilities and mental health facilities.

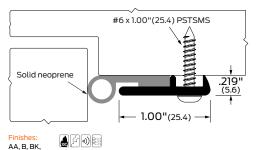
Gasketing ordered with this patented feature is installed as usual, with no special handling required. In addition to the applications shown below, the ligature-resistant option can be supplied on request with most other Zero gasketing. To order, add ZAG to the part number. All products with the ZAG option are supplied standard with Torx security screws for added security.



### **Applications**

Correctional facilities, hospitals, psychiatric and mental health facilities.

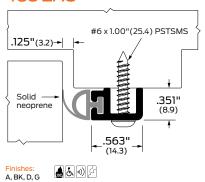
# 328 ZAG



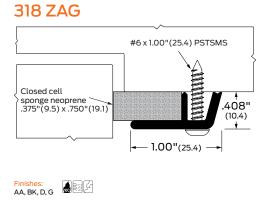




# 485 ZAG







# Finishes:

BIO Antibacterial rubber white color
A Aluminum Mill Finish
AA Clear Anodized Aluminum
B Bronze
BK Black Anodized Aluminum
D Dark Bronze Anodized Aluminum

G Gold Anodized S-BK Silicone, Black S-BR Silicone, Brown S-CL Silicone, Clear S-GY Silicone, White

### Options:

ZAG Ligature-Resistant





# Cam lift full mortise hinges

Mortise-type cam hinges for use with sound-insulating doors utilizing acoustical seals. The cam action greatly improves the sealing characteristics along the door perimeter, lifting and lowering the door with the swing.

Available for right or left-hand swinging doors. Cam lift hinges will not bind door closures when doors are hung within accepted industry standards. (Tested with LCN 4041 Series original).

Finish: STST630 (US32D).

(	Cam	litt tul	l mort	ise h	inges

Part #	Door rating (11/2 pairs)	Screw size (metal doors)	Lift (180° opening)
Z955	Up to 200 lbs.	12-24 x 3/4" UC	3/16"
Z953	Up to 300 lbs.	12-24 x 3/4"	1/4"
Z950	Up to 500 lbs.	12-24 x 3/4"	5/16"
Z9500	Up to 900 lbs.	5/16-18 x 3/4"	5/16"









**7250ST** 12-24 x 3/4"

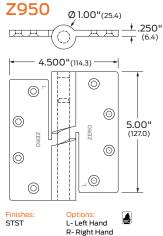
**7255ST** 12-24 x 3/4" UC

**7252ST** 5/16-18 x 3/4"

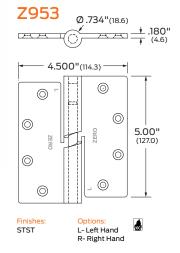
12 x 1 1/4" SMS

Hinge:	Stainless Steel US304
Pin:	Stainless Steel 420 J2
Type:	Mortise/ Handed - specify right or left hand
Clearance:	Minimum clearance at head of frame is $3/16$ ". For doors greater than $1-3/4$ " clearance is $1/4$ "
Finish:	630 (US32D)
Note:	For Z950 and Z9500 screws must be engaged no less than .350" in ASTM A-36 steel reinforcement

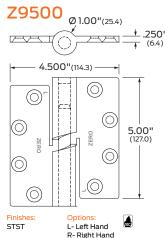




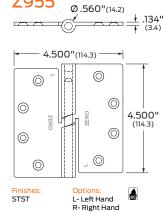












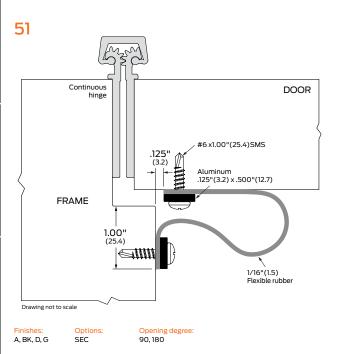
# Finger guards

# Finger guards

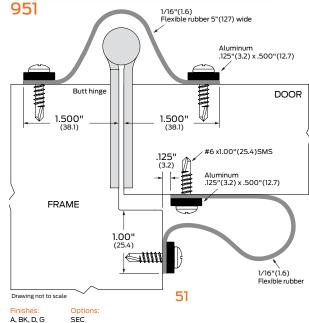
Hand and finger protection for heavy-duty industrial applications, child care, school safety, hospitals, and workplaces.

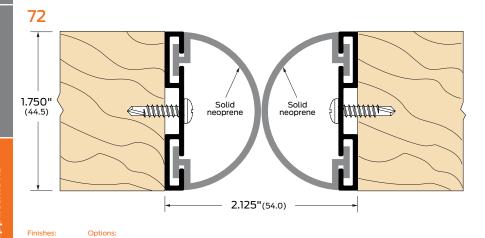
A commercial-quality, maintenance-free product. Aluminum and flexible rubber available in grey color.

**51A-90 (6.5" wide)** For door opening up to 90° **51A-180 (8.5" wide)** For door opening up to 180° **951** Cover for mortise type hinges











### Finishes:

A Aluminum Mill Finish
BK Black Anodized Aluminum

Dark Bronze Anodized Aluminum
Gold Anodized Aluminum

## Options:

SEC Torx security screws



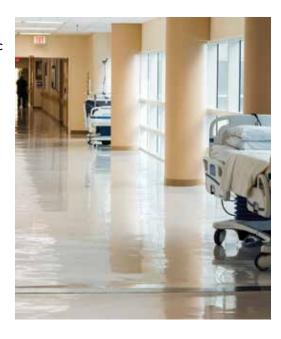
# Finger guards

# BioWall™ antibacterial gasketing

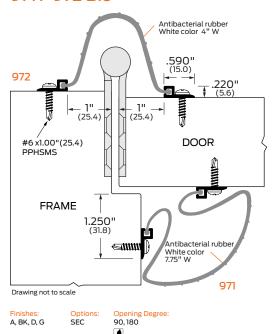
Zero developed **BioWall**<sup>™</sup> **antibacterial** rubber in response to rising hygienic standards and increasing demand for practical, antimicrobial applications in many facilities. Applications range from hospitals, nursing homes and doctors' offices, to veterinary facilities, to schools. Wherever minimizing microbial exposures is crucial to occupant and visitor well-being, BioWall can help maintain a sanitary work environment.

Breakthrough technology. This non-toxic rubber inhibits and suppresses microbial growth and reproduction. It was formulated using revolutionary, non-toxic infusion technology, combined with proprietary extrusion technology, natural antimicrobial ingredients, and breakthrough synthetics. It provides long-lasting defense against bacteria, fungi, molds and other microorganisms.

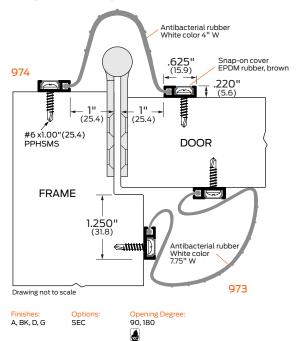
Durable. Our technology provides natural resistance to abrasion, washing, and exposure to UV radiation and various chemicals. Zero BioWall antibacterial gasketing is designed to withstand surface wear and tear to maintain long-lasting antimicrobial protection.



# 971 / 972 Bio



# 973 / 974 Bio



# **BioWall finger protection**

- Antibacterial hand and finger protection for child care facilities, hospitals and nursing homes, doctors' offices, and other locations requiring highest standards of hygiene.
- Available in two versions. Mountings in models #973 and #974 are concealed with additional BioWall rubber for aesthetics and enhanced antibacterial protection.

### Finishes:

# Options:

Aluminum Mill Finish вк

Black Anodized Aluminum

Dark Bronze Anodized Aluminum Gold Anodized Aluminum

SEC Torx security screws

# ADA Access systems - safety products



ZERO's ADA Access Systems help solve the challenge of meeting the American Disability Act Requirements for access into public buildings. The components work together to minimize required door-opening and closing force and to meet threshold height requirements, and fully satisfy the ANSI, ADA standards.

# American National Standard Institute (ANSI), American With Disabilities Act (ADA), ICC/ANSI A117.1-217

Requirements are as follows:

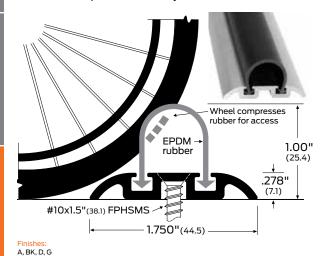
- 1) Fire doors shall have the minimum opening force allowable by the appropriate administrative authority. Other doors:
  - (a) Interior hinged doors: 5 lbf (22.2N) (b) Sliding or folding doors: 5 lbf (22.2N)

These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

2) Thresholds at doorways shall be 1/2" (13 mm) high maximum for other types of doors. Changes in level of 1/4" (6mm) high maximum shall be permitted to be vertical. 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.

# 8452 Wheelchair accessible shower threshold

Designed for use when a shower must be accessible to a wheelchair. The rubber gasket keeps water in while allowing the wheel to pass over easily.



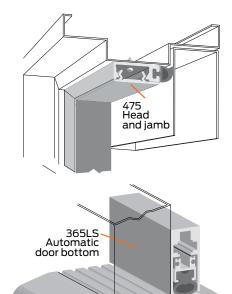
# "Light spring" "LS" automatic door bottoms for ADA approved doors

350LS, 351LS, 364LS, 365LS, 366LS "LS" models require lower operating force. "LS" models are suitable for both sliding doors and swinging doors. Outside dimensions are unchanged from standard products.

# Test door: 36" X 84" x 1-3/4"

Test resu	ults:	Opening force (lbs.)	Closing force (lbs.)
Test 1	475 Head and Jamb	1.75	7.90
Test 2	475 Head and Jamb 365LS Automatic Door Bottom	1.90	9.05
Test 3	Closing force with no seals	-	6.75

# System ADA 1000



475 and 365LS - 1.9 lbs opening force

### Finishes:

Aluminum Mill Finish Clear Anodized

BK Black Anodized Aluminum Dark Bronze Anodized Aluminum

Gold Anodized Aluminum



# Flood barrier shield

# Flood barrier shield for doors helps safeguard building contents

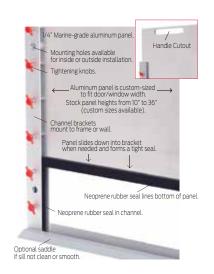
This removable barrier answers pleas from builders for help in protecting doors and building contents from water ingress in flood-prone areas. When water from heavy rain accumulates, the **Flood barrier shield** effectively blocks up to a foot or more of flood waters from permeating door or window openings.

Available in 10, 12, 20, 24, 30 and 36 inch high barriers (other sizes available upon request), the lightweight aluminum shield requires no tools for insertion into premounted vertical channels attached to either the door frame or adjacent walls. Widths up to 36" standard. Widths greater than 36" available as an engineering special.



The key to the shield's impermeability is the use of closed cell sponge (CCS) neoprene rubber engineered by Zero to ensure a water-tight seal. The rubber lines the aluminum channel brackets and the bottom of the shield. The neoprene also compensates for gaps at the threshold.

Note: Aluminum panel insert is supplied 7/16" shorter than order width



### Flood barrier shield for doors

**2070A - 10** 10" High

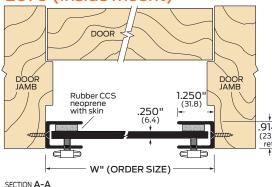
2070A - 20 20" High 2070A - 24 24" High

2070A - 30 30" High

2070A - 36 36" High

Each flood barrier shield is custom fabricated. Specify exact width needed and installation option required.

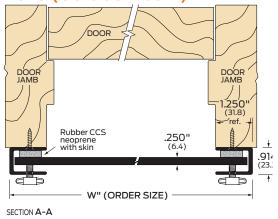
# 2070 (Inside mount)

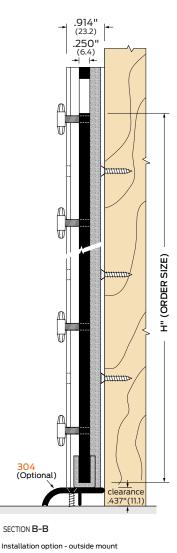


Installation option - inside mount

Installation option - outside mount

# 2070 (Outside mount)

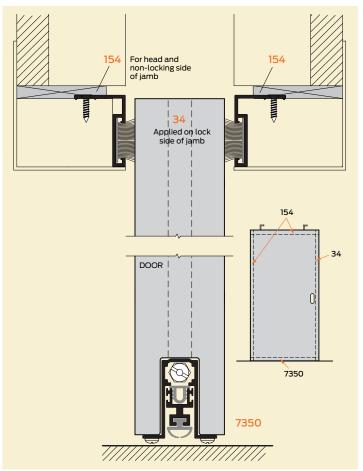




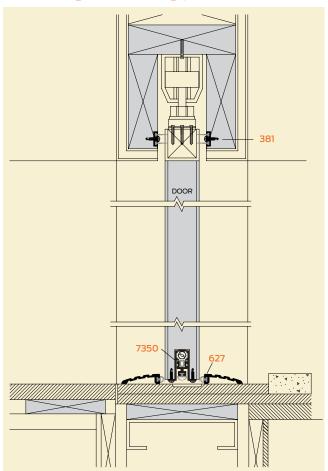
# Sliding and pocket doors



# Gasketing for sliding and pocket doors



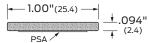
# Gasketing for latching pocket doors

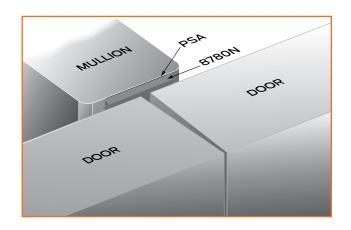


# Seal for mullion application

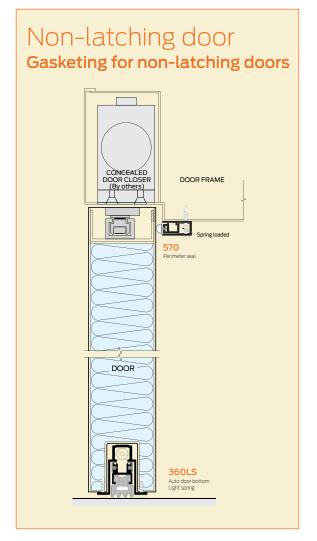
The new 8780 is a closed cell sponge neoprene strip 1" (25.4) wide x 3/32" (2.4) thick with self-adhesive tape for mounting directly to the face of the mullion at point of contact with closed doors.

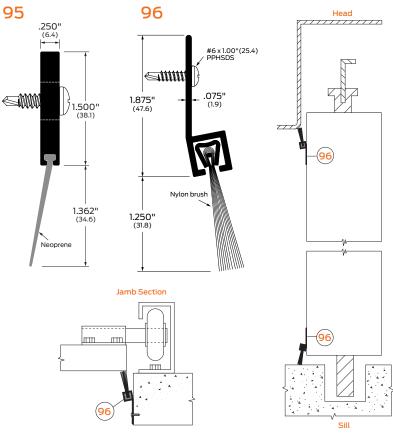
# 8780N



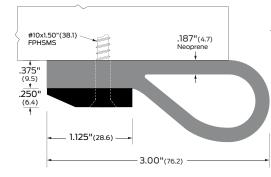


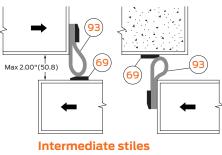
# Heavy-duty overhead doors

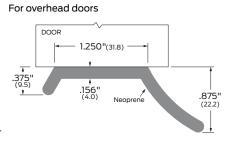




# 3/16" thick extreme temperature neoprene looped as shown (Government specification R-6855, Class II, Grade 40.)



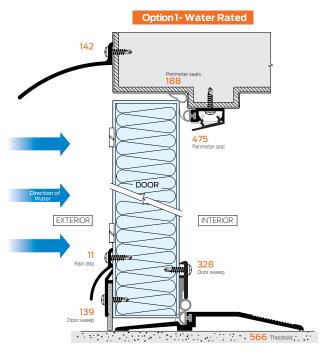


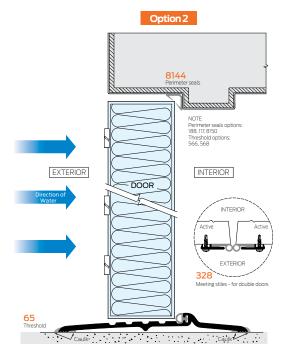


8047R

# Hurricane protection wind-driven water infiltration (Dade County Florida)

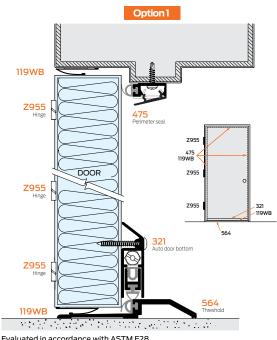




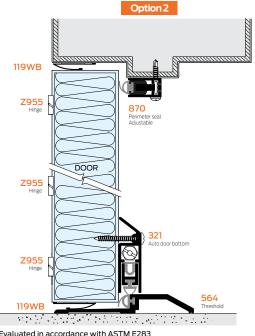


# "Safe haven" room gasketing and areas of rescue assistance

Air infiltration - 110 MPH (165KM/H) Wind velocity - air leakage 0.56 CFM (2.8CMH)



Evaluated in accordance with ASTM E28

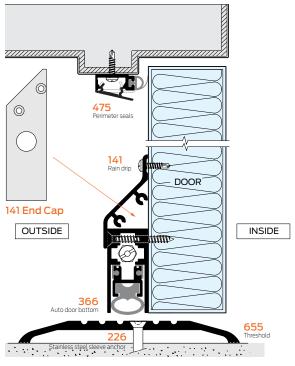


Evaluated in accordance with ASTM E283

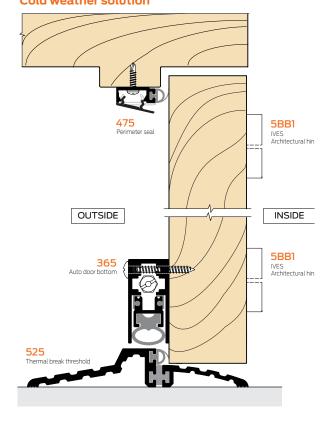


# Typical gasketing applications

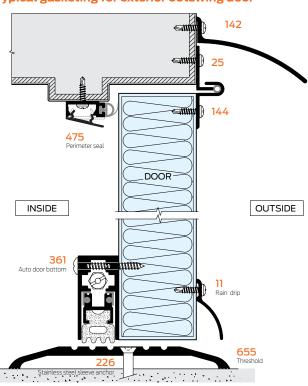
# Typical gasketing for exterior inswing door



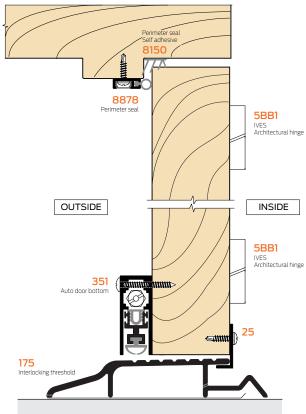
# **Cold weather solution**



# Typical gasketing for exterior outswing door



# Typical gasketing for residential



# Hotel gasketing solutions

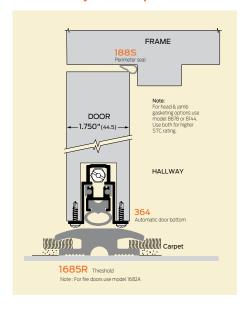




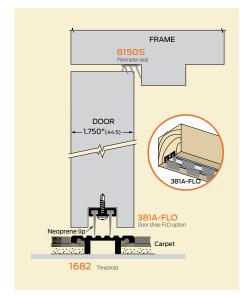




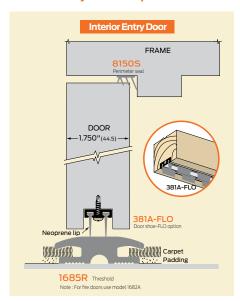
# Interior entry doors - option 1



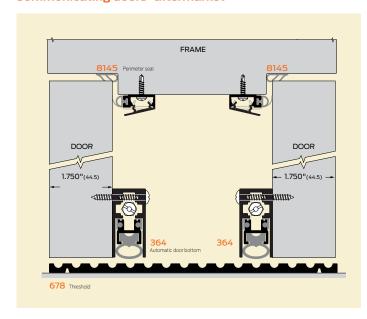
# **Communicating doors - new construction**



# Interior entry doors - option 2



# **Communicating doors- aftermarket**







# Air control systems

# Air infiltration for smoke doors, outside doors, air lock doors, air tight doors.

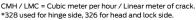
### Air flow pressure applied to a door as listed per testing standards:

.10 inches of water	24.90Pa	15 Miles/Hr
.30 inches of water	76.00Pa	25 Miles/Hr
.60 inches of water	150Pa	35 Miles/Hr
1.23 inches of water	306Pa	50 Miles/Hr
2.76 inches of water	688Pa	75 Miles/Hr
4.92 inches of water	1223Pa	100 Miles/Hr

Pressure Rate	Standard	Leakage Rate
10 inches of water	NEPΔ 105 LIL 1784 IBC 715 4 3 1 STD	3.0.CEM= 16.95.CMH/I.M

# Standard

	Stan	dard	
Pressure Rate	System#	Part#	Leakage Rate
.30 inches of water	K	No gasketing	11.36 CFM= 64.18 CMH/LM
.30 inches of water	Z-1	475+565+365	.02 CFM= .11 CMH/LM
.30 inches of water	D*	328/326 +164+154	.07 CFM= .39 CMH/LM
.30 inches of water	A*	328/326 +565+361	.03 CFM= .17 CMH/LM
.30 inches of water	В	770+565+361	.04 CFM= .22 CMH/LM
.30 inches of water	Z-2	370+565+365	.07 CFM= .39 CMH/LM
.30 inches of water	E	328+164+361	.17 CFM= .96 CMH/LM
.30 inches of water	F	318+564+351	.25 CFM= 1.41 CMH/LM
.30 inches of water	SM-11	8144+8770+355	.27 CFM= 1.52 CMH/LM
.30 inches of water	G	312+565+351	.35 CFM= 1.97 CMH/LM
.60 inches of water	SM-12	475+565+365	.04 CFM= .22 CMH/LM
.60 inches of water	SM-14	328+565+361	.06 CFM= .33 CMH/LM
.60 inches of water	SM-16	770+565+361	.07 CFM= .39 CMH/LM
.60 inches of water	SM-17	370+565+365	.08 CFM= .45 CMH/LM
.60 inches of water	SM-18*	328/326+164+361	.25 CFM= 1.41 CMH/LM
1.2 inches of water	SM-19*	328/326+565+361	.09 CFM= .51 CMH/LM
1.23 inches of water	SM-20	770+565+361	.11 CFM= .62 CMH/LM
1.23 inches of water	Z-3	370+565+365	.16 CFM= .90 CMH/LM
1.23 inches of water	SM-21*	328/326 +164+361	.38 CFM= 2.15 CMH/LM
1.23 inches of water	SM-22	8144+8770+355	.64 CFM= 3.62 CMH/LM
2.76 inches of water	SM-23	8144+8770+355	1.39 CFM= 7.85 CMH/LM
4.92 inches of water	SM-24	475+564+119WB	.56 CFM= 2.82 CMH/LM
CMH / LMC = Cubic meter per bo	ur / Linear meter of cr	ack	

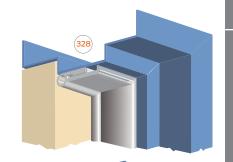


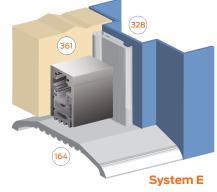
### Smoke and draft control

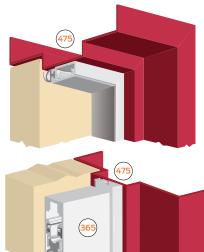
Fire door assemblies shall also meet the NFPA 105 requirements for a smoke and draft control door assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot [0.01524 m3/(sq m2)] of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Installation of smoke doors shall be in accordance with NFPA 105.

### **Conclusions and observations**

- 1) To comply with NFPA 105 and/or any of the standards that refer to air/smoke infiltration rates, door seals must be specified and installed. In general a door will not pass the smoke test without gasketing.
- 2) The higher the air pressure differential, the better the quality of the gasketing is needed.
- 3) Adjustable gasketing facilitates installation and allows adjustment when needed for consistent performance over time.
- 4) Hospitals are designed with the idea of keeping patients in their rooms in case of fire. In a room that measures 10 x 10 x 9 feet with a  $3 \times 7$  foot door, the room will be 100% filled with smoke from smoke-filled corridors in 15 minutes if the door only complies with the UL 1784/ NFPA 105 maximum leakage standard 3.0 CFM. If the leakage rate is reduced to .02 CFM using smoke control systems, it will take 37 hours for smoke to fill that same room.
- 5) Although fast, efficient evacuation is the goal in school fires, prudent design should provide adequate smoke protection exceeding 15 minutes for students who might remain trapped in fully engaged fire zones.









# Replacement rubber reference chart



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