

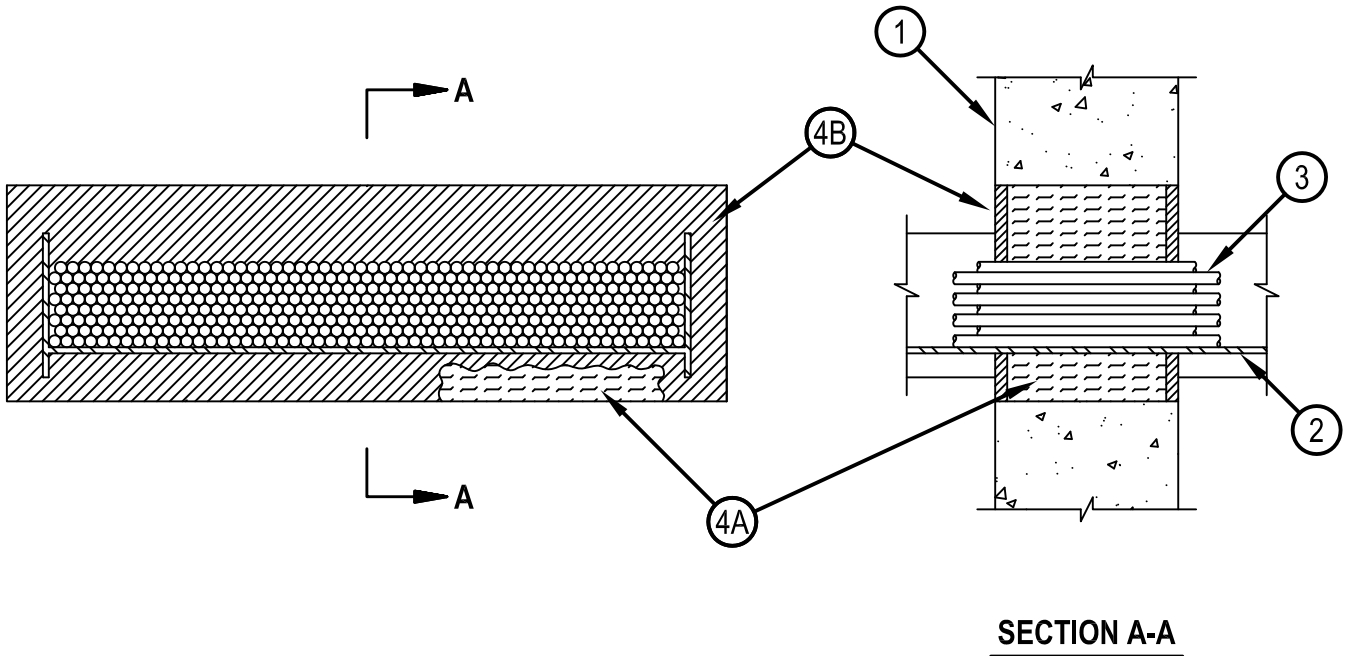


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

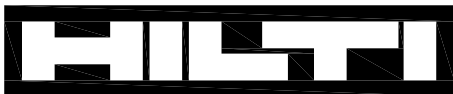
System No. W-J-4059

WJ 4059

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



1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf) 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) wide. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray — Max 24 in. (610 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed of min 0.060 in. (1.5 mm) thick galv steel or aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. The annular space between the cable tray and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 3 in. (76 mm). Cable tray to be rigidly supported on both sides of wall assembly.



Hilti Firestop Systems

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3. Cables — Aggregate cross-sectional area of cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 5 in. (127 mm) loading depth. Any combination of the following types and sizes of cables may be used:
- A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 750 kcmil single conductor copper power cable with PVC jacket material.
 - C. Multiple fiber optical communication cable with PVC jacket and having a max OD of 1/2 in. (13 mm).
 - D. Through Penetrating Product* — Max 3/C No. 12 AWG (or smaller) 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.

4. Firestop System — The firestop system shall consist of the following:
- A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/through penetrant interface at the point contact location on both surfaces of wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

+ Bearing the UL Listing Mark



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