

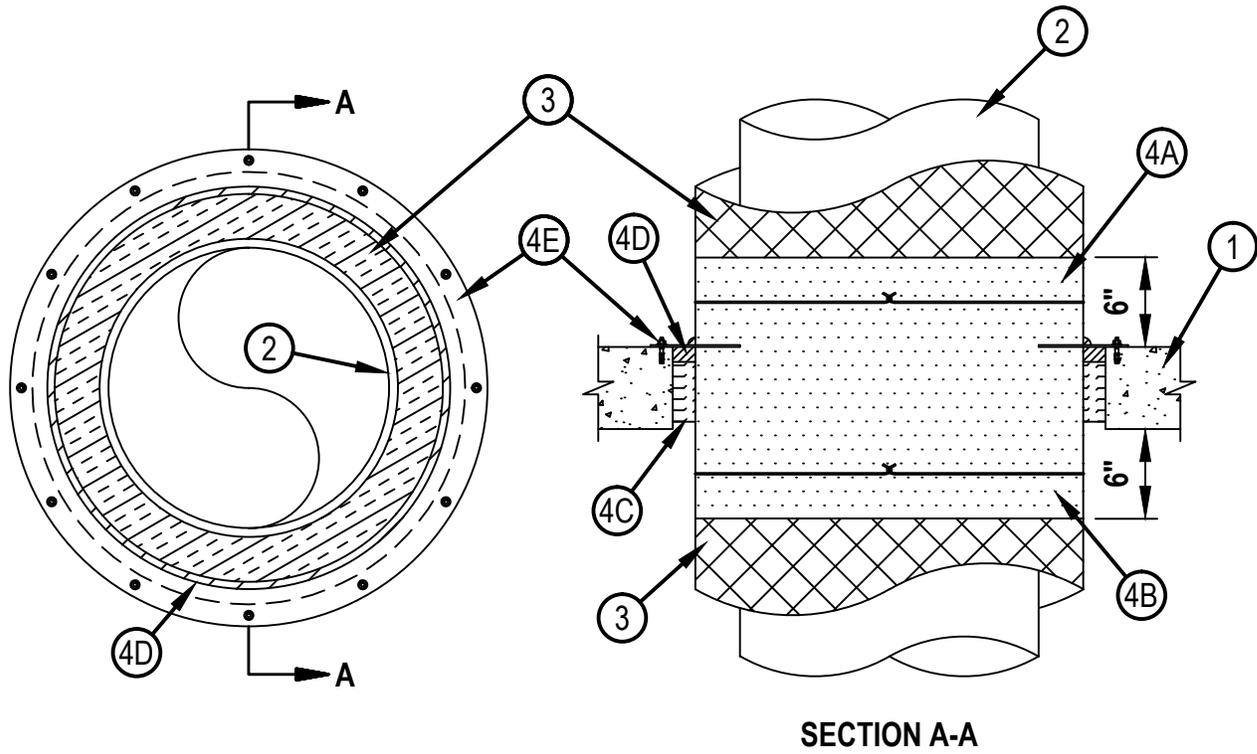


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-BJ-5006

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 4 Hr	F Rating - 4 Hr
T Rating - 1/2 Hr	FT Rating - 1/2 Hr
	FH Rating - 4 Hr
	FTH Rating - 1/2 Hr

CBJ 5006



1. Floor or Wall Assembly — Min 5-1/2 in. (140 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 6 in. (152 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
See Concrete Blocks (CAZT) category in Fire Resistance Directory for names of manufacturers.
2. Through-Penetrants — One metallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes may be used:
A. Steel Pipe — Nom 20 in. (508 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
3. Pipe Covering — Max 3 in. (76 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) 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. Pipe covering to terminate min 6 in. from each side of floor or wall assembly.
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.



Hilti Firestop Systems

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

A. Pipe Covering* — Max 3 in. (76 mm) thick hollow cylindrical heavy density (min 5.2 pcf) unfaced mineral wool units extending min 6 in. (152 mm) beyond each surface of the floor or wall. Pipe covering secured with No. 18 gauge tie wire 3 in. (76 mm) beyond each surface of the concrete slab. The annular space shall be min 1 in. (25 mm) to max 2-1/4 in. (57 mm).

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.

B. Sheathing Material* — All service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 4A) with kraft facing exposed. Longitudinal joints sealed with metal fasteners.

See Sheathing Material (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 Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

C. Packing Material — Min 4 in. thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

D. Fill, Void or Cavity Material* — Caulk — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. A min 1/2 in. (13 mm) diam bead fill material to be installed at interface of pipe covering and metal cover plate (Item No. 4E) and over butted seams of metal cover plate.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

E. Metal Cover Plate — Two piece cover plate of min 18 gauge steel with I.D. same as O.D. of pipe, conduit or tubing. O.D. of cover plate to be sized to overlap the periphery of opening a min 1-1/2 in. (38 mm). Installed at top surface of floor or both sides of wall. Two pieces to be butted together around perimeter of pipe, penetrating the sheathing material and pipe covering (Item Nos. 4B and 4A) to fully contact the pipe. Secured with 1/4 in. (6 mm) diam by min 1 in. (25 mm) long steel expansion bolts, or equivalent, in conjunction with steel nuts and washers a max of 1 in. (25 mm) from each side of each seam and a max of 4 in. (102 mm) OC throughout.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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