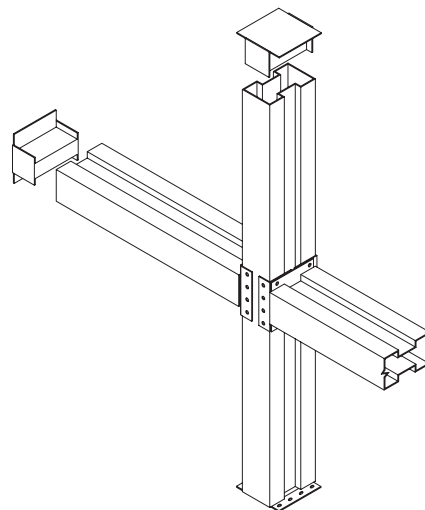


See Isometric Detail B



Detail B

### General Installation

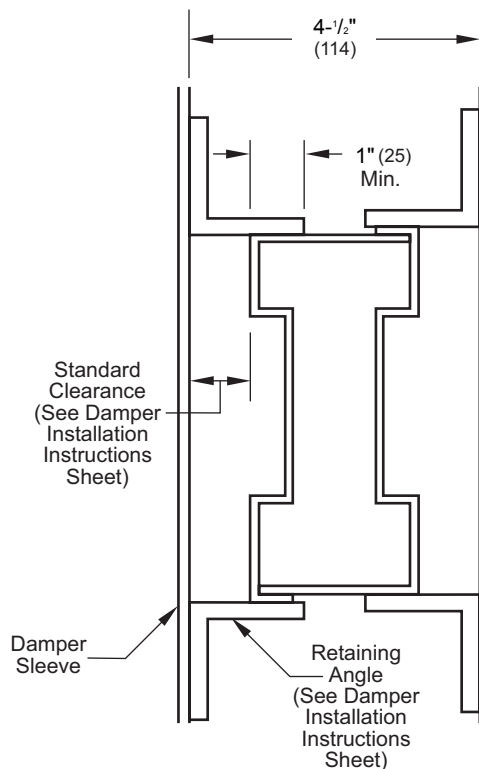
Fabricate mullions of 16 gauge (1.6) galvanized steel (Construction Details fig. 1). Two mullion pieces are joined with  $\frac{3}{16}$ " (5) diameter steel pop rivets or  $\frac{3}{4}$ " (19) long welds located 6" (152) maximum from each end and 12" (305) o.c. maximum. The mullions should permit clearance between the mullion and top cap. Required clearance is  $\frac{1}{8}$ " (3) per foot (305) of wall opening height. Maximum permitted clearance is 1- $\frac{1}{4}$ " (32). (eg., for 8' (2440) high opening, the permitted clearance is—  $\frac{1}{8}$ " per foot x 8' = 1" to 1- $\frac{1}{4}$ " (3.2 per 305 x 8 = 25 to 32).

Fabricate two caps per each mullion of 12 gauge (3) galvanized steel (Construction Details fig. 2). Top and bottom caps must permit mullion to overlap each cap by minimum 3" (76). Cap height is calculated by adding 3" (76) to permitted mullion expansion clearance which is  $\frac{1}{8}$ " (3) per foot (305) of wall opening height.

Insert mullion caps into mullion end allowing mullion to float between the caps. DO NOT fasten mullion to caps in any way. Locate within opening to provide correct expansion clearance for dampers.

Drill holes in caps for anchoring. Set mullion caps with  $\frac{1}{4}$ " (6) - 20 x  $\frac{5}{16}$ " (8) steel screws (Construction Details fig. 3).

If steel inlets are present, four 1" (25) welds (two per mullion cap leg) may be used to anchor each mullion cap.

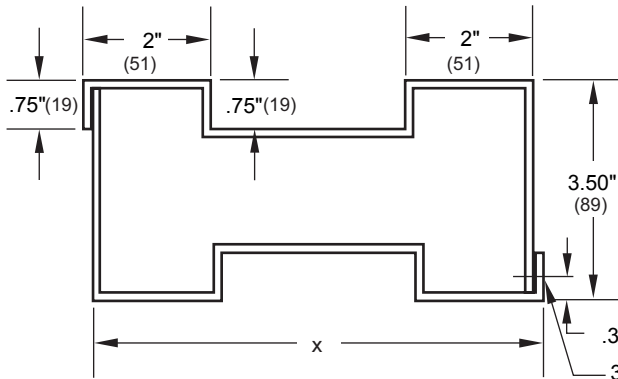


Section A-A

Fire and Fire Smoke Dampers ISM (1/2) May 2007

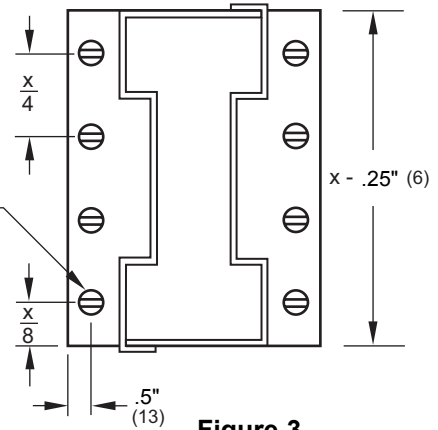


CLASSIFIED SEE DETAILS ON UL CLASSIFIED  
 CLASSIFICATION MARKING ON ENCLOSED PRODUCT



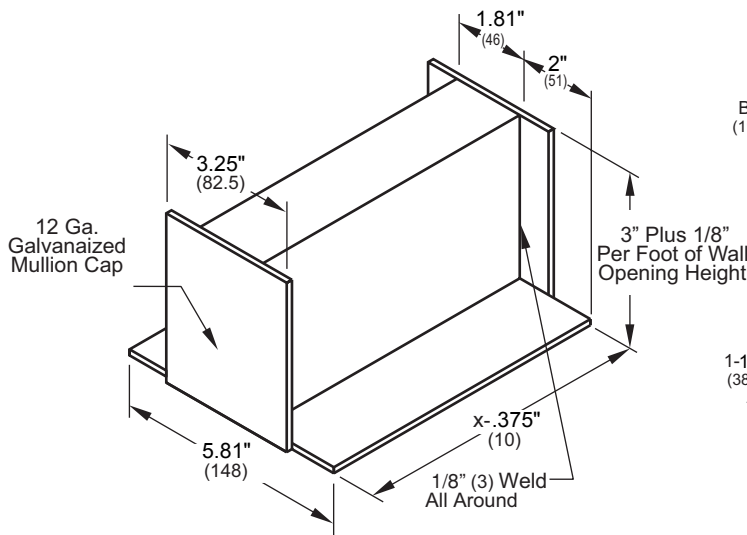
**Figure 1**

1/4"-20 Steel Anchor Counter Sunk Flat Head Steel Screw

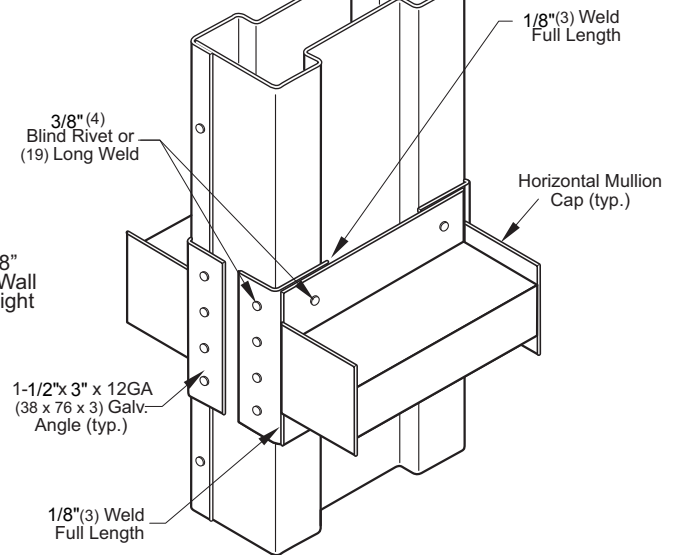


**Figure 3**

3/16" (5) Blind Rivet Or 3/4" (19) Long Welds 12" (305) c-c, 6" (152) Max From Ends.



**Figure 2**



**Detail C**

### Application

Fire rated dampers are U.L. classified for their maximum size or maximum assembly size. Generic steel mullion can be used to separate vertically mounted, galvanized steel fire dampers, in vertical wall openings larger than maximum U.L. permitted multiple damper assembly size. Fire dampers must not exceed a maximum of 120" (3048) height and must have 1-½ hour fire resistance. Mullions are not intended to be part of the duct work (i.e., exposed to air flow).

Whenever the duct size exceeds the maximum damper width, the opening must be divided into two or more separate openings with a mullion installed between damper sections. The mullion consists of a vertical mullion and two mullion caps - one cap for top of wall opening and one for the bottom.

The steel mullion is intended for use only in concrete block, masonry, brick or poured walls with 7" (178) minimum and 12" (305) maximum thickness. Hollow concrete block walls are to be suitably filled with minimum 3500 psi concrete for proper securing of mullion.