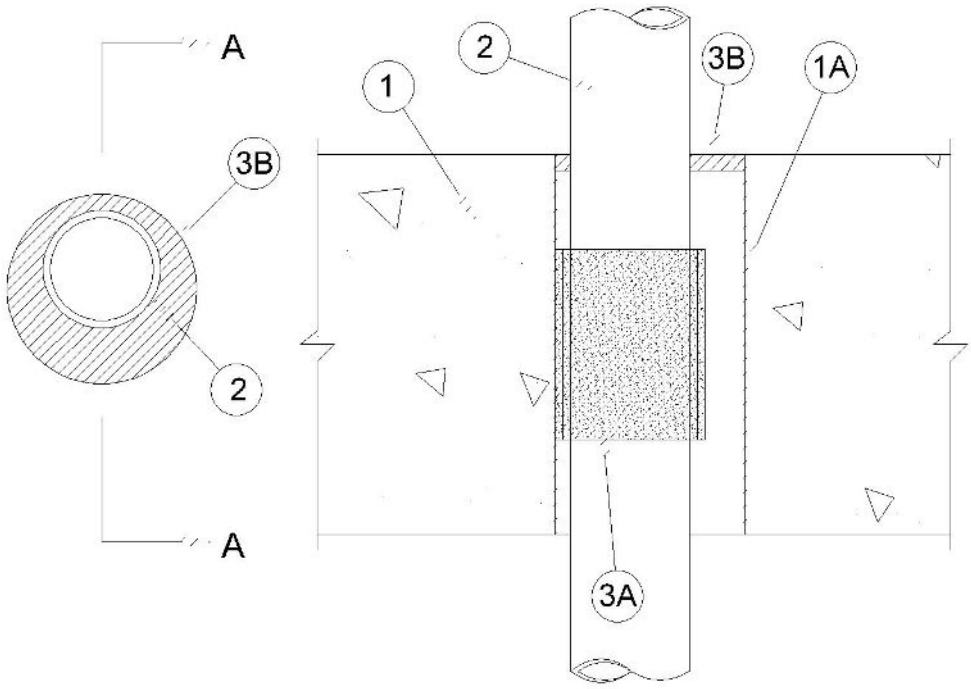
September 23, 2025

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr or 2 Hr (See Item 2A)	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/ft^2	FH Rating — 2 Hr
L Rating At 400°F — Less Than 1 CFM/ft^2	FTH Rating — 0 Hr
W Rating - Class 1 (See Item 3B and 3C)	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



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side. (See Item 2)

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/m^3) concrete. Min 6 in. (152 mm) Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. When hollow core Precast concrete is used the max diam of opening is 10 in. (254mm).

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

1A. **Metallic Sleeve —** Required for use with hollow Concrete Blocks or hollow core Precast Concrete Units, optional for solid block or solid wall construction. Nom 10 in. (254 mm) Diam (or smaller) cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) thick (30 gauge) galv sheet steel and having a min 1 in. (25 mm) lap along longitudinal seam. The sleeve is secure in position by friction fit. Length of sleeve to be installed flush with wall and floor surfaces.

2. **Through Penetrant —** One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space within the firestop system is dependent upon the max diam and type of penetrant as shown in Table 1. When W Rating applies, annular space shall be a min 1/2 in. (13 mm). Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **High Density Polyethylene (HDPE) Pipe —** Nom 8 in. (203mm) diam (or smaller) SDR 7, 7.3, 9,11,13.5 or 17 pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

8 in. (203 mm) diam. pipe is limited to UL1479, pipe for use in closed (process or supply) piping systems. T Rating on 8 in. (203 mm) diam. is 2Hr.

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

A. **Fill, Void or Cavity Materials* —** Nom 1/16 in. (2 mm) thick by 3 in. (76 mm) wide intumescent joint strip (See Table 1). Strips tightly wrapped continuously around the outer circumference of the pipe and held in place with tape. Joint strip slid into the annular space with the bottom edge of the joint strip recessed 3/4 in. (19 mm) from bottom surface of floor or 1-1/2 in. (38 mm) from both surfaces of wall.

RECTORSEAL —Metacaulk Joint Strip

B. **Fill, Void or Cavity Material* — Caulk —**Min 1/4 in. (6 mm) thickness (see Table 1) of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall assembly. **W Rating applies only when Metacaulk 1000 or is used**

RECTORSEAL — Metacaulk 1000, Metacaulk 150+, Metacaulk 1200, Metacaulk 350i,

C. **Packing Material —** (Optional, not shown) — When W Rating applies, packing material is required. Min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening or min 1 in. (25 mm) diam backer rod friction fitted into the opening as a 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.

Table 1

Penetrant Item	Nom Diam of Pipe In. (mm)	No. of layers	Min Annular Space in. (mm)	Max Annular Space in. (mm)	Max Opening Diam In. (mm)	Sealant Thickness In. (mm)
A	8 (203)	8	5/8 (16)	3/4 (19)	10 (254)	1/4 (6)
A	6(152)	3	1/4 (6)	1-1/4 (31.8)	8 (203)	1/4 (6)
A	4(102)	2	3/16 (4.8)	1-1/4 (31.8)	6 (152)	1/4 (6)
A	3(76)	1	1/16 (3.2)	1-1/4 (31.8)	4 (102)	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.**