

Application

Model FD-150X is approved for use in walls, floors and partitions with fire resistance ratings less than 3 hours. This model carries a 1 1/2 hour UL fire damper label. UL 555 classifies static rated fire dampers for use in HVAC systems that are automatically shut down in the event of fire.

Ratings

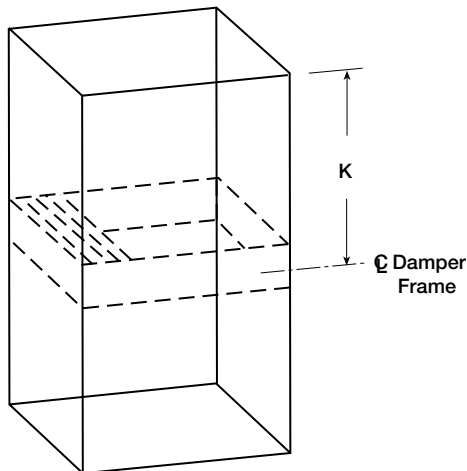
UL555 Fire Resistance Rating
Fire Rating: 1 1/2 hours

| Construction | Standard | Optional |
|----------------|-----------------------|--------------------------------------|
| Frame Material | Galvanized Steel* | - |
| Frame Depth | 3 11/16 in. (94mm) | - |
| Blade Material | Galvanized steel* | - |
| Closure Spring | Stainless Steel | - |
| Fusible Link | 165°F (74°C) | 212°F or 286°F (100°C) or (141°C) |
| Mounting | Vertical | Horizontal |

* in gauges required by UL listing R-13317

Optional Features

- Sealed transitions and sleeves
- Steel stud connection (SSC)
- One piece retaining angles (POC)
- Transitions (B, C, CO, CR, R)
- Clean wrap



Note: Horizontal dampers must be installed with the "K" dimension on the top side as shown (per UL test: see label on damper). Horizontal dampers must have the access door installed on the top side to facilitate re-opening of the blades should the link melt.

Model FD-150X meets the requirements for fire dampers established by:

National Fire Protection Association

(NFPA Standards 80, 90A & 101)

IBC International Building Codes

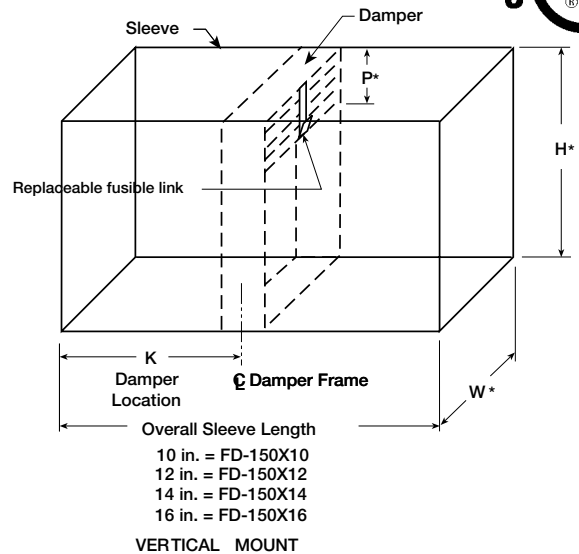
New York City (MEA listing #260-91-M)

California State Fire Marshal (Listing #3225-981:102)

"UL CLASSIFIED (see complete marking on product)"

"UL CLASSIFIED to Canadian safety standards (see complete marking on product)"

Standard 555 (Listing #R13317)



* These dimensions are furnished approximately 1/4 in. (6mm) undersize.

SIZING DATA

FD-150X TYPE A & B

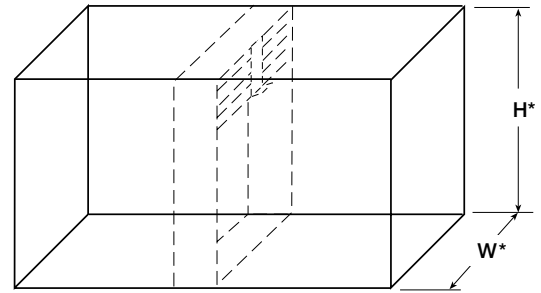
FD-150-X series are normally supplied as single section only.

The following chart and illustrations show minimum and maximum damper section size and assembly configurations for multi-section dampers.

Size Limitations

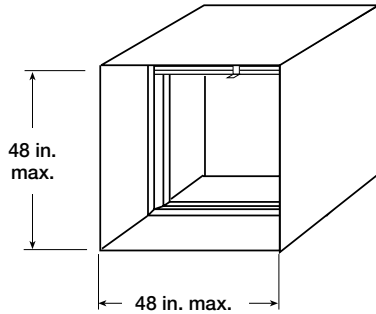
| | Type A | Type B |
|-------------|--------------------------|--------------------------|
| Inches (mm) | Vertical or Horizontal | |
| | Single Section | |
| Minimum | 6 x 6 (152 x 152) | 6 x 4 (152 x 102) |
| Maximum | 48 x 48 (1219 x 1219) | 48 x 42 (1219 x 1067) |

Installation of sizes larger than the maximums shown requires approval of the authority having jurisdiction.

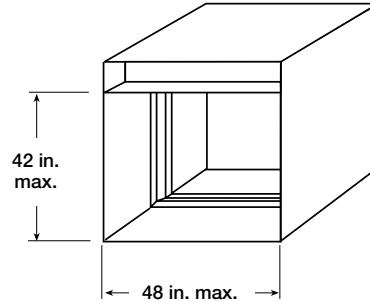


* These dimensions are furnished approximately 1/4 in. (6mm) undersize.

Maximum Single Section Dimensions Type A



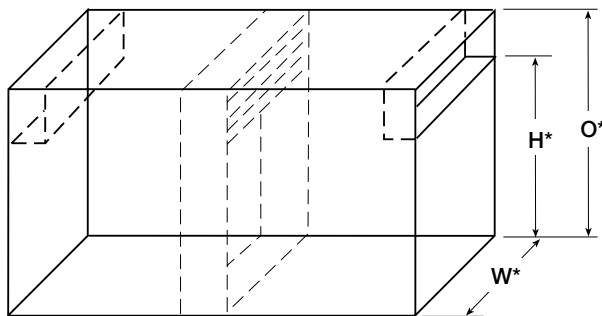
Maximum Single Section Dimensions Type B



SIZING DATA

FD-150X TYPE B

Type B Overall Damper Dimensions



| H* | O* |
|----------|----------|
| 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) | 18 (457) |
| 16 (406) | 19 (483) |
| 17 (432) | 20 (508) |
| 18 (457) | 21 (533) |
| 19 (483) | 22 (559) |
| 20 (508) | 23 (584) |
| 21 (533) | 24 (610) |
| 22 (559) | 26 (660) |

| H* | O* |
|-----------|-----------|
| 23 (584) | 27 (686) |
| 24 (610) | 28 (711) |
| 25 (635) | 29 (737) |
| 26 (660) | 30 (762) |
| 27 (686) | 31 (787) |
| 28 (711) | 32 (813) |
| 29 (737) | 33 (838) |
| 30 (762) | 34 (864) |
| 31 (787) | 36 (914) |
| 32 (813) | 37 (940) |
| 33 (838) | 38 (965) |
| 34 (864) | 39 (991) |
| 35 (889) | 40 (1016) |
| 36 (914) | 41 (1041) |
| 37 (940) | 42 (1067) |
| 38 (965) | 44 (1118) |
| 39 (991) | 45 (1143) |
| 40 (1016) | 46 (1168) |
| 41 (1041) | 47 (1194) |
| 42 (1067) | 48 (1219) |

* These dimensions are furnished approximately 1/4 in. (6mm) undersize.

SIZING DATA

FD-150X TYPE C, CO, CR, & R

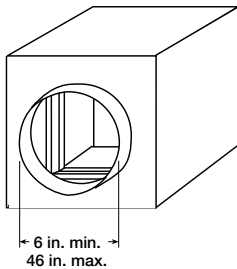
Factory sleeved FD-150X series dampers are available only as single section dampers.

| Inches (mm) | C & CO | | CR | | R*1 | |
|---------------------------|----------------------|--------------------------|------------|--------------|------------|--------------|
| | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum |
| Vertical or Horizontal | 6 x 5 (152 x 127) | 46 x 41 (1168 x 1041) | 6 (152) | 41 (1041) | 6 (152) | 46 (1168) |

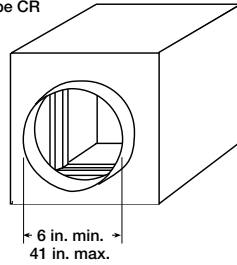
*1With 2 in. (50mm) offset. Sizes adjust with 1 in. (25mm) offset.

C, CO, CR transitions are positioned 1 in.(25mm) from bottom of sleeve.

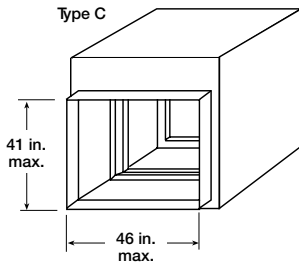
Type R



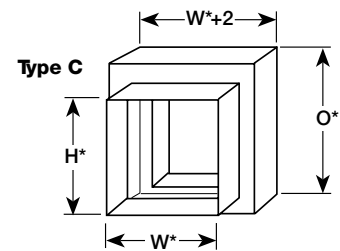
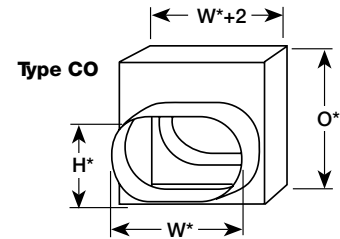
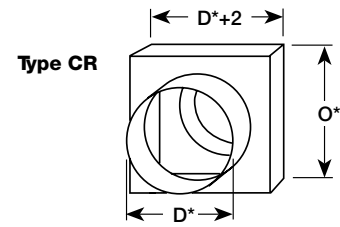
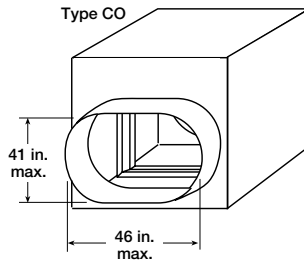
Type CR



Type C

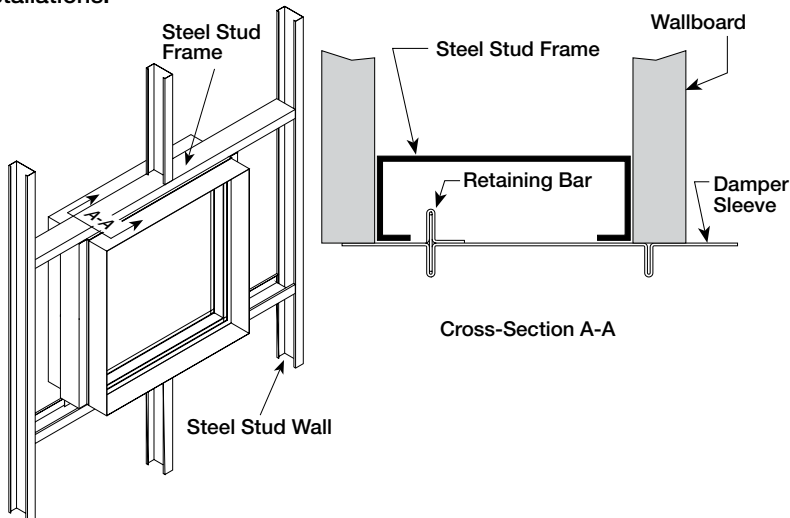


Type CO



Steel Stud Connection (SSC) Option

The Steel Stud Connection (SSC) Option allows fastening of the damper sleeve (up to 36 in. W x 36 in. H [914mm x 914mm]) directly to the wall's steel stud framing. This option replaces the angles that were previously required for wall installations.



| H* or D* | O* | H* or D* | O* |
|----------|----------|-----------|-----------|
| 3 (76) | 6 (152) | 23 (584) | 28 (711) |
| 4 (102) | 7 (178) | 24 (610) | 29 (737) |
| 5 (127) | 8 (203) | 25 (635) | 30 (762) |
| 6 (152) | 9 (229) | 26 (660) | 31 (787) |
| 7 (178) | 10 (254) | 27 (686) | 32 (813) |
| 8 (203) | 11 (279) | 28 (711) | 33 (838) |
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| 21 (533) | 26 (660) | 41 (1041) | 48 (1219) |
| 22 (559) | 27 (686) | | |

*Dimensions are in inches (mm). These dimensions are furnished approximately 1/4 in. (6mm) undersize.

