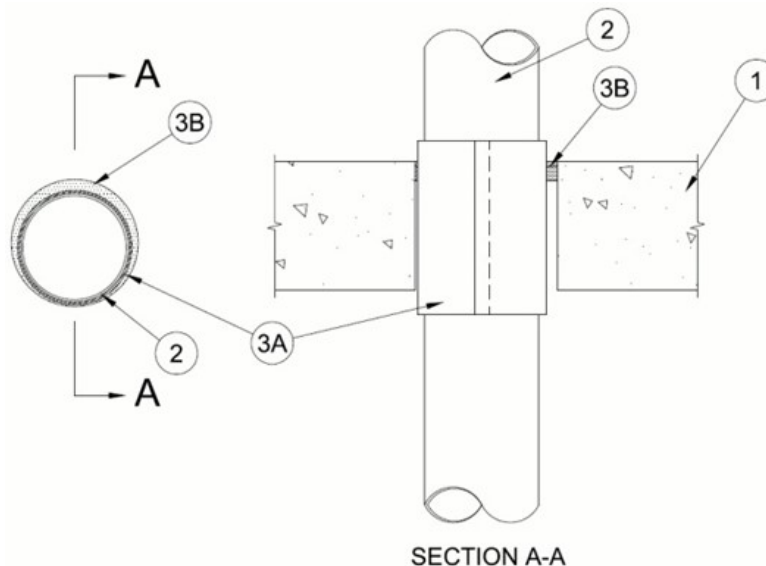


September 24, 2025

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



**System tested with a pressure differential of 2.5 Pa and 50 Pa (See Items 1 & 3) between the exposed and the unexposed surfaces with the higher pressure on the exposed side.**

**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<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units\*. Max diam of opening is 14 in. (356 mm).

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

**Min. 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete slab is required to meet CAN/ULC S115 – 50 Pa.**

**1A. Floor Assembly** — As an alternate to Item 1, The fire-rated unprotected concrete and steel or concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

**A. Concrete** — Min. 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf, 1600-2400 kg/m<sup>3</sup>) concrete.

**B. Steel Floor and Form Units\*** — Composite or noncomposite Max. 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling design. Max. diam of opening is 14 in. (356 mm).

**2. Through Penetrants** — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. Max. annular space within the firestop system is 3/4 in. (19 mm). The following types and sizes of nonmetallic pipes may be used:

**A. Polyvinyl Chloride (PVC or uPVC) Pipe** — Nom. 12 in. (305 mm) diam (or smaller) Schedule 40 or SDR 41 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

**B. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom. 12 in. (305) mm diam (or smaller) SDR 11 or SDR 21 CPVC pipe for use in closed (process or supply) piping systems.

**C. Polyvinyl Chloride-XFR (PVC-XFR) Pipe** — Nom. 12 in. (305) 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

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

**A. Firestop Device** — Galvanized steel sleeve lined with an intumescent material sized to fit around the pipe. If outer diameter of the penetrant exceeds 9 in. (228 mm) in diameter, two intumescent sleeves with an overlap of Min. 1/2 in. (13 mm) to be tightly wrapped around outer circumference of pipe. Sleeves are held in place with pop rivets, hose clamps or tie wire. Device to be installed in flush with the top surface of the floor or centered to the floor or wall assembly.

**RECTORSEAL** — [Metacaulk Intumescent Sleeve](#)

**B. Fill, Void or Cavity Material\*** — **Sealant** — Min 1/4 in. (6 mm) thickness (see Table 1) of fill material applied within the annulus, flush with top surface of floor.

Sealant (optional, not shown) can be applied either top or bottom surface of the floor and at least one side of the wall to meet CAN/ULC S115 – 50 Pa.

W Rating applies only when Min. 1/2 in. (13 mm) [Metacaulk 1000](#) or [Metacaulk 1200](#) is used on top of the floor.

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

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