

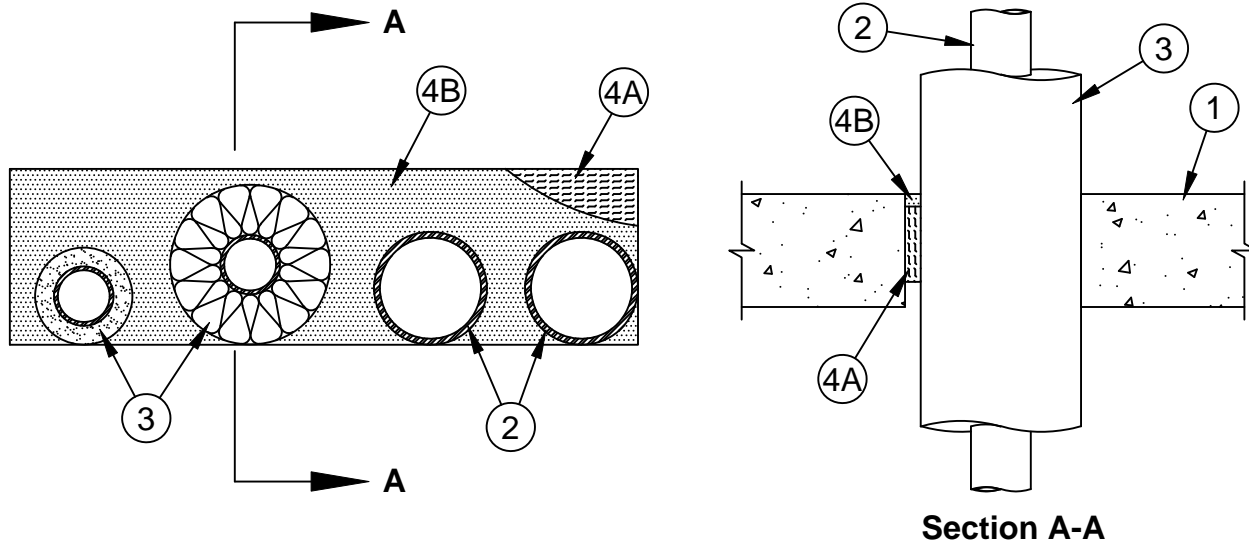
System No. C-AJ-8007

F Rating - 2 Hr

FT Rating - 0, 1/4, 3/4 & 1-1/2 Hr (See Item 2 & 3)

FH Rating - 2 Hr

FTH Rating - 0, 1/4, 3/4 & 1-1/2 Hr (See Item 2 & 3)



1. **Floor or Wall Assembly** - Min 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m³ 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 area of opening is 0.12 m² (192 sq in.) with a max dim of 610 mm (24 in.). Max area of opening in floors constructed of hollow-core concrete is 316 cm² (49 sq in.) with a max dim of 178 mm (7 in.).

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

2. **Through Penetrants** - One or more pipes, conduits or tubing to be installed within the opening. The space between the pipes, conduits or tubes shall be min 6 mm (1/4 in.) to max 51 mm (2 in.). The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 mm (0 in., point contact) to max 51 mm (2 in.). Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. **Steel Pipe** - Nom 102 mm (4 in.) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 102 mm (4 in.) diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 102 mm (4 in.) diam (or smaller) rigid steel conduit, steel electrical metallic tubing (EMT) or flexible aluminum or steel conduit.
 - D. **Copper Pipe** - Nom 102 mm (4 in.) diam (or smaller) regular (or heavier) copper pipe.
 - E. **Copper Tube** - Nom 102 mm (4 in.) diam (or smaller) Type L (or heavier) copper tube.

When through penetrant A, B or C is used without insulation, the T Rating is 1/4 hr. When through penetrant D or E is used without insulation, the T Rating is 0 Hr.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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3. **Pipe Coverings** - One of the following types of pipe coverings may be used:

- A. **Pipe and Equipment Covering Materials*** - Nom 51 mm (2 in.) thick hollow cylindrical heavy density (56 kg/m³ or 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 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 min density of 56 kg/m³ (3.5 pcf) and sized to the outside diam of pipe or tube. Pipe insulation secured with min No. 18 AWG steel wire spaced max 305 mm (12 in.) OC.

- 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 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.

- D. **Tube Insulation** - Plastics# Nom 13 mm (1/2 in.) or 19 mm (3/4 in.) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See **Plastics**(QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

The pipe coverings may be installed on one or more of the through penetrants having a nom diam of 51 mm (2 in.) or less. The space between the insulated pipes or tubes shall be min 6 mm (1/4 in.) to max 51 mm (2 in.). The annular space between the insulated pipes or tubing and the periphery of the opening shall be min 0 mm (0 in., point contact) to max 51 mm (2 in.).

When pipe covering A or B is used, the T Rating is 1-1/2 hr. When pipe covering D is used, the T Rating is 3/4 hr.

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

- A. **Packing Material** - Min 64 kg/m³ (4 pcf) mineral wool batt insulation compressed and tightly packed to min 76 mm (3 in.) thickness. Packing material recessed from top surface of floor or both surfaces of wall or precast concrete unit as required to accommodate fill material (Item 4B).

- B. **Fill, Void or Cavity Material* - Sealant** - Min 13 mm (1/2 in.) thickness of fill material applied within annulus, flush with top surface of floor assembly or both surfaces of wall assembly. In floors constructed of hollow-core precast concrete, fill material installed symmetrically on both sides of floor assembly. At point contact locations, min 6 mm (1/4 in.) diam bead of fill material applied at insulated or bare metallic pipe/concrete interface on top surface of floor or both surfaces of wall or precast concrete units.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant

*Bearing the UL Classification Mark

#Bearing the UL Recognized Component Mark



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