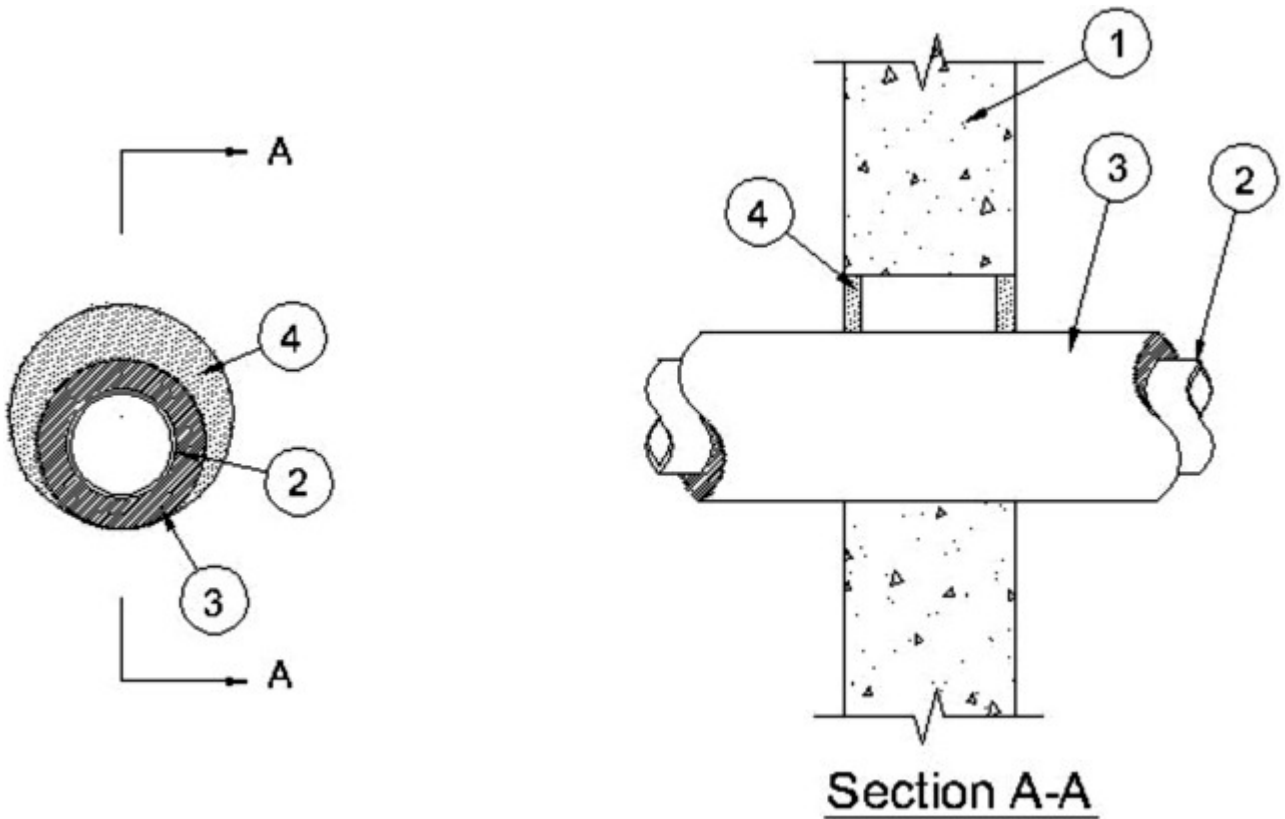


System No. W-J-5144

October 20, 2008

F Rating — 2 Hr

T Rating — 1 Hr



1. **Wall Assembly** — Min 4-1/2 in. (114 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 8 in. (203 mm).

2. **Through Penetrants** — One metallic pipe, tube or conduit installed within the firestop system. Pipe, tube or conduit to be rigidly supported on both sides of wall assembly. The following types of metallic pipes or tubes may be used:

A. **Copper Tubing** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

B. **Copper Pipe** — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. **Steel Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. **Iron Pipe** — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

E. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.

3. **Pipe Covering*** — Nom 1 in. (25 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. An annular space of min 0 in. (point contact) to max 1-7/8 in. (48 mm) is required within the firestop system.

4. **Fill, Void or Cavity Materials*** — Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall assembly.

FLAME TECH INC — Firestop 814+