

Static Fire Damper • 3 Hr. Rated • Curtain Blade • Horizontal or Vertical Mount • Galvanized Steel

STANDARD CONSTRUCTION

- FRAME:** 22 GA. galvanized steel, one-piece rollformed.
- BLADES:** 22 GA. galvanized steel, curtain type.
- FUSIBLE LINK:** UL-Listed 165°F, replaceable.
- CLOSURE SPRING:** For horizontal models, heat-treated type 301 stainless steel constant force coiled negator type
- FINISH:** Mill.

UNDERWRITERS LABORATORIES INC.®

CLASSIFIED STATIC FIRE DAMPER
FIRE RESISTANCE RATING 3 HR

FILE # R16591

This fire damper meets the construction and performance requirements of:

- Underwriters Laboratories Inc. Standard 555
- National Fire Protection Association Standard 80 and 90A
- ICC's International Building Code
- California State Fire Marshal Listing #3225-1328:101
- Underwriters Laboratories Inc. Approved for dual direction airflow and static closure conditions.
- Underwriters Laboratories Inc. Classified for use in fire resistive ratings of 3 hours or more.

OPTIONS

- 212°F fusible link
- Factory-supplied sleeves (20 GA. through 10 GA.)
- Type 304 stainless steel construction (for vertical mount only)
- PK1202 position indicator switch
- B-pan, round, oval, and square transitions
- Tab-lock retaining angles
- Perimeter flange
- Pull ring

NOTES

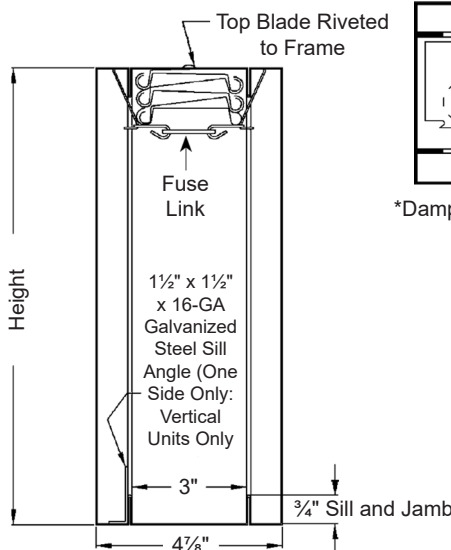
1. Nominal deductions will be made to the opening size given.
2. When not ordered with a factory sleeve, unassembled (knock-down) multiple panel units will not be shipped with required mullions, in these cases mullions are shipped by others.
3. A 14 GA. "Z" mullion, along with a minimum 9" sleeve, is required for all multiple panel, vertically mounted versions of this damper. See Model Detail A for details.
4. See SI-SSFD for information regarding stainless steel fire damper sizes.

DAMPER SIZES

Orientation	Horz & Vert	Horizontal (floor)		Vertical (wall)	
		Min Panel	Max Single Panel	Max Single Panel	Max Assy Panel
A	4"W x 4"H	48"W x 48"H	72"W x 36"W (36"W x 36"H each section)	36"W x 36"H	72"W x 72"W (36"W x 36"H each section)
B	4"W x 3"H (duct) (4"W x 5"H frame)	48"W x 43"H (duct) (48"W x 48"H frame)	72"W x 32"H (duct) (72"W x 36"H frame) (36"W x 32"H each section duct)	36"W x 32"H (duct) (36"W x 36"H frame)	72"W x 68"H (duct) (72"W x 72"H frame)
C	4"W x 4"H (duct) (6"W x 7"H frame)	46"W x 42"H (duct) (48"W x 48"H frame)	70"W x 31"H (duct) (72"W x 36"H frame)	34"W x 31"H (duct) (36"W x 36"H frame)	70"W x 67"H (duct) (72"W x 72"H frame)

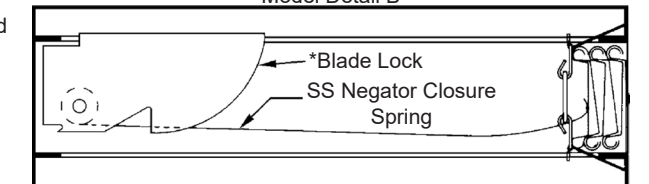
Vertically Mounted

Model Detail A

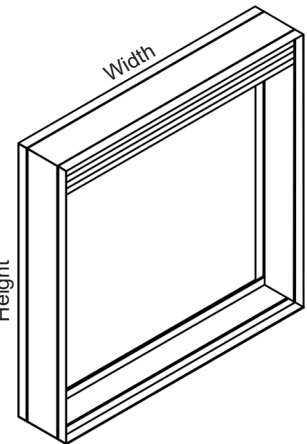
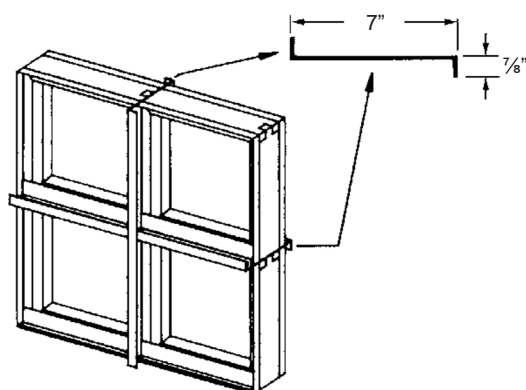


Horizontally Mounted

Model Detail B



*Damper to be installed with blade lock points facing downward and with access from above



In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

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PERFORMANCE DATA

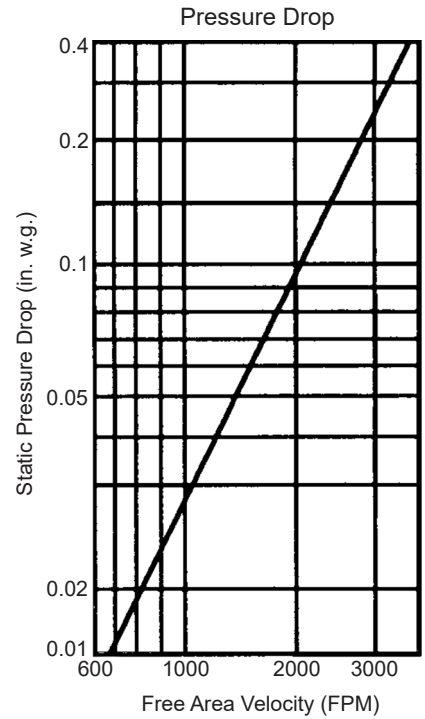
Free Area (sq.ft.)

Vertical Mount

Height (in.)	Width (in.)											
	4	8	12	16	20	24	28	32	36	40	44	48
4	.02	.06	.08	.13	.16	.20	.22	.26	.30	.33	.37	.40
8	.08	.19	.32	.48	.59	.72	.85	1.0	1.2	1.3	1.4	1.5
12	.16	.35	.60	.75	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.6
16	.19	.52	.79	1.0	1.4	1.7	2.0	2.3	2.7	3.1	3.4	3.6
20	.27	.65	1.0	1.4	1.9	2.1	2.6	3.0	3.5	4.0	4.5	4.8
24	.33	.84	1.1	1.7	2.2	2.8	3.1	3.6	4.2	4.8	5.3	5.7
28	.37	.95	1.4	2.0	2.6	3.2	4.0	4.4	5.0	5.9	6.4	6.9
32	.45	1.1	1.7	2.2	3.0	4.0	4.7	5.1	5.7	6.5	7.2	7.8
36	.49	1.2	2.0	2.6	3.5	4.5	5.2	6.0	7.1	7.7	8.1	8.9
40	.54	1.4	2.3	3.0	4.0	5.0	6.0	6.8	7.9	8.7	9.0	10.0
44	.58	1.6	2.5	3.3	4.4	5.4	6.6	7.7	8.5	9.5	10.2	11.1
48	.64	1.7	2.7	3.8	5.0	6.0	6.9	8.0	9.3	10.6	11.3	12.5

Horizontal Mount

Height (in.)	Width (in.)											
	4	8	12	16	20	24	28	32	36	40	44	48
4	.03	.09	.10	.20	.30	.30	.40	.40	.50	.60	.60	.70
8	.10	.20	.40	.60	.70	.90	1.0	1.2	1.4	1.5	1.7	1.8
12	.20	.40	.70	.90	1.2	1.5	1.8	2.0	2.3	2.6	2.8	3.1
16	.20	.60	.9	1.3	1.7	2.0	2.4	2.8	3.1	3.5	3.9	4.2
20	.30	.70	1.2	1.7	2.1	2.6	3.1	3.5	4.0	4.5	5.0	5.4
24	.40	.90	1.4	2.0	2.6	3.2	3.7	4.3	4.9	5.4	6.0	6.6
28	.40	1.0	1.7	2.4	3.0	3.7	4.4	5.0	5.7	6.4	7.0	7.7
32	.50	1.2	2.0	2.7	3.5	4.3	5.1	5.8	6.6	7.4	8.2	9.0
36	.50	1.3	2.2	3.1	4.0	4.8	5.7	6.6	7.4	8.4	9.2	10.1
40	.60	1.5	2.5	3.5	4.4	5.4	6.4	7.4	8.4	9.3	10.3	11.3
44	.60	1.7	2.7	3.8	4.9	6.0	7.0	8.1	9.2	10.3	11.4	12.4
48	.70	1.8	3.0	4.2	5.4	6.6	7.7	8.9	10.1	11.3	12.5	13.7



Intake air converted to standard air density.
Tested per AMCA Standard 500-D, Figure 5.3

$$\text{Free Area Velocity (fpm)} = \frac{\text{Flow (cfm)}}{\text{Free Area (sq.ft.)}}$$

For Free Area and Pressure Drop information for the B-Pan Transition, see SI-BPAN.
For Free Area and Pressure Drop information for the Round, Oval or Square Transition, see SI-TRFD.

Item #	Qty	Damper Size	Horizontal	Vertical	165°F	212°F						Union Made	
			Orientation		Fusible Link								
Arch. / Eng.:				EDR:		ECN:		Job:					
Contractor:													
Project:				Date:		DWN:		DWG:					

