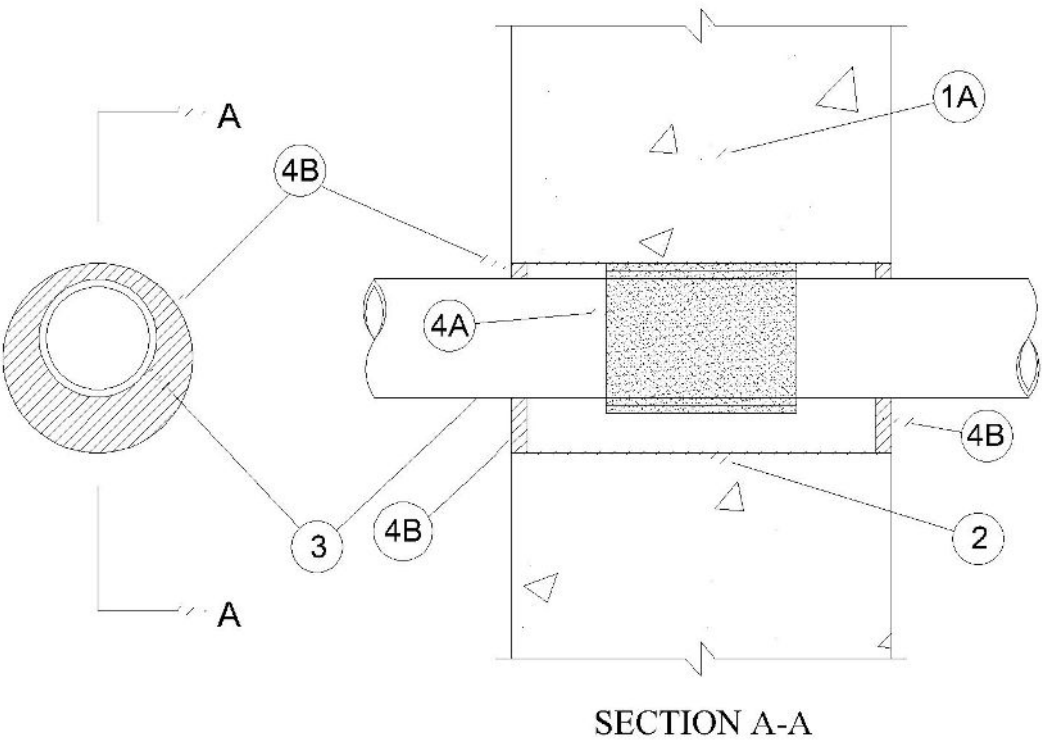


December 22, 2023

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 2 Hr (see Item 3)	FT Ratings — 0 and 2 Hr (see Item 3)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 2 Hr (see Item 3)



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.

1. **Wall Assembly** — Min 5 in. (127 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***. Wall may also be constructed of any 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*Max diameter of opening is 6 in. (152 mm).

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

2. Metallic Sleeve — Required for use with Concrete Blocks or hollow core Precast Concrete Units, optional for solid block or solid wall construction. Nom 6 in. (152 mm) Diam (or smaller) cylindrical sleeve fabricated from min 0.018 in. (0.46 mm) thick (28 gauge) galv sheet steel and having a min 1 in. (25 mm) lap along longitudinal seam. Length of sleeve to be installed flush with wall surfaces.

3. Through Penetrants — One nonmetallic pipe, conduit or tubing to be centered within the firestop system. The max diam of the through penetrant and annular space within the firestop system is dependent upon the quantity of fill material (Item 4). Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. 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.

C. Polyvinyl Chloride-XFR (PVC-XFR) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core PVC-XFR pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems

D. 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).

E. Electrical Nonmetallic Tubing (ENT)+ — Nom 4 in. (102 mm) diam (or smaller) PVC tubing installed in accordance with the National Electrical Code (NFPA No. 70).

F. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems **Note when ABS penetrant is used T, FT and FTH ratings are 0Hr**

G. Polypropylene (PP-R) Pipe — Nom 4 in. (102mm) diam (or smaller) Aquatherm or Niron SDR 11 PP pipe for use in closed (process or supply) piping systems.

G1 Polypropylene PP-RCT Pipe — As an alternate to Item G, nom 4 in. (102 mm) diam (or smaller) Aquatherm or Niron SDR 11 PP-RCT pipe for use in closed (process or supply) piping systems.

H. High Density Polyethylene (HDPE) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR11 HDPE pipe for use in closed (process or supply) piping systems.

Penetrants G, G1, H are limited to only ANSI/UL 1479 (ASTM E 814)

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

A. Fill, Void or Cavity Materials* — One or Two layers of Nom 2 mm thick by 3 in. (76 mm) wide intumescent joint strip. Strips tightly wrapped around the outer circumference of the pipe with ends butted and held in place with tape. (See Table 1) Joint strip slid into the annular space and centered in dept of wall. The edge of the joint strip recessed min 1-1/4 in. (32 mm), from both surfaces of wall.

RECTORSEAL — [Metacaulk Joint Strip](#)

B. Fill, Void or Cavity Material* — **Sealant** — min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

RECTORSEAL — [Metacaulk 150+Metacaulk 1000](#), [Metacaulk 1200](#)

The max diam of the through penetrant and annular space within the firestop system is dependent upon the quantity of fill material as tabulated below:

Table 1:

Penetrant type	Nom Diam of Pipe In. (mm)	No. of layers	Min Annular Space in. (mm)	Max Annular Space in. (mm)	Max Diam Opening In. (mm)	Sealant Thickness In. (mm)
A, B, C, D, E, F, H	3(76)	1	1/16 (3.2)	1/4 (6)	4 (102)	1/4 (6)
A, B, C, D, E, F, H	4 (102)	2	3/16 (4.8)	1/4 (6)	5 (127)	1/4 (6)
G, G1	3(76)	1	1/16 (3.2)	1 (25)	5 (127)	1/4 (6)
G, G 1	4 (102)	2	3/16 (3.2)	1 (25)	6 (152)	1/4 (6)

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