1½ hour — combination fire smoke dampers installation instructions

The following installation details apply to model **FSD-125R**

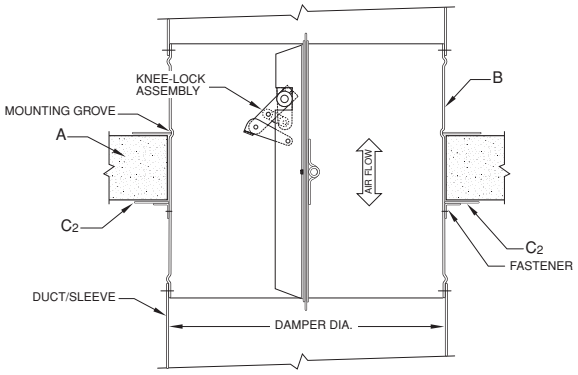


Figure 1a
Horizontal Concrete Partition

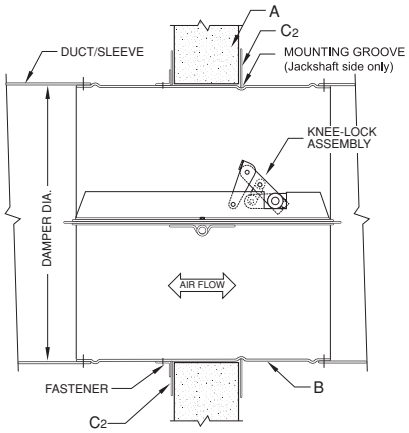


Figure 1b
Vertical Concrete Partition

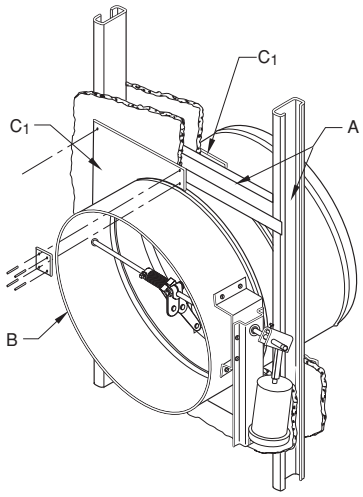


Figure 2
Stud Partition

A. Concrete or masonry fire partition shown in figure 1a and 1b. Wood or steel stud fire partition shown in figure 2. See Wood Stud and/or Steel Stud Framing for Fire Dampers In Drywall and/or Cavity Shaftwall Partitions Supplemental Installation Instructions for further vertical installation details. The square or round opening shall be a minimum ¼" (6) larger than the damper sleeve/frame. Damper must be installed with the leading edge of the closed blade within the partition. For mounting angles that are up to and including 1-½" high, the opening shall be a maximum of ¾" (19) larger than the overall damper and sleeve assembly. When openings are larger than ¾" (19), but less than 6" (152) the mounting angles must be a minimum of 16 gauge (1.5) and must be tall enough to overlap the opening by a minimum of 1" (25).

B. The connecting duct shall not be continuous, and shall terminate at the sleeve/frame using one or more of commonly used break away style connections. Refer to Sleeve Termination Supplemental Installation Instructions for further details. Damper sleeve shall not extend more than 16" (406) beyond the rated partition on the actuator side. The opposite side extension shall be a maximum of 6" (152) unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16" (406).

C1. Single Sided angles: The holding plate mounting groove (on operator side) of the damper must be flush with the wall. Set the holding plate (see figure 3 & 4) into the mounting groove. Secure the plate with joiner clips (see figure 5) using four ⅛" (3) minimum rivets, #10 (M5) sheet metal screws, bolts or welds per joiner clip. The holding plate shall be attached at each corner to the rated partition with #10 (M5) screws, bolts or ⅛" (3) rivets.

C2. As a further option for round opening the holding plate may be replaced by 1-½" x 1-½" x 20 GA. (38 x 38 x 1) minimum angle rings. The ring shall be fastened to the damper sleeve and the partition at 8" (3) on center maximum with a minimum of 3 fasteners using #10 (M5) sheet metal screws, bolts, masonry anchors, ⅛" (3) diameter rivets of welds.

C3. Dual sided angles: the holding plate mounting groove (on operator side) of damper sleeve must be flush with wall. Seat the holding plate (see figures 3 & 4) into the mounting grove on operator side of damper. Then place the plate until it touches partition. Secure both plates wit joiner clips (see figure 5) using four ⅛" (3) minimum rivets, #10 (M5) sheet metal screws, bolts or welds per joiner clip. A minimum of 3 clips angles (see figure 8) shall be arrange symmetrically around the damper and fastened to the damper sleeve on the guide plate side of the partition and on in contact the guide plate. Fasteners shall be #10 (M5) screws, bolts, ⅛" (5) rivets or welds.

D. Fire/leakage rated damper and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Damper operator/actuator must be tested prior to system start up to ensure proper operation. Before applying power to the actuator the power must be verified.

Model - FSD-125R
For Use in Dynamic or Static Systems.
1-1/2 Hour Rated.
Vertical or horizontal mounting.
Galvanized and Stainless Steel construction.

Underwriter's Laboratories file #R14981
The product is also listed by CSFM file
3225-1404:112 and 3230-1404:113
and conforms to NFPA 90A and NFPA 92A.
City of New York listing
MEA 295-98-E

CLASSIFIED UL SEE DETAILS ON UL CLASSIFICATION MARKING ON ENCLOSED PRODUCT CLASSIFIED UL C

LISTING STATE OF CALIFORNIA STATE FIRE MARSHAL SERVICE

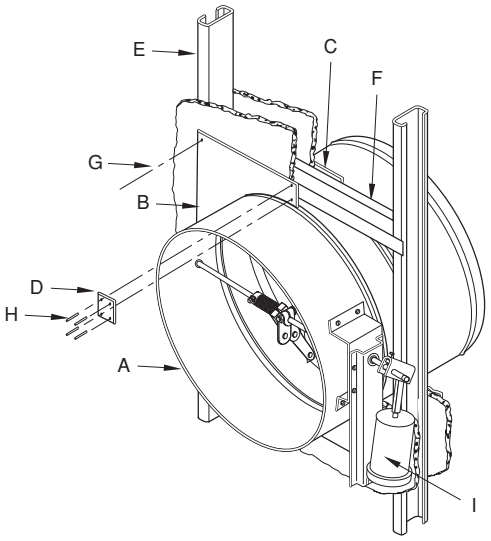
Information is subject to change without notice or obligation.

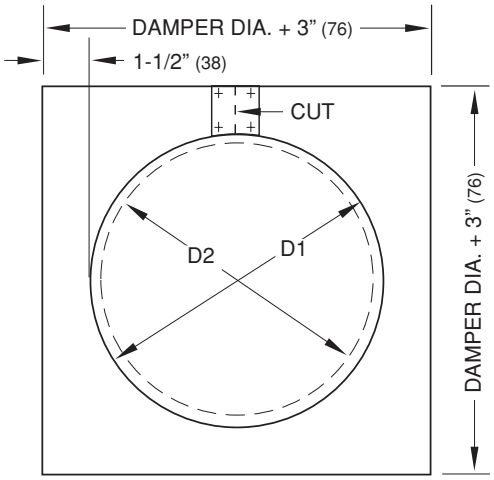
NOTE: Dimensions in parentheses ( ) are millimeters.

The following installation details apply to model **FSD-125R**

DESCRIPTION

A - FSD-125R Combination Fire and Leakage Rated Damper.
B - Holding Plate, 20 ga.(1) steel.
C - Guide Plate, 20 ga. (1) steel.
D - Joiner Clip, 20 ga. (1), steel, typical both plates.
E - Steel or Wood Stud.
F - Steel or Wood Runner.
G - #10 (M5) Sheet Metal Screw.
H - 1/8" (3) Dia. Steel Pop Rivet, or #10 (M5) x 1/2" (13) Sheet Metal Screw.
I - Motor Operator.





D1 = DAMPER DIA. FOR GUIDE PLATE
D2 = DAMPER DIA. - 3/8" (10) FOR HOLDING PLATE

Figure 3
Guide Plate & Holding Plate Detail

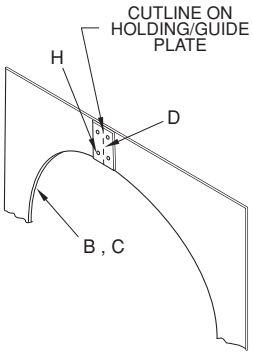


Figure 4
Joiner Clip Assembly

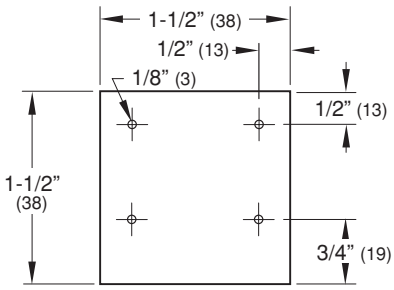


Figure 5
Joiner Clip
- 20 GA. (1) Galv. Steel -

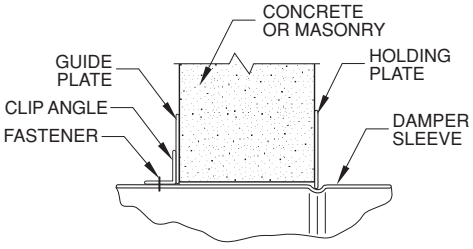


Figure 6
Concrete Partition Detail

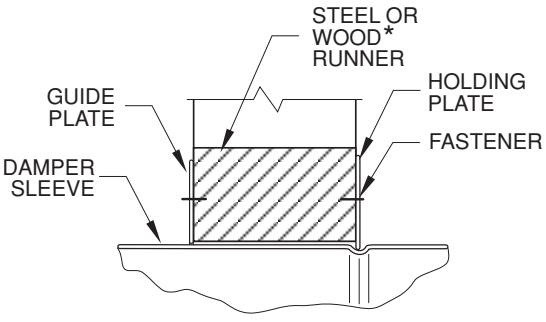


Figure 7
Stud Partition Detail

* Note: If wood, opening must be lined with drywall

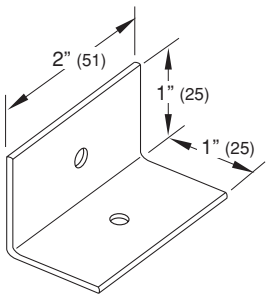


Figure 8
Clip Angle
- 20 GA. (1) Galv. Steel -

NOTE: Dimensions in parentheses ( ) are millimeters.