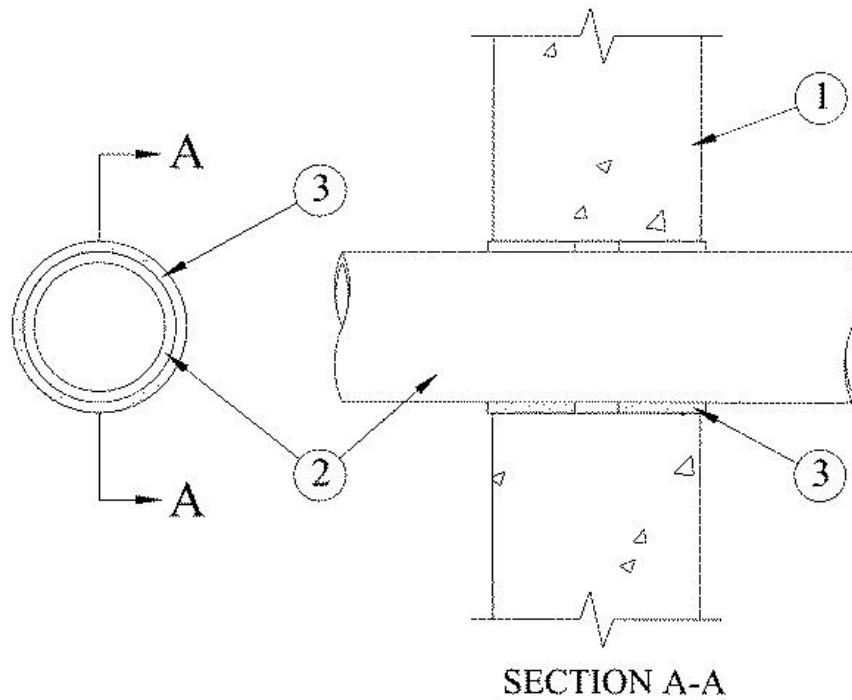


F Rating — 1 Hr
T Rating — 1 Hr



1. **Wall Assembly** — Min 4-3/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 4 in.

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

2. **Nonmetallic Penetrant** — One nonmetallic penetrant to be installed either concentrically or eccentrically within the firestop system. The annular space between the nonmetallic penetrant and periphery of opening shall be 1/4 in. Through-penetrant shall be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic penetrants may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — - Nom 3 in. 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 systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 3 in. diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Material - Wrap Strip** — Nom 1/4 in. thick by 2 in. wide intumescent wrap strip. The wrap strip is wrapped around the outer circumference of the pipe once and secured with tape or tie wire. Wrap strip slid into annular space such that edge projects 1/8 in. beyond surface of wall. Wrap strip installed on each surface of wall.

RECTORSEAL — [Metacaulk Wrap Strip](#)

*,+ 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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