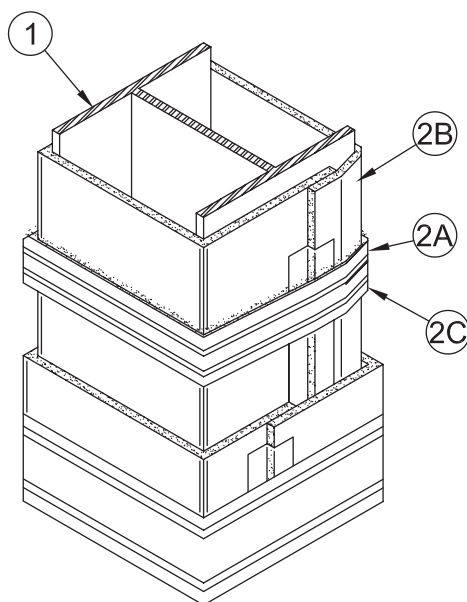


Design No. X206

July 13, 2012

Ratings – 1/2, 3/4, 1, 1-1/2, 2, 3 and 4 Hr.



1. **Steel Column** – Min size of column W10x49.
2. **Mat Materials*** – The column protection assembly consists of endothermic mat, aluminum foil tape, and aluminum cladding. The details of the column assembly are summarized below:
 - A. **Mat Materials* – Endothermic Mat** – Flexible mat supplied in rolls. Each layer of foil-faced mat installed by cutting to size and tightly wrapping around the column and itself such that a min 2 in. overlap is present along the vertical seam. Seam are located on the column flange. Sections are temporarily held in place with several strips of 3M Type 898 filament tape (approx. 24 in. long). Adjacent sections of material on the same layer abut one another forming the circumferential edge seam. Successive layers of mat installed in same manner with butted end seams offset a min 2 in. from butted end seams of preceding layer. For single layer construction only, a 4 in. wide endothermic mat collar is wrapped around each taped circumferential butt joint with a 2 in. overlap on itself. Circumferential edges of collar are sealed with foil tape. Stainless steel bands are applied as described under Item 2C. All seams in each layer of mat to be sealed with foil tape (Item 2B) prior to installation of subsequent layer of mat or collars. The hourly rating of the column assembly is dependent upon the number of endothermic mat layers as shown in the following table:

Minimum Layers of Endothermic Mat Material	Hr Fire Rating
1	1/2
1	3/4
1	1
2	1-1/2
2	2
3	3
4	4

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3M FIRE PROTECTION PRODUCTS – Interam™ Types E-54A, E-5A-4 or E-54C.

- B. **Aluminum Foil Tape*** – (Shown at vertical seam but not shown at butt joints, collars or cladding for clarity) Nom 4 in. wide pressure-sensitive aluminum foil tape supplied in rolls. Used to secure the vertical overlap and circumferential butt joint seams of the endothermic mat (Item 2A).
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3M FIRE PROTECTION PRODUCTS – Type 425
- C. **Steel Banding Straps** – Min 1/2 in. wide by 0.020 in. thick stainless steel banding straps used in conjunction with No. 26 gauge galv steel wing-type crimp clips. Steel banding straps installed at the center and 2 in. from end of mat sections. Steel banding straps applied approx. 1 in. from edges of collars. Steel banding straps installed at the center and 1 in. from top and 1-1/2 in. from bottom of each section.
 - D. **Fill, Void or Cavity Material – Caulk*** – (Not Shown) Thick bead of caulk to be applied as a gasket between the endothermic mat (Item 2A) and the floor or ceiling surface. The bead of caulk applied around entire perimeter of endothermic mat at interface of floor or ceiling surface prior to and after each layer of mat material and after installation of the cladding.

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3M FIRE PROTECTION PRODUCTS – Type CP 25WB+ or FB 3000 WT.

*Bearing the UL Classification Mark

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