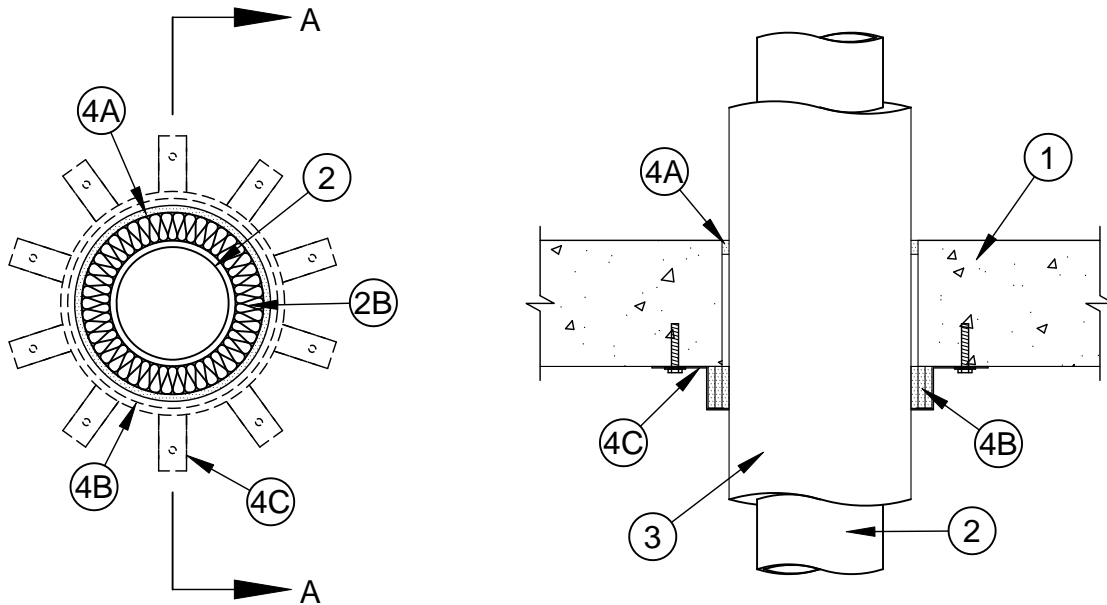




### **System No. C-AJ-2137**

F Rating - 2 Hr

T Rating - 2 Hr



**Section A-A**

1. **Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 7 in.

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

2. **Through Penetrants** - One nonmetallic pipe or conduit to be centered within the firestop system. Pipe to be rigidly supported on both sides of floor or wall. The following types and sizes of pipes may be used:

- A. **Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

- B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

3. **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. The annular space within the firestop system shall be a nom 1/4 in.

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.



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

- A. **Fill, Void or Cavity Material\* - Sealant** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

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

- B. **Fill, Void or Cavity Material\* - Wrap Strip** - Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. wide strips. The layers of wrap strip are individually wrapped around the insulated through-penetrant with the ends butted and held in place with masking tape. Butted ends in successive layers may be aligned or offset. The edge of the wrap strips shall abut the surface of the concrete floor or wall. In floor assemblies, the wrap strips are installed on the bottom side of the concrete floor. In wall assemblies, the wrap strips are installed on each side of the concrete wall. The number of wrap strips required is dependent upon the diam of the through penetrant as tabulated below:

Diam of Thought-Penetrant In.	No. of Wrap Strips
2	1
3	2
4	3

**SPECIFIED TECHNOLOGIES INC** - SpecSeal RED Wrap Strip

- C. **Steel Collar** - Collar fabricated from coils of precut 0.016 in. thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. deep with min four 1 in. wide by 2 in. long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. wide tapering down to 3/8 in. wide and located opposite the anchor tabs, are folded 90 degrees toward through-penetrant surface to maintain the annular space around the through-penetrant and to retain the wrap strips. Steel collar wrapped around wrap strips and through penetrant with a 1 in. wide overlap along its perimeter joint. Steel collar tightened around wrap strips and through penetrant using min 1/2 in. wide by 0.028 in. thick stainless steel hose clamp installed at midheight of the collar. Collar secured to concrete surface with 1/4 in. diam by min 1-1/4 in long steel concrete screws in conjunction with min 1 in. diam steel fender washers. The number of fasteners used to secure steel collar to floor or wall is dependent upon the diameter of the through penetrant. Two fasteners symmetrically located, are required for nominal 1-1/2 through 2 in. diameter through penetrants. Three fasteners symmetrically located, are required for nominal 2-1/2 through 3 in. diameter through penetrants. Four fasteners symmetrically located, are required for nominal 3-1/2 through 4 in. diameter through penetrants. In floor assemblies, one collar is used on the bottom side of the concrete floor. In wall assemblies, a collar is used on each side of the concrete wall.

+Bearing the UL Listing Mark

+Bearing the UL Classification Mark



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