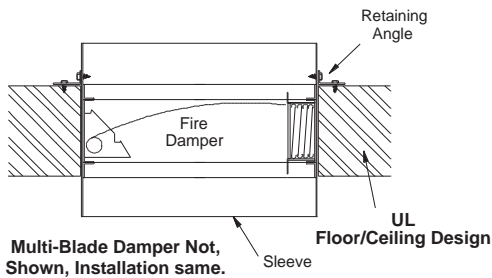




SUPPLEMENTAL INSTALLATION INSTRUCTIONS FOR FIRE DAMPERS MOUNTED WITH RETAINING ANGLE ON ONE SIDE ONLY HORIZONTAL MOUNT (VERTICAL AIRFLOW) ONLY

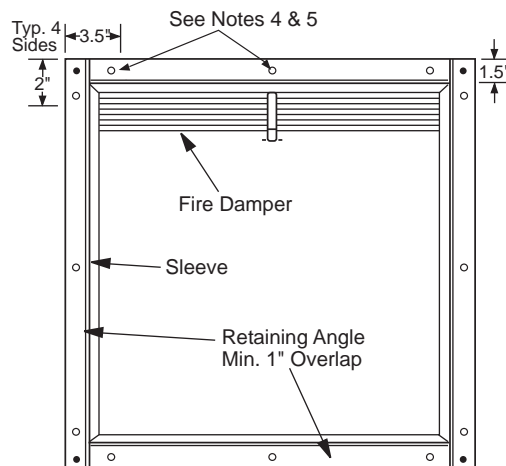
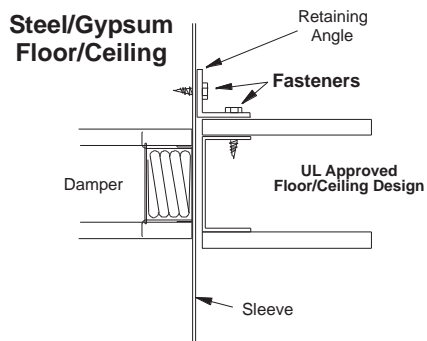
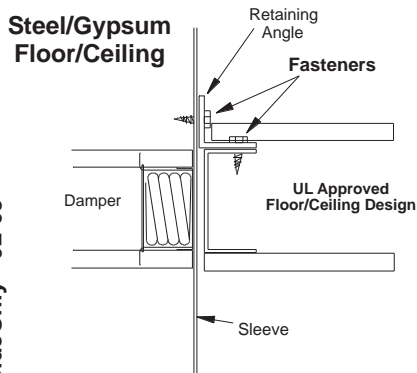
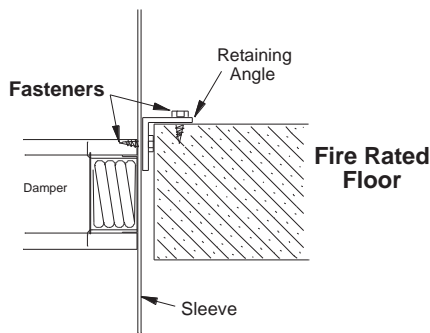


Application:

This installation is for the mouting of fire dampers in floors/ceilings design found in the UL Fire Resistive Directory with the use of a retaining angle mounted on one side only. This application allows for the use of a 16 gauge angle on one side of the floor only, which is fastened to the damper sleeve as the floor. Mounted angle can only be installed on the top surface of the floor.

Notes:

- (1) Refer to the specific fire damper model installation instructions provided with the damper for details concerning Sleeve Thickness, Sleeve Length, Duct Connections, Multiple Assembly and Open Tolerances.
- (2) The maximum opening size shall be 96" wide or 48" high, FDD Model is 36" x 36".
- (3) The gypsum panels must be screwed 12" o.c. maximum to all stud and runner flanges surrounding opening.
- (4) The mounting angle shall be a minimum of 1-1/2" x 1-1/2" x 16 ga. steel and fastened with #10 bolts or screws, 1/2" welds, or 3/16" rivets to the sleeve at a maximum spacing of 8" o.c. not more than 2" from each end with a minimum of two connections on each side, top and bottom. NCA's Frame Retaining Angles (FRA) can be used in place of the angle mentioned above. Angles are to overlap opening a minimum of 1" and are required to be fastened to the floor and one side of the dampers sleeve only. Angles can be placed in front of or behind the drywall attaching directly to the steel studs or masonry. Mounted angle can only be installed on the top surface of the floor.
- (5) Secure mounting angles to the floor with #10 screws only enough to penetrate J-Runners and E-Stud by a minimum of 3/8". Use a minimum of two fasteners per side.
- (6) See drawings on this page for any additional information. Angles may be field fabricated or ordered from the factory.
- (7) Refer to the Installation Instruction for Drywall Type Construction for the material and opening framing details.



The multi-blade type fire damper installation is the same as the curtain blade type fire damper shown. This instruction sheet has been reviewed and accepted by Underwriters Laboratories.