

Installation in Fire Resistant Duct Assembly

For all MCDLG Fire and Combination Fire-Smoke Dampers

Vertical Mount

APPLICATION

These instructions are for installing vertically mounted fire and combination fire smoke dampers in a fire resistant ventilation duct (UL Ventilation duct Assembly HNLN.V-5).

NOTES

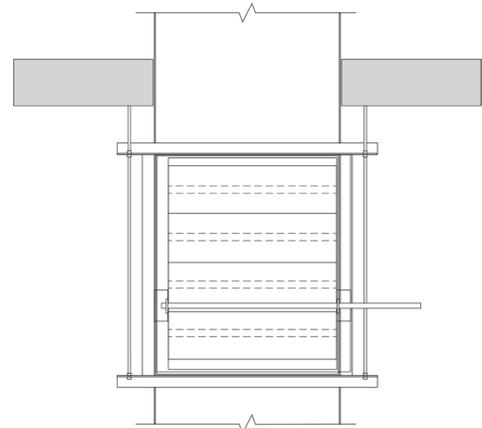
- The damper sleeve must slip inside the fire resistant duct spool. Damper sleeve assembly will be ¼" (6), ½" (13) maximum, smaller than duct spool size.
- Damper is to be supplied with factory mounted sleeve. Sleeve gauge will be minimum of 16 GA. (1.5) for dampers up to 36" wide x 24" high (914mm x 610mm) and 14 GA. (2) for dampers exceeding 36" wide x 24" high (914mm x 610mm).
- Mounting angles need to be the following sizes:
 - 1 ½" x 1 ½" x ¼" up to 24"
(38mm x 38mm x 6mm, up to 610mm)
 - 2" x 2" x ¼" over 24" up to 32"
(51mm x 51mm x 6mm over 610mm, up to 813mm)
 - 2 ½" x 2 ½" x ¼" over 32" up to 40"
(64mm x 64mm x 6mm over 813mm, up to 1016mm)
 - 3" x 3" x ¼" above 40"
(76mm x 76mm x 6mm above 1016mm)
- Mounting angle fasteners:
 - #10 (4) bolts or screws
 - ⅜" (4) steel rivets
 - ½" (13) long welds
- Mounting Angle Fasteners Spacing:
 - Mounting angles to dampers, space fasteners on 6" (152mm) on center.
 - Mounting angle to spool flange, space fasteners on 12" (305mm) on center.
 - Minimum 2 fasteners per side.
- Hanger rods:
 - ⅜" (10) threaded rod anchored to the floor above and attached to the mounting angles through hole in the angles and secured with hex nut and washer (items 5 & 6). Anchor to masonry per assembly No. V-5.
- Duct to Damper Sleeve Connection:
 - See the fire damper or the combination fire-smoke installation instructions for breakaway, flanged, or non-breakaway connections.

SUPPLEMENTAL INSTALLATION INSTRUCTIONS / SUBMITTAL DATA

- One-Side Retaining Angles (SI-CDLG-FSOS)
- Out-of-Wall/Floor (SI-CDLG-OOWFD)
- Alternate Out-of-Wall/Floor C-Style (II-CDLG-OOWCFD)
- Sleeve Extension (SI-CDLG-SLVEXT)
- Transfer Openings (SI-GFTD)
- Installation of Flanged Duct Connections for UL Dampers (SI-CDLG-ULFDC)
- Security Bars (SD-SB)
- Transitions - C-Style, Round, Oval, or Square (SI-CDLG-TRFD)
- Transitions - B-Style Round, Oval or Square (SI-BPAN)
- Sleeves & Sideplates (SI-CLDG-SLVS)
- Position Indication Switch Package (SI-CDLG-SWITCH)
- PK1202 Switch Package (SI-CDLG-PK1202)
- Retaining Angles (SI-TLRA)
- Corrugated Decking (SI-DECKING)



Please refer to the UL or ULC Classification Marking on the Product.



End View



MESTEK, INC.
Commercial Damper
& Louver Group



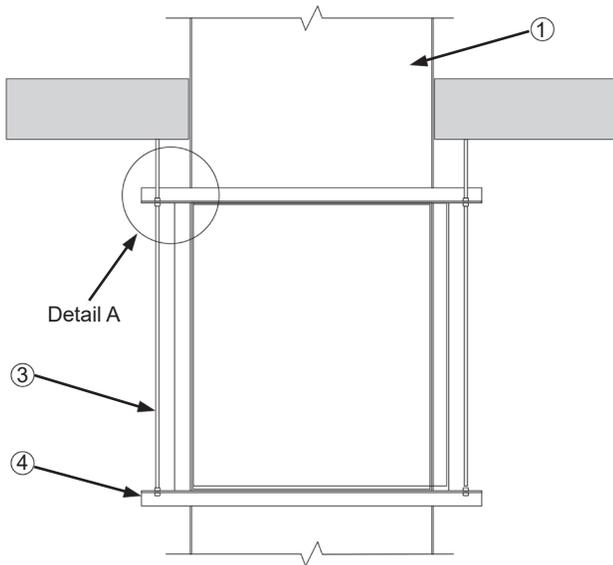
air balance
Dampers Louvers
U.L. Life Safety Products



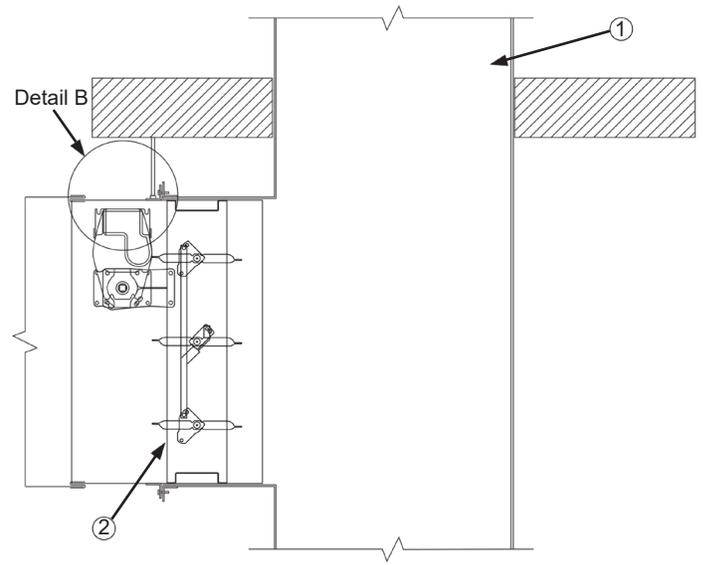
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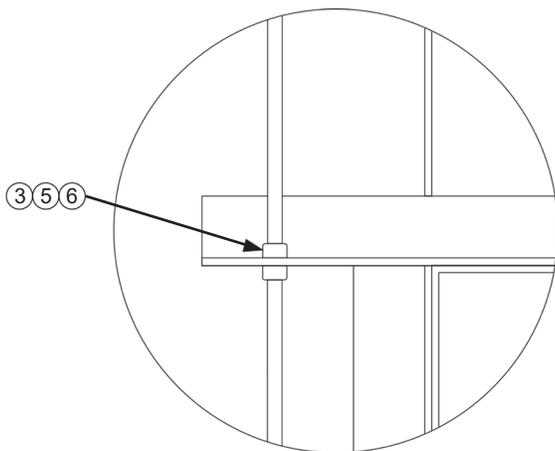
Item	Description
1	Fire Resistant Ventilation Duct (UL HNLN Assembly No. V-5)
2	Fire Damper or Combination Fire-Smoke Damper
3	Hanger rods in accordance with assembly No. V-5
4	Mounting angles (see Note 3, Page 1)
5	$\frac{3}{8}$ " (10) hex nuts
6	$\frac{3}{8}$ " (10) flat washer
7	Mounting angle fasteners (see Note 4, Page 1)



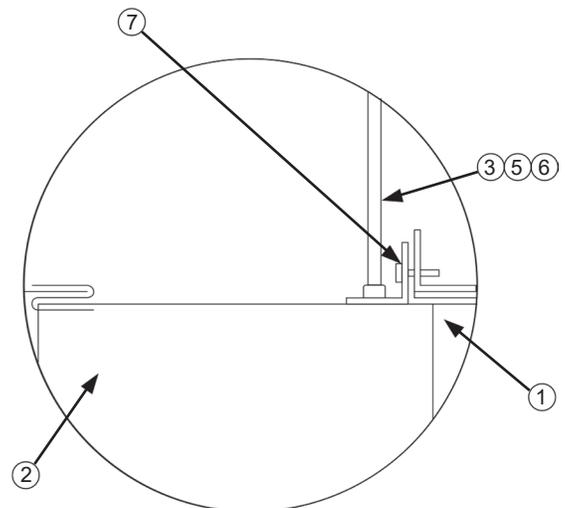
End View



Side View



Detail A



Detail B