

## Through-penetration Firestop Systems

System No. W-J-5141

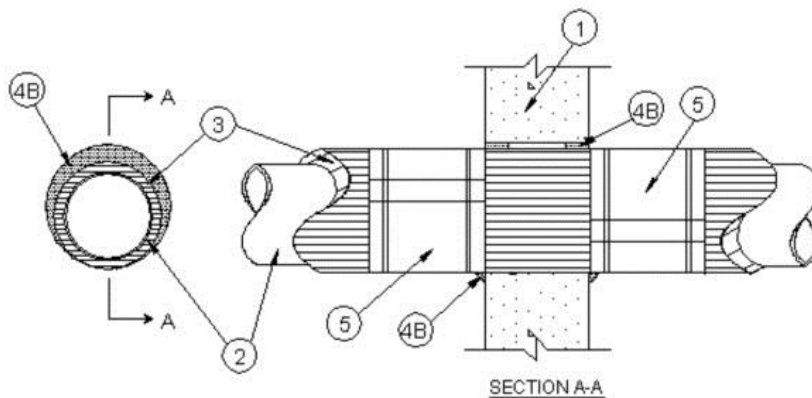
June 24, 2008

**F Rating — 2 Hr**

**T Rating — 1 Hr**

**L Rating at Ambient — Less than 1 CFM/sq ft**

**L Rating at 400° F — Less than 1 CFM/sq ft**



1. **Wall Assembly** — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 18 in. (457 mm).

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

2. **Through Penetrant** — One metallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes may be used:

A. **Steel Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

3. **Through Penetrating Product\*** — **Cellular Glass Insulation** — Nom 3 in. (76 mm) thick cellular glass units sized to the outside diam of the through-penetrant and supplied in nom 24 in. (610 mm) long half sections or nom 18 in. (457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. The annular space between insulated pipe and periphery of opening shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

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

A. **Forms** — (Not Shown) — Used to prevent the leakage of fill material during installation is 2 hr fire-rated assemblies. Forms to be rigid sheet material or polyurethane backer rod, cut to fit the contour of the insulated through penetrant and friction fitted into the opening on both sides of wall. Forms to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials\*** — **Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus flush with both surfaces of wall.

**ACCUMETRIC L L C** — Boss 816

\*Bearing the UL Classification Mark