

Underwriters Laboratories, Inc. October 07, 2019

Hilti Firestop Systems

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System No. C-BJ-3043

C-BJ-3043

2. Within the loading area for the 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 or wall 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 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 1/2 in. (13 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 CABLE 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. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.

See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

K. Max 3/C No 12 AWG MC Cable.

The T, FT and FTH Ratings for the firestop system are 2 hr except when cable types 2J or 2K are used, the T, FT and FTH Ratings are 0 hr.

See Table below for L Ratings.

		L Rating, CFM/Ft2 (L/s/m2)		L Rating, CFM (L/s)/Device	
Max Cable Fill	Cable Type	Ambient	400°F/204°C	Ambient	400°F
0%	-	1 (5.1)	2 (10.2)	Less than 1 (5.1)	Less than 1 (51.1)
100%	Any cables (Item 2) in any combination	7 (35.7)	7 (35.7)	Less than 1 (5.1)	Less than 1 (5.1)

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, tightly twisted inner fabric smoke seal, flanges and gasket material (not shown). Firestop device to be installed in accordance with the accompanying installation instructions. Device slid into floor or wall such that ends project an equal distance from the approximate centerline of the assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flange(s) that are spun clockwise onto device threads, over gasket material butting tightly to top side of floor or both sides of wall. In floors, device flange to be secured to floor with min two 1-1/4 in. (32 mm) long steel masonry screws or anchors. As an alternate to gasket material, sealant (Item 4) may be used. In floors, when FS-ONE Sealant is used and installed flush with bottom of floor, device flange shall be threaded tightly to bottom side of floor. As an option, in wall assemblies only, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within device.

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, CP 653 4" BA ILS and CFS-SL GA L ILS Speed Sleeve

4. Fill, Void or Cavity Material* — As an alternate to gasket material (see Item 3), min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and periphery of opening, flush with top surface of floor or both sides of wall. As an option, when FS-ONE MAX Sealant is used, the fill material can be installed flush with bottom of floor. For L Ratings when sealant is used, an additional 1/4 in. (6 mm) bead of fill material is applied at the device/floor or device/wall interface on top or bottom side of floor or both sides of wall assembly prior to installing flanges.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 618 Firestop Putty 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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