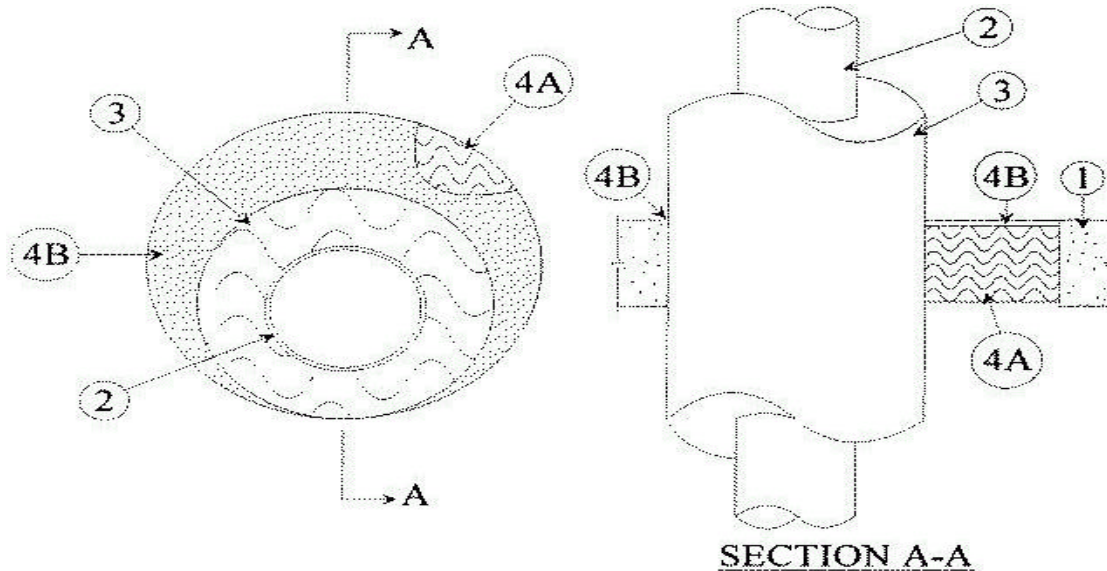


UL System No. C-AJ-5064

F Rating — 1-1/2 Hr

T Ratings — 1/2 and 1 Hr (See Item 3)



1. **Floor or Wall Assembly** Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max dia. of opening is 16 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

- A. **Steel Pipe** Nom 6 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Copper Tubing** Nom 6 in. dia. (or smaller) Type L (or heavier) copper tubing.
- C. **Copper Pipe** Nom 6 in. dia. (or smaller) Regular (or heavier) copper pipe.

3. **Pipe Covering*** One of the following types of pipe coverings shall be used:

- A. **Pipe and Equipment Covering — Materials*** Min 1/2 in. to max 3 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. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 4 in.

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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* Min 1/2 to max 3 in. thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (or heavier) and sized to the outside dia. of pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. OC. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 4 in.

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OWENS CORNING — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc

C. Sheathing Materials* 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.

The T Rating of the firestop system is dependent upon the nom thickness of the pipe covering. If the nom thickness of the pipe covering is 3 in., the T Rating is 1 hr. If the nom thickness of the pipe covering is less than 3 in., the T Rating is 1/2 hr.

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

A. Packing Material Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Caulk Min 1/4 in. thickness of fill material applied within the annulus flush with top surface of floor or with both surfaces of wall. At point contact location between penetrating item and concrete, a min 1/4 in. thick bead of fill material shall be applied at the concrete/penetrating item interface on top surface of floor and both surfaces of wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Silicone S/L (for floors only) and A/D FIREBARRIER Silicone (for floors and walls).

*Bearing the UL Classification Marking