

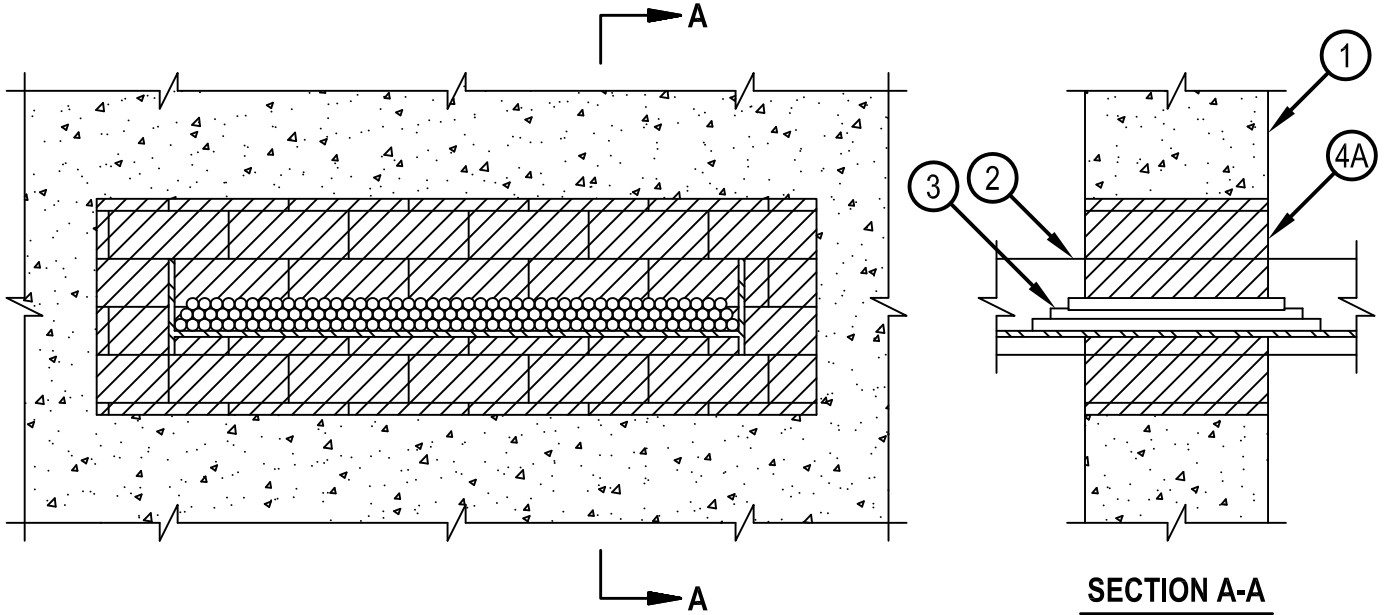


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-4027

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F - 2 CFM/sq ft

WJ 4027



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WJ 4027

1. Floor or Wall Assembly — Min 5 in. (127 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*. Max area of opening is 270 in² (1742 cm²) with max dimension of 30 in. (762 mm).

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

2. Cable Tray+ — Max 24 in (610 mm) wide by 4 in. (102 mm) deep open-ladder cable tray with channel-shaped side rails formed of 0.10 in. (2.54 mm) thick aluminum or 0.060 in. (1.52 mm) thick steel and with 1 in. (25 mm) wide by 1 in. (25 mm) deep tubular channel-shaped rungs spaced 9 in. (229 mm) OC. The annular space to the periphery of the opening shall be min 1 in. (25 mm) to max 4 in. (102 mm). Cable tray to be rigidly supported on both sides of wall assembly.

3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 40 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:

A. 1/C, 750 kcmil (or smaller) power cable with polyvinyl chloride (PVC) insulation and jacket.

B. 300 pair - No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

C. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.

D. 3/C No. 12 AWG with polyvinyl chloride (PVC) insulation in a nom 3/4 in. (19 mm). Flexible Metal Conduit+.

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

A. Fill, Void or Cavity Material* - Fire Blocks — For reinforced concrete and solid filled concrete block wall assemblies, fire blocks installed centered within depth of opening with the long dimension placed horizontally. For hollow core block walls, blocks installed with long dimension passing through the opening from surface to surface. Blocks to be firmly packed and completely fill the entire opening. Either one or a combination of the block types specified below may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block

B. Fill, Void or Cavity Material* - Sealant or Putty - (Not Shown) — Fill material to be forced into interstices of cables, between cables and cable tray an in obvious openings between blocks and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS ONE MAX Intumescent Sealant or CP618 Firestop Putty Stick (Note: L Ratings apply only when FS-ONE Sealant is used)

+Bearing the UL Listing Mark

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



Hilti Firestop Systems

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Page: 2 of 2