

(ENGINEERS)
SUBMITTAL DATA
MODEL FDD-160-AF
LOW PRESSURE DROP CURTAIN FIRE DAMPER
U.L.555 CLASSIFIED 1-1/2 AND 3 HOURS
FOR USE IN DDYNAMIC OR STATIC SYSTEMS

Application and Design

The Model FDD-160-AF is UL Classified for installation in walls, floors, and partitions with a fire rating of less than 3 hours. This damper may be installed vertically or horizontally in dynamic HVAC systems that shut down in the event of a fire. Also approved for static systems. (see optional 3 hour rating)

Standard Construction

Frame: Roll Formed Frame - Galvanized Steel Hat-section w/ stalked corners & Integral bracing

Blades: Airfoil-shaped roll formed-Double skin Galvanized steel
min. width 5" (127mm)
max. width 7" (178mm)

Axles: square plated steel

Linkage: Concealed in frame. Linkage bars are 1/8" (3.2mm)

Bearings: Bronze Oilite press-fit into frame

Closure Spring: Stainless Steel

Fusible Link - UL-33: UL Listed 165°F (standard), 212°F (optional)

Manual Locking Quadrant- (may be required for inspection)

Max. velocity: 2000 fpm (10.2 m/s) on all sizes

max. pressure: 4" wg (1kPa) consult Factory For Velocities up to 4000 FPM and 6.0" w.g.

Model FDD-160-AF meets or complies with the following as a fire damper: All major building codes, including IBC/ICC International Code
UL 555 Listing 1-1/2 and 3 hour - File #R25410
ULC S122
NFPA - 90A, 80

Standard Sizes (duct) 1-1/2 HR		
Min. V or H	*Max. vertical Size	*Max. Horizontal Size
8"x8" 203mm x 203mm	108"w x 96" H 2743mm x 2438 mm	36"W x 48"H 914mm x 1219 mm

* May consist of multi-sections

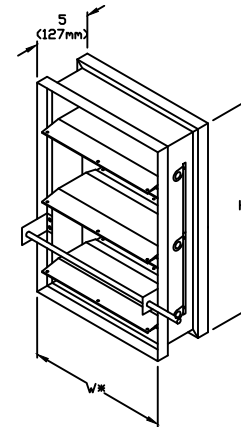
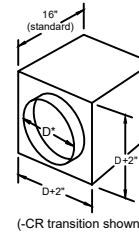
+ Note: Non-sleeved (with side plate) dampers are furnished Approx. 1/4" (6.4mm) smaller than given duct dimensions. Sleeved dampers are furnished Approx. the same size as given duct dimension, unless otherwise noted.

Standard Sizes (duct) 3 HR		
Min. V or H	*Max. vertical Size	*Max. Horizontal Size
8"x8" 203mm x 203mm	72"w x 48" H 1828mm x 1219 mm	36"W x 48"H 914mm x 1219 mm

* May consist of multi-sections



* D= Duct Size Minus 1/4"
* 16"-20 Ga. sleeve required for FDD-160-AF (Round)
Max. 46" diameter



Options:

- ☐ Factory Sleeve: _____ Ga (18 Ga min)
- ☐ Sleeve Length: _____ Inches
- ☐ Retaining Angles
- ☐ 3 Hour Rating
- ☐ Round Transitions (FD-160-AF Round)
- ☐ Out of Wall Const. Available (see dwg. P-36 inst.)
- ☐ EFL (Electric Fusible Link)*
- ☐ PFV (Pneumatic Fusible Valve)*
- ☐ 250° - 350° (Actuator Req.)
- ☐ Mounting:
 - ☐ Horizontal
 - ☐ Vertical

* Option provides quick and economical way to check damper operations and also a Systematic Closure Control. Option PFV allow damper operation without the need/cost for an EP valve and electrical connection at the damper.

JOB NAME:		☐ MODEL FDD-160-AF	
LOCATION:		☐ MODEL FDD-160-AF-OW (Out of Wall)	
ARCHITECT:		☐ MODEL FDD-160-AF-CR (Round)	
ENGINEER:	DRAWN BY: BMR	DATE: 04-06-12	REV. DATE 4-22-26
CONTRACTOR:	REV. NO.	APPROVED BY:	DWG. NO.: P-31