**System No. W-J-5149**

February 18, 2010
F Rating – 2 Hr
T Rating – 2 Hr

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1. **Wall Assembly** – Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150pcf or 1600 - 2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks**. Diam of wall opening to be equal to the outside diam of insulated pipe or tube.

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

2. **Through Penetrant** – One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:
   - **A. Steel Pipe** – Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   - **B. Iron Pipe** – Nom 2 in. (51 mm) diam (or smaller) cast or ductile iron pipe.
   - **C. Copper Pipe** – Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
   - **D. Copper Tube** – Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tube.

3. **Pipe Covering** – Nom. 1-1/2 in. (38 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. The annular spacing between pipe covering and periphery of opening shall be min. 0 in. (continuous point contact).

   See **Pipe and Equipment Covering-Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material** – Min 1/2 in. (13 mm) thickness of fill material applied at the pipe covering/gypsum board interface to lap onto the wall surfaces on both sides of wall.

   **3M COMPANY**

   **3M FIRE PROTECTION PRODUCTS** – Type CP-25WB+ Caulk, FB-3000WT Sealant

*Bearing the UL Classification Mark*