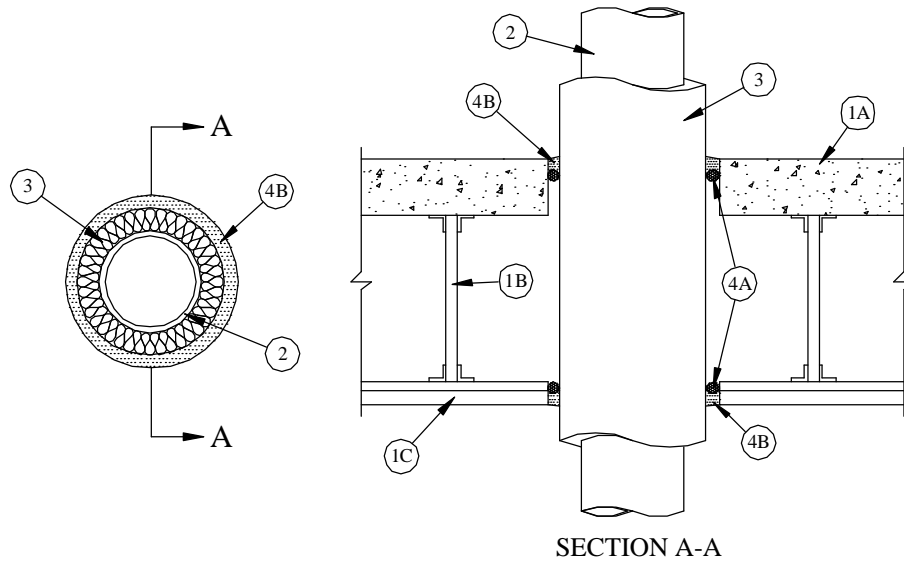


System No. F-E-5006

August 2008

F Rating — 1 Hr

T Ratings — 3/4 and 1 Hr (See Item 3)
(UL/cUL)



1. **Floor-Ceiling Assembly** — The 1 hr fire-rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
 - A. **Concrete Floor** — Normal weight or lightweight (100-150 pcf (1601-2402 kg/m³) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Max diam of floor opening is 7-5/8 in (194 mm).
 - B. **Joists** — Steel joists or Structural Steel Members* as specified in the individual G500 Series Design.
 - C. **Gypsum Board*** — Min 5/8 in (16 mm). thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max diam of ceiling opening is 7-5/8 in (194 mm).
2. **Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipes or tubing and periphery of opening shall be min 0 in. (point contact) to max 7/8 in (22 mm). Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes or tubing may be used:
 - A. **Steel Pipe** — Nom 4 in (102 mm). diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - B. **Iron Pipe** — Nom 4 in (102 mm). diam (or smaller) cast or ductile iron pipe.
 - C. **Copper Tubing** — Nom 2 in (51 mm). diam (or smaller) Type L (or heavier) copper tubing.
 - D. **Copper Pipe** — Nom 2 in (51 mm). diam (or smaller) Regular (or heavier) copper pipe.
3. **Pipe Coverings*** — One of the following pipe coverings should be used:
 - A. **Pipe Covering*** — Nom 1 in (25 mm). thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. An annular space of min 1/2 in. (12 mm) to a max 5/8 in. (16 mm) is required within the firestop system.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - B. **Tube Insulation-Plastics+** — Nom 1/2 in. (12 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space shall be 5/16 in (8 mm).

See **Plastics+** (OMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

The T Ratings are 3/4 and 1 hr when installed with Items A and B, respectively.

4. **Firestop System** – The firestop system shall consist of the following:
 - A. **Packing Material** – (Optional) - Foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor and bottom surface of the ceiling as required to accommodate the required thickness of fill material.
 - B. **Fill, Void or Cavity Material* - (Caulk)** – Min 1/2 in. (12 mm) thickness of fill material applied within the annulus, flush with top surface of the floor and bottom surface of the ceiling. Additional fill material to be installed such that a min 1/16 in. (2 mm) crown is formed around the penetrating item and lapping 1/2 in. (12 mm) beyond the periphery of the opening.

TREMCO INC – TREMstop Intumescent Acrylic, FyreCaulk, or TREMstop IA+

*Bearing the UL Classification Mark



Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc.
Copyright © 2008 Underwriters Laboratories Inc. ®

Tremco Commercial Sealants & Waterproofing

3735 Green Road, Beachwood, OH 44122 // Phone: 216.292.5000 // 800.321.7906
220 Wicksteed Avenue, Toronto, ON M4H 1G7 // Phone: 416.421.3300 // 800.363.3213
1451 Jacobson Avenue, Ashland OH 44805 // Phone: 419.289.2050 // 800.321.6357