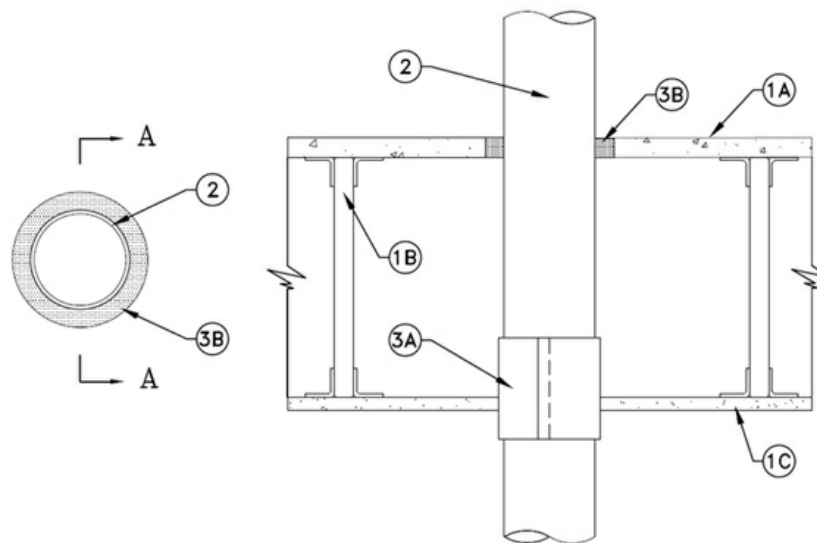


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft	FH Rating — 1 Hr
L Rating at 400 F — Less than 1 CFM/Sq Ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less than 5.1 L/s/m ²
	L Rating at 400 F — Less than 5.1 L/s/m ²



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. Floor-Ceiling Assembly — The 1 hr fire-rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:

A. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m³) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Max diam of floor opening is 9-1/2 in. (216 mm).

B. Joists — Steel joists or **Structural Steel Members*** as specified in the individual G500 Series Design.

C. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max diam of ceiling is 9-1/2 in. (216 mm).

2. Through Penetrants — One nonmetallic pipe or conduit to be centered within the firestop system. The annular space between pipe or conduit and periphery of the opening to be a nom 3/8 in. (10 mm). Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 8 in. (203 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 8 in. (203 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. Rigid Nonmetallic Conduit* — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid core PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

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

A. Firestop Device — The device consists of a galvanized steel sleeve lined with an intumescent material and sized to fit the specific diameter of the through-penetrant. The device shall be installed either full length (31 in. × 10 in. [787 mm × 254 mm]) or field-cut into two equal sections (31 in. × 5 in. [787 mm × 127 mm]) in accordance with the manufacturer's installation instructions and the following requirements. The device shall be wrapped around the outer circumference of the through penetrant (Item 3) and installed through the annular space of the opening. The device shall be secured by hose clamps or tie wires installed around the outer circumference of the through penetrant (Item 3) and spaced a maximum of 2 in. (51 mm) on center. The device shall extend 2 in. (51 mm) below the underside of the ceiling.

The device shall be supported by two separate minimum 3/4 in. (19 mm) galvanized steel strap hangers (not shown). Each strap hanger shall be formed into a continuous loop fully encircling the pipe sleeve and returning to the original side. The strap ends shall be mechanically fastened to the underside of the floor/ceiling assembly (ceiling joists or furring/hat channels) using steel fasteners suitable for the substrate.

RECTORSEAL — [Metacaulk Intumescent Sleeve](#)

B. 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 or sole plate.

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

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