

DFD-150X16 1 1/2 hour dynamic rated fire damper with 16.000 in. integral sleeve

APPLICATION & DESIGN

Model DFD-150X16 is approved for use in walls, floors and partitions with fire resistance ratings less than 3 hours. UL 555 classifies dynamic rated fire dampers for use in HVAC systems that are operational in the event of fire.

DAMPER RATINGS

Fire Rating:	1 1/2 hours
Dynamic Closure Rating	
Maximum Velocity:	4,000 ft/min vertical mount only, up to 24 in. x 24 in.;
	2,000 ft/min vertical or horizontal mount on all sizes
Maximum Pressure:	4 in. wg

PRODUCT DETAILS

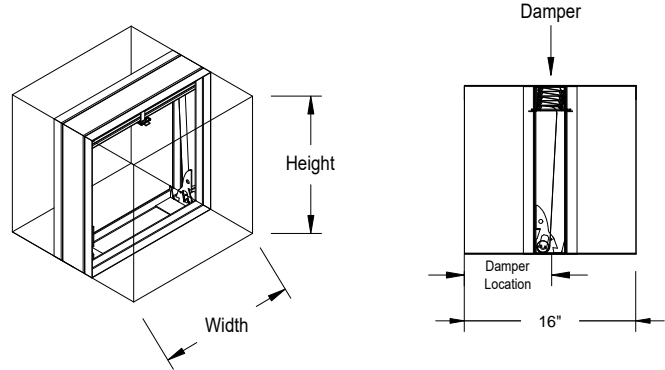
Frame:	Galvanized Steel
Frame Depth:	3.688
Blade:	Galvanized Steel
Closure Device:	Fusible Link
Closure Temp:	165 F
Velocity:	2,000 ft/min
Mounting:	Vertical
Sizing:	Nominal

OPTIONS & ACCESSORIES

Transition:	A
Retaining Angle Type:	2-Side Loose
Retaining Angle Size:	Minimum UL
Union Label:	No Preference

SIZES STOCKED

- 6x6	- 16x8
- 8x4	- 16x12
- 8x6	- 16x16
- 8x8	- 18x18
- 10x10	- 20x20
- 12x10	- 24x12
- 12x12	- 24x24
- 14x8	
- 14x10	
- 14x12	
- 14x14	



- Damper is furnished approximately 0.250 in. undersize.
(Add sleeve thickness for overall sleeved damper dimension)

CODES APPROVED

- This model meets the requirements for fire dampers established by:
- UL Classified (U.S. and Canada)
Standard UL 555 (Listing #R13317)
 - National Fire Protection Association
NFPA Standard 80,90A & 101
 - IBC: International Building Codes
 - California State Fire Marshal: CSFM listing # 3225-981:102



Greenheck's one piece retaining angle, the POC (literally named for being a "Piece of Cake") makes damper installation a breeze. The POC angle is designed by fastening four pieces together to form one piece. When installed the angles simply wraps around the sleeve of the damper and is fastened in place.

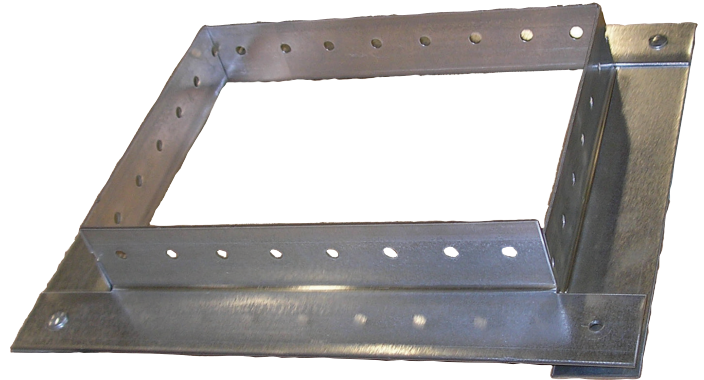
Construction

- 20 ga. (1mm) or 16 ga. (1.5mm) galvanized steel
- Sizes: 1½ in. x 1¼ in. (38mm x 32mm) or 2½ x 1½ in. (64mm x 38mm) for sizes greater than 48 inches (1219mm)

Retaining angles for 1 1/2 hour rated fire and combination fire smoke dampers with a width and height 48 in. (1219mm) or less must be a minimum of 20 ga. (1mm) steel. Retaining angles for all 3 hour rated dampers and all dampers with a width or height greater than 48 in. (1219mm) must be a minimum of 16 ga. (1.5mm).

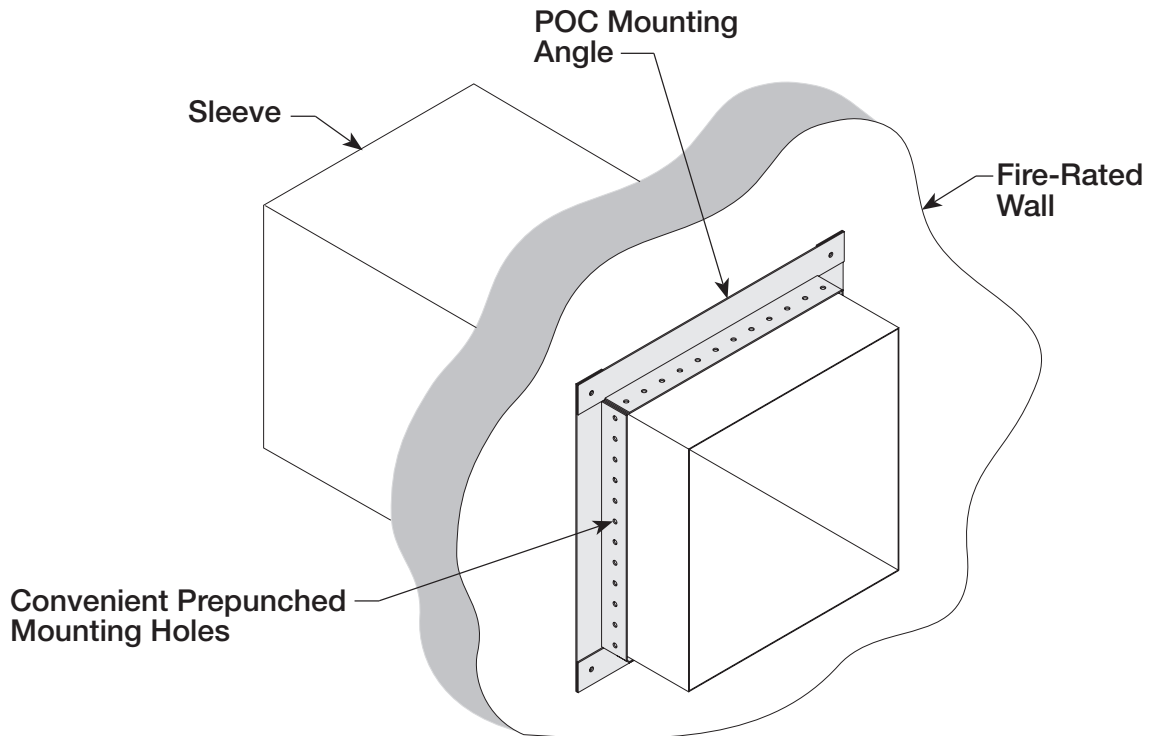
If the damper width plus damper height is less than or equal to 44 inches (1117mm), then the POC angles ship in one piece. If damper width plus damper height is greater than 44 in. (1117mm), the POC angle ships in two pieces.

The POC retaining angles meets the requirements of UL 555 and UL555S.



Retaining angle as shipped from the factory.

The four sides are connected together by rivets in three corners allowing for easy installation.

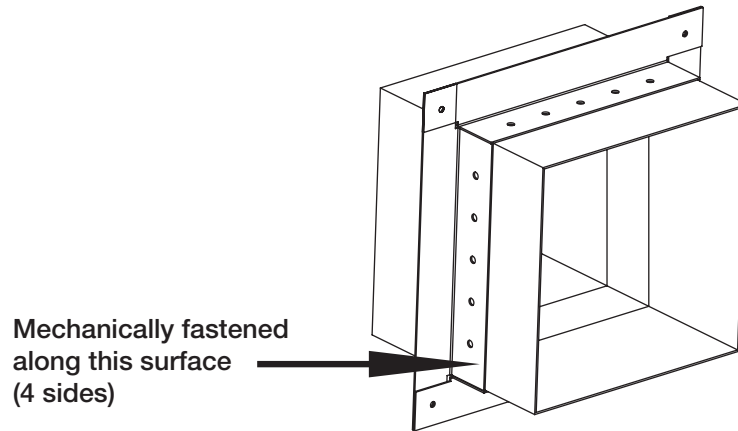


Retaining angle as mounted in the field.

The POC angle wraps around the sleeve. The factory provides prepunched mounting holes to further simplify installation.

Available Retaining Angle Options:

- **Loose** - Angle(s) ships unattached to the damper. (DFD series , FD Series, FSD series, VCD series)
- **Single-Fastened** -Angles ships mechanically fastened to the damper sleeve at a specified location. (DFD series , FD Series, FSD series)



- **Wrapped** - Angle is wrapped around the damper sleeve and tied together. (DFD series , FD Series, FSD series)

