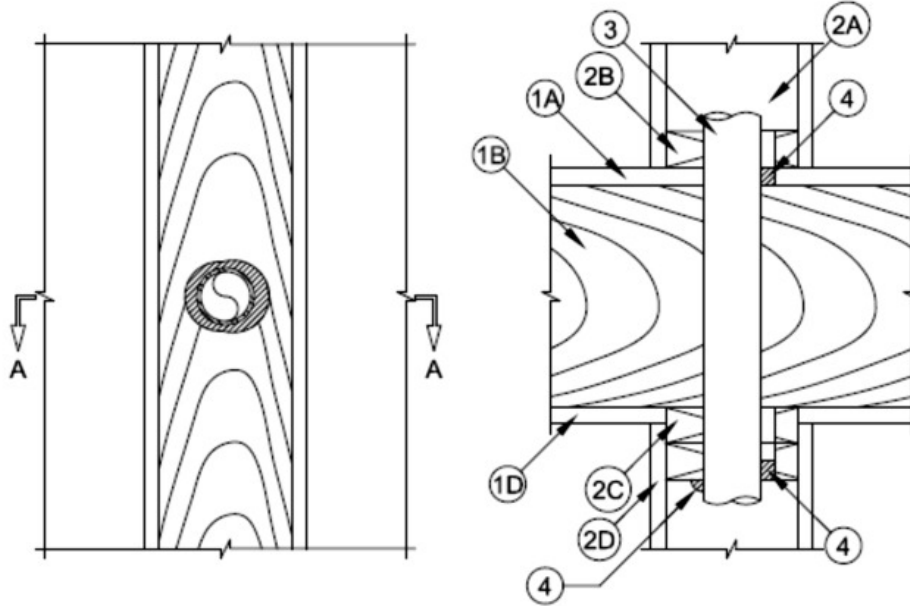


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Ratings — 3/4 and 1 Hr (See Item 3)	FT Ratings — 3/4 and 1 Hr (See Item 3)
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Rating — 1 Hr
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 3/4 and 1 Hr (See Item 3)
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



**1. Floor — Ceiling Assembly** — The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:

**A. Flooring System** — Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture\*** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 4 in. (102 mm).

**B. Wood Joists** — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members\*** with bridging as required and with ends firestopped.

**C. Gypsum Board\*** — Nom 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Wallboard secured to joists as specified in the individual Floor-Ceiling Design.

**2. Chase Wall** — The through penetrant (Item No. 3) shall be routed through wood stud/gypsum board chase wall and shall include the following construction features:

**A. Studs** — Nom 2 by 6 in. (51 by 152 mm) lumber studs.

**B. Sole Plate** — Nom 2 by 6 in. (51 by 152 mm) lumber plates. Diam of opening or length of notch-out in sole plate to be 1/2 in. (13 mm) larger than outside diam of pipe.

**C. Top Plate** — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) lumber plates. Diam of opening or length of notch-out in top plate to be 1/2 in. (13 mm) larger than outside diam of pipe.

**D. Gypsum Board** — Min 1/2 in. (13 mm) thick rated or nonrated gypsum board.

**2A. Alternate Chase Wall** — (Not Shown) — For nom 2 in. diam (or smaller) through penetrants (Item No. 3), the pipes may be routed through wood stud/gypsum board chase wall as an alternate to Item 2 and shall include the following construction features:

**A. Studs** — Nom 2 by 4 in. (51 by 102 mm) lumber studs.

**B. Sole Plate** — Nom 2 by 4 in. (51 by 102 mm) lumber plates. Diam of opening or length of notch-out in sole plate to be 1/2 in. (13 mm) larger than outside diam of pipe.

[Benzer Detaylar görmek için linki ziyaret ediniz.](#)

C. **Top Plate** — The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm) lumber plates. Diam of opening or length of notch-out in top plate to be 1/2 in. (13 mm) larger than outside diam of pipe.

D. **Gypsum Board** — Min 1/2 in. (13 mm) thick rated or nonrated gypsum board.

3. **Through Penetrants** — One nonmetallic pipe to be centered within the firestop system. The annular space between pipe and periphery of opening shall be 0 in. (point contact) to 1/2 in. (13 mm) Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 3 in. (76 mm) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. **T Rating is 1 hr.**

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems. **T Rating is 1 hr.**

C. **Rigid Non-Metallic Conduit +** — Nom 3 in. (76 mm) Diam (or smaller) PVC conduit installed in accordance with the National Electrical Code (NFPA 70). **T Rating is 1 hr.**

D. **Electrical Nonmetallic Tubing+** — Nom 3 in. (76 mm) (or smaller) PVC tubing installed in accordance with the National Electrical Code (NFPA 70). **T Rating is 1 hr.**

E. **Crosslinked Polyethylene (PEX) tubing** — Nom 1-1/2 in. (38 mm) diam (or smaller) SDR 9 tube used for closed (process or supply) or vented (drain, waste or vent) piping systems, with [Metacaulk 1000](#) or [Metacaulk 350i](#) caulk (Item 4A). **T Rating is 3/4 hr.**

F. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom. 2 in. (51 mm) diam (or smaller) Blazemaster® SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems. **T Rating is 1 hr.**

G. **Polypropylene (PP) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Aquatherm Greenpipe SDR 11 PP pipe for use in closed (process or supply) piping systems, with [Metacaulk 1000](#) or [Metacaulk 350i](#) caulk (Item 4A). Maximum total annular space shall be 1/2 in. with no point contact. **T Rating is 1 hr.**

H. **Polypropylene (PP-RCT) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Niron Clima SDR 11 PP-RCT pipe for use in closed (process or supply) piping systems, with [Metacaulk 1000](#) or [Metacaulk 350i](#) caulk (Item 4A). Maximum total annular space shall be 1/2 in. with no point contact. **T Rating is 1 hr.**

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

A. **Fill, Void or Cavity Material\*** — **Caulk** — Min 3/4 in. (19 mm) thickness of fill material applied within annulus, flush with top surface of floor. Min 3/4 in. (19 mm) thickness of fill material applied within annulus, flush with bottom surface of top plate. Min 1/2 in. (13 mm) crown bead at point contact.

**RECTORSEAL** — [Metacaulk 1000](#), [Metacaulk 350i](#) or [MC150+](#)

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