

**INSTALLATION INSTRUCTIONS**  
**FIRE AND COMBINATION FIRE AND SMOKE DAMPER**  
**INSTALLATION IN FIRE RESISTANT VENTILATED DUCT ASSEMBLY**  
**UL Category Control No. HNLJ Assy No. V-5**

## APPLICATION

Vertical installation of fire and combination fire and smoke dampers in a fire resistant ventilation duct, can be accomplished when installed as shown.

## NOTES

1. The damper sleeve must slip inside the fire resistant duct spool. Damper sleeve assembly will be 1/4" min., 1/2" max., smaller than duct spool size.
2. Damper to be supplied with factory mounted sleeve. Sleeve gage shall be minimum of 16 (1.6) gage for dampers up to 36"w x 24"h (914 x 610) and 14 (2) gage for dampers exceeding 36"w x 24"h (914 x 610).
3. Mounting Angles:  
1 1/2" x 1 1/2" x 1/4" (38 x 38 x 6) to 24" (610)  
2" x 2" x 1/4" (51 x 51 x 6) over 24" (610) up to 32" (813)  
2 1/2" x 2 1/2" x 1/4" (64 x 64 x 6) over 32" (813) up to 40" (1016)  
3" x 3" x 1/4" (76 x 76 x 6) above 40" (1016)
4. Mounting Angle Fasteners:  
#10 (4) bolts or screws  
3/16" (4) steel rivets  
1/2" (13) long welds
5. Mounting Angle Fasteners Spacing:  
Mounting angles to damper sleeve, space fasteners on 6" (152) on center.  
Mounting angle to spool flange, space fasteners on 12" (305) on center.  
Minimum 2 fasteners per side.
6. Hanger Rods:  
3/8" (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 and 6). Anchor to masonry per assembly No. V-5.
7. Duct to Damper Sleeve Connection:  
See the fire damper or the combination fire/smoke damper basic installation instruction for breakaway, flanged or non-breakaway connections.

## INSTALLATION SUPPLEMENTS

Refer to the appropriate Ruskin installation instruction supplements for additional information or special requirements:

- Optional Sealant of Dampers in Fire Rated Wall or Floor Openings
- Extension of Fire and Combination Fire and Smoke Damper Sleeves
- Drivemate No. 14880 Breakaway Connection
- Flanged System Breakaway connections
- TS150 FireStat for "Reopenable" Combination Fire and Smoke Dampers
- SP100 Switch Package
- EFL Electric Resettable "Fuse" Link
- EFL/SP100 Electric Resettable "Fuse" Link
- PFL Pneumatic Fuse Link
- DSDF Flow Rated Duct Smoke Detector
- DSDN No-Flow Rated Duct Smoke Detector

Dimensions shown in parentheses ( ) indicate millimeters.



**ITEM DESCRIPTION**

1. Fire Resistant Ventilation Duct (UL Category Control No. HNLJ. 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)
5. 3/8" (10) Hex Nuts
6. 3/8" (10) Flat Washer
7. Mounting Angle Fasteners (See Note #4)

