

FD-ALB Static Curtain Fire Damper
UL555 Classified 1 ½ and 3 Hour
For Use in Static Systems

APPLICATION

Model FD-ALB is a 1 ½ or 3 hour UL classified static (fans off) curtain style fire damper for use in HVAC systems that turn off during a fire. Fire dampers are used for the protection of openings in walls, partitions, or masonry floors with fire resistance ratings of less than 3 hours for 1 ½ hour protective rating and 3 hour or more for 3 hour protective rating. The FD-ALB can be installed vertically in walls or horizontally in masonry floors and is rated for airflow in either direction.

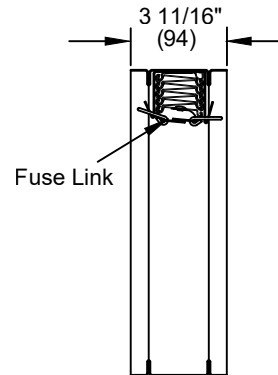
Standard Construction

Frame: Roll-formed galvanized steel in gauges required by UL listing R-25410.

Blades: Roll-formed galvanized steel in gauges required by UL listing R-25410.

Closure Springs: 301 stainless steel

Fuse Link: 165° F (74°C) is standard. 212° F (100°C) available option.



SIZE

Minimum: 4" (102) wide x 4" (102) high

Maximum:

Single Section 1 ½ Hour.

Vertical - 48" (1219) wide x 48" (1219) high.

Horizontal - 40" (1016) wide x 40" (1016) high

Multi-Section 1 ½ Hour

Vertical - 120" (3048) wide x 120" (3048) high

Horizontal - 120" (3048) wide x 40" (1016) high
or 96" (2438) wide x 48" (1219) high.

Single Section 3 Hour

Vertical or Horizontal - 40" (1016) wide x 40" (1016) high.

Multi-Section 3 Hour

Vertical or Horizontal - 80" (2032) wide x 40" (1016) high



National Fire Protection Association

NFPA Standards 80, 90A, 92A, 101 and 5000

ICC International Building Codes

CSFM California State Fire Marshal

Listing 3225-1722:0100

Canada ULC-S112 Fire Damper

OPTIONS

Sleeves - of various lengths and gauges

One Side Mounting Angles - 1 ½ Hour Standard

Two Sides Mounting Angles - Option 1 ½ Hour and 3 Hour Standard

Ratings - EMME R25410

UL 555 Fire Resistance Rating

Fire Rating: 1 ½ Hour (Less than 3 hours wall rating)
3 Hour (3 hours and More rating)

Notes:

1. Refer to the installation instructions for additional details.
2. Damper are furnished approx. ¼" (6) undersized, unless otherwise noted.
3. Dimensions shown in parentheses () indicate millimeters.



FD-ALB Static Fire Damper

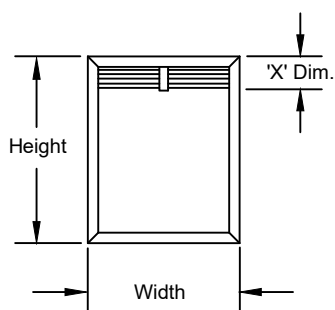
DRAWN BY: KSM	DATE: March, 2025	REV. DATE:	REV. NO.	DWG. NO.: PD-010
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S&P reserves the right to change specifications without notice.

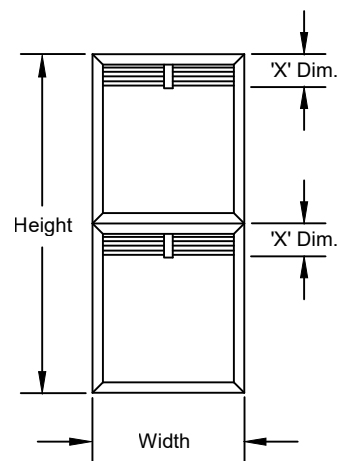
FD-ALB Dimensional Data

Vertical Mount

Single Section Vertical Blade Stack Height	
Damper Height	'X' Dim.
4" (102) Thru 10" (254)	1 1/2" (38)
11" (279) Thru 16" (406)	2" (51)
17" (432) Thru 21" (533)	2 1/2" (64)
22" (559) Thru 26" (660)	3" (64)
27" (686) Thru 32" (812)	3 1/2" (89)
33" (838) Thru 39" (991)	4" (102)
40" (1016) Thru 44" (1118)	4 1/2" (114)
45" (1143) Thru 48" (1219)	5" (127)

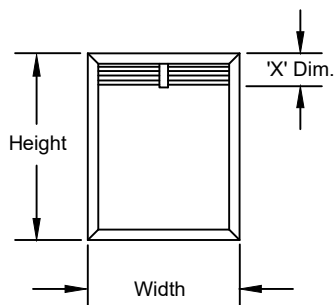


Two Section Height Vertical Blade Stack Height	
Damper Height	'X' Dim.
61" (1550) Thru 64" (1626)	3 1/2" (89)
65" (1651) Thru 74" (1880)	4" (102)
75" (1905) Thru 88" (2236)	4 1/2" (114)
89" (2261) Thru 98" (2490)	5" (127)
99" (2515) Thru 108" (2744)	5 1/2" (140)
109" (2769) Thru 120" (3048)	6" (152)

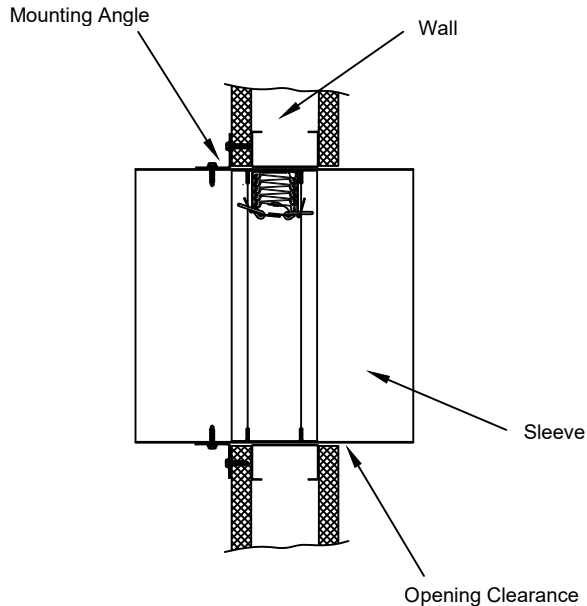


Horizontal Mount

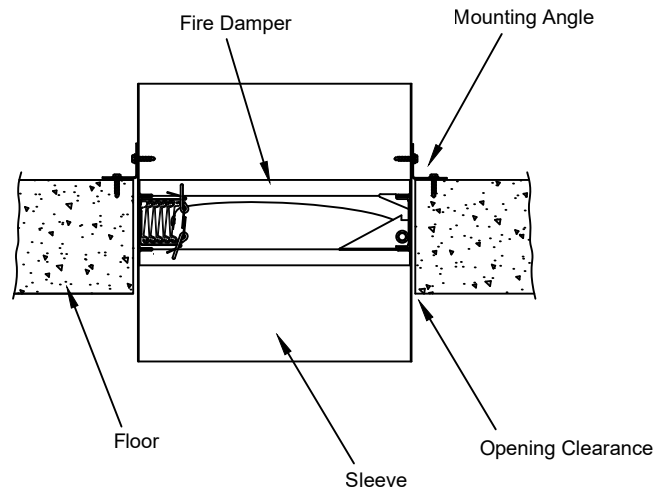
Single Section Horizontal Blade Stack Height	
Damper Height	'X' Dim.
4" (102) Thru 10" (254)	1 1/2" (38)
11" (279) Thru 16" (406)	2" (51)
17" (432) Thru 21" (533)	2 1/2" (64)
22" (559) Thru 26" (660)	3" (64)
27" (686) Thru 32" (812)	3 1/2" (89)
33" (838) Thru 39" (991)	4" (102)
40" (1016) Thru 44" (1118)	4 1/2" (114)
45" (1143) Thru 48" (1220)	5" (127)



Typical Fire Damper Installation



Vertical Mount



Horizontal Mount

See UL Listed Installation instructions for complete installation details

SUGGESTED SPECIFICATION

Furnish and install at locations shown on the plans, or as described in schedules for curtain type fire dampers suitable for vertical wall or horizontal masonry floor or ceiling. Static fire dampers tested, constructed and labeled in accordance with the latest edition of UL Standard 555. Dampers shall have a fire rating of 1 1/2 hours or 3 hours and shall meet the requirements of the latest edition of NFPA90A.

Damper frame and blades shall be galvanized steel in gauges required by UL listing R-25410 installed in a factory mounted sleeve and shipped loose mounting angle. Damper blades shall be steel interlock to provide fire shield in gauges required by UL listing R-25410. Horizontal Mount units closure spring dampers shall be of 301 stainless steel and shall be constant force type.

Each static fire damper shall include a steel sleeve and mounting angles furnished by the damper manufacturer to ensure appropriate installation. Submittal information shall include the manufacturer's UL installation instructions. The dampers shall be installed in accordance with the manufacturer's UL installation instructions. Static fire dampers shall be in all respects equivalent to S&P FD-ALB.

Each damper shall include a 165°F (74°C), or 212°F (100°C) fusible link and shall be labeled for use in static systems.

Static fire dampers shall be S&P model FD-ALB.

(Consult S&P for detailed CSI MasterFormat Specifications).

