

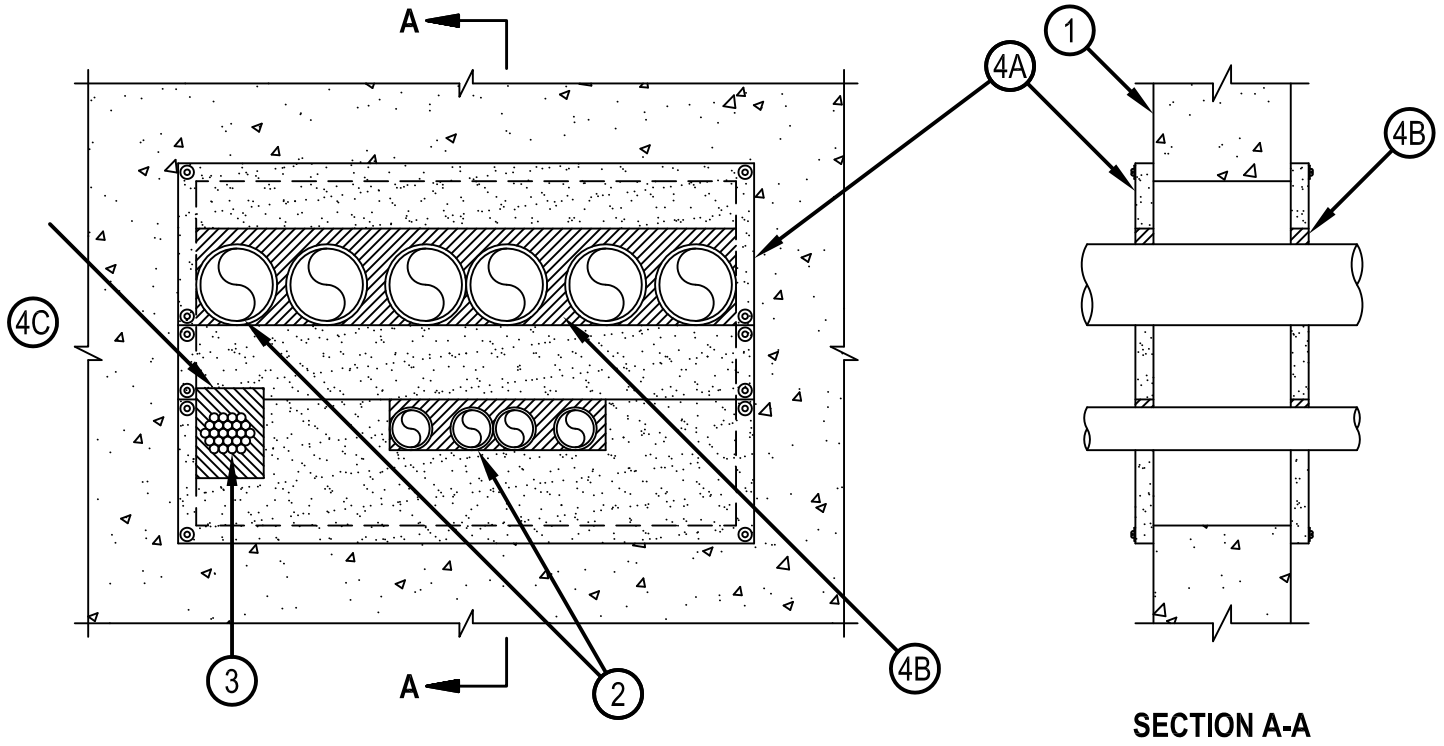


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-8034

WJ 8034

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



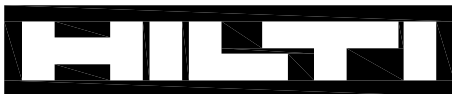
SECTION A-A

1. Wall Assembly — Min 6 in. (152 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*. The max area of opening shall be 765 sq in. (4935 cm²) with max dimension of 40 in. (1016 mm).

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

2. Through Penetrants — Max of ten metallic through penetrants to be installed within the opening. Of the ten penetrants, a max of six through penetrants shall have a nom diam greater of greater than 2 in. (51 mm). The annular space between the through penetrants and the cut out of the board (Item 4A) shall be a min 0 in. (point contact) to a max 1 in. (25 in.). Annular space between through penetrants shall be a min 0 in. (point contact) to a max 1 in. (25 mm). Through penetrants to be rigidly supported on both sides of the wall. The following types of through penetrants may be used:

- A. Nom 4 in. (102 mm) diam (or smaller) rigid galv steel conduit.
- B. Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
- C. Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.



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3. Cables — Max of one 4 in. (102 mm) (or smaller) diam tightly bundled cables installed within the opening and rigidly supported on both surfaces of wall. Annular space between cut out of board (Item 4A) and cable bundle shall be 0 in. (point contact) to max 1 in. (25 mm). Any combination of the following types and sizes of cables may be used:

- A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
- B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
- C. Type R GU/59 polyethylene coaxial cable with polyethylene insulation and PVC.
- D. Through Penetrating Product* — Max 3/C No. 8 AWG (or smaller) metal-clad cable or armored cable. Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category.
See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
- E. Max 3/C (with ground) No. 8 AWG (or smaller) copper conductor non-metallic sheathed (Romex) cable with PVC insulation and jacket.
- F. Max 5/8 in. (16 mm) diam fiber-optic cable with PVC insulation and jacket.

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

- A. Firestop Device* — Board — Min 1 in. (25 mm) thick board to be installed on each side of wall with min 1 in. (25 mm) overlap onto wall and tightly butted seams. Board to be attached around entire perimeter using min 3/16 in. by 2-1/4 in. (5 mm by 57 mm) long steel concrete screw anchors with 1-1/4 in. (32 mm) OD steel fender washers at each corner and spaced maximum 8 in. (203 mm) OC in between.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP675T Firestop Board
- B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus between the metallic through penetrants (Item 2) and the periphery of the board. Fill material flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
- C. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus between the cable bundle (Item 3) and the periphery of the board. Fill material flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 618 Firestop Putty Stick

* 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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