TAWREED

TAWREED TRADING & CONTRACTING · DUCT FACTORY IN QATAR SINCE 2012

TECHNICAL DATA SHEET // DAMPERS

Slimline Static Curtain Fire Damper – FD-SL

دمبر حريق ستاتيكي ستاري – FD-SL

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DOCUMENT

5 pages, extracted from:
Technical Submittal - GI Duct, p. 27–30
Revision 01 · October 2026

CONTACT · REQUEST A QUOTE

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Web: tawreed.ltd Hours: Sat–Thu, 9am–5pm

Data supplied for submittal and specification purposes. Values are nominal; confirm project-specific requirements with Tawreed before ordering.

Reference:	**Client:**
Project:	**Contractor:**
Location:	**Contractor:**
Date:	**Submitted by:**

Model FD-SL

Slimline Static Curtain Fire Damper
1½ or 3 Hour, UL555 Classified

Application:

The model FD-SL fire damper utilizes a Slimline frame as well as curtain style blades to prevent the spread of fire through a penetration in a fire rated barrier made by an HVAC duct or transfer. The FD-SL can be installed vertically or horizontally and is meant for static HVAC systems (fans turn off in a fire) only.

SEE COMPLETE MARKING ON PRODUCT

LISTINGS:

UL 555 Listing: R27700(UAE), R41135(KSA), R40068(Qatar), R41122(Egypt)

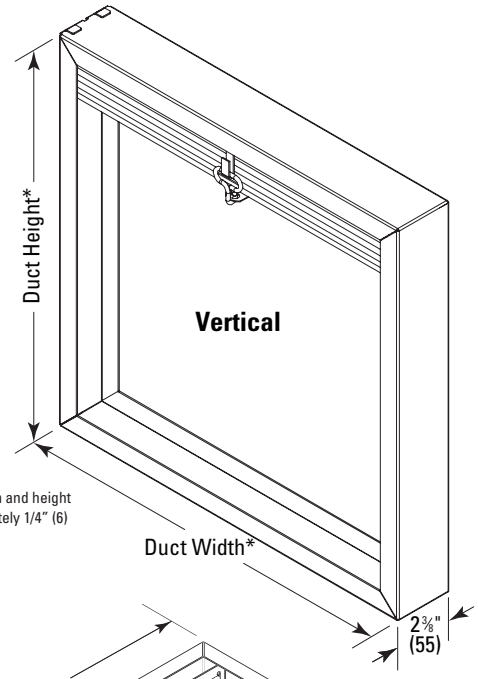
STANDARDS MET:

NFPA Standards: 80, 90A, 92A, 92B and 101
Building Code Standard:
ICC International Building Code

Standard Construction:

	Standard	Optional
Frame Material	22 Gauge Galvanized Roll-formed Steel	------
Blade Material and Type	22 Gauge Galvanized Roll-formed Steel	-----
Frame Depth	2-3/8" (55)	3-11/16" (94) [see Model FD] 1-½" (38) [see Model FD-USL]
Dimensions	Actual - 1/4" (6)	Actual
Closure Spring	Stainless Steel (Horizontal)	Stainless Steel (Vertical)
Fusible Link	165° (74°C)	212° (100°C)
Mounting	Vertical	Horizontal
UL Hour Rating	1-1/2 Hours	3 Hours

Option in Stainless steel construction available.
All dimensions shown in inches, parentheses () indicate millimeters.



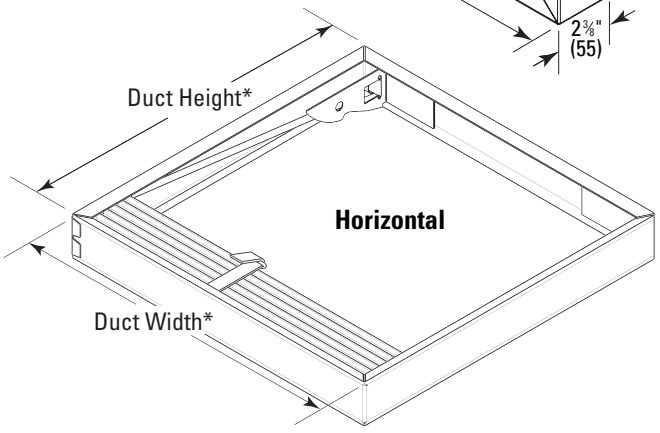
*Damper width and height are approximately 1/4" (6) undercut.

Optional Construction:

☐ **Factory Installed External Sleeve:**
Length: ☐ 12 (305) ☐ 16 (406) ☐ 24 (610) ☐ Other:_____
Gauge: ☐ 20 (1.0) ☐ 18 (1.2) ☐ 16 (1.5) ☐ 14 (2.0) ☐ Other:_____
Location in Sleeve: ☐ Standard ☐ Offset:_____

☐ **Flanged Sleeve (requires factory installed external sleeve):**
☐ 3/4" (19) ☐ 1" (25)

☐ **Framed Retaining Angles - 16 ga. x 1½ x 1½ (1.5x38x38)**
☐ Single Side ☐ Dual Side



Other Options:

- Dynamic models (see Model FDD-SL)
- Multi-Blade models (FD-MB)
- Regular Frame and Ultra Slimline models (see Models FD and FD-USL)
- Out-of-wall models (see Model FD-OW)
- True Round models (see Model FD-RD)

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal

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DAMPER STYLES & SIZES - Model FD-SL
Slimline Static Curtain Fire Damper

Type A Static Curtain Fire Damper

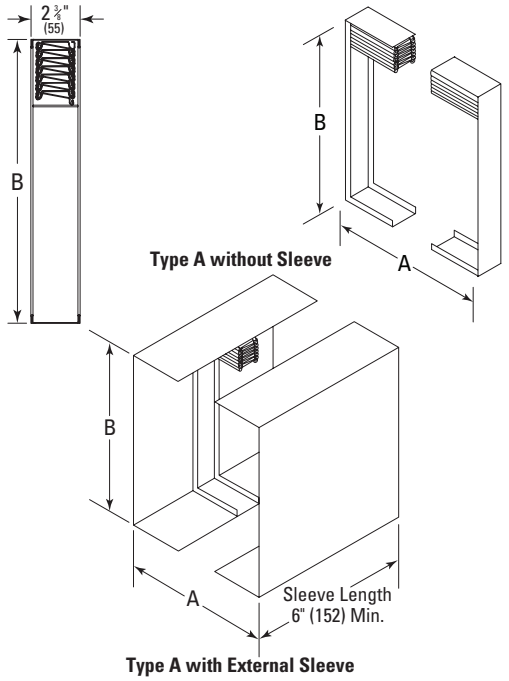
- For use in static HVAC systems (fans off)
- Frame and blade stack in air stream
- Approximately 75-85% Free Area
- Sleeve optional (Factory installed)
- 1-1/2 or 3 Hour Fire Rated

FD-SL-A Minimum & Maximum Sizes:

Type A Model	Minimum Size		Max. Single Section		Max. Multi-Section	
	1.5 Hour	3 Hour	1.5 Hour	3 Hour	1.5 Hour	3 Hour
FD-SL-A (Vertical)	4x4 (102x102)		60x60 (1524x1524)	48x48 (1219x1219)	120x120 (3048x3048)	80x40 (2032x1016)
FD-SL-A (Horizontal)			40x40 (1016x1016) or 48x48 (1219x1219)	40x40 (1016x1016)	120x40 (3048x1016) or 96x48 (2438x1219)	80x40 (2032x1016)

All dimensions shown in inches, parentheses () indicate millimeters.

A Dimension = Duct Width
B Dimension = Duct Height



Type B Static Curtain Fire Damper

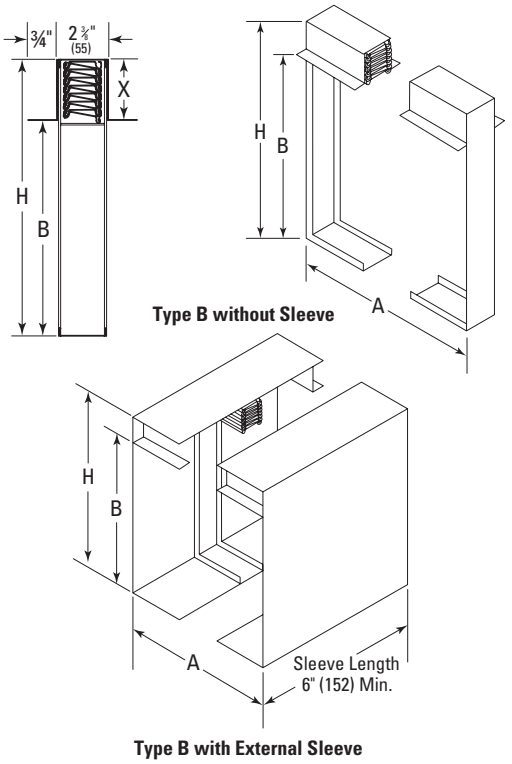
- For use in static HVAC systems (fans off)
- Blade stack out of airstream
- Approximately 80-90% Free Area
- Sleeve optional (Factory installed)
- 1-1/2 or 3 Hour Fire Rated

FD-SL-B Minimum & Maximum Sizes:

Type B Model	Minimum Size		Max. Single Section		Max. Multi-Section[2]	
	1.5 Hour	3 Hour	1.5 Hour	3 Hour	1.5 Hour	3 Hour
FD-SL-B (Vertical)	4x3 (102x76)		60x55 (1524x1397)	48x43 (1219x1092)	120x115 (3048x2921)	80x36 (2032x914)
FD-SL-B (Horizontal)			48x43 (1219x1092)	40x36 (1016x914)	120x36 (3048x914) or 96x43 (2438x1092)	80x36 (2032x914)

All dimensions shown in inches, parentheses () indicate millimeters.

A Dimension = Duct Width
B Dimension = Duct Height
X Dimension = Height of Blade Stack
H Dimension = Overall Damper Height (B+X)



Notes:

1. Multi-section damper will have frame in the airstream, and blades for vertical models more than one damper in height.

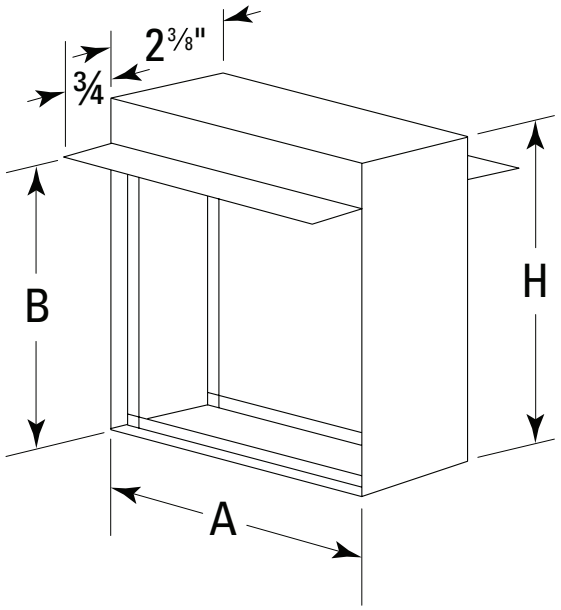
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DIMENSIONAL INFORMATION - Model FD-SL
Slimline Static Curtain Fire Damper (for Type B)

Type B Fire Damper



Duct Height (B)	Type B Damper Height (H)
Inches	Inches
3	5
4	6
5	7
6	8
7	9
8	10
9	11
10	12
11	13
12	14
13	15
14	16
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114	119
115	120

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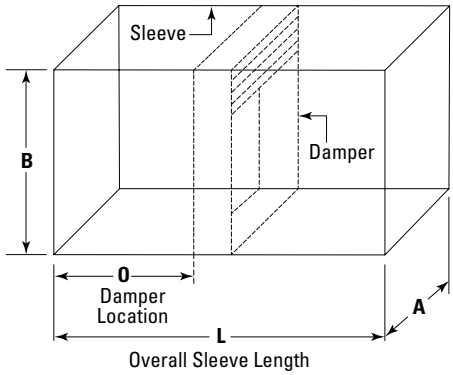
SLEEVE DIMENSIONAL DATA - Model FD-SL
Slimline Static Curtain Fire Damper

Below are diagrams showing the location of the Type A and B fire dampers in a factory installed external sleeve.

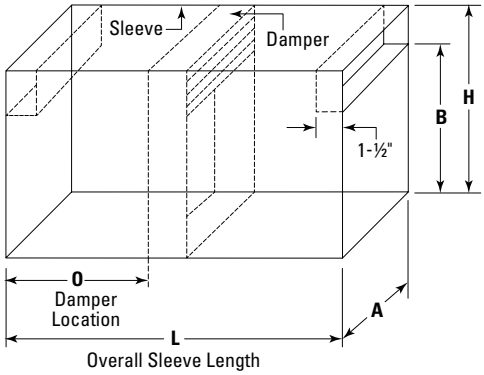
Sleeve Diagram Key:

H = Overall height
W = Overall width (always the length of the blades)
A = Duct Width
B = Duct Height
O = The offset from one end of the sleeve to the beginning of the damper frame (can be altered as a construction option)
L = Overall length of sleeve

TYPE A



TYPE B

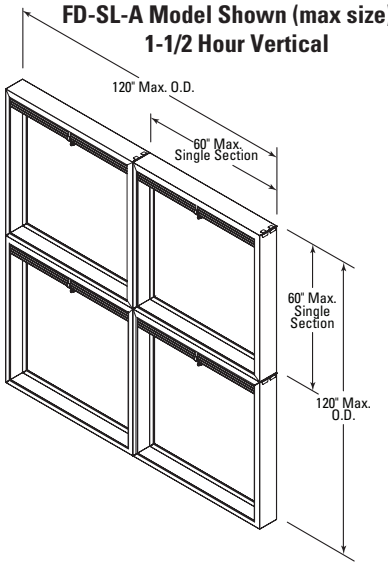


MULTIPLE SECTION INFORMATION - Model FD-SL
Slimline Static Curtain Fire Damper

Multiple section damper assemblies are shipped in individual sections from the factory unless a factory supplied and installed sleeve is required. When a multiple section damper is ordered with a sleeve, it is usually shipped as a complete assembly. The following drawings are of different maximum size multiple section FDD-SL models and are for reference purposes (not all options are shown).

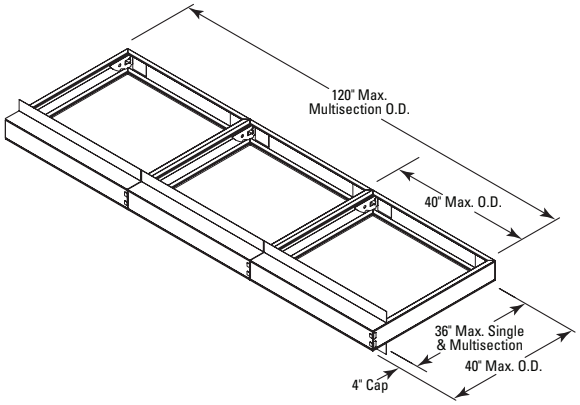
Type A Multi-Section Assembly

FD-SL-A Model Shown (max size):
1-1/2 Hour Vertical



Type B Multi-Section Assembly

FD-SL-B Model Shown (max size):
1-1/2 Hour Horizontal



Notes:

1. These diagrams are for reference purposes
2. Not all FD-SL Model options are shown

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