



Installation Instructions For Model 5660F Vertical & Horizontal Fire Dampers For Use In Static Systems

These Instructions Typify Both Horizontal And Vertical Installations Except As Noted,
And Apply Also To Masonry And Drywall Construction (see also Sheet GENII-2)

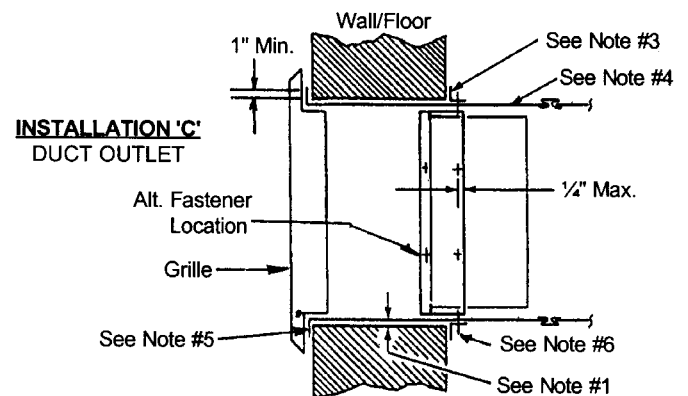
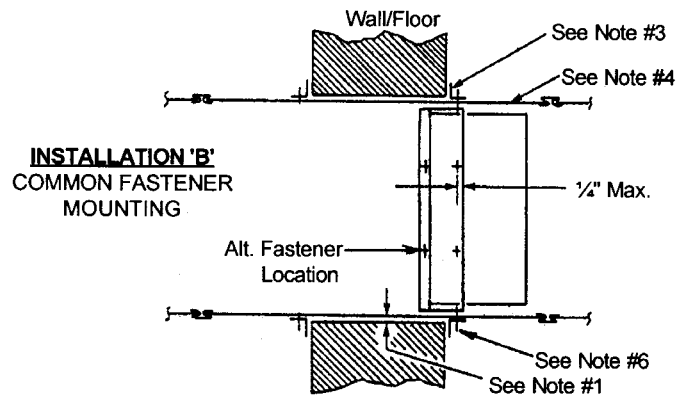
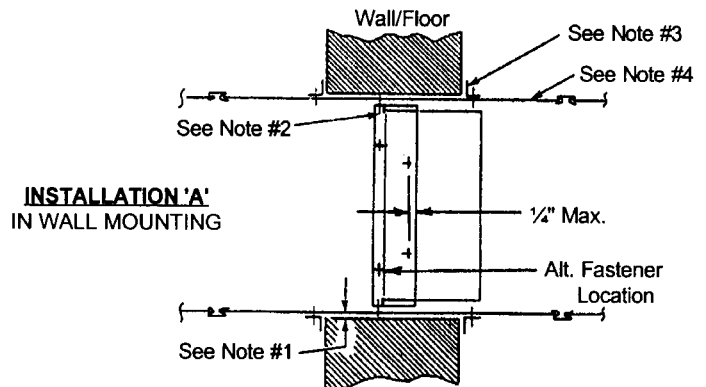
Rated per UL555, UL File R6189

NOTES:

1. Minimum clearance between the wall/floor opening and the damper/sleeve assembly shall be 1/8" per foot of width and height, with a minimum of 1/4" for any size. Mounting angles shall overlap opening by 3/4" minimum on all sides up to 18" and 1" over 18".
2. The damper frame may be fastened to the sleeve using any of the following: 3/16" steel rivets, #14 sheet metal screws, #8 bolts and nuts or 1/2" tack welds spaced at a maximum of 3" center to center for 1-1/2 hour or 3 hour rated dampers. A minimum of one fastener per side must be used.
3. Mounting angles must be installed on both sides of the wall/floor opening and must be used on all 4 sides of the damper/sleeve assembly (exceptions noted). Minimum mounting angle size is 1"x1"x18 gauge up to 18" width or height, and 1-1/2"x1-1/2"x16 gauge for larger dampers. Mounting angles are to be attached to the damper/sleeve assembly using any of the following: 3/16" steel rivets, #14 sheet metal screws, #8 bolts and nuts or 1/2" tack welds spaced at a maximum of 8" center to center for 1-1/2 Hour or 3 hour rated dampers. A minimum of one fastener per side must be used. Fasteners must not interfere with blade operation.
4. As per UL555, for rigid joints the thickness of the sleeve shall be a minimum of .053 inch for uncoated steel and .056 inch for coated steel with dimensions not exceeding 24 inches in height or 36 inches in width, and a minimum of .067 inch for uncoated and .070 for coated steel for larger size dampers. EXCEPTION (to note #4): This requirement does not apply when one or more UL approved breakaway joints are used as the connection between the sleeve and ducts. In this case, the sleeve thickness shall not be less than that required by the Standard for the Installation of Air-Conditioning and Ventilating Systems, NFPA 90A. For Ductmate Type connections, a modified 4 bolt system may be used. See Sheet GENII-3 for details.
5. When Model 5660F is used in duct outlet application, fabricate the sleeve as shown. Fasten the damper frame to the sleeve as in Note #2 above or Note #6 below. Install mounting angles as per Note #3 above. The sleeve may be flanged on one side in lieu of one mounting angle if the sleeve is a minimum of 16 gauge and the flange overlaps the wall opening by 1" minimum.
6. A single row of fasteners (per Note #3) may be used to attach the damper, sleeve and the mounting angles.
7. The plane of the blades when in the closed position must be within the wall/floor opening.
8. Vertically mounted dampers (in horizontal ducts) must have the blade pivot axis in the vertical position.

Instructions for Installations WITH Sleeves

No additional sleeve is required when the damper is installed in duct of 20 gauge or less and a UL approved breakaway connection is used.



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