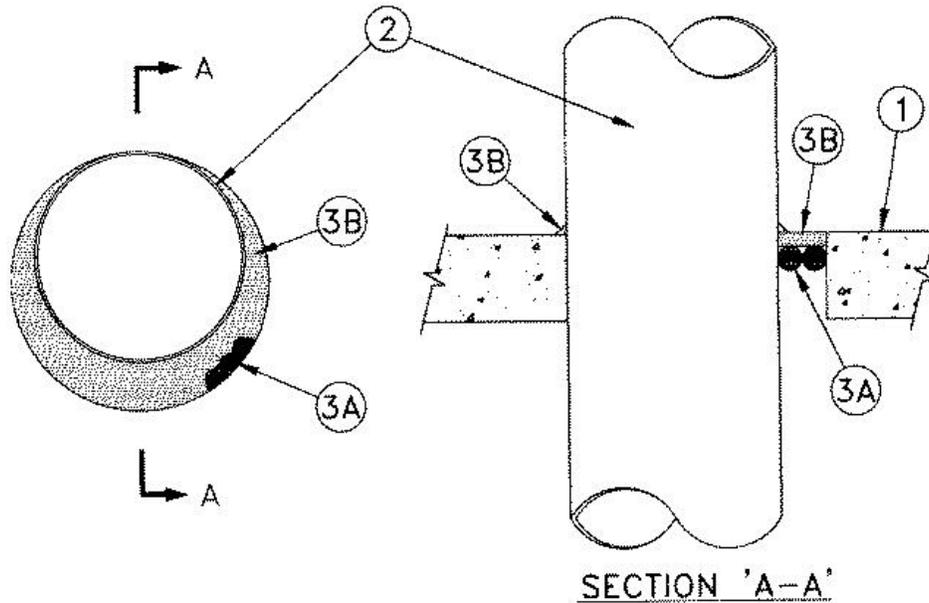


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 0 Hr
	FTH Rating — 0 Hr



1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced light weight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of any 6 in. thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 24-7/8 in. (632 mm). When precast concrete units are used the max diam of opening is 7 in. (178 mm).

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

2. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be min 0 in. to max 7/8 in. (22 mm) The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
- C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
- D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

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

A. **Packing Material** — Foam backer rod firmly packed into opening as a permanent 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.

B. **Fill, Void, or Cavity Materials* - Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor, or with both surfaces of wall. Min 1/4 (6 mm) in. thick crown of the fill material shall be applied around the entire circumference of the penetrant at the top surface of floor or both surfaces of wall. In floors of precast concrete units, material shall be installed symmetrically on both sides of the floor.

RECTORSEAL — FlameSafe® **FS900+**, FlameSafe **FS1900**, **Metacaulk MC 150+**, **Metacaulk 1000**, **Metacaulk 350i**; Biostop **BF 150+**, Biostop 350i or Biostop 500+

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



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