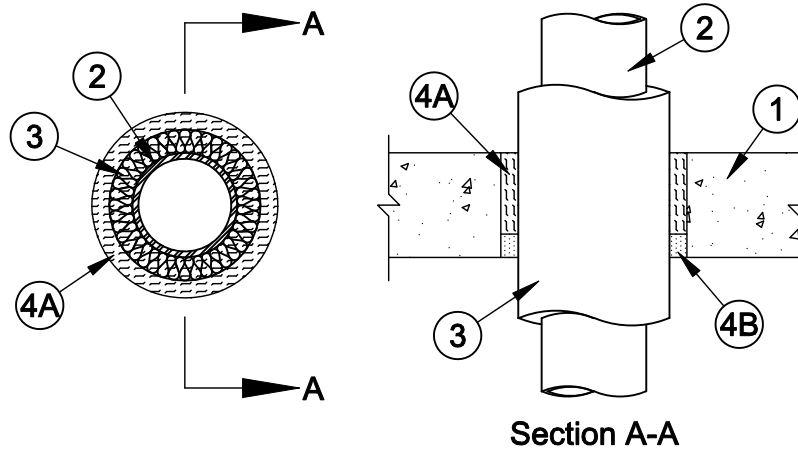


System No. F-A-5012

F Rating - 2 Hr.
T Rating - 1/2 Hr.



- Floor Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any UL Classified hollow-core **Precast Concrete Units***. Max diam of opening is 7 in.
See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes and tubing may be used:
 - Steel Pipe** - Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 4 in. diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** - Nom 4 in. diam (or smaller) Type M (or heavier) copper tubing.
 - Copper Pipe** - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Pipe Covering*** - One of the following types of pipe coverings shall be used:
 - Pipe and Equipment Covering Materials*** - Nom 1 in. 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. A nom annular space of 15/16 in. 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.
 - Pipe and Equipment Covering Materials*** - Nom 1 in. thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. OC. A nom annular space of 15/16 in. is required within the firestop system.
IG MINWOOL L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc.



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F-A-5012
PAGE 1 OF 2

C. **Sheathing Material*** - Used in conjunction with Item 3B, foil-scrim-kraft or all-service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape.

See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.

4. **Firestop System** - The firestop system shall consist of the following:

A. **Packing Material** - Min 3 in. thickness of min 4 pcf density mineral wool batt insulation firmly packed into opening as a permanent form. When floor is constructed of hollow-core precast concrete units, packing material depth to be increased to extend above top of hollow-core penetrated by insulated through-penetrant. Packaging material to be recessed from bottom surface of floor as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*- Sealant** - Min 1 in. thickness of fill material applied within annulus, flush with bottom surface of floor assembly.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*Bearing the UL Classification Mark



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F-A-5012
PAGE 2 OF 2