



Rated per UL555 & UL555S, UL File R6189

Supplemental Installation Instructions for 5000 Series Combination Fire & Leakage Rated Dampers

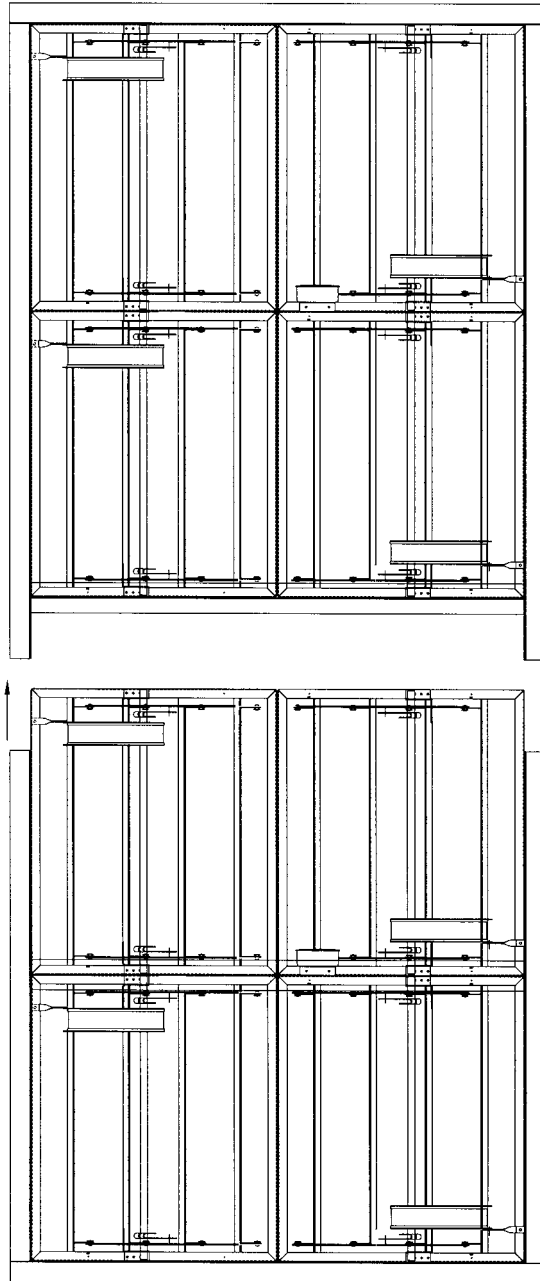
Multiple assemblies of horizontal mount fire dampers and combination fire and smoke dampers exceeding 52" x 42" shall comply with these instructions. See sheet 5000-II for basic damper installation instructions.

Notes:

- Opening Size** - The minimum clearance between the floor opening and the sleeve is 1/8" per foot of nominal damper width and height, with a maximum clearance of 1 1/2".
- Installation** - 5000 series dampers are approved for horizontal mounting in rated floors. When sized as noted above, the unit must not be mounted upside down (reference the "Arrow Up" Label).

The damper must be mounted square to prevent racking and binding, which could result in unacceptable closure and, when applicable, an inadequate fire/smoke barrier.

The Damper/Sleeve assembly must be supported in the opening by 1 1/2" x 1 1/2" x 16 Ga. mounting angles on the top side only for assemblies larger than 22 1/2 sq. ft., smaller units require angles on bottom side also. Any unit height or width greater than 72" will require 2" x 2" x 16 Ga. angles. The mounting angles must overlap the floor by a minimum of 1". The mounting angles are attached to the sleeve with 1/2" welds on a minimum of 6" centers. The angles are butted at the corners and the seam is continuously welded.



Model 5050 Plan View Shipped in 2 Sections

Sleeve and Mounting Angle Offset From Joint Between the 2 Sections

1. Move the 2 Sections together to butt the Sleeve and Mounting Angles.
2. Attach the sections with #10 x 3/4" sheet metal screws through the mating damper frames. The screws must be on a minimum of 6" centers and positioned so they will not interfere with any blade travel.
3. Attach the splice plates as outlined in the instructions. See fig.2

Figure 1

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Supplemental Installation Instructions for Large Scale Horizontal 5000 Series Dampers (Continued)

3. **Sleeve Splice** - Multiple section assemblies will normally be shipped as a single unit. Units shipped in 2 sections have factory mounted sleeves attached to 3 sides of each section (see Figure 1). The sleeve sections require splicing with (2) 8" x 18" splice plates shipped with the damper sections with (10) #10 x 3/4" sheet metal screws for each plate. The screws must be located so they will not interfere with damper function. (See figure 2). Sleeves may extend beyond the floor no more than 16". The mating frames must be screwed together in 2 rows on a minimum of 6" staggered centers and located so they will not interfere with any blade travel.

4. **Duct Connections** - UL Standard 555 requires all duct connections to be either rigid or breakaway types. Rigid connections for sleeves of this size require a minimum of 14 Ga. Lighter gauge sleeves are allowed when used in conjunction with a UL approved breakaway connection (see Figure 3). Minimum sleeve gauge for large scale multiple section horizontal mount dampers is 16 Ga.

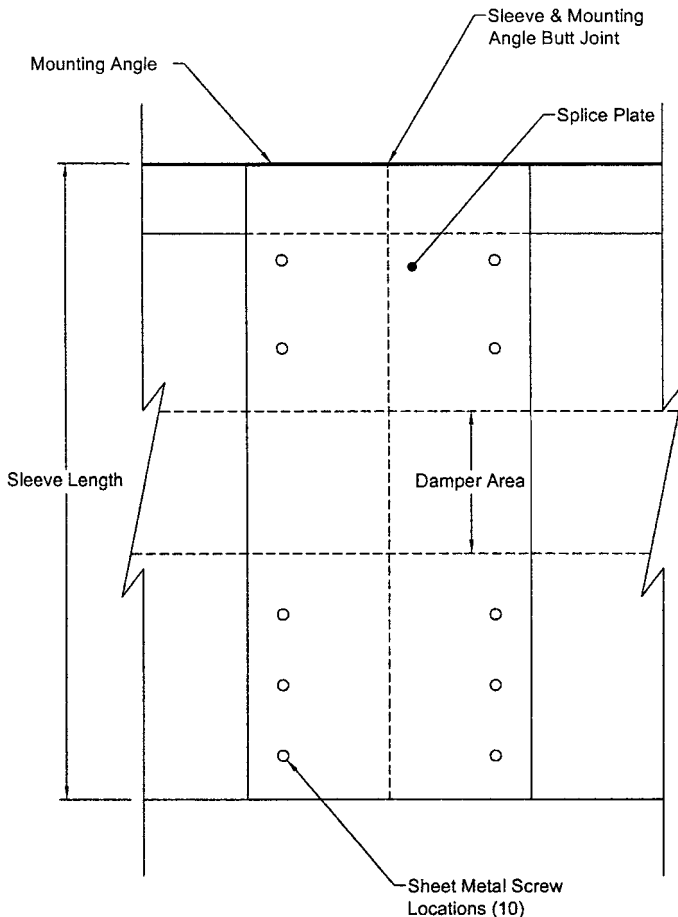


Figure 2
Sleeve Splice Detail

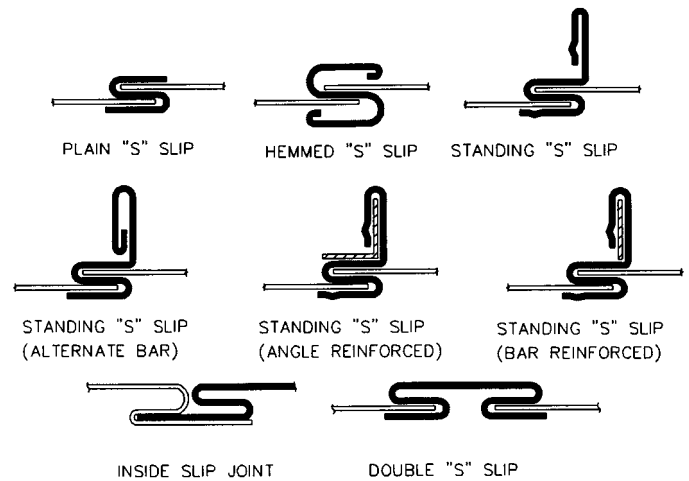


Figure 3
UL Breakaway Connections