

---

Design Number 3MU/AF 180-01

APPLIED FIREPROOFING

3M Company

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

3M™ Fire Barrier CP 25WB+ Caulk

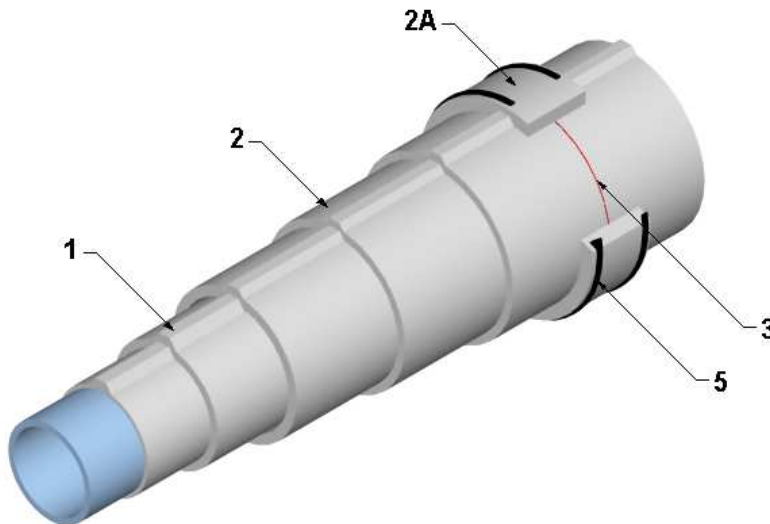
ASTM E 1725 (2008)

ASTM E 119 (2012)

Rating: 3 Hours

Approved for any cable fill

---



1. CONDUIT: Use 1 in. diameter (or larger) rigid steel conduit.

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 5 layers of foil faced flexible mat tightly around the conduit (Item 1). Prior to installing innermost layer, cut 1-1/2 in. wide strips of endothermic mat and wrap around conduit (Item 1) spaced 15 in. on center (oc) and hold in place with filament tape. This is done in order to create an air gap between the conduit (Item 1) and the first (innermost) layer of the endothermic mat. After this is done, install the first two innermost layers creating a min. 4 in. overlap onto itself. Temporarily hold

in place using filament tape if needed. After this is done, install a second set of 1-1/2 in. wide strips of endothermic mat in the same manner as previously done. Then, install the remaining three layers of endothermic mat in the same manner as the first two.

A. COLLAR: Install nominal 4 in. wide strip of endothermic mat (Item 2) around outermost layer of the wrapped conduit (Item 1). Center collar over butt joints over outer layer and secure using steel banding (Item 5).

3. CERTIFIED MANUFACTURER: 3M Company

CERTIFIED PRODUCT: Caulk or Sealant

MODEL: 3M™ Fire Barrier CP 25WB+ Caulk

CAULK (Not Shown): Install caulk between butt joints of endothermic mat (Item 2) on all layers. Alternative use is to fill gaps and voids along seams greater than 1/8 in. wide.

4. TAPE: (Not Shown) Apply 4 in. wide pressure sensitive tape with aluminum foil facing to all exposed edges of the collar (Item 2A) as well as the longitudinal (overlap) joints of the endothermic mat (Item 2) on the outer layer.
5. STEEL BANDING: Install 1/2 in. wide x 0.020 in. thick stainless steel banding on the outermost layer of the endothermic mat (Item 2). Install banding within 1 in. of the edge of collars (Item 2A) and butt joints and maximum 12 in. oc at all other locations.