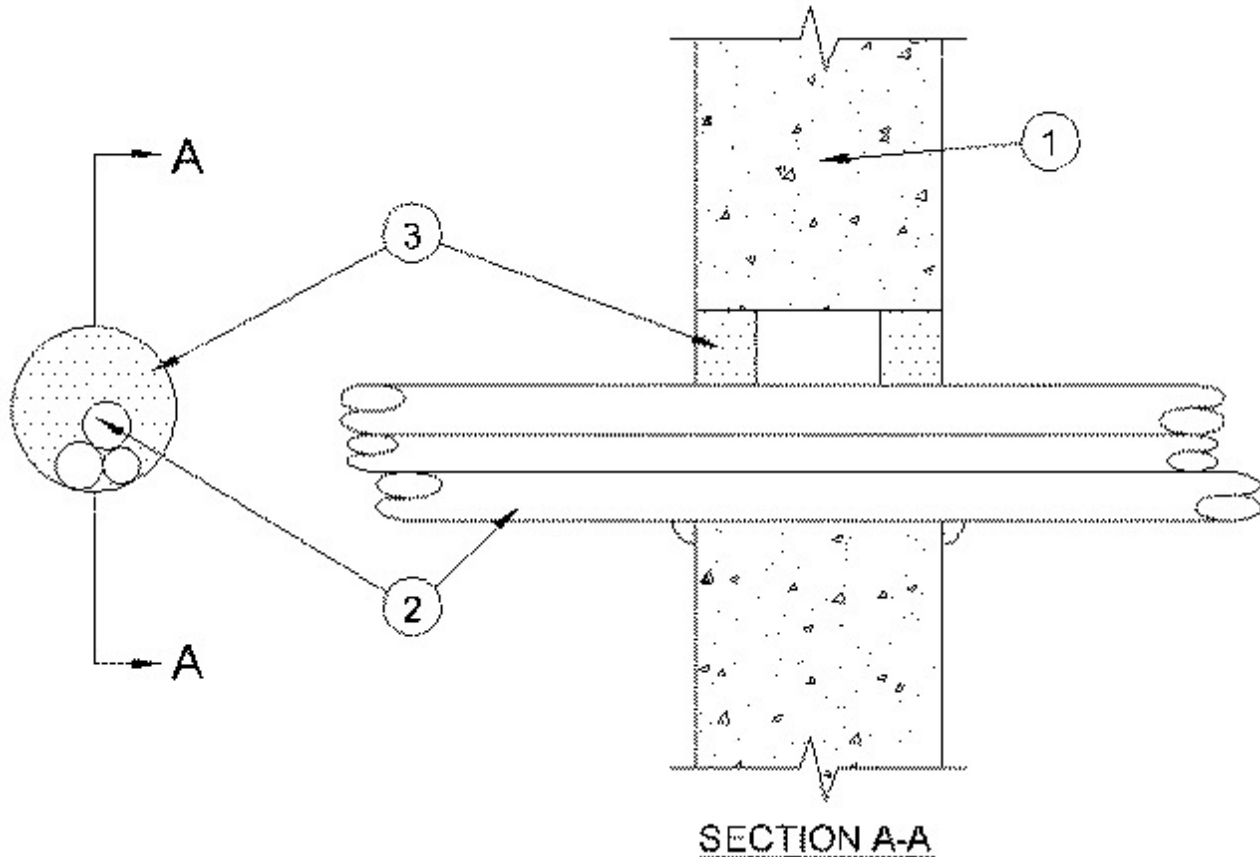


System No. W-J-2143

December 04, 2003

F Rating — 2 Hr

T Rating — 0 Hr



1. **Wall Assembly** — Min 6 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** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through-Penetrants** — Multiple nonmetallic pipes, tubing or conduit installed within opening. Aggregate cross-sectional area of penetrants in opening to be max 33 percent of the aggregate cross-sectional area of the opening. Annular space between pipes, tubing or conduit and edge of opening shall be min 0 in. (point contact) to max 1 in. Separation between pipes, tubing or conduit shall be min 0 in. (point contact). Pipes, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types of pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 1-1/2 in. diam (or smaller) Schedule 40 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 1-1/2 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. **Rigid Nonmetallic Conduit+** — Nom 1-1/2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

D. **Crosslinked Polyethylene (PEX) Tubing** — Nom 1 in. diam (or smaller) SDR 7.3 or 9 PEX tubing for use in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Material* - Sealant** — Min 5/8 in. thickness of sealant applied within annulus, flush with both surfaces of wall assembly.

RECTORSEAL — BF 150+

*Bearing the UL Classification Mark