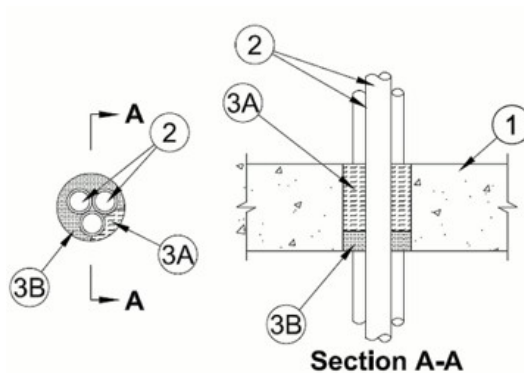


July 14, 2026

ANSI/UL 1479
F Rating - 2 Hr
T Rating -0 or 2 Hr (See Item 1A)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



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. (See Item 2)

1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core Precast Concrete Units*. Max diam of opening is 3-1/2 in. (89 mm).

See **Concrete Blocks** (CAZT) in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve (Optional, Not Shown)**— Required for use with hollow Concrete Blocks or hollow core Precast Concrete Units, optional for solid block or solid wall construction. Nom 3-1/2 in. (89 mm) diameter (or smaller) 30 gauge or (or heavier) galv steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

When Steel Sleeve is used, T Rating is 0 hr.

2. **Through Penetrant** — One type of one or more nonmetallic pipes or tubes to be installed within the firestop system. The annular space between the pipe or tube and the periphery of the opening shall be min 1/4 in. (6 mm) to max 1-1/8 in. (29 mm). The space between the pipes or tubes shall be min 1/4 in. (6 mm). Pipes, conduits or tubing to be rigidly supported on both sides of the floor assembly. The following types and sizes of nonmetallic pipes, conduits and tubes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 1 in. (25 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe for use in closed (process or supply) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 1 in. (25 mm) diam (or smaller) Schedule 40 or SDR13.5 chlorinated polyvinyl chloride (CPVC) pipe for use in closed (process or supply) piping systems.

C. **Cross Linked Polyethylene (PEX) Tubing** — Nom 1 in. (25 mm) diam (or smaller) SDR9 PEX tubing for use in closed (process or supply) piping systems.

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

A. Packing Material — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation compressed 50% and tightly packed into opening. Packing material recessed 1 in. (25 mm) from the bottom surface of the floor or both surfaces of the wall.

B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material installed within annulus, flush with bottom surface of floor or both surfaces of the wall. In floors constructed of precast hollow core units, fill material installed symmetrically on both sides of floor, flush with each surface of the floor.

RECTORSEAL — [Metacaulk 1000](#)

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