

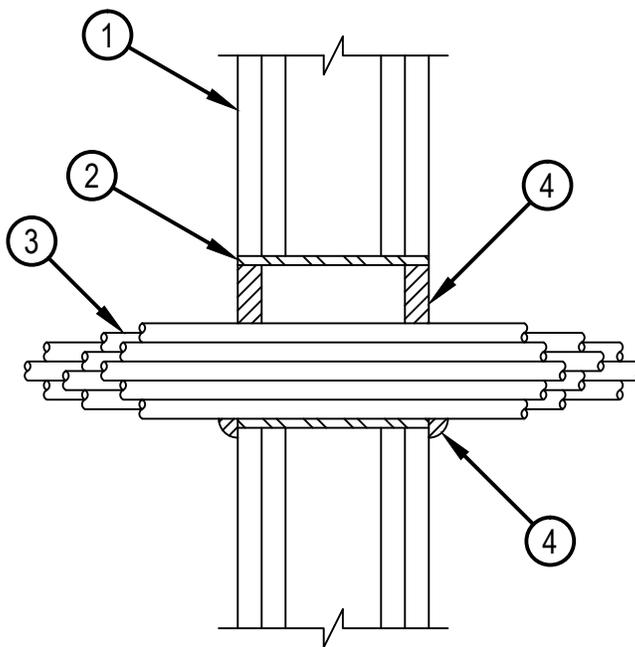


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-3213

WL 3213

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr
	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 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 MSG galvanized steel, spaced max 24 in. (610 mm) OC.
 - 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 diameter of opening is 4 in. (102 mm).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Non-Metallic Sleeve — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core polyvinyl chloride (PVC) pipe friction fit into wall flush with both surfaces of wall.
3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1-3/8 in. (35 mm). When the FS-One Sealant is used (Item 4), the max annular space is 1 in. (25 mm). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 500 kcmil power cable.
 - B. Max 100 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 - C. Type RG /U coaxial cable with polyethylene (PE) insulation and PVC jacket and having a max OD of 1/2 in. (13 mm).
 - D. Max 3/C No. 8 AWG steel clad cable.
 - E. Max 3/C No. 8 AWG (with ground) with PVC insulation and jacket.
 - F. Multiple fiber optical communication cable with PVC jacket with a max OD of 3/8 in. (9.5 mm)
 - G. Max 3/4 in. (19 mm) diam copper ground cable with PVC jacket.



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4. Fill, Void or Cavity Material* — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between cables/sleeve, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the cable /sleeve interface. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP618 Putty Stick, 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.

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Hilti Firestop Systems

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