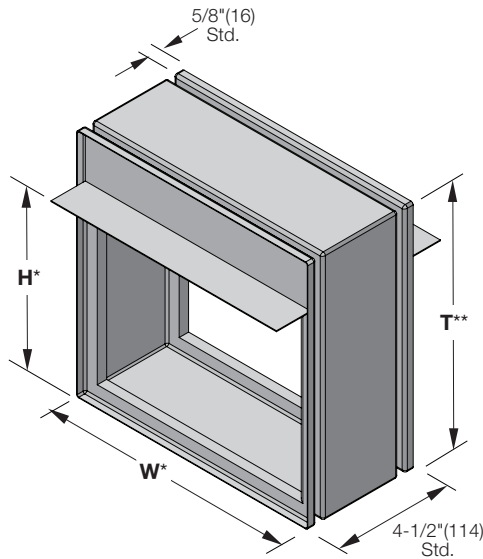
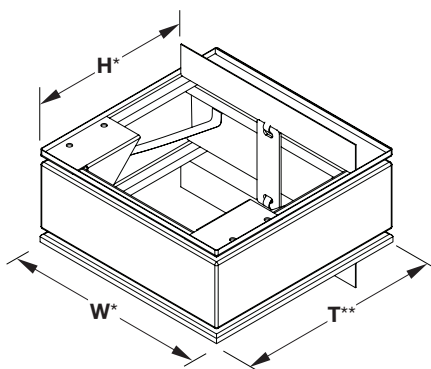




FD-4-B
(standard)

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:**
 - Round ■ Oval
 - Duct connections (sleeve required):
 - 1" (25) S-clip ■ DM-25 ■ DM-3 ■ WARD
- **Retaining angle systems:**
 - Gauge: ■ 20 (1.0) ■ 16 (1.6)
 - 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**
- **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



FD-4-B
(Standard-Horizontal)

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

The FD-4-B fire damper employs curtain style blades for point-of-origin control of fire in static HVAC systems. The FD-4-B may be installed in vertical walls or partitions or horizontally in floors or assemblies with fire resistance ratings up to 4 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 2" (102 x 51)
Horizontal Mount: 6" x 4" (152 x 102)

Maximum Size: Single Section: Vertical: 48" x 44" (1219 x 1118)
Horizontal: 40" x 36" (1016 x 914)

Multiple Section: Vertical: 120" x 76" (3048 x 1930)
or 80" x 116" (2032 x 2946)
Horizontal: 80" x 76" (2032 x 2438)

Stainless Steel: Single Section: 40" x 36" (1016 x 914)
Multiple Section: Vertical: 80" x 36" (2032 x 914) or
40" x 76" (1016 x 1930) or
108" x 21" (2743 x 533)
Horizontal: 80" x 36" (2032 x 914) or
40" x 76" (1016 x 1930)

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

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

** See table on Page 3 for 'T' dimension

Typical Damper Dimensional Data

FD-4-B

3 Hour – Static Fire Damper
Curtain Style Blade

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

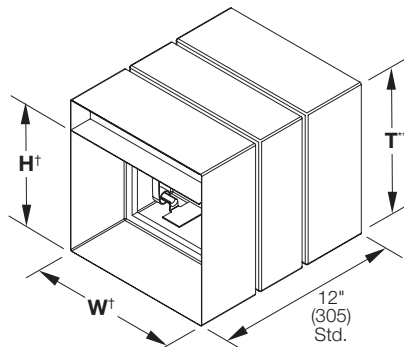
† Damper dimensions furnished approximately 1/8" (3) undersize.

Round Transitions

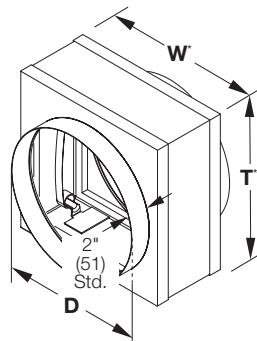
(Standard with $D=W=H$.
Available with $D<W$ and H)

Oval Transitions

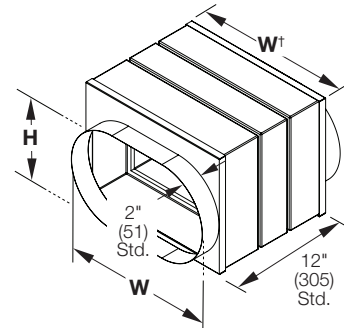
(Standard with W and H equal to
damper width and height dimensions.
Available with W and H smaller than
damper width and height)



Sleeve Style ISB (Optional)



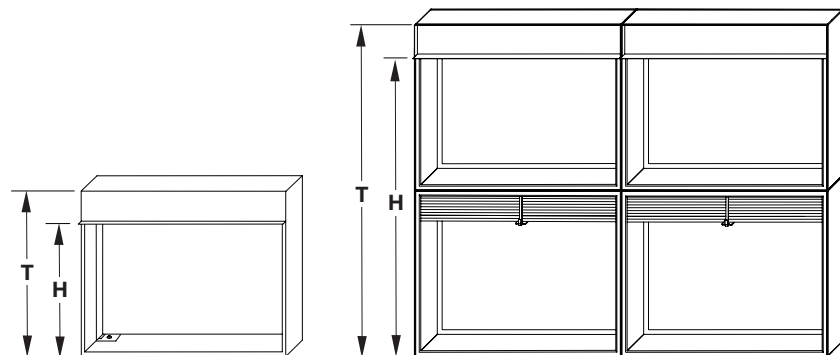
Style BR (Optional)



Style ISBO (Optional)

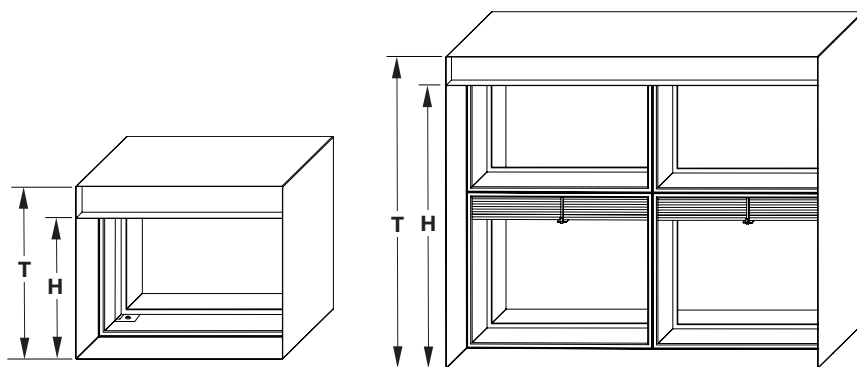
* See table on page 3 for 'T' dimension

Blade Stack Dimensional Layout



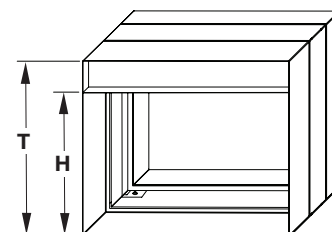
Framed Unit — No Sleeve

(Multiple section units supplied as individual
dampers for field assembly)



Sleeve Style S — Common Sleeve

(Multiple section units supplied as a single assembly)



Sleeve Style IS — Integral Sleeve

Blade Stack Dimensional Data Sizing Chart

FD-4-B

3 Hour – Static Fire Damper
Curtain Style Blade

Single Section

Nominal Duct Height 'H'	Damper Height 'T'
2"(51)	4"(102)
3"(76)	5"(127)
4"(102)	6"(152)
5"(127)	7"(178)
6"(152)	8"(203)
7"(178)	9"(229)
8"(203)	10"(254)
9"(229)	11"(279)
10"(254)	12"(305)
11"(279)	13"(330)
12"(305)	14"(356)
13"(330)	15"(381)
14"(356)	16"(406)
15"(381)	17"(432)
16"(406)	18"(457)
17"(432)	19"(483)
18"(457)	20"(508)
19"(483)	21"(533)
20"(508)	22"(559)
21"(533)	23"(584)
22"(559)	24"(610)
23"(584)	26"(660)
24"(610)	27"(686)
25"(635)	28"(711)
26"(660)	29"(737)
27"(686)	30"(762)
28"(711)	31"(787)
29"(737)	32"(813)
30"(762)	33"(838)
31"(787)	34"(864)
32"(813)	35"(889)
33"(838)	36"(914)
34"(864)	37"(940)
35"(889)	38"(965)
36"(914)	39"(991)
37"(940)	41"(1041)
38"(965)	42"(1067)
39"(991)	43"(1092)
40"(1016)	44"(1118)
41"(1041)	45"(1143)
42"(1067)	46"(1168)
43"(1092)	47"(1194)
44"(1118)	48"(1219)

Multiple Section

Nominal Duct Height 'H'	Damper Height 'T'	Nominal Duct Height 'H'	Damper Height 'T'
37"(940)	39"(991)	91"(2311)	94"(2388)
38"(965)	40"(1016)	92"(2337)	95"(2413)
39"(991)	41"(1041)	93"(2362)	96"(2438)
40"(1016)	42"(1067)	94"(2388)	97"(2464)
41"(1041)	43"(1092)	95"(2413)	98"(2489)
42"(1067)	44"(1118)	96"(2438)	99"(2515)
43"(1092)	45"(1143)	97"(2464)	100"(2540)
44"(1118)	46"(1168)	98"(2489)	101"(2565)
45"(1143)	47"(1194)	99"(2515)	102"(2591)
46"(1168)	48"(1219)	100"(2540)	103"(2616)
47"(1194)	50"(1270)	101"(2565)	104"(2642)
48"(1219)	51"(1295)	102"(2591)	105"(2667)
49"(1245)	52"(1321)	103"(2616)	106"(2692)
50"(1270)	53"(1346)	104"(2642)	107"(2718)
51"(1295)	54"(1372)	105"(2667)	108"(2743)
52"(1321)	55"(1397)	106"(2692)	109"(2769)
53"(1346)	56"(1422)	107"(2718)	110"(2794)
54"(1372)	57"(1448)	108"(2743)	111"(2819)
55"(1397)	58"(1473)	109"(2769)	112"(2845)
56"(1422)	59"(1499)	110"(2794)	113"(2870)
57"(1448)	60"(1524)	111"(2819)	114"(2896)
58"(1473)	61"(1549)	112"(2845)	115"(2921)
59"(1499)	62"(1575)	113"(2870)	116"(2946)
60"(1524)	63"(1600)	114"(2896)	117"(2972)
61"(1549)	64"(1626)	115"(2921)	119"(3023)
62"(1575)	65"(1651)	116"(2946)	120"(3048)
63"(1600)	66"(1676)		
64"(1626)	67"(1702)		
65"(1651)	68"(1727)		
66"(1676)	69"(1753)		
67"(1702)	70"(1778)		
68"(1727)	71"(1803)		
69"(1753)	72"(1829)		
70"(1778)	73"(1854)		
71"(1803)	74"(1880)		
72"(1829)	75"(1905)		
73"(1854)	76"(1930)		
74"(1880)	77"(1956)		
75"(1905)	78"(1981)		
76"(1930)	80"(2032)		
77"(1956)	80"(2032)		
78"(1981)	81"(2057)		
79"(2007)	82"(2083)		
80"(2032)	83"(2108)		
81"(2057)	84"(2134)		
82"(2083)	85"(2159)		
83"(2108)	86"(2184)		
84"(2134)	87"(2210)		
85"(2159)	88"(2235)		
86"(2184)	89"(2261)		
87"(2210)	90"(2286)		
88"(2235)	91"(2311)		
89"(2261)	92"(2337)		
90"(2286)	93"(2362)		

NOTE:

Dampers in the grey shaded area are for Vertical Dampers Only".

Vertical dampers exceeding 48" in width or height will be manufactured 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.