

## FIRE DAMPER MODEL K75 INSTALLATION INSTRUCTIONS

### VERTICAL OR HORIZONTAL MOUNT 1-1/2 HRS RATING (FOR USE IN 2 HOURS OR LESS RATED PARTITIONS)

Damper shall be fastened to sleeve with No. 14x3/4 sheet Metal screws on 6" center (max). No further than 2" from end.

See Notes 2 & 3 for Duct connections.

Angle shall be a minimum of 1-1/2" x 1-1/2" x 1/16" fasten to sleeve (see note 4 for expansion and overlap). Angles shall not be fastened to each other at the corners.

#### NOTES:

- Sleeves shall be of the same gauge or heavier than the duct to which it attached. Gauge shall conform to SMACNA or ASHRAE standards.
- When the following sleeve connections are used, the minimum gauge of the sleeve shall be 16 gauge on dampers not exceeding 36" W x 24" H and 14 gauge on larger dampers.
  - Angle reinforced standing seam.
  - Angle reinforced pocket lock.
  - Companion angles.
  - Metal fasteners approximately 16" on centers.
- The following breakaway sleeve connections may be used on all systems :
 

a. Plain "S" slip	e. Reinforced bar slip
b. Hemmed "S" slip	f. Angle slip
c. Bar slip	g. Inside slip joint
d. Standing "S" slip	h. Double "S" slip
- Clearance for expansion of 1/8" per foot of sleeve dimension is required. Angles should lap masonry a minimum of 1" around the entire opening.
- In multiple damper assemblies, units shall be fastened together using No.14 X 3/4" sheet Metal Screws.
- Maximum sleeve extension is 6" on both side of wall or floor opening.
- Dampers may be installed in wall or partition (masonry or gypsum wallboard ) or concrete floor.
- The connecting ducts shall not be continuous, but shall terminate at the sleeve or frame.
- Damper is rated for Static System
- Dampers are supplied with factory mounted fusible 165°F as standard
- Installed damper units require operational checks upon completion to insure proper functioning.

### INSPECTION

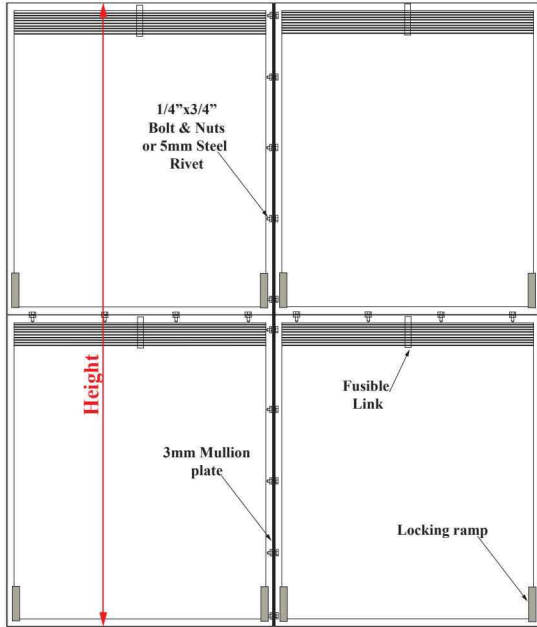
- 1-Inspect damper for shipping damage
- 2-Inspect for proper size & model
- 3-Inspect installed damper for proper orientation as stated on damper label
- 4-Inspect for obstruction which could interfere with free operation & complete closure

#### MAXIMUM DAMPER SIZES

TYPE INSTALLATION	SINGLE UNITS IN INCHES	
	Height	Width
VERTICAL	60"	60"
HORIZONTAL	60"	60"
TYPE INSTALLATION	MULTIPLE UNITS	
	Height	Width
VERTICAL	120"	120"

**FIRE DAMPER MODEL K75  
INSTALLATION INSTRUCTIONS**

**HORIZONTAL MOUNT - MULTIPLE SECTION  
1-1/2 HRS RATING STATIC  
(FOR USE IN 2 HOURS OR LESS RATED PARTITIONS)**



Damper shall be fastned to sleeve with steel Rivet 5mm on 6" center (max). No further than 2" (max) from end . Install Locking Ramp at top of the unit. Angle shall be a minimum of 50x50x1.5mm galvanized steel fasten to sleeve by No#10 x 1" sheet metal screw on 8" center (max), no further than 2" from end. Angles shall not be fastend to each other at the corners but against each other at the corner end. (see note 4 for expansion and overlap).

**NOTES:**

1. Sleeves shall be of the same gauge or heavier than the duct to which it attached. Gauge shall conform to SMACNA or ASHRAE standards.
2. When the following sleeve connections are used, the minimum gauge of the sleeve shall be 14 gauge (Max 10Ga) on dampers.
  - a. Angle reinforced standing seam.
  - b. Angle reinforced pocket lock.
  - c. Companion angles.
  - d. Metal fasteners approximately 16" on centers.

3. The following breakaway sleeve connections may be used on all systems with a minimum of 16Ga sleeve thickness :

- a. Plain "S" slip
- b. Hemmed "S" slip
- c. Bar slip
- d. Standing "S" slip
- e. Reinforced bar slip
- f. Angle slip
- g. Inside slip joint
- h. Double "S" slip

4. Clearance for expansion of 1/8" per foot of sleeve dimension is required. Angles should lap masonry a minimum of 1" around the entire opening.

5. In multiple damper assemblies, units shall be fastened together using 1/4" X 3/4" Bolts & nuts or 5mm Steel Rivet. A mullion plate of 3mm thick shall be used between mating dampers Frames (Height Dimension) when assembling 4 sections on 6"OC, 1"from end .

6. Maximum sleeve extension is 6" on both side of floor opening.

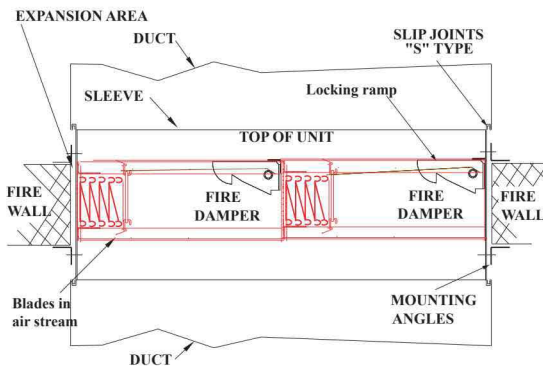
7. Dampers to be installed in concrete floor.

8. The connecting ducts shall not be continuous, but shall terminate at the sleeve or frame.

9. Damper is rated for Static System

10. Dampers are supplied with factory mounted fusible link 165°F as standard

11. Installed damper units require operational checks upon completion to insure proper functioning.



**HORIZONTAL INSTALLATION**



**MAXIMUM DAMPER SIZES**

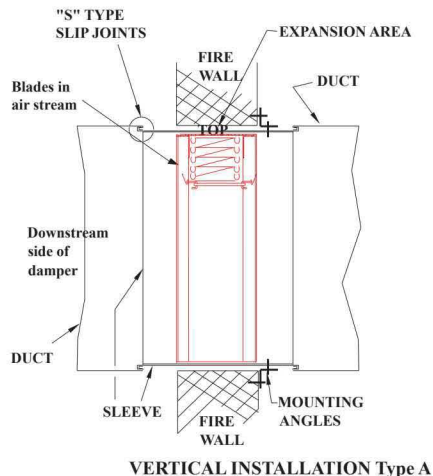
TYPE	MULTIPLE UNITS	
INSTALLATION	Width	Height
HORIZONTAL	68"	96"
Manufactured out of 4 sections with max size of 34" (W) x 48" (H)		
For larger Opening Refer to Installation with Mullion frame Installation Instruction		

**INSPECTION**

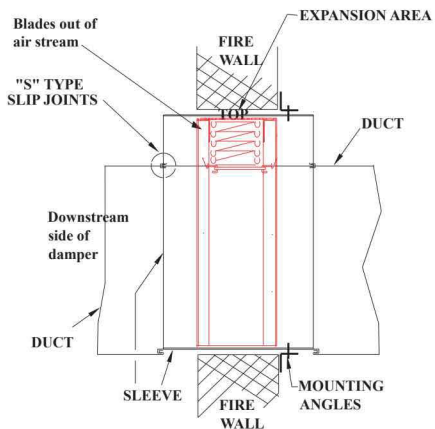
- 1-Inspect damper for shipping damage
- 2-Inspect for proper size & model
- 3-Inspect installed damper for proper orientation as stated on damper label (TOP OF UNIT)
- 4-Inspect for obstruction which could interfere with free operation & complete closure



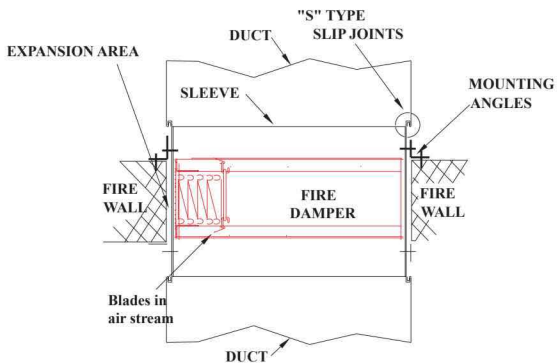
**SINGLE SIDE RETAINING ANGLES  
FIRE DAMPER MODEL K75  
INSTALLATION INSTRUCTIONS  
VERTICAL OR HORIZONTAL MOUNT 1-1/2 HR RATING  
(FOR USE IN 2 HOUR OR LESS RATED PARTITIONS)**



**VERTICAL INSTALLATION Type A**



**VERTICAL INSTALLATION Type B**



**HORIZONTAL INSTALLATION**

KBE rapid mounting angle Must Be installed on top of floor

KBE rapid mounting angles (for use on one sided angle installations). These instructions apply to 1-1/2hrs rated fire damper model: K75 mounted in masonry, block or metal stud, walls and floors.

Angles shall be minimum of 1-1/2" x 1-1/2" x 16 gauge for opening in metal stud and concrete / masonry walls and floors of 36"x36" and less.

Mounting angles are only required on one side of wall or top of the floor. They must be attached to both the sleeve and the wall.

Mounting angles may be installed directly to the metal stud under wall board on metal installations only.

Sizes larger will require the previous retaining angle design which consisted of 4 separate angle per side.

For one sided KBE rapid mounting angle installations, the sleeve fastners shall be No#10 sheet metal screws spaced 3" from each end and no greater than 12" on center. With a minimum of two (2) fastners on each side, top and bottom wall/floor fasteners shall be No#10 sheet metal screw 2" long. Two screws on each side angle spaced 3 inches from each end, Three screws on each head and sill angles with one screw in the center and one at each end spaced 3 inches from the ends. Screw fasteners used in metal stud must engage the metal stud a minimum of 1/2".

Screw fastner used in masonry walls or floors must engage the wall or floor a minimum of 2".

Angles should verlap the partition a minimum of 1" around the entire opening.

\*\*Refer to notes on page (2) for duct connection to fire damper and expansion clearance

**MAXIMUM DAMPER SIZES**

TYPE INSTALLATION	SINGLE UNITS IN INCHES	
	Height	Width
VERTICAL	36	36
HORIZONTAL	36	36

