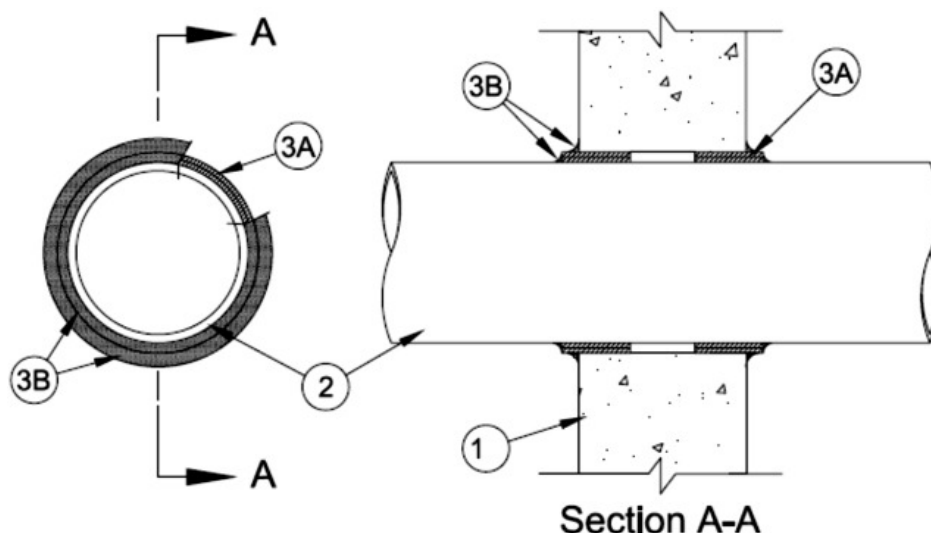


F Rating — 2 Hr
T Rating — 2 Hr
L Rating at Ambient — Less than 1 CFM/ft²
L Rating at 400° F — Less than 1 CFM/ft²



1. **Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 5 in. (127mm).

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

2. **Through Penetrant** — One nonmetallic pipe, or tube to be installed eccentrically or concentrically within the firestop system. Annular space to be min 1/4 in. (6 mm) to max 1-1/4 in. (32 mm). Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes and tubes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 (or heavier) solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

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

A. **Fill, Void or Cavity Material* - Wrap Strip** — One layer of nom 1/4 in. (6 mm) thick by 2 in. (51 mm) wide intumescent wrap strip wrapped around the outer circumference of the pipe and slid into the annular space such that wrap strip protrudes 1/4 in. (6 mm) from both surfaces of wall. Wrap strip secured with tape or tie wire.

RECTORSEAL — [Metacaulk Wrap Strip](#), Biostop Wrap Strip, FlameSafe Wrap Strip.

B. **Fill, Void or Cavity Material* - Sealant** — Min 1/2 in. (13 mm) crown bead of fill material applied at the pipe/wrap strip interface. Min 1/2 in. (13 mm) depth of sealant to be placed within any annular spaces between the wrap strip and the periphery of opening.

RECTORSEAL — [Metacaulk 1000](#), Biostop 500+, FlameSafe 1900

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