

## Design Number 3MU/AF 240-02

August 30, 2012

### APPLIED FIREPROOFING

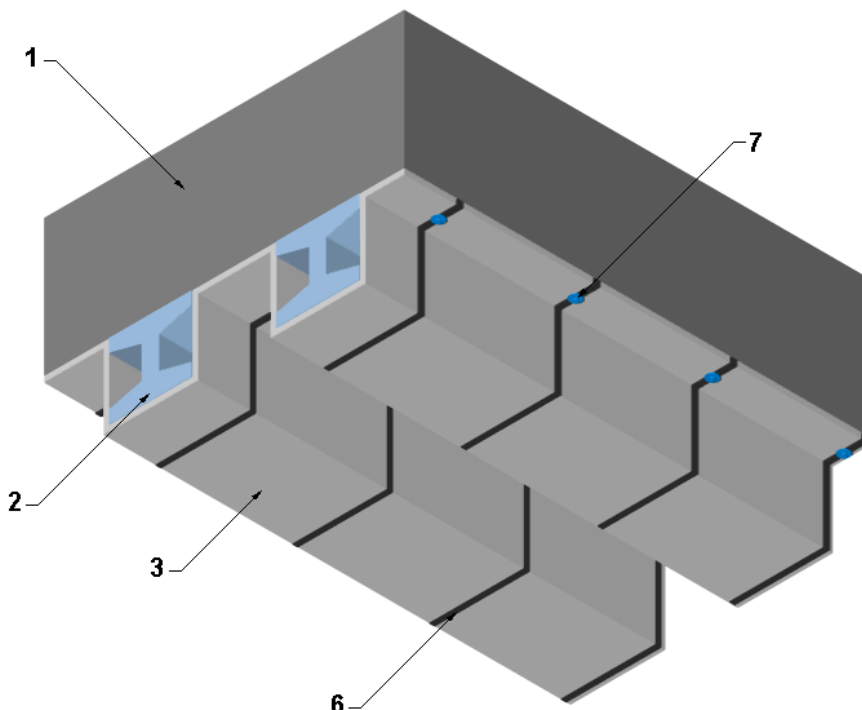
3M Company

3M™ Interam™ E-5, E-54-A and E-5A-4 Series Endothermic Mat

3M Fire Barrier CP 25WB+ Caulk

ASTM E 119

Restrained or Unrestrained Beam Rating: 4 Hours



1. CONCRETE FLOOR: Use normal or lightweight concrete floor with minimum compressive strength of 109 pcf having a minimum depth of 12 in.
2. STEEL BEAM: Use minimum W8x48 W-Shaped steel beam.
3. CERTIFIED MANUFACTURER: 3M Company  
CERTIFIED PRODUCT: Applied Fireproofing  
MODEL: 3M™ Interam™ E-5, E-54-A and E-5A-4 Series Endothermic Mat  
ENDOTHERMIC MAT: Install 1 layer of foil faced flexible mat around steel beam (Item 2). Cut length of endothermic mat to ensure minimum 4 in. overlap onto concrete floor (Item 1) adjacent to steel beam (Item 2). Tightly butt joints of endothermic mat and seal joints with foil tape (Item 5).
4. CERTIFIED MANUFACTURER: 3M Company  
CERTIFIED PRODUCT: Caulk or Sealant  
MODEL: 3M Fire Barrier CP 25WB+ Caulk  
CAULK (Not shown): Fill any gaps between concrete floor and endothermic mat (Item 3) with caulk.
5. TAPE: (Not Shown) Apply 4 in. wide pressure sensitive tape with aluminum foil facing to all butt joints of the endothermic mat (Item 3).
6. STEEL BANDING: Install 1/2 in. wide x 0.020 in. thick stainless steel banding around endothermic mat (Item 3) and secure into concrete using fasteners (Item 7). Space banding max. 12 in. oc.
7. FASTENER: Secure endothermic mat (Item 3) and steel banding (Item 6) to concrete floor (Item 1) using min. 1/4 in. concrete anchors inserted through 1 in. diameter fender washer.

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