

Single 3-Side Retaining Angle-Vertical Mount Floor Installation INSTALLATION INSTRUCTION SUPPLEMENT

Refer to:

'Installation Instructions for FSD-XXX, DFD-XXX, SSFSD-XXX & CFSD-XXX Series Fire & Combination Fire Smoke Dampers' (Part #461336)


FSD Series

1 1/2 Hour Combination Fire Smoke Dampers-Vertical Mount

MULTI-BLADE DFD Series

1 1/2 Hour Fire Dampers-Vertical Mount

"UL CLASSIFIED

(see complete marking on product)"

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

Standards UL 555 & 555S

Classifications Filed at UL under Listing #R13317

These instructions apply to 1 1/2 hour rated combination fire smoke dampers and fire dampers mounted in masonry, block, or metal or wood stud walls. Specific requirements in these instructions are mandatory. These instructions meet the requirements of UL 555.

Installation shall comply with the requirements of NFPA 90A (Standard for the Installation of Air Conditioning and Ventilating Systems) and UL Classification R13317.

Dampers up to a maximum size of 80 in. W x 50 in. H (2032mm x 1270mm), 50 in. W x 80 in. H (1270mm x 2032mm), or 40 in. W x 100 in. H (1016mm x 2540mm) may be installed as illustrated below. (Larger damper assemblies require retaining angles on both sides of the partition.)

- Retaining angles must be attached to the sleeve and the partition.
- Retaining angles for dampers with a width and height 48 in. (1219mm) or less must be a minimum of 20 ga. (1mm). Retaining angles for all dampers with a width or height greater than 48 in. (1219mm) must be a minimum of 16 gauge (1.5mm). The leg of the retaining angle on the damper sleeve shall be a minimum of 1 1/4 in. (32mm). The leg of the retaining angle on the wall shall be long enough to cover the annular space and overlap the wall by at least 1 in. (25mm).

For metal stud partitions only, the single-side mounting angle may be directly attached to the metal stud prior to the installation of the drywall.

- Retaining angles must be attached to the sleeve using one of the methods shown below:
 - tack or spot welds
 - #10 sheet metal screws
 - 1/4 in. (6mm) nuts and bolts
- Retaining angles must be attached to the partition using one of the methods shown below:
 - Drywall screws of a length such that the screw engages the steel stud/track by 1/2 in. (13mm) (steel framing).

- Drywall screws of a length such that the screw engages the wood stud by 1 3/4 in. (44mm) (wood framing).
- Steel anchors or self tapping concrete screws penetrating masonry or block 1 1/4 in. (31mm).
- On the top and sides of the damper a minimum of two connections are required between the retaining angles and the sleeve and between the retaining angles and the partition. On dampers with a maximum width of 48 in. (1219mm) and a maximum height of 36 in. (914mm) the maximum spacing between connections shall be 12 in. (305mm). On dampers with a width greater than 48 in. (1219mm) or a height greater than 36 in. (914mm) the maximum spacing between connections shall be 6 in. (152mm).
- A retaining angle is not required on the bottom side of the damper. However, the damper shall rest directly on the base of the wall opening. In addition, the sleeve on the retaining angle side of the barrier shall not be more than 1 in. (25mm) above the floor.



