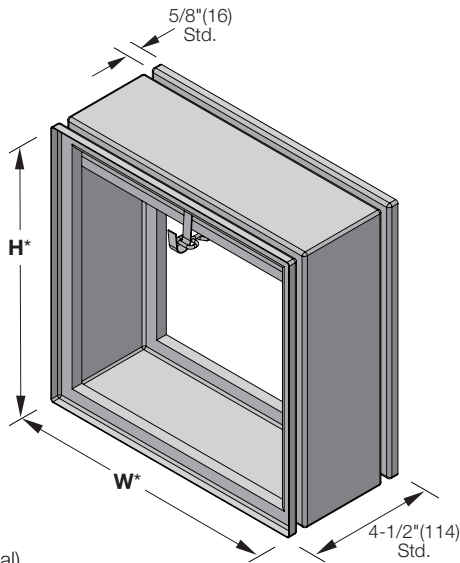




FD-4-A
(standard-vertical)

* Damper dimensions furnished approximately 1/4" (6) undersize

Options

- **Factory installed sleeve** ■ Integral
 - Gauge: ■ 20 (1.0) ■ 18 (1.3) ■ 16 (1.6) ■ 14(2.0) ■ 10 (3.5)
 - Length: ■ 12" (305) ■ 16" (406) ■ 24" (610) ■ Other _____
- **Low leakage taped joints** (Integral sleeve required)
- **Transitions** (sleeve required): ■ Flanged (sleeve required)
 - Round ■ Oval
 - Duct connections (sleeve required):
 - 1"(25) S-clip ■ DM-25
 - DM-35 ■ S & Drive ■ WARD
- **16 ga. (1.6) Retaining angle systems:**
 - Picture frame: ■ SSPF (single-side) ■ DSPF (2-sided)
 - Individual angle sets: ■ SS (single-side) ■ DS (2-sided)
- **Alternate fire closure temperature:**
 - 212°F (100°C)
- **Duct access door factory mounted in common sleeve**
- **Burglar Bars**
- **Generic mullion for oversized masonry or concrete openings**
- **Type-304 stainless steel construction**
- **PI-10** (Blade closure indication switch package):
 - External mount (sleeve required) ■ Internal mount ■ Loose

The FD-4-A fire damper employs curtain style blades for point-of-origin control of fire in static HVAC systems. The FD-4-A may be installed in vertical walls or partitions or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

Ratings

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

UL HNLJ.V-5: Ventilation Duct Assemblies

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

Frame: 22 gauge (0.85) galvanized steel

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

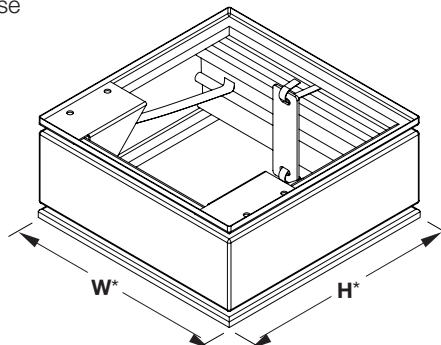
Fire Closure Device: Fusible link

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

Minimum Size: Vertical Mount: 4" x 4" (102 x 102)
Horizontal Mount: 6" x 6" (152 x 152)

Maximum Size: Single Section: Vertical: 48" x 48" (1219 x 1219)
Horizontal: 40" x 40" (1016 x 1016)
Multiple Section: Vertical: 120" x 80" (3048 x 2032)
or 80" x 120" (2032 x 3048)
Multiple Section: Horizontal: 80" x 80" (2032 x 2438)

Stainless Steel: Single Section: 40" x 40" (1016 x 1016)
Multiple Section: Vertical: 80" x 40" (2032 x 1016) or
40" x 80" (1016 x 2032) or
108" x 24" (2743 x 559)
Horizontal: 80" x 40" (2032 x 1016) or
40" x 80" (1016 x 2032)



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

Typical Damper Dimensional Data

FD-4-A

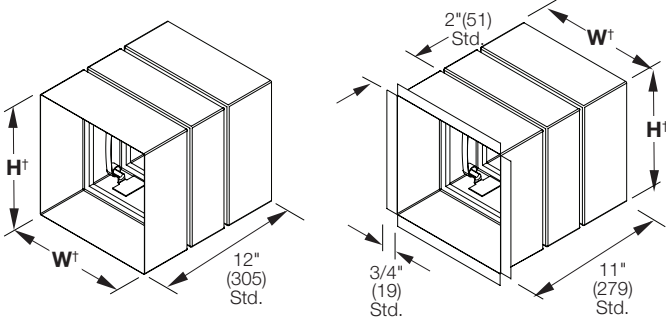
1-1/2 Hour – Static Fire Damper
Curtain Style Blade

Round Transitions

(Standard with D=W=H.
Available with D<W and H)

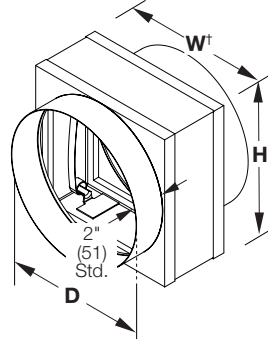
Oval Transitions

(Standard with W and H equal to
damper width and height dimensions.
Available with W and H smaller than
damper width and height)

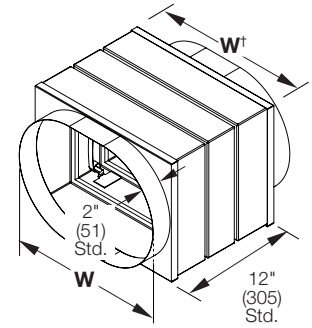


Sleeve Style ISAO (Optional)

Sleeve Style ISAF (Optional)
with standard flange
(Typical for use with grille.)



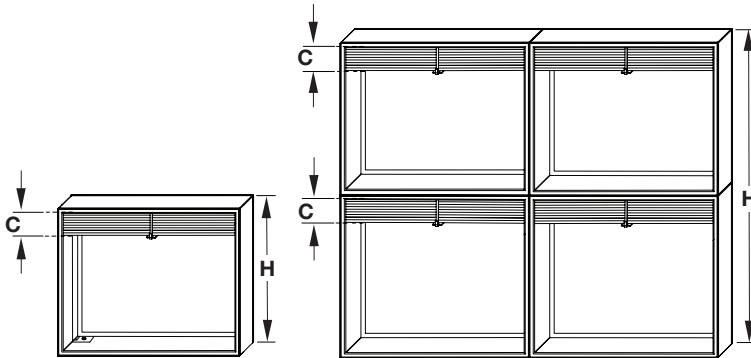
Style AR (Optional)



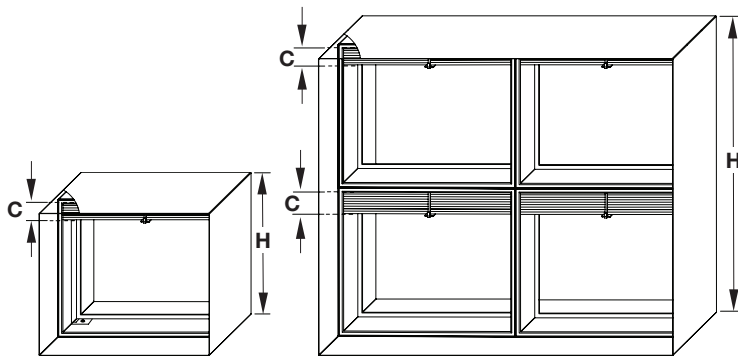
Style ISAO (Optional)

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

Blade Stack Dimensional Layout



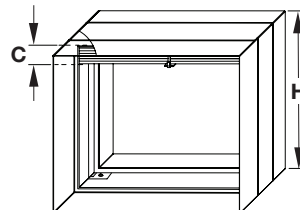
Framed Unit — No Sleeve
(Multiple section units supplied as individual
dampers for field assembly)



Sleeve Style S — Common Sleeve
(Multiple section units supplied as a single
assembly)

Single Section	
Nominal Duct Height 'H'	Blade Stack Height 'C'
4"(102) - 6"(152)	1-1/16" (27)
7"(178) - 9"(229)	1-3/16" (30)
10"(254) - 12"(305)	1-7/16" (37)
13"(330) - 14"(356)	1-9/16" (40)
15"(381) - 17"(432)	1-13/16" (46)
18"(457) - 19"(483)	1-15/16" (49)
20"(508) - 22"(559)	2-3/16" (56)
23"(584) - 24"(610)	2-5/16" (59)
25"(635) - 27"(686)	2-9/16" (65)
28"(711) - 29"(737)	2-11/16" (68)
30"(762) - 32"(813)	2-15/16" (75)
33"(838) - 34"(864)	3-1/16" (78)
35"(889) - 37"(940)	3-5/16" (84)
38"(965) - 39"(991)	3-7/16" (87)
40" (1016)	3-11/16" (94)
41"(1041) - 42"(1067)	3-11/16" (94)
43"(1092) - 44"(1118)	3-13/16" (97)
45"(1143) - 47"(1194)	4-1/16" (103)
48"(1219)	4-3/16" (106)

Multi Section	
Nominal Duct Height 'H'	Blade Stack Height 'C'
41"(1041) - 45"(1143)	2-3/16" (56)
46"(1168) - 49"(1245)	2-5/16" (59)
50"(1270) - 55"(1397)	2-9/16" (65)
56"(1422) - 59"(1499)	2-11/16" (68)
60"(1524) - 65"(1651)	2-15/16" (75)
66"(1676) - 69"(1753)	3-1/16" (78)
70"(1778) - 75"(1905)	3-5/16" (84)
76"(1930) - 79"(2007)	3-7/16" (87)
80" (2032)	3-5/16" (84)
81"(2057) - 83"(2108)	2-9/16" (65)
84"(2134) - 89"(2261)	2-11/16" (68)
90"(2286) - 98"(2489)	2-15/16" (75)
99"(2515) - 104"(2642)	3-1/16" (78)
105"(2667) - 113"(2870)	3-5/16" (84)
114"(2896) - 119"(3023)	3-7/16" (87)
120" (3048)	3-5/16" (84)



Sleeve Style IS — Integral Sleeve

NOTE:
Dampers in the grey-shaded area are for Vertical Mount only.

Vertical dampers exceeding 48" in width or height will be manu-factured in sections not exceeding 40" x 40". Stainless steel vertical dampers exceeding 80" in width will be manufactured in sections not exceeding 36" x 24".

Dampers shown as vertical mount. Horizontal mount supplied in the same orientation.