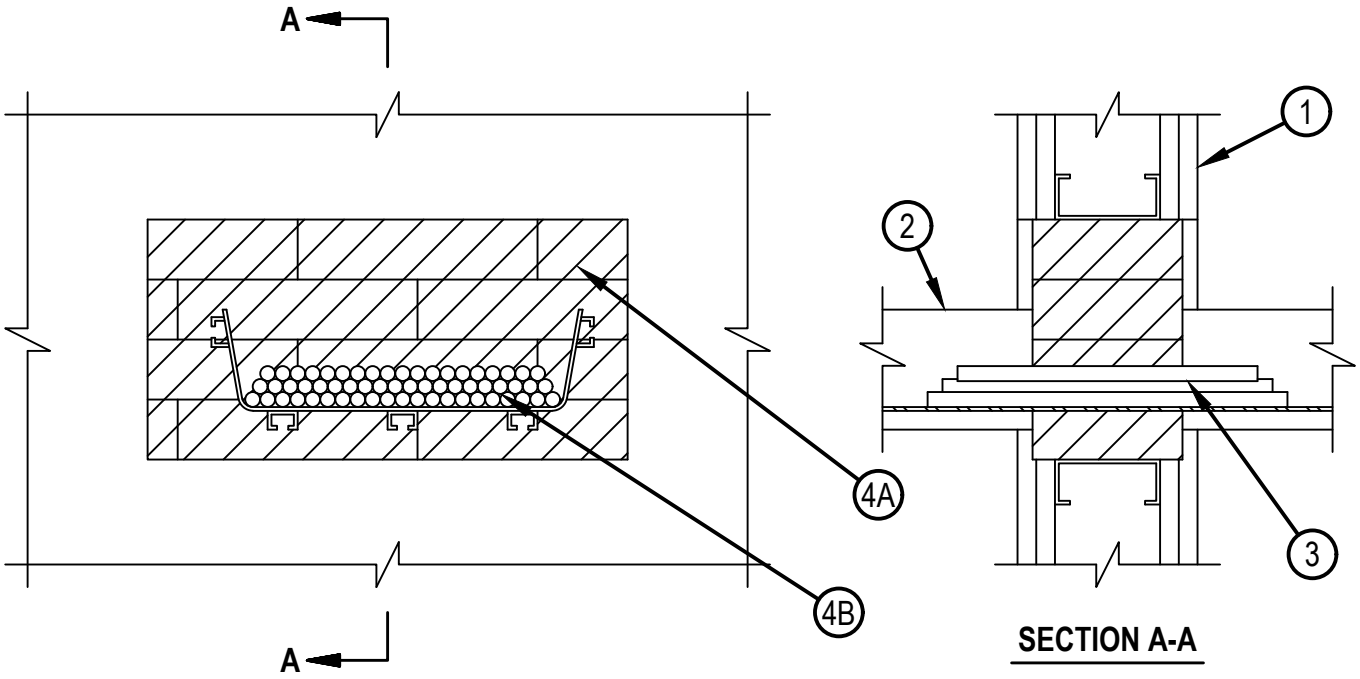
System No. W-L-6017

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

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 1-1/2 Hr (See Item 1)	FT Ratings — 1 and 1-1/2 Hr (See Item 1)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 1 and 1-1/2 Hr (See Item 1)



SECTION A-A

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 specified if the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide, fabricated from min 25 ga galvanized steel, spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 128 sq in. (826 cm2) with max dimension of 16 in. (406 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. The T, FT and FTH Ratings are 1-1/2 hr when installed in a 2 hr fire rated wall, and 1 Hr when installed in a 1 hr fire rated wall.
2. Optical Fiber/Communications Cable Raceways+ — Max 12 in. (305 mm) wide by 4 in. (102 mm) deep optical fiber/communications cable raceway, formed from Acrylonitrile Butadiene Styrene (ABS). The annular space between the cable raceway and the periphery of the opening shall be min 0 in. (point contact) to max 4 in. (102 mm). Raceway to be rigidly supported on both sides of wall assembly.

2A. Cover Plate (Optional) — Not Shown) — Sized to accommodate the raceway, formed from Acrylonitrile Butadiene Styrene (ABS). When cover plate extends through the firestop system, Fire Blocks shall be tightly packed within the raceway to completely fill the annular space and all voids filled, prior to the installation of the cover plate.

3. Fiber Optic Cables — Multiple fiber communication cable jacketed on the outside with polyvinyl chloride (PVC) and having a max outside diam of 1/2 in. (13 mm). Aggregate cross-sectional area of cables in raceway not to exceed 40 percent of the cross-sectional area of the raceway.

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

A. Fill, Void or Cavity Material* — Fire Blocks — For walls incorporating max 3-5/8 in. (92 mm) steel studs or max 2 by 4 in. (51 by 102 mm) wood studs, fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. (13 mm) from surface of wall. When optional cover plate is used with communications raceway, blocks shall be placed within the raceway at the point of the penetration to fully fill the void between cables and cover plate. Blocks firmly packed within 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* — Fill material to be forced into interstices of cables, between cables and cable tray and 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, CP618 Firestop Putty Stick, CP 660 Firestop Foam or CP 620 Fire Foam

* 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