

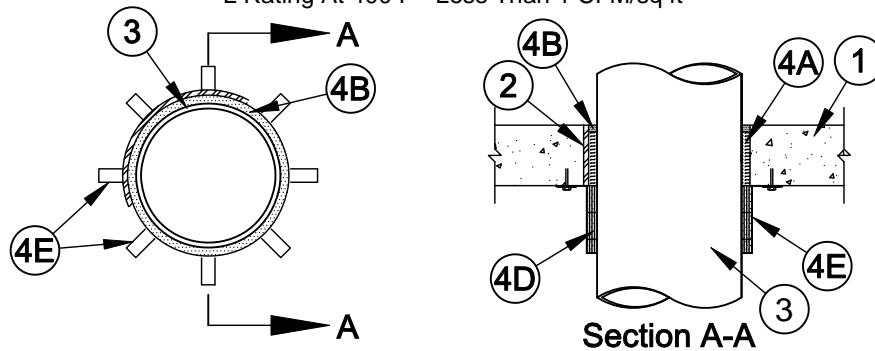
System No. C-AJ-2267

F Rating - 2 Hr

T Rating - 2 Hr

L Rating At Ambient - Less Than 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/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 12 in. (305 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2. Metallic Sleeve** - (Optional) - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall, flush with floor or wall surfaces. The steel sleeve may be used with Item 3A or 3B only.
- 3. Through Penetrants** - One nonmetallic pipe to be installed within the opening. A nom annular space of 5/8 in. (16 mm) is required within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipe may be used:
 - A. Polyvinyl Chloride (PVC) Pipe** - Nom 10 in. (254 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. Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 10 in. (254 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - C. Flame Retardant Polypropylene (FRPP) Pipe** - Nom 10 in. (254 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- 4. Firestop System** - The firestop system shall consist of the following:
 - A. Packing Material** - Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m³) mineral wool 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 Materials - Sealant** - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall assembly. When SpecSeal BLU2 Wrap strip is used, min 1/2 in. (13 mm) thickness of fill material applied within annulus flush with both surfaces of floor.
SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty.
 - C. Aluminum Foil Tape** - (Not Shown) - Nom 3 mil (0.07 mm) thick pressure sensitive aluminum foil tape wrapped around the outer circumference of the through penetrant with a 1 in. (25 mm) wide overlap along its perimeter joint. When PVC or CPVC pipe is used, foil tape shall abut against the bottom surface of the concrete floor or both surfaces of the wall and extend a min 6 in. below the bottom surface of the concrete floor or both surfaces of the wall. When FRPP pipe is used, foil tape shall abut against the bottom surface of the concrete floor or both surfaces of the wall and extend a min of 8 in. (203 mm) below the bottom surface of the floor or both surfaces of the wall.
 - D. Fill Void or Cavity Materials* - Wrap Strip** - Nom 1/8 in. (3.2 mm) or 3/16 in. (4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips. Two and one-half stacks of wrap strips are individually or continuously wrapped around the through penetrant. When PVC or CPVC pipe is used, each stack shall consist of four layers. When FRPP pipe is used, each stack shall consist of six layers. 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 floors, the two and one-half stacks of wrap strip are installed on the bottom side of the concrete floor. In wall assemblies, the two and one-half stacks of wrap strips are installed on each side of the concrete wall.
SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip or SpecSeal BLU2 Wrap Strip
 - E. Steel Collar** - Collar fabricated from coils of precut 0.029 in. (0.7 mm) thick (No. 22 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 5 in. (127 mm) deep with min six 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for attachment 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 wrap strips and 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. Steel collar tightened around wrap strips and through penetrant using min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamps located 1 in. (25 mm) from concrete surface and spaced 2 in. (51 mm) OC. 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.

*Bearing the UL Classification Mark



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