



1855 South 54th Avenue / Cicero, Illinois 60804

GENERIC MULLION / FIRE DAMPERS

1. The mullion is formed from No. 16 gauge galvanized steel with nominal yield strength of 42,000 psi as shown on the attached drawing. The two pieces are to be attached with 3/16 in. diameter steep pop rivets or 3/4 in. long welds located 6 in. maximum from each end and 12 in. OC maximum.
2. The mullion is placed over the mullion caps (top and bottom) and allowed to "float" between the caps. DO NOT FASTEN THE MULLION TO THE CAPS IN ANY WAY. The mullion should overlap the caps a minimum of 3 in.
3. The mullion should be manufactured to permit clearance between the mullion and top cap. The required clearance is 1/8 in./ft. of height of wall opening. The maximum clearance permitted is 1 1/4 in., e.g. for an opening 8 ft. high the permitted clearance is $1/8 \times 8 = 1$ in.

INSTALLATION INSTRUCTIONS AND MANUFACTURING DETAILS FOR
GENERIC STEEL MULLION FOR VERTICAL, MULTIPLE ASSEMBLED FIRE
DAMPER INSTALLATION IN CONCRETE BLOCK OR POURED WALLS.

GENERAL

1. In cases where vertical wall openings exceed the permitted multiple damper assemble size, a generic steel mullion as detailed below may be installed as part of the wall between the sides (ie. jambs) Jambs) of adjacent damper assemblies. The mullion is not to be part of the ductwork, (ie. Exposed to air flow).
2. The steel mullion is intended for use with vertically mounted dampers made of galvanized steel only, having a maximum width and height of 120 in. and having a fire resistance of 1 1/2 hours.

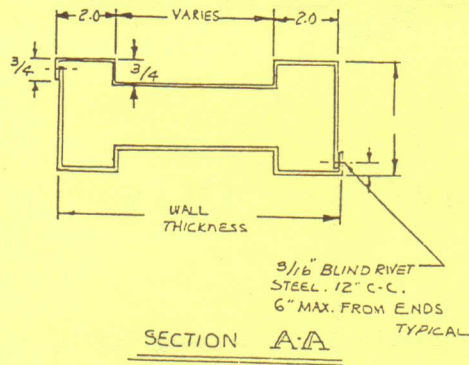
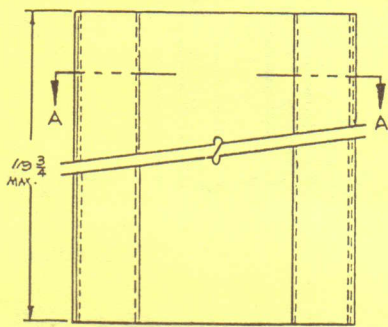
3. The steel mullion consists of a mullion and two mullion caps, one at the top of the wall opening and one at the bottom.
4. The steel mullion is intended for use in concrete block and poured walls only with a minimum thickness of 7 in. and a maximum thickness of 12 in.

MULLION CAPS 3FD-150-1

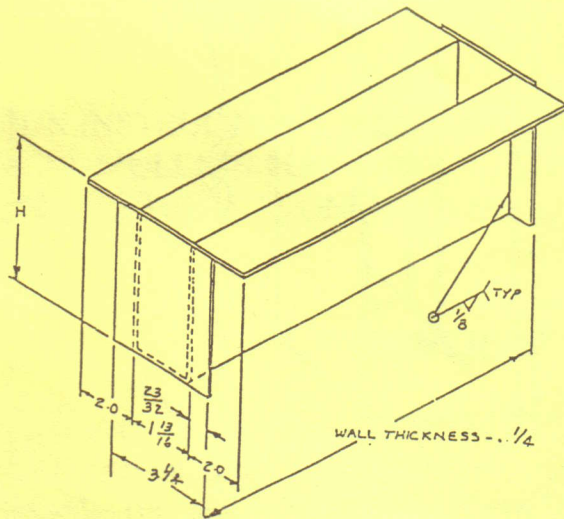
1. The top and bottom mullion caps are formed from No. 12 gauge galvanized steel as shown on the attached drawing.
2. The caps are to be anchored at the top and bottom to the concrete wall using $\frac{1}{4}$ 20 by $\frac{5}{16}$ in. long steel bolts and $\frac{3}{8}$ in. diameter by 1 in. long Hilti concrete expansion anchors. The anchors are to be securely fastened into the top and bottom of the opening.
3. In those cases where the wall surrounding the opening is made from hollow concrete block, the blocks are to be suitably filled with concrete (minimum 3500 psi) to permit proper securing of the concrete anchors.
4. The top and bottom caps are to be made to permit the mullion to overlap each cap by at least 3 in. The height of the cap is calculated by adding 3 in. to the permitted expansion clearance for the mullion. Expansion clearance for mullion is $\frac{1}{8}$ in. per foot of height of wall opening.



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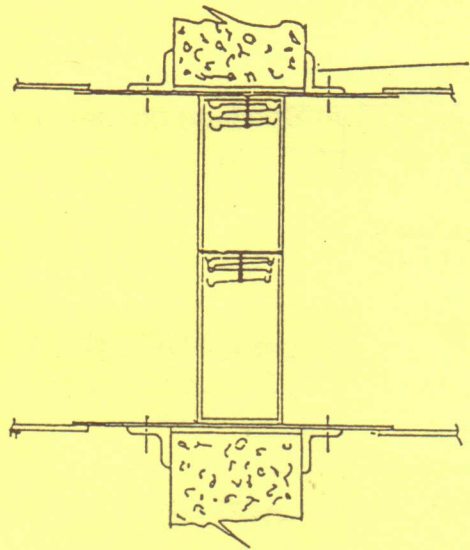


TOLERANCES (EXCEPT AS NOTED)	SAFE AIR		
DECIMAL ± .020	MATERIAL 16 GA. GALV. STEEL	SCALE -0-	DRAWN BY L.S.
FRACTIONAL ± 1/32	TITLE GENERIC FIRE DAMPER MULLION FOR VERTICAL MOUNTING		
ANGULAR ± 30'	DATE 5/1089	DRAWING NUMBER F.D. 150-2	
			APPROVED BY

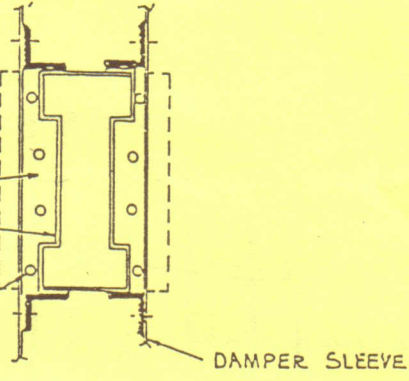


NOTE: H=1/8" FT. HEIGHT OF WALL OPENING.

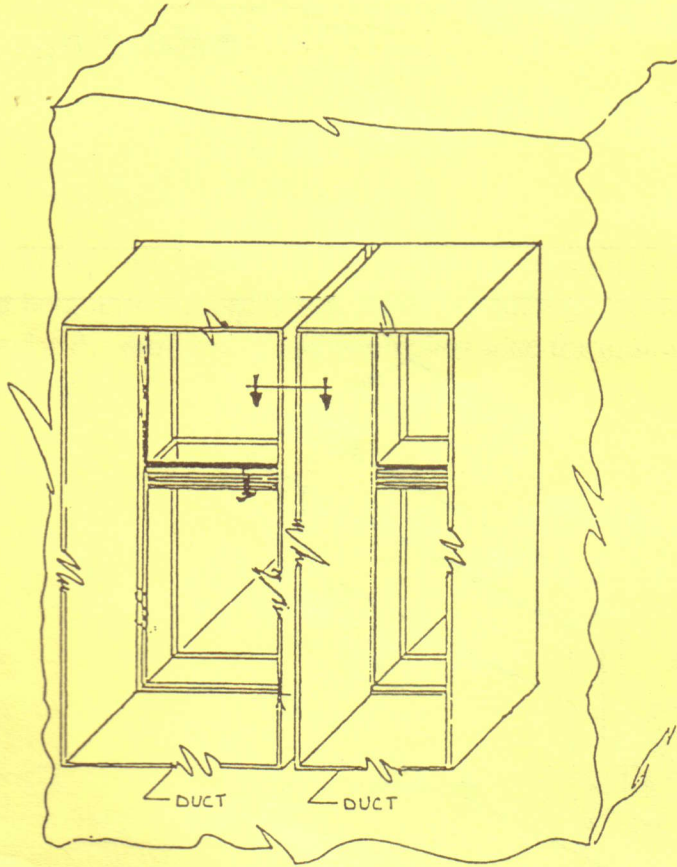
TOLERANCES (EXCEPT AS NOTED)	SAFE AIR		
DECIMAL ± .020"	MATERIAL 12 GA. GALV. STEEL	SCALE -0-	DRAWN BY L.S.
FRACTIONAL ± 1/32	TITLE MULLION CAP FOR FIRE DAMPER		
ANGULAR ± 30'	DATE 5/10/89	DRAWING NUMBER F.D. 150-1	
			APPROVED BY



FD-150-1
 FD-150-2
 1/4"-20 BOLT
 w/ EXPANSION
 ANCHOR



SECTION A-A
 DAMPER NOT SHOWN



TOLERANCES (EXCEPT AS NOTED)	SAFE AIR		
DECIMAL	MATERIAL	SCALE	DRAWN BY L.S.
±			APPROVED BY
FRACTIONAL	TITLE		
±	INSTALLATION INSTRUCTIONS FOR GENERIC MULLION WITH FIRE DAMPER		
ANGULAR	DATE	DRAWING NUMBER	
	5/1089	F.D. 150/770	