



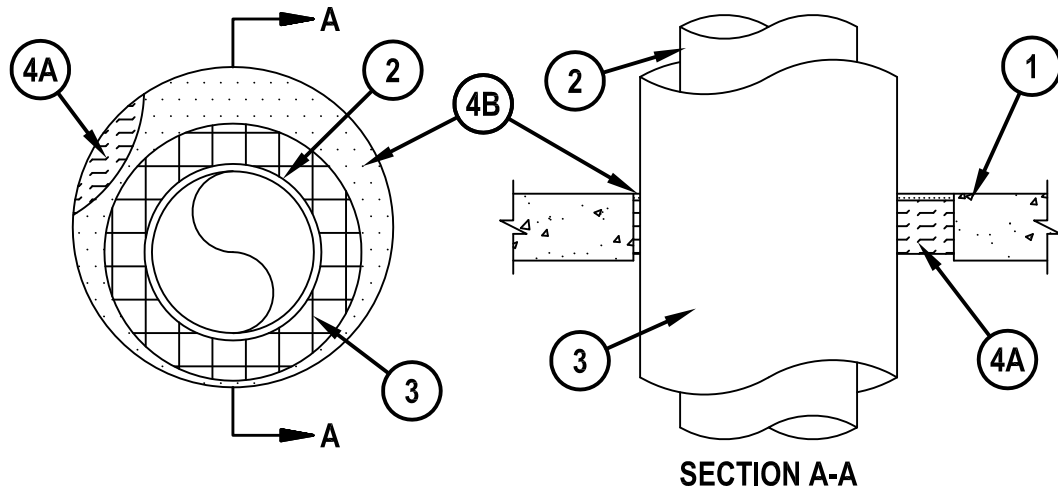
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. F-A-5004

F Rating - 2 Hr
FT Rating - 3/4 Hr
FH Rating - 0 Hr
FTH Rating - 0 Hr



FA 5004



- 1. Floor Assembly** — Min 64 mm (2-1/2 in.) thick reinforced lightweight or normal weight 1600-2400 kg/m³ (100-150 pcf) concrete. Max diam of opening is 305 mm (12 in.).
- 2. Metallic Pipes** — One metallic pipe to be installed eccentrically or concentrically within the firestop system. Pipe to be rigidly supported on both sides of the floor assembly. The following types and sizes of metallic pipes may be used:
- A. Steel Pipe — Nom 152 mm (6 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 152 mm (6 in.) diam (or smaller) cast iron or ductile iron pipe.
- 3. Pipe Covering*** — Nom 38 mm (1-1/2 in.) thick hollow cylindrical heavy density min 56 kg/m³ (3.5 pcf) 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 space within the firestop system shall be min 6 mm (1/4 in.) to a max 206 mm (8-1/8 in.).
- 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 value of 25 or less and a Smoke Developed value of 50 or less may be used.
- B. Pipe Covering Materials*** — Nom 38 mm (1-1/2 in.) thick unfaced mineral fiber pipe insulation having a nom density of 56 kg/m³ (3.5 pcf) or heavier and sized to fit the outside diam of pipe or tube. Pipe insulation secured with min 18 SWG steel wire spaced 305 mm (12 in.) OC. The annular space within the firestop system shall be min 6 mm (1/4 in.) to a max 206 mm (8-1/8 in.).
- IIG MINWOOL L L C** — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc
- 3B1. Sheathing Material** — (Not shown) — Optionally, used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 3B) with the kraft side exposed. Longitudinal joints sealed with metal fasteners.
- See Sheathing Materials (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.
- 4. Firestop System** — The firestop system shall consist of the following:
- A. Packing Material — Min 51 mm (2 in.) thickness of min 64 kg/m³ (4 pcf) mineral wool batt insulation tightly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* - Sealant — Min 6 mm (1/4 in.) thickness of fill material applied within the annulus, flush with the top surface of floor.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — CP 604 Self-Leveling Firestop Sealant, CFS-S SIL GG or CFS-S SIL SL Sealant
- *Bearing the UL Classification Mark



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
December 26, 2013