

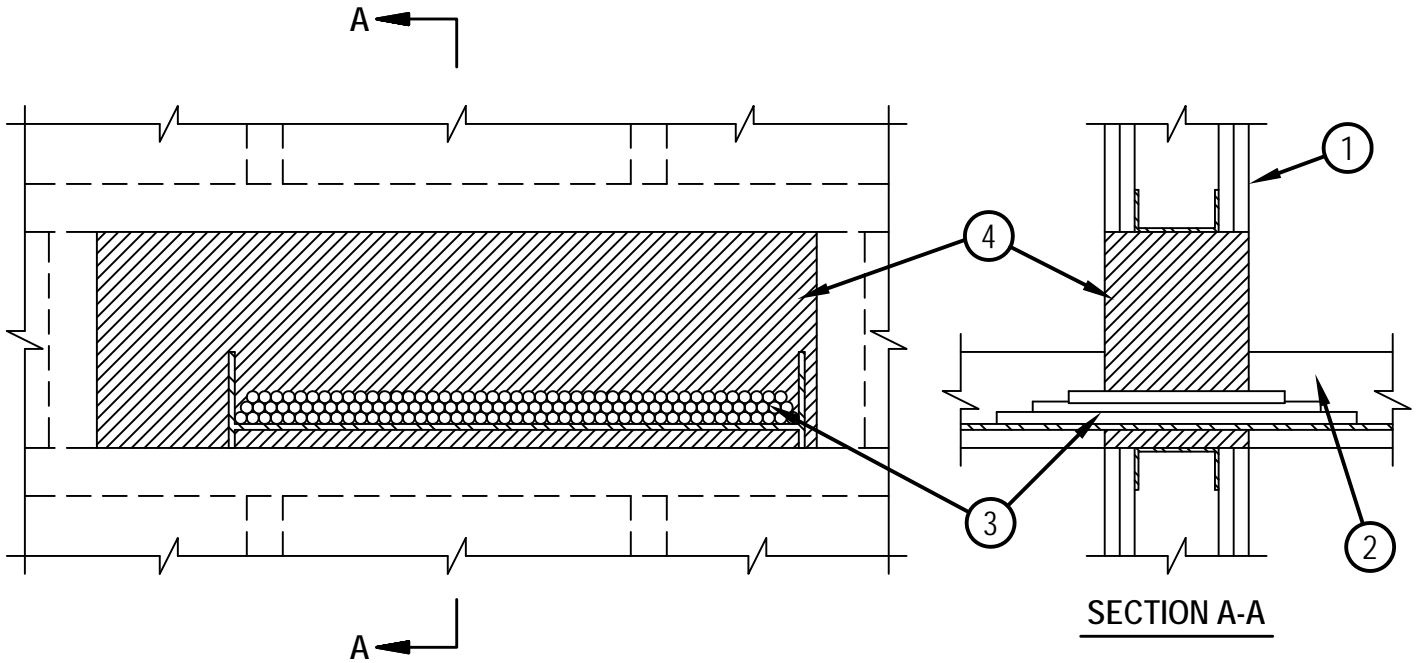


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to UL 1479 and CAN/ULC-S115

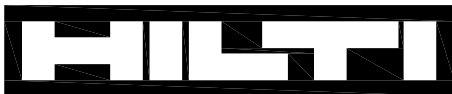
System No. W-L-4034

WL 4034

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 4)	F Ratings — 1 and 2 Hr (See Items 1 and 4)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Items 1 and 4)
	FTH Rating — 0 Hr



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features.
 - A. Studs — Steel studs, min 3-1/2 in. (89 mm) deep, fabricated from 25 MSG galv steel, spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.
 - B. Gypsum Boards* — The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 270 sq in. (1742 cm²) with max dimension of 30 in. (762 mm).
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
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 (2.54 mm) thick aluminum and 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shaped rungs spaced on 9 in. (229 mm) OC. The annular space between cable tray and periphery of opening shall be min 0 in. (point contact) to max 5 in. (127 mm). Cable tray to be rigidly supported on both sides of wall assembly.
3. Cables — Aggregate cross-sectional area of cable tray to be max 45 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 500 kcmil single conductor power cable with PVC jacket material.
 - C. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 3/8 in. (9.5 mm).
 - D. Max 3/C No. 12 AWG copper conductor steel clad cable with PVC insulation material.



Hilti Firestop Systems

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	FTH Rating — 0 Hr

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

A. Fill, Void or Cavity Material — Foam — Fill material applied within annulus, flush with both surfaces of the wall. Min fill material thickness for 1 Hr F Rating is 4-3/4 in. (121 mm) Min fill material thickness for 2 Hr F Rating is 6 in. (152 mm).

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP620 FIRE Foam

B. Fill, Void or Cavity Material* — Fire Blocks — (Optional — Not Shown) — Nom 2 in. (51 mm) deep Fire Blocks applied in a single layer above cables within cable tray with 5 in. (127 mm) dimension projecting through opening in wall and long dimension parallel to wall. 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

*Bearing the UL Classification Mark



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