



System No. C-AJ-2364

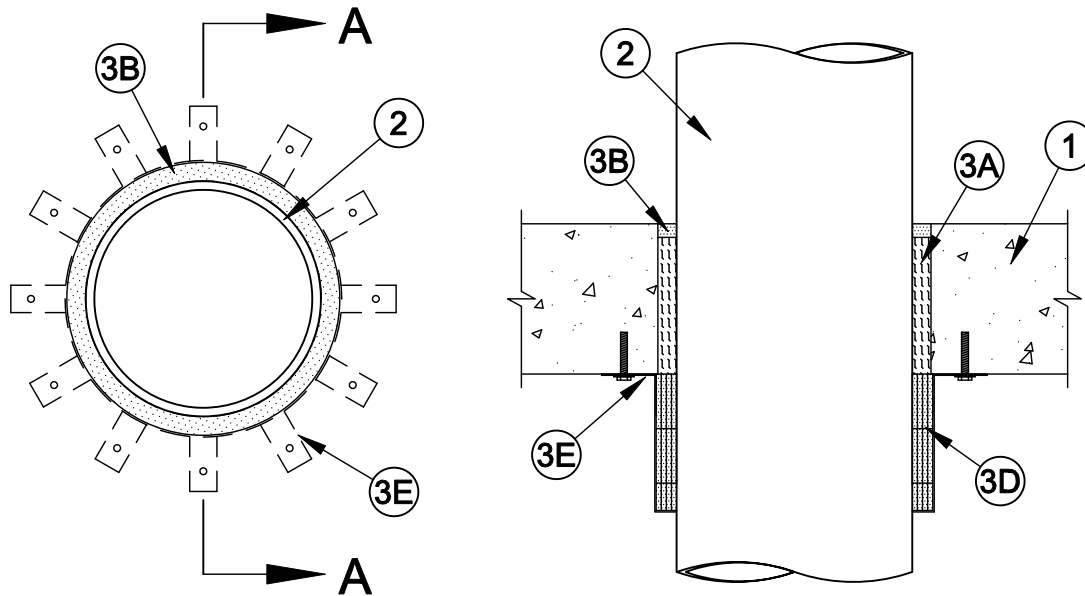
F Rating - 4 Hr

T Rating - 4 Hr

L Rating At Ambient - Less Than 1 CFM/sq ft

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

W Rating - Class 1 (See Item 3B)



Section A-A

- 1. Floor or Wall Assembly** - Min 5-1/2 in. (140 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***. Floor may also be constructed of any UL Classified **Precast Concrete Units***. Diam of opening to be min 1/2 in. (13 mm) larger than outside diam of through penetrant. Max diam of opening is 10 in. (254 mm). When floor is constructed of hollow-core precast concrete units, max diam of opening is 7 in. (178 mm).

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

- 2. Through Penetrant** - One nonmetallic pipe to be centered within the opening. The annular space shall be min 1/4 in. (6 mm) to max 1/2 in. (13 mm) for pipes less than 6 in. (152 mm) diam and max 11/16 in. (18 mm) for nom 6 in. (152 mm) and 8 in. (203 mm) diam pipes. 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 8 in. (203 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 8 in. (203 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems
 - C. Flame Retardant Polypropylene (FRPP) Pipe** - Nom 8 in. (203 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - D. Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

Reproduced courtesy of Underwriters Laboratories, Inc.

Created or Revised: January 2, 2009

(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com



C-AJ-2364
PAGE 1 OF 2

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

- A. **Packing Material** - Mineral wool batt insulation firmly packed into annular space as a permanent form. Packing material to extend throughout thickness of floor or wall except for recess at top surface of floor or at both surfaces of wall to accommodate the sealant (Item 3B).
- 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 required as specified under Item 3D, a min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with both surfaces of floor.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal Putty, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant for floors or walls and Pensil 300 S/L Sealant SpecSeal Series SIL300SL Sealant for floors only.

W Rating applies only when Pensil 300, SpecSeal Series SIL300, Pensil 300 S/L or SpecSeal Series SIL300SL Sealants are used.

- C. **Aluminum Foil Tape - (Not Shown)** - Nom 3 mil (0.08 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. Foil tape shall abut against the bottom surface of the concrete floor or both surfaces of the wall and extend a min 6 in. (152 mm) below the bottom surface of the concrete 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. For nom 6 in. (152 mm) and 8 in. (203 mm) diameter pipes, two and one-half stacks of wrap strips ((5 in. (127 mm) stack height)) are individually or continuously wrapped around the through penetrant with each stack consisting of five layers. For pipes with a diameter of 4 in. (102 mm) or smaller, two stacks of wrap strips ((4 in. (102 mm) stack height)) are individually or continuously wrapped around the through penetrant with each stack consisting of three 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 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.

SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip or SpecSeal BLU2 Wrap Strip. When SpecSeal BLU2 Wrap Strip is used on max 4 in. (102 mm) diam pipes and when max annular space is greater than 3/8 in. (10 mm), the annular space at the bottom of the floor is to be filled with a nom 1/2 in. depth of SpecSeal 100, 101, 102, 105, 120 or 129 Sealant in addition to the sealant required at the top of the floor .

- E. **Steel Collar** - Collar fabricated from coils of precut 0.029 in. (0.7 mm) thick (22 ga) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 4 in. (102 mm) deep for nom 4 in. (102 mm) diam (or smaller) pipes and 5 in. (127 mm) deep for nom 6 in. (152 mm) and 8 in. (203 mm) diam pipes. Each collar to be provided with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. A min of four, six or eight anchor tabs are required for nom 4 in. (102 mm), 6 in. (152 mm) and 8 in. (203 mm) diam pipes, respectively. 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 through anchor tabs with min 3/16 in. (4.8 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.

*Bearing the UL Classification Mark



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

Reproduced courtesy of Underwriters Laboratories, Inc.

Created or Revised: January 2, 2009

(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com



C-AJ-2364
PAGE 2 OF 2