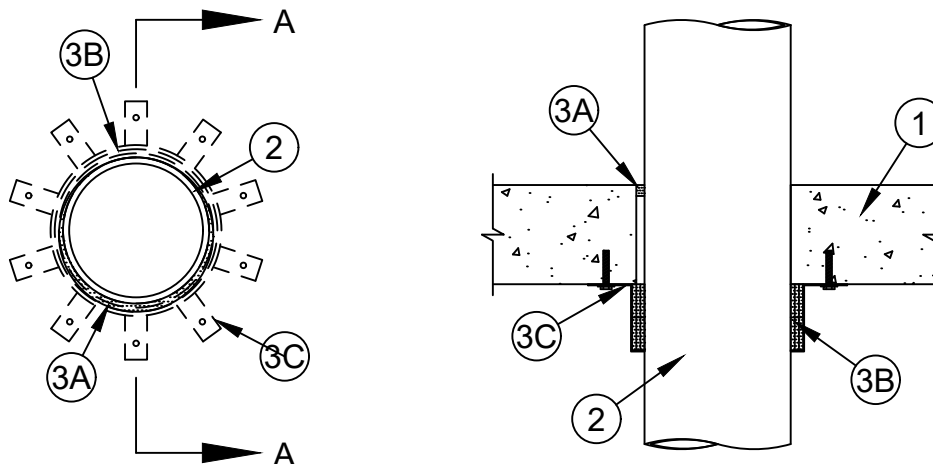




ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 and 3 Hr (See Item 2)	F Ratings - 2 and 3 Hr (See Item 2)
T Ratings - 0, 3/4 and 3 Hr (See Item 2)	FT Ratings - 0, 3/4 and 3 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/ft ²	FH Ratings - 2 and 3 Hr (See Item 2)
L Rating At 400°F - Less Than 1 CFM/ft ²	FTH Ratings - 0, 3/4 and 3 Hr (See Item 2)
W Rating - Class 1 (See Item 3A)	L Rating At Ambient - Less Than 5.1 L/s/m ²
	L Rating At 204°C - Less Than 5.1 L/s/m ²



Section A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- 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. 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***. Diam of opening to be min 3/8 in. (10 mm) to max 3/4 in. (19 mm) larger than outside diam of through penetrant. Max diam of opening is 7 in. (178 mm). See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One nonmetallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 3/8 in. (10 mm) except as noted under Item 3D. Pipe or conduit to be rigidly supported on both sides of floor or wall. The following types and sizes of pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - 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.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit+** - Nom 6 in (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code, (NFPA No. 701)
 - Fiberglass Reinforced Pipe (FRP)** - Nom 6 in. (152 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or control) or vented (drain, waste or vent) piping systems.

The F, T, FT, FH and FTH Ratings of the firestop system are dependent upon the type of through penetrant used as tabulated below:

Thought Penetrant	F, FH Rating Hr	T, FT, FTH Rating Hr
PVC Pipe	3	3
CPVC Pipe	3	3
PVC Conduit	3	3
ABS Pipe	3	0
FRP Pipe	2	3/4

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

- A. **Fill, Void or Cavity Material* - Sealant or Putty** - 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. At the point contact location between penetrating item and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/penetrating item interface on the top surface of floor and on both surfaces of wall.

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

W Rating applies only when SpecSeal SIL300 or SpecSeal SIL300SL Sealants are used.

- B. **Fill, Void or Cavity Material* - Wrap Strip** - Nom 1-1/2 in. (38 mm) wide by 1/4 in. (6 mm) thick or nom 2 in. (51 mm) wide by 1/8 in. (3.2 mm) or 3/16 in. (4.8 mm) thick intumescent strips faced on both sides with a plastic film. In floor assemblies, two stacks of wrap strips, each consisting of three wrap strips, are individually wrapped around the 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 two stacks of wrap strips are installed on the bottom side of the concrete floor. In wall assemblies, the two stacks of wrap strips are installed on each side of the concrete wall.

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

- C. **Steel Collar** - Collar fabricated from coils of precut 0.022 in. (0.6 mm) thick galv sheet steel available from wrap strip manufacturer. Collar shall be nom 3 in. (76 mm) or 4 in. (102 mm) deep to accommodate wrap strip width with min six 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 3/8 in. (10 mm) wide and located opposite the anchor tabs, are folded 90 degree 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. 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 clamp installed at midheight of the collar. 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.

- D. **Firestop Device*** - (Not Shown) As an alternate to the wrap strip and the steel collar (Item Nos. 3B and 3C), a firestop device consisting of steel collar lined with an intumescent material sized to fit the specific diam of the nonmetallic through penetrant may be used. Device shall be installed in accordance with the accompanying installation instructions. Device incorporates anchor tabs for securement to bottom surface of floor or both surfaces of wall assembly by means of 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.

SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar. When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe or conduit and shall be max 1/4 in. (6 mm) for pipe or conduit larger than 2-1/2 in. (64 mm) diam.

+Bearing the UL Listing Mark

*Bearing the UL Classification Mark



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C-AJ-2125
PAGE 2 OF 2