

## Design Number 3MU/AF 120-01

May 18, 2015

### APPLIED FIREPROOFING

3M Company

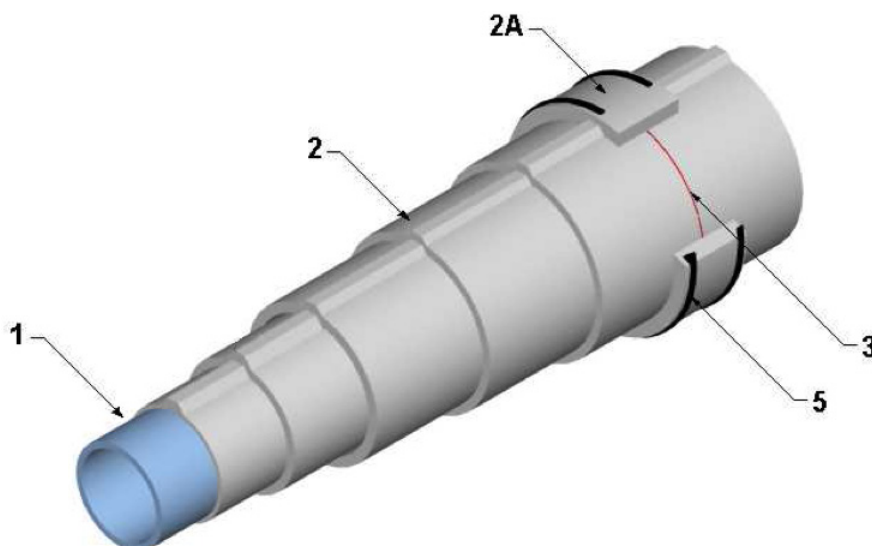
3M™ Interam™ E-5, E-54-A and E-5A-4 Series Endothermic Mat

3M™ Fire Barrier CP 25WB+ Sealant

ASTM E1725 (2014)

ASTM E119 (2014)

Rating: 2 Hours



1. **EMT CONDUIT:** Use 1 in. diameter (or larger) electrical metal tubing conduit (EMT).
2. **CERTIFIED MANUFACTURER:** 3M Company  
**CERTIFIED PRODUCT:** Applied Fireproofing  
**CERTIFIED 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 EMT conduit (Item 1). Install each piece of mat with a min 2 in. overlap onto itself and temporarily hold in place using filament tape if needed. The seaming arrangement of adjacent pieces on the same layer is butted joints with a max 3/8 in. gap. From one layer to the next, the butted seams are staggered a min of 2 in. away from the seam in the previous layer.
  - A. **COLLAR (Optional):** As an alternate to staggering the butted seams, and if there is a through-seam through all the layers, install nominal 4 in. wide strip of endothermic mat (Item 2) around outer layer of the wrapped EMT conduit (Item 1). Center collar over butt joints over the outer layer and secure using steel banding (Item 5).
3. **CERTIFIED MANUFACTURER:** 3M Company  
**CERTIFIED PRODUCT:** Caulk or Sealant  
**CERTIFIED MODEL:** 3M™ Fire Barrier CP 25WB+  
**CAULK:** When the butt joint between adjacent pieces on the same layer exceeds 1/8 in., install caulk between butt joints of endothermic mat (Item 2) to the same depth of the mat itself.
4. **TAPE (Not Shown):** Apply 4 in. wide pressure sensitive tape with aluminum foil facing to longitudinal (overlap) joints and lateral (butted) joints of the endothermic mat (Item 2) on all layers. If applicable, also apply tape to exposed edges of the collar (Item 2A).
5. **STEEL BANDING:** Install 1/2 in. wide by 0.020 in. thick stainless steel banding on the outer layer of the endothermic mat (Item 2). Install banding within 1 in. of the edge of collars (Item 2A) and butt joints and max 12 in. oc at all other locations.

This material was extracted and drawn by 3M Fire Protection Products from the 2015 Product Directory, © Intertek

Flexible Wraps

Endothermic Mat

Applied Fireproofing

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