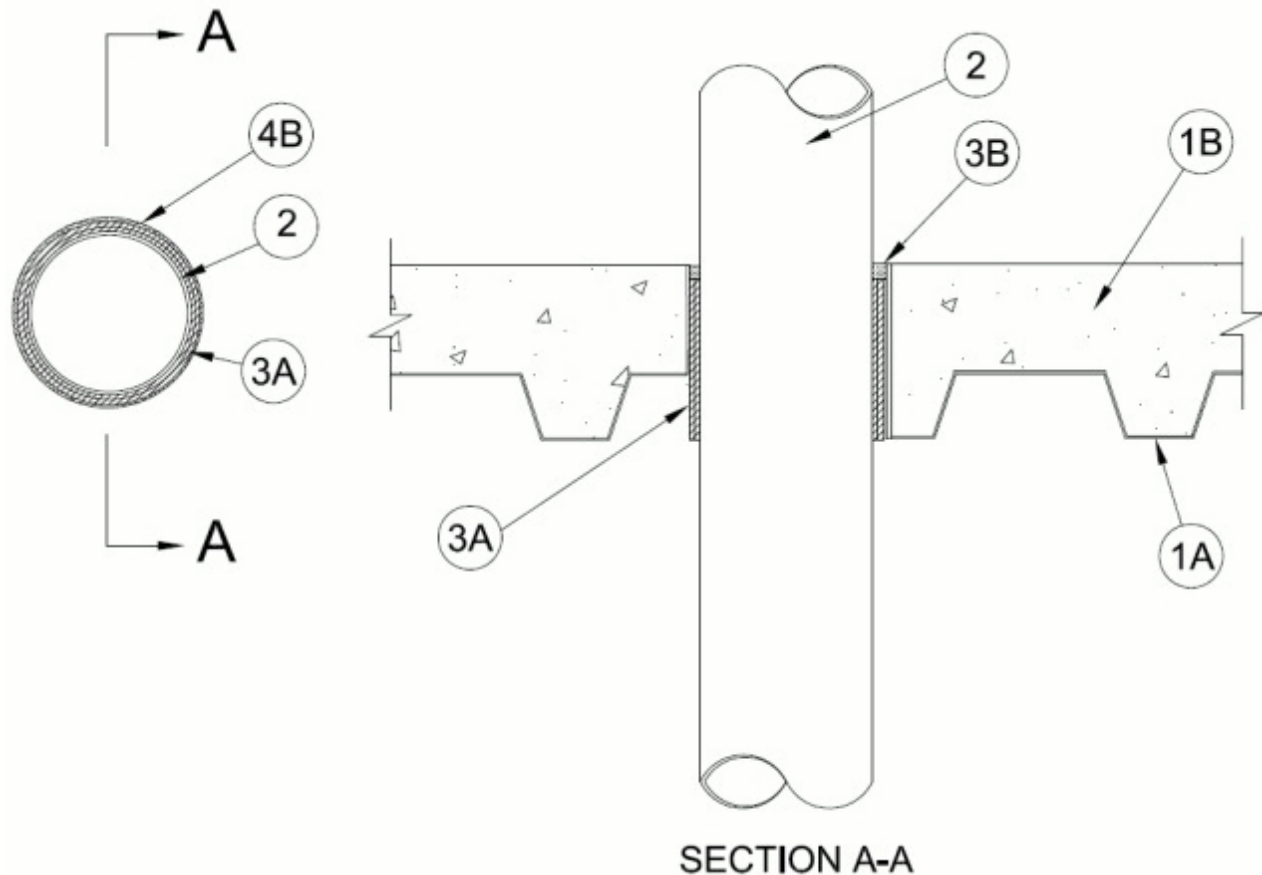


### System No. F-A-2277

October 11, 2017

| ANSI/UL1479 (ASTM E814)                               | CAN/ULC S115   |
|---|--|
| F Rating — 2 Hr                                       | F Rating — 2 Hr  |
| T Rating — 3/4 Hr                                     | FT Rating — 3/4 Hr                                     |
| L Rating At Ambient — Less Than 1 CFM/ft <sup>2</sup> | FH Rating — 2 Hr                                       |
| L Rating At 400 F — Less Than 1 CFM/ft <sup>2</sup>   | FTH Rating — 3/4 Hr                                    |
|   | L Rating At Ambient — Less Than 5.1 L/s/m <sup>2</sup> |
|   | L Rating At 400 F — Less Than 5.1 L/s/m <sup>2</sup>   |



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. **Steel Deck/Floor Assembly** — The floor assembly shall consist of a fluted steel deck/concrete floor assembly. The floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units\*** — Max 3 in. (76 mm) deep galv fluted units.

B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units. Max diam of opening is 5 in. (127 mm).

2. **Through Penetrant** — One nonmetallic pipe centered in the firestop system. The annular space between the penetrant and the periphery of opening shall be nom 1/4 in. (6 mm). Penetrant to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipe may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. **Rigid Nonmetallic Conduit+** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS 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. **Fill, Void or Cavity Materials\*** — Two layers of nom 2 mm thick by 3 in. (76 mm) wide intumescent joint strip tightly wrapped around the outer circumference of the pipe with ends butted and held in place with tape. Joint strip slid into the annular space and recessed 1/2 in. (13 mm) from top surface of floor.

**RECTORSEAL** — Metacaulk Joint Strip, Flame Safe Joint Strip, Biostop Joint Strip

B. **Fill, Void or Cavity Material\*** — **Caulk** — Min 1/2 in. (13 mm) thickness of fill material applied at the joint strip/wall interface on both sides of the wall assembly.

**RECTORSEAL** — Metacaulk 1000, Metacaulk 350i, Biostop 500+, Biostop 350i, or FlameSafe FS1900

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

+Bearing the UL Listing Mark