

## Design Number 3MU/AF 50-01

September 07, 2012

APPLIED FIREPROOFING

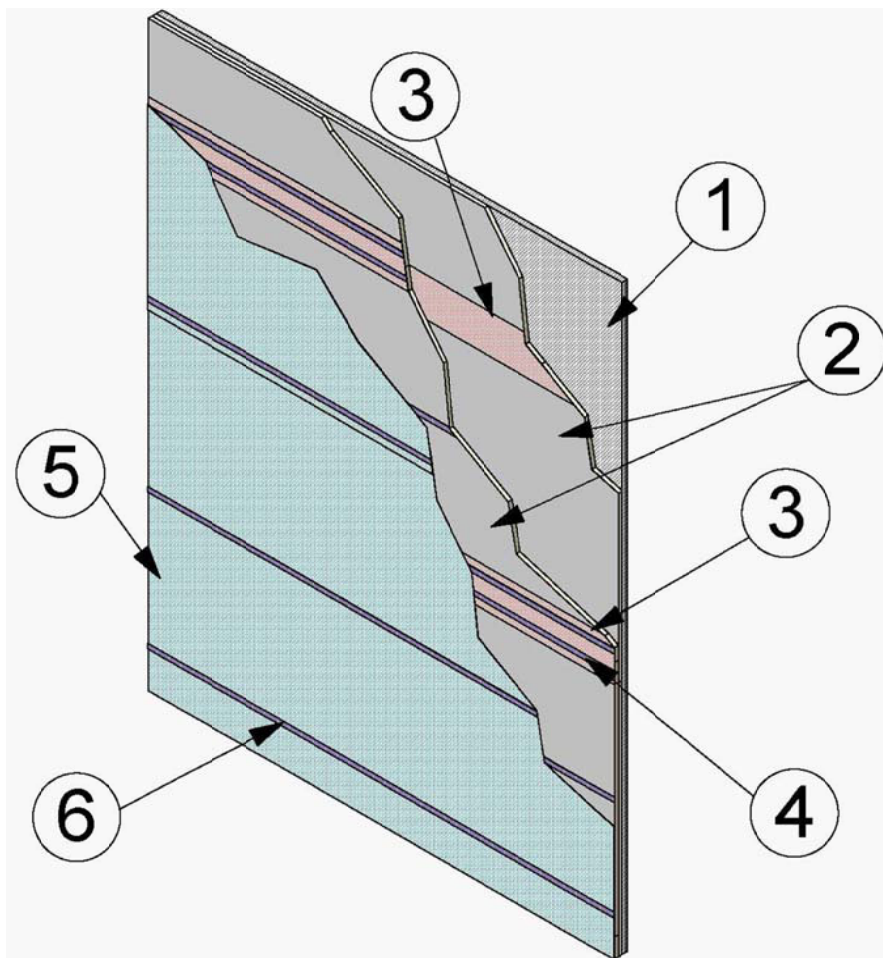
3M Company

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

NFPA 58 Appendix H

NFPA 290

Rating: Pass



1. VESSEL: Use a code approved container for storage of liquid propane gas (LPG).
2. 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 2 layers of foil faced flexible mat tightly around the vessel (Item 1). Install first layer with circumferential and longitudinal butt joint fit tightly together. Tape all joints of first layer with Aluminum Tape (Item 3). Install second layer with circumferential and longitudinal butt joint fit tightly together. Install second layer with joints offset minimum 2 in. from joints of first layer. Tape all joints of second layer with Aluminum Tape (Item 3).  
Note: If required filament tape may be used to hold the endothermic mat in place. Filament tape should be spaced minimum 6 in. on center (oc)
3. ALUMINUM TAPE: (Not Shown) Apply 4 in. wide pressure sensitive tape with aluminum foil facing to all joints of the inner and outer layer of the Endothermic Mat (Item 2).
4. STEEL BANDING: Install 1/2 in. wide x 0.020 in. thick stainless steel banding around the outer layer of the endothermic mat (Item 2). Install banding within 1 in. of the edges of each piece of endothermic mat (Item 2) circumferential butt joints and maximum 12 in. oc along the width of the endothermic mat (Item 2) with a minimum of three bands (total) per mat installed.
5. STEEL SHEATHING: Install 1 layer of 0.016 in. thick T-304 stainless steel sheathing over the endothermic mat (Item 2). Install steel sheathing with minimum 2 in. overlap at circumferential joints to create a stepped surface installation. One continuous piece of steel sheathing shall wrap around the container (item 1) and the endothermic mat (Item 2) with a minimum 2 in. overlap at the longitudinal joint.
6. STEEL BANDING: Install 1/2 in. wide x 0.020 in. thick stainless steel banding around the steel sheathing (Item 5). Install banding within centered over the overlap of each joint in the steel sheathing (Item 5) and maximum 12 in. oc along the width of the steel sheathing (Item 2) with a minimum of three bands per sheet installed.

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