

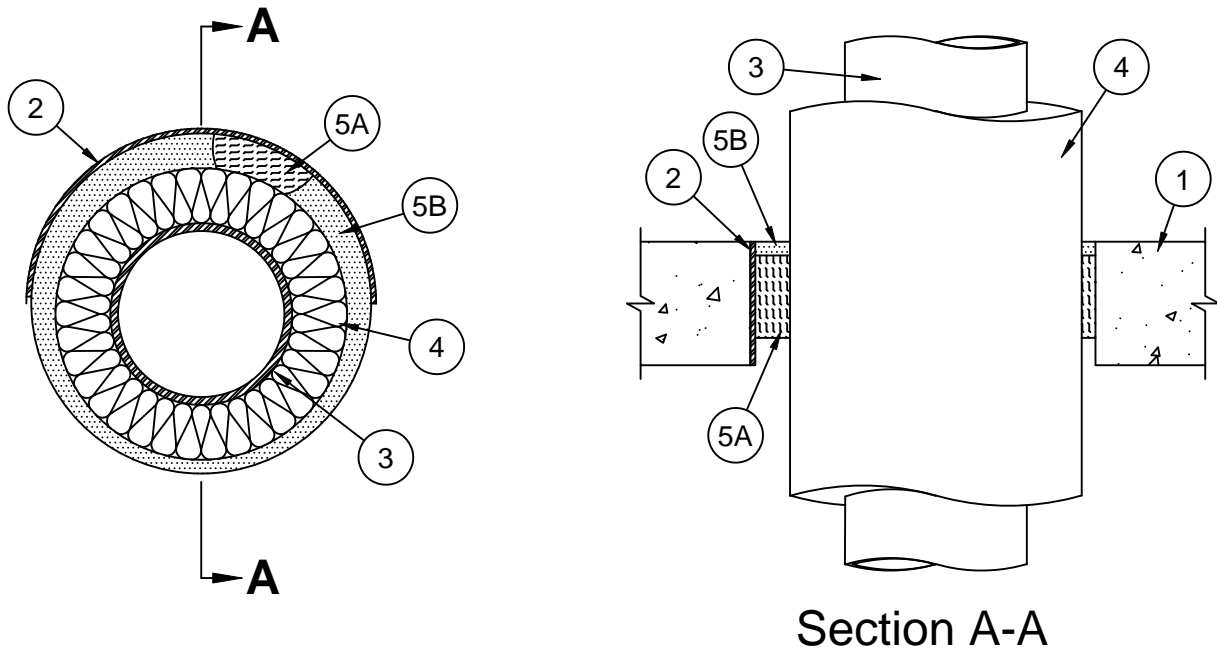
## **System No. C-AJ-5008**

F Rating - 2 Hr

FT Ratings - 3/4 and 1 Hr (See Item 2)

FH Rating - 2 Hr

FTH Ratings - 3/4 and 1 Hr (See Item 2)



1. **Floor or Wall Assembly** - Min 64 mm (2-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m<sup>3</sup> or 100-150 pcf) concrete floor. Floor may also be constructed of any min 152 mm (6 in.) thick hollow-core **Precast Concrete Units\***. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 305 mm (12 in.) Max diam of opening in floors constructed of hollow-core precast concrete units is 178 mm (7 in.).

See **Concrete Blocks (CAZT)** or **Precast Concrete Units (CFTV)** categories in the Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve** - (Optional) - Nom 305 mm (12 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project a max 51 mm (2 in.) beyond the floor or wall surfaces. **When steel sleeve is used, the T Rating is 3/4 hr. When steel sleeve is omitted in min 114 mm (4-1/2 in.) thick concrete, the T Rating is 1 hr.**
3. **Through Penetrant** - One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes and tubes may be used:
  - A. **Steel Pipe** - Nom 152 mm (6 in.) diam (or smaller) Schedule 5 (or heavier) steel pipe.
  - B. **Iron Pipe** - Nom 152 mm (6 in.) diam (or smaller) cast or ductile iron pipe.
  - C. **Copper Pipe** - Nom 102 mm (4 in.) diam (or smaller) Regular (or heavier) copper pipe.
  - D. **Copper Tube** - Nom 102 mm (4 in.) diam (or smaller) Regular L (or heavier) copper tube.



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4. **Pipe Coverings** - One of the following types of pipe coverings shall be used:

- A. **Pipe and Equipment Covering Materials\*** - Nom 51 mm (2 in.) thick hollow cylindrical heavy density min 56 kg/m<sup>3</sup> (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 butt tape supplied with the product.

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. **Pipe Covering Materials\*** - Nom 51 mm (2 in.) thick unfaced mineral fiber pipe insulation having a nom density of 56 kg/m<sup>3</sup> (3.5 pcf, or heavier) and sized to the outside diam of pipe or tube. Pipe insulation secured with min No. 8 AWG steel wire spaced max 305 mm (12 in.) OC.

**IIG MINWOOL L L C** - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

- C. **Sheathing Material\*** - Used in conjunction with Item 4B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 4B) with the kraft side exposed. Longitudinal joints 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 Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

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

- A. **Packing Material** - Min 64 kg/m<sup>3</sup> (4 pcf) mineral wool batt insulation compressed and tightly packed into opening as a permanent form . Packing material recessed from top surface of floor or both surfaces of wall as required to accommodate fill material (Item 5B). In floors constructed of hollow-core precast concrete units, packing material to be recessed from both top and bottom surfaces of floor, as required to accommodate fill material (Item 5B). When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface. Packing material depth is dependent upon several variables, as shown in the table under Item 5B.

- B. **Fill, Void or Cavity Material\* - Sealant** - Fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls, fill material applied within annulus flush with both surfaces of wall assembly or both ends of steel sleeve. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both surfaces of floor. Fill material depth is dependent upon several variables, as shown in the following table:

Min Floor or Wall Thickness, mm (in.)	Annular Space, mm (in.)	Min Packing Mat'l Depth, mm (in.)	Min Fill Mat'l Depth, mm (in.)
64 (2-1/2)	6 to 16 (1/4 to 5/8)	38 (1-1/2)	25 (1)
114 (4-1/2)	6 to 41 (1/4 to 1-5/8)	76 (3)	13 (1/2)

**SPECIFIED TECHNOLOGIES INC** - SpecSeal LCI Sealant

\*Bearing the UL Classification Mark



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