

The following installation details apply to model **VFD-15R**

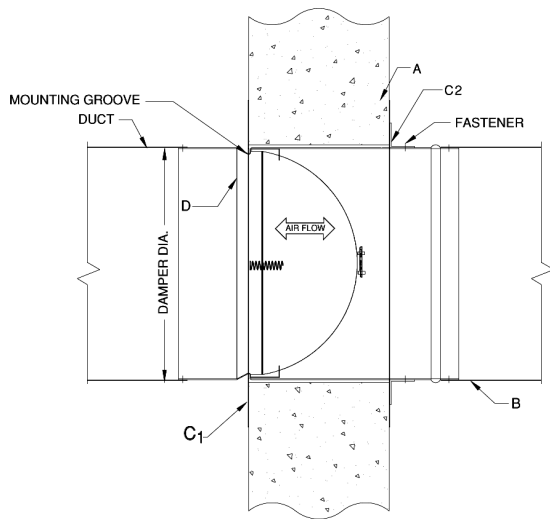


Figure 1
Concrete Partition

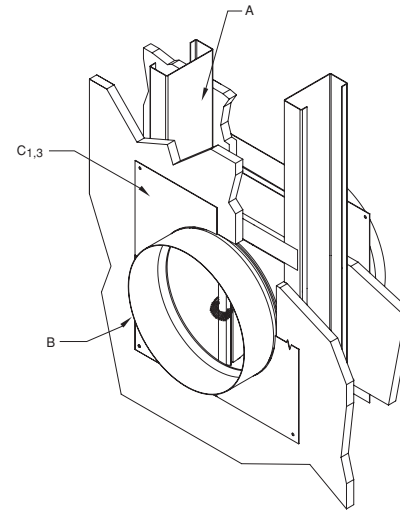


Figure 2
Stud Partition

Note: Vertical installation shown. Horizontal installation similar.

- A.** Concrete or masonry fire partition shown in figure 1. 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 of 1/4" (6) with a maximum of 3/4" (19) larger, 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). Damper must be installed with leading edge of closed blade within the partition.
- 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 6" (152) beyond the rated partition unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16" (406).
- C1.** The holding plate mounting groove of damper sleeve must be flush with wall. Seat the holding plate (see figures 3, 3A & 4) into the mounting groove on operator side of damper. Then place the plate until it touches partition. Then place guide plate (see figures 3A and 4) around the opposite side of damper sleeve and slide forward until it touches partition. Secure both plates with joiner clips (see figure 5) using four 1/8" (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 arranged 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, 1/8" (5) rivets or welds. The guide plate shall be attached to the rated partition with #10 (M5) screws, bolts or 1/8" (3) rivets. If the plate is square, (for square openings) it must be attached to the partition at all four corners. If the plate is round, (for round openings) it must be attached to the partition with a minimum of four fasteners, equally spaced around the circumference of the plate. As an alternative to the above, the dampers can be installed as follows:

Diameter ≤ 8"

Follow the same details as in C1 except the guide plate and holding must be attached to the damper sleeve with clip angles spaced a maximum of 8" O.C. and the clip angles must be staggered on either side of the partition. The guide plate does not have to be attached to the rated partition.

Diameter > 8" and ≤ 12"

Follow the same details as in C1 except the guide plate and holding must be attached to the damper sleeve with clip angles spaced a maximum of 4" O.C. and the clip angles must be staggered on either side of the partition. The guide plate does not have to be attached to the rated partition.

- C2.** As a further option for round openings either or both plates may be replaced by 1-1/2" x 1-1/2" x 20 GA. (38 x 38 x 1) minimum angle rings. The ring shall be fastened to the damper sleeve and not the partition at 8" (3) on center maximum with a minimum of 3 fasteners using #10 (M5) sheet metal screws, bolts, masonry anchors, 1/8" (3) diameter rivets or welds.

For horizontal installation of the damper in a concrete floor, the holding plate must be installed on the top side of the floor opening.

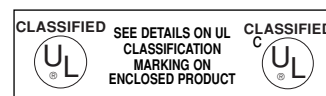
- D.** On non-integral sleeve units, when fastening the damper to the sleeve, the damper shall be fastened with 3/16" (4.8) diameter steel rivets, Quick-Lock joints, welds, No. 10 (M5) bolts or sheet metal screws at 8" (203) o.c. maximum. A minimum of two connections per assembly.

Note:

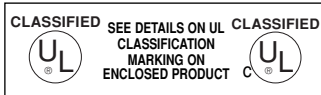
Annular space between damper sleeve and wall opening shall not be filled with firestop materials such as fill, void or cavity materials. Underwriter's Laboratories file #R11767.

The product is also listed by CSFM File # 3225-0368:114

For vertical and horizontal applications.

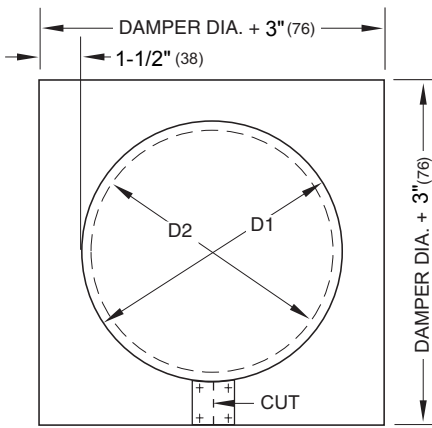
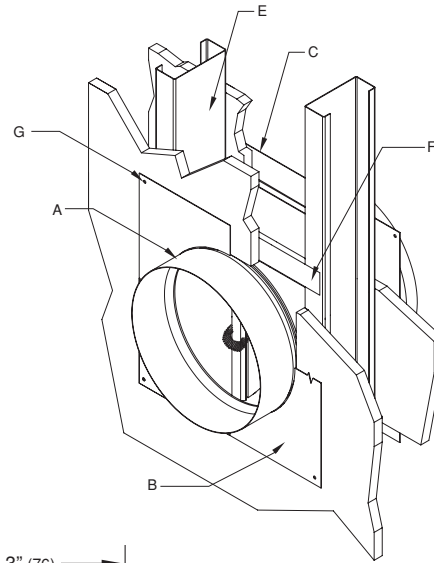


The following installation details apply to model **VFD-15R**



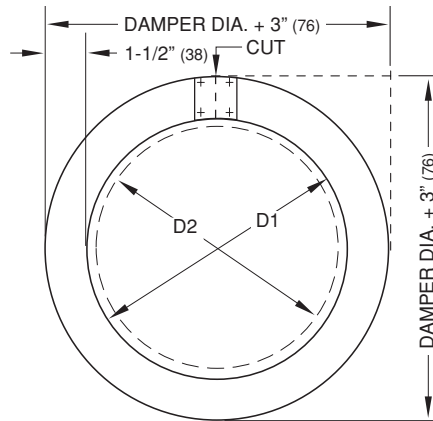
DESCRIPTION

- A - VFD-15R Fire 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.



D1 = DAMPER DIA. FOR GUIDE PLATE
 D2 = DAMPER DIA. - (10) FOR HOLDING PLATE

Figure 3
Square Openings
 Guide Plate & Holding Plate Detail



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

Figure 3A
Round Openings
 Guide Plate & Holding Plate Detail

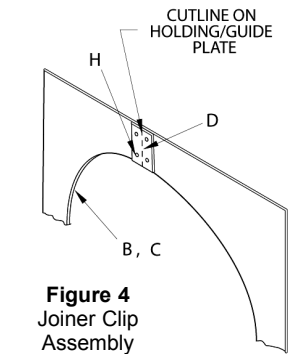


Figure 4
Joiner Clip Assembly

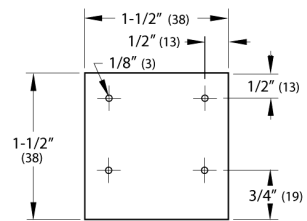


Figure 5
Joiner Clip
 20 GA. (1) Galv. Steel

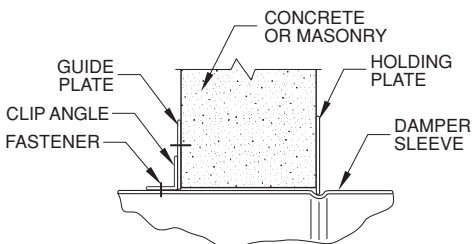


Figure 6
Concrete Partition Detail

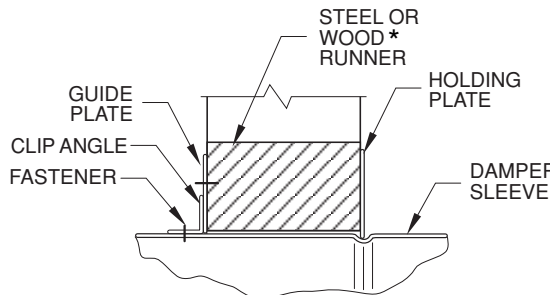


Figure 7
Stud Partition Detail

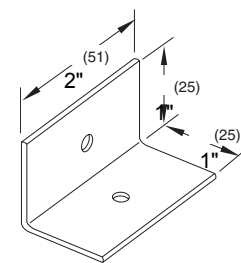


Figure 8
Clip Angle
 - 20 GA. (1) Galv. Steel -

Underwriter's Laboratories file #R11767.
 The product is also listed by CSFM File # 3225-0368:114
 Information is subject to change without notice or obligation.

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

NOTE: Dimensions in parentheses () are millimeters.