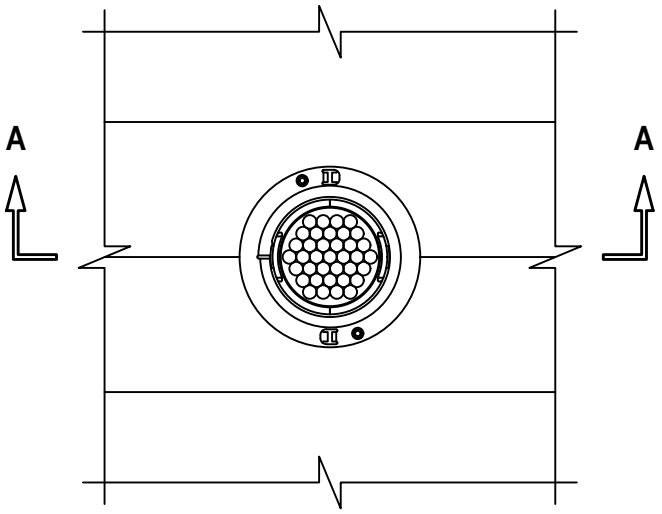
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

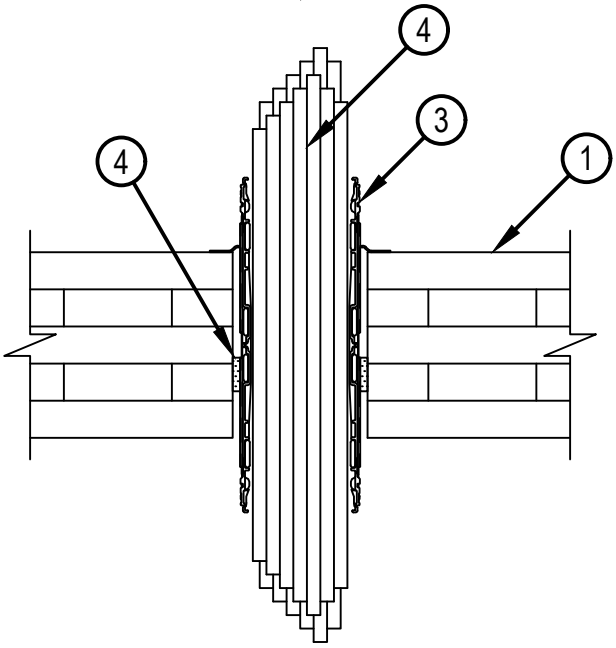
System No. F-G-3001

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 hr	F Rating —2 Hr
T Ratings — 1/2 or 1 Hr (See Item 4)	FT Ratings —1/2 or 1 (See Item 4) Hr
	FH Rating — 2 Hr
	FTH Ratings— 1/2 or 1 Hr (See Item 4)

TOP VIEW



SECTION A-A



Hilti Firestop Systems

System No. F-G-3001

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Floor Assembly — Min 6-7/8 in. (175 mm) thick, 5 ply cross laminated timber (CLT) panel, labeled Grade E1 in accordance with ANSI/APA PRG 320 as required by Chapter 6 of International Building Code (IBC) for Type IVA, IVB or IVC construction. The required hourly rating of the CLT floor shall be determined in accordance with Chapter 16 of the National Design Specification (NDS). Additional information regarding the use of CLT as permitted in the IBC is located in the XHEZ Guide Information. The indicated or calculated fire resistance rating of the assembly (Type IV A, B or C) to meet or exceed the F rating of the firestop system. CLT Panel to have a max through opening diameter of 5 in. (125 mm) to accommodate the penetrant.
2. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, twisted inner fabric smoke seal, flanges and gasketing material (not shown). Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal may remain open or may be twisted to completely close off the opening within device. Device slid into floor such that the bottom of the device may be installed flush or may project a max 1 in. (25.4 mm) bottom of the floor assembly. The top of the device is to extend a min 2 in. (51 mm) above the top of the floor. Device provided with flanges that are spun clockwise onto device threads, over gasketing material butting tightly to top of floor. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device flanges are to be secured to floor with min two, 1 in. (25.4mm) long wood screws except that for blank devices, min four screws shall be used. As an alternate to gasket material, fill material (Item 4) may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CFS-SL GA L Speed Sleeves, CP 653 4" BA ILS and CFS-SL GA L ILS Speed Sleeve
   The CFS-SL GA L and CFS-SL GA L ILS Speed Sleeves shall only be used in floor thickness of 8 in. (203 mm) or greater.
3. Fill, Void or Cavity Material* — Wrap Strip —Nom 3/16 in. (5 mm) thick by 1 in. (25.4 mm) wide intumescent wrap strip. One Layer wrapped around the device (Item 2) with the ends butted and held in place with tape and slid into the annular space. The bottom edge of the wrap strip shall be recessed 1-1/2 in. (38 mm) from the bottom surface of the floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648E Firestop Wrap Strip
4. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of floor assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 3/8 in. (10 mm).
   G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product*- Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
      AFC CBLE SYSTEMS INC
   I. Max. 1/4 in. (6 mm) diameter S-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket.
   J. Max 3/C No 12 AWG MC Cable.
      The T, FT and FTH Ratings are 1 hr except that, when Item 2H or 2J is used, the T, FT and FTH Ratings are 1/2 hr.

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