

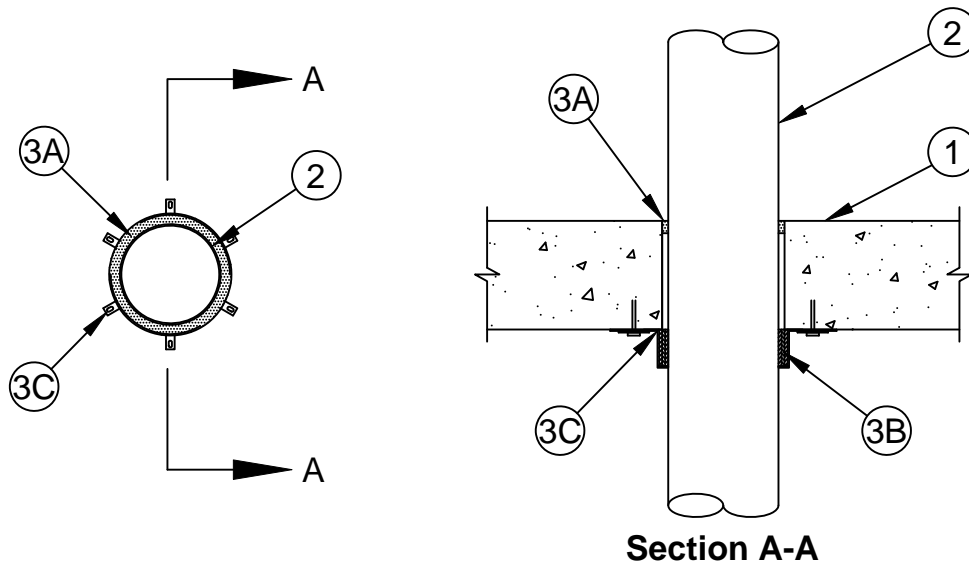
## System No. C-AJ-2817

F Rating - 2 Hr

T Rating - 2 Hr

L Rating At Ambient - 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft



- 1. Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units\***. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 5 in. (127 mm).  
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- 2. Through Penetrants** - One nonmetallic pipe or conduit to be centered within the firestop system. A nom annular space of 1/4 in. (6 mm) is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
  - A. Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) 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. Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
  - C. Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
- 3. Firestop System** - The firestop system shall consist of the following:
  - A. Fill, Void or Cavity Material\* - Sealant** - Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall assembly.  
**SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
  - B. Fill, Void or Cavity Material\* - Wrap Strip** - Nom 1/8 in. (3.2 mm), 3/16 in. (4.8 mm) or 1/4 in. (6.4 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) or 2 in. (51 mm) wide strips. The layers of wrap strips are individually or continuously wrapped around the through-penetrant. When wrap strips are individually wrapped, ends of wrap strips shall be butted and held in place with 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 assembly. 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 diameter of the through-penetrant as tabulated below:



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C-AJ-2817  
PAGE 1 OF 2

Diam of Through-Penetrant In. (mm)	Min No. of Wrap Strip Layers
2 (51)	1
3 (76)	1 (a)
3 (76)	2
4 (102)	3

(a) Where indicated, a single layer of BLU or BLU2 wrap strip may be used.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal RED, RED2, BLU or BLU2 Wrap Strip

C. **Steel Collar** - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. (38 mm) or 2 in. (51 mm) deep (dependent upon width of wrap strip) with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) 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. (25 mm) wide overlap along its perimeter joint. The anchor tab at one end of collar shall be cut in half and the half-tab section closest to the end of the collar shall be folded against the collar body in accordance with the accompanying installation instructions. Collar secured to concrete surface with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers. As an alternate to the steel concrete screws, nom 1-1/4 in. (32 mm) long steel powder actuated fasteners provided with 3/4 in. (19 mm) diam steel washers may be used to secure anchor tabs. 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 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.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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C-AJ-2817  
PAGE 2 OF 2