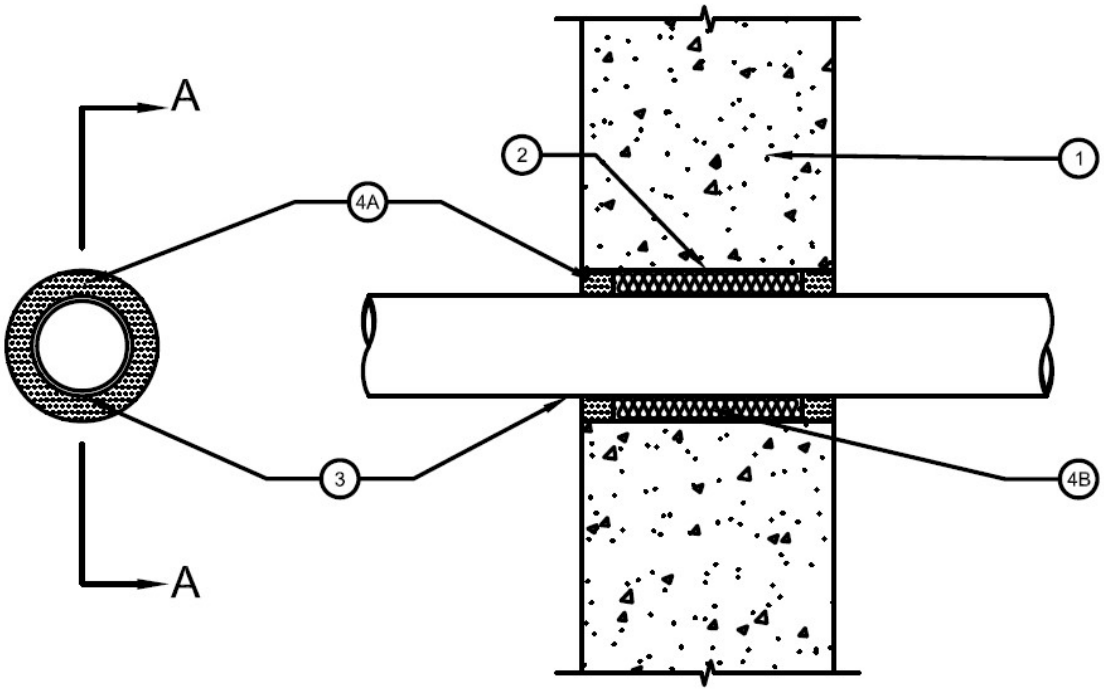
June 6, 2025

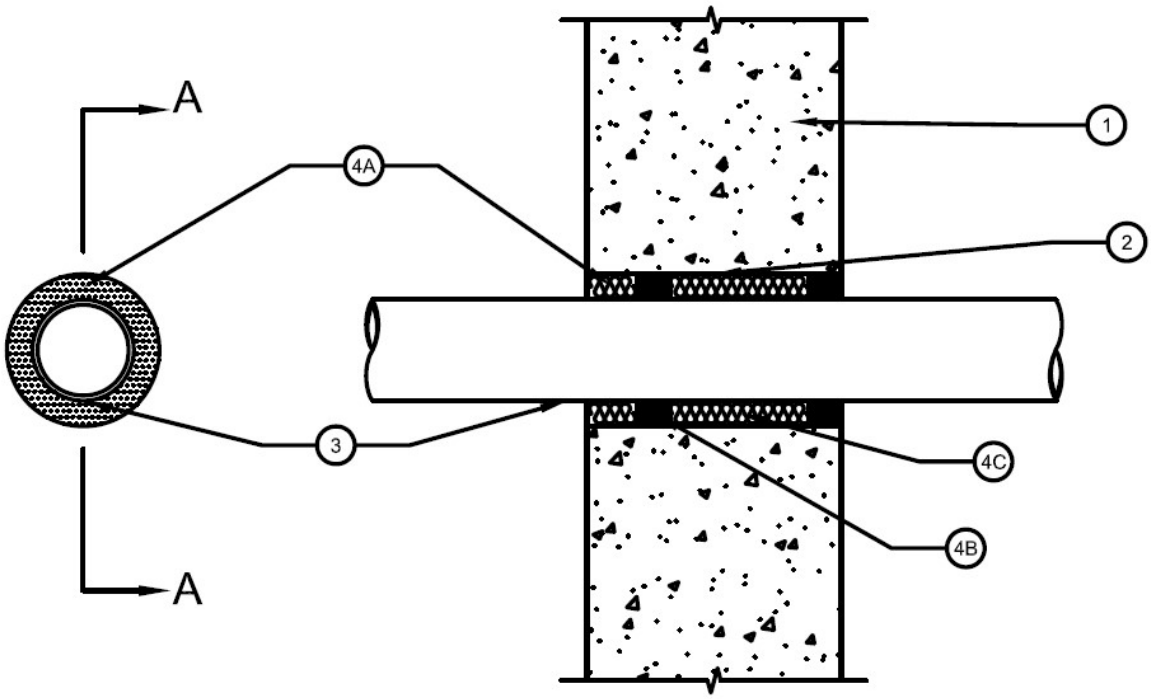
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Table 1)	F Rating — 1 and 2 Hr (See Table 1)
T Ratings —1-1/2 and 2 Hr (See Table 1)	FT Ratings — 1, 1-1/2 and 2 Hr (See Table 1)
L Rating at Ambient — Less Than 1 CFM/ft²	FH Rating — 0 and 2 Hr (See Table 1)
L Rating at 400°F — Less Than 1 CFM/ft²	FTH Ratings — 0, 1-1/2 and 2 Hr (See Table 1)
	L Rating at Ambient — Less Than 5.1 L/s/m²
	L Rating at 204°C— Less Than 5.1 L/s/m²

CONFIGURATION A



SECTION A-A

CONFIGURATION B



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.

1. **Wall Assembly —** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100~~-~~150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any 6 in. (152 mm) thick UL Classified hollow core **Precast Concrete Units** or **Concrete Blocks*** Max diameter of opening is 4 in. (102 mm).

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

2. **Metallic Sleeve (Optional) —** Required for use with hollow 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 0.097 in. (0.26 mm) thick (32 gauge) galv. sheet steel having a min 1 in. (25 mm) lap along longitudinal seam. Length of sleeve to be installed flush with wall surfaces or extended 1 in. (25mm) on both sides of the wall.

3. **Through Penetrants —** One nonmetallic pipe to be installed eccentrically or concentrically within the firestop system. Annular space to be min 1/2 in. (13 mm) to max 1 in. (25 mm). Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic tubes may be used:

A. **Polyvinyl Chloride (PVC or uPVC) Pipe**— Nom 2 in. (51 mm) diam (or smaller) SDR 41 or Schedule 40 solid or cellular core PVC or uPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. (51 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 2 in. (51 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 2 in. (51 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 2 in. (51 mm) diam (or smaller) PVC tubing installed in accordance with the National Electrical Code (NFPA No. 70).

Configuration A

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

A. **Packing Material —** Min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material (Item 4B).

A1. **Packing Material —** As an alternate packing material (Item 4A), polyethylene/polyurethane foam backer rod to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material (Item 4B). When Item 4A1 is used the system is limited to CAN/ULC S115 ratings only can be used to meet CAN/ULC S115 as specified in Table 1 below.

B. **Fill, Void or Cavity Material* —** Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus on to the packing material flush with both surfaces of wall assembly.

RECTORSEAL — Metacaulk 150+, Metacaulk 1000

Configuration B – Single Side Install

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

A. **Packing Material** – Max 1 in. (25 mm) thick 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into the opening and pushed through depth of wall to non-access side. Access side packing material should be flush with the outer surface of the non-accessible wall face.

B. **Fill, Void or Cavity Material*** — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus on to the packing material, from accessible side on to the packing material, from accessible side. Allow fill, void or cavity material to skin over.

RECTORSEAL — Metacaulk 150+, Metacaulk 1000

C. **Packing Material** – After installation of sealant (Item 4B), min 4-3/4 in. (121 mm) for 2 hr fire rated wall assembly or min 3-1/2 in. (89 mm) for 1 hr fire rated wall assembly, min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from wall surface of accessible side to accommodate the required thickness of fill material (Item 4D).

C1. **Packing Material** — As an alternate packing material (Item 4C), polyethylene/polyurethane foam backer rod to be recessed from accessible surface of wall as required to accommodate the required thickness of fill material (Item 4D). when Item 4A1 is used the system is limited to CAN/ULC S115 ratings only as specified in Table 1 below.

D. **Fill, Void or Cavity Material*** — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, on to the packing material flush with accessible surface of wall assembly.

RECTORSEAL — Metacaulk 150+, Metacaulk 1000

Table 1 on the Firestop Conditions and Ratings

Firestop Condition	Fill, Void or Cavity Material	F Rating (Hr)	T Rating (Hr)	FT Rating (Hr)	FH Rating (Hr)	FTH Rating (Hr)	Standard
Config. A or Config. B	Metacaulk 1000	2	2	2	2	2	ANSI/UL1479 CAN/ULC S115
Config. A or Config. B	Metacaulk 150+	2	1-1/2	1-1/2	2	1-1/2	ANSI/UL1479 CAN/ULC S115
Config. A with Item 4A1 or Config. B with Item 4C1	Metacaulk 1000 or 150+	2	1	1	0	0	CAN/ULC S115
Config. A or Config. B	Metacaulk 1000 or 150+	1	0	0	1	0	ANSI/UL1479 CAN/ULC S115
Config. A with Item 4A1 or Config. B with Item 4C1	Metacaulk 1000 or 150+	1	0	0	0	0	CAN/ULC S115

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