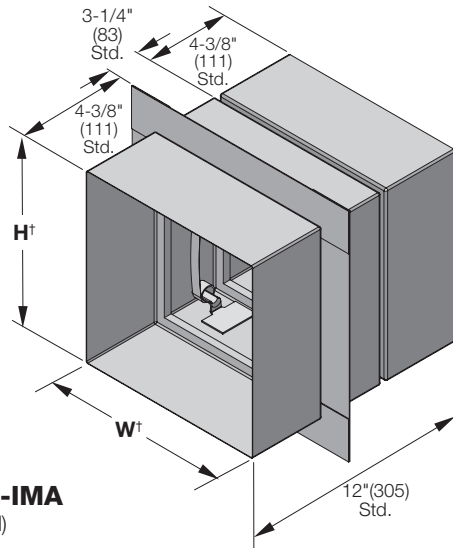


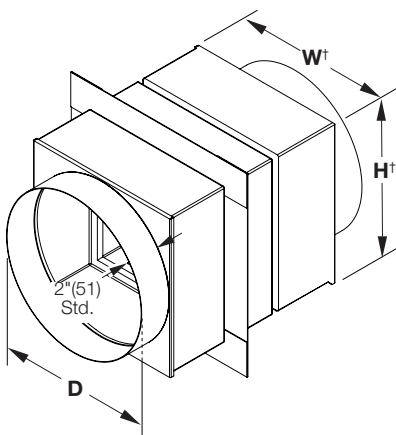


FD-4D-IMA
(standard)

Options

- **Alternate sleeve/frame length:**
 - 16" (406) ▪ Other _____
- **Transitions:**
 - Round ▪ Oval ▪ Flanged
 - Duct connections (sleeve required):
 - 1" (25) S-clip ▪ DM-25 ▪ DM-35 ▪ WARD
- **Alternate fire closure temperature:**
 - 212°F (100°C)
- **Generic mullion for oversized masonry or concrete openings**
- **PI-10** (Blade closure indication switch package):
 - External mount (sleeve required) ▪ Internal mount
 - Loose

† Damper dimensions furnished approximately 1/8" (3) undersize.



Type AR (Optional)
Round duct transitions are standard with D=W=H. (available with D<W and H)

NOTE: Dimensions in parentheses () are millimeters. Information is subject to change without notice or obligation.

The FD-4D-IMA fire damper employs curtain style blades and a factory installed integral mounting angle for point-of-origin control of fire in static and dynamic HVAC systems. The integral mounting angle is designed and approved to be fastened directly to the fire separation and may be installed under the drywall in metal stud construction. The FD-4D-IMA is qualified to 4,000 ft/min (20.4 m/s) and 4 in.wg. (1.0 kPa) and may be installed in vertical walls or partitions with fire resistance ratings up to 2 hours.

Ratings

UL 555 Fire Resistance Rating: 1-1/2 Hour (vertical and horizontal)

Maximum Dynamic Closure Velocity: 4,000 fpm (20.3 m/s)

Maximum UL555S Rated Pressure: 4 in.wg. (1.0 kPa)

Listings

UL 555 listing: R14981

CAN/ULC S112 listing: R14981

CSFM listing: 3225-1404:101

New York City MEA listing: 295-98-E

Meets NFPA Standards: 90A, 92A, 92B and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



Standard Construction

Sleeve/Frame: Integral 12" x 20 gauge (305 x 1.0) galvanized steel with 1-1/2" x 20 gauge (38 x 1.0) galvanized steel integral single side mounting angle

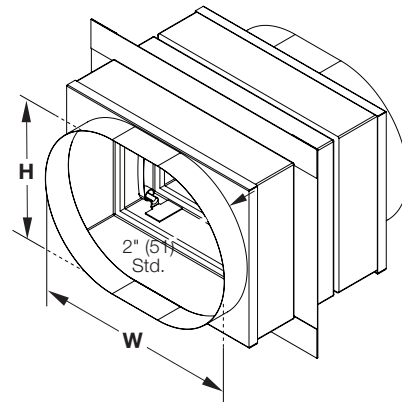
Blades: 24 gauge (0.7) galvanized steel – curtain style

Fire Closure Device: UL listed fusible link

Fire Closure Temperature: 165°F (75°C)

Minimum Size: 6" x 6" (152 x 152)

Maximum Size: Single Section: Vertical: 36" x 48" (914 x 1219)

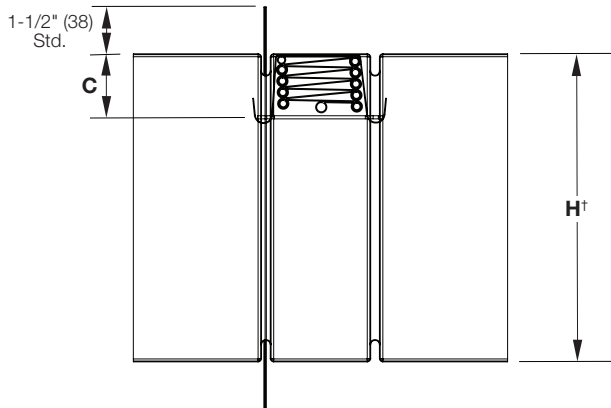


Type AO (Optional)
Oval duct transitions are standard with W and H equal to damper width and height dimensions. (available with W and H smaller than damper width and height)

Blade Stack Dimensional Data

FD-4D-IMA

1-1/2-Hour Dynamic Rated – Fire Damper
Curtain Style Blade



† Damper dimensions furnished approximately 1/8" (3) undersize.

Nominal Duct Height 'H'	Damper Height 'H'
6" (152)	1-1/16" (27)
7" (178)	1-3/16" (30)
8" (203)	1-3/16" (30)
9" (229)	1-3/16" (30)
10" (254)	1-7/16" (37)
11" (279)	1-7/16" (37)
12" (305)	1-7/16" (37)
13" (330)	1-9/16" (40)
14" (356)	1-9/16" (40)
15" (381)	1-13/16" (46)
16" (406)	1-13/16" (46)
17" (432)	1-13/16" (46)
18" (457)	1-15/16" (49)
19" (483)	1-15/16" (49)
20" (508)	2-3/16" (56)
21" (533)	2-3/16" (56)
22" (559)	2-3/16" (56)
23" (584)	2-5/16" (59)
24" (610)	2-5/16" (59)
25" (635)	2-9/16" (65)
26" (660)	2-9/16" (65)
27" (686)	2-9/16" (65)
28" (711)	2-11/16" (68)
29" (737)	2-11/16" (68)
30" (762)	2-15/16" (75)
31" (787)	2-15/16" (75)
32" (813)	2-15/16" (75)
33" (838)	3-1/16" (78)
34" (864)	3-1/16" (78)
35" (889)	3-5/16" (84)
36" (914)	3-5/16" (84)
37" (940)	3-5/16" (84)
38" (965)	3-7/16" (87)
39" (991)	3-7/16" (87)
40" (1016)	3-11/16" (94)
41" (1041)	3-11/16" (94)
42" (1067)	3-11/16" (94)
43" (1092)	3-13/16" (97)
44" (1118)	3-13/16" (97)
45" (1143)	4-1/16" (103)
46" (1168)	4-1/16" (103)
47" (1194)	4-1/16" (103)
48" (1219)	4-3/16" (106)