

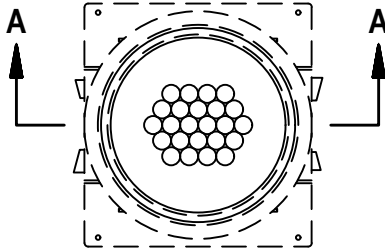


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

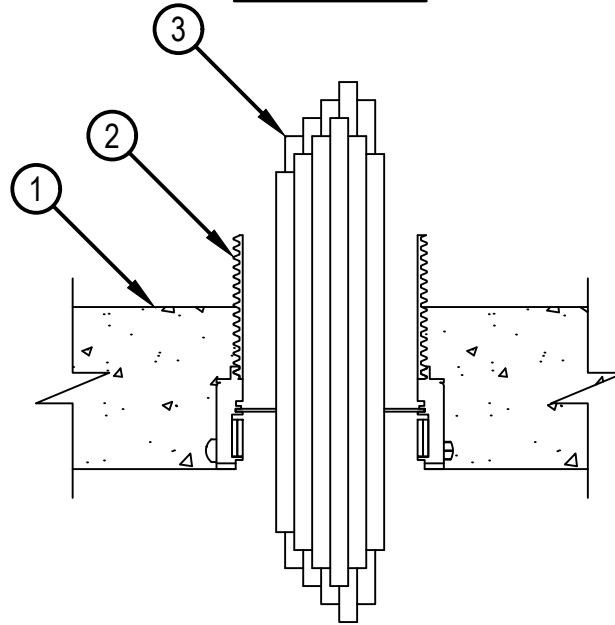
System No. F-A-3033

| | |
|-------------------------|---------------------|
| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
| F Rating — 3 Hr | F Rating — 3 Hr |
| T Rating — 1/4 Hr | FT Rating — 1/4 Hr |
| | FH Rating — 3 Hr |
| | FTH Rating — 1/4 Hr |

FA 3033



SECTION A-A



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
January 18, 2017

System No. F-A-3033

FA 3033

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:

A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-75/2.5"N, CP 680-110/4"N, CP682-72/2.5", CP682-110/4", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-PX 2", CP 680-PX 3"

3. Cables — Tight bundle of cables to be installed concentrically within firestop device and rigidly supported on both sides of the assembly. See Table below for diam of cable bundle. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 1/C 750 kcmil (or smaller) copper conductor cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

C. Max 300 pair No. 24 AWG telephone cable with PVC insulation and jacket.

D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 1/2 in. (13 mm).

E. Max 3/C No. 12 AWG with ground with or without PVC jacketed steel clad Type MC cable.

F. Through-Penetrating Product* - Any cable, metal-clad cable or armored cable Classified under the XHLY category.

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

The firestop device and max cable bundle diameter shall be sized as follows:

| Max Bundle Diam | Firestop Device |
|-----------------|--|
| 2 in. (51 mm) | CP 680-75/2.5"N, CP 682-75/2.5" |
| | CP 680-M 2", CP 680-P 2", CP 680-PX 2" |
| 3 in. (76 mm) | CP 680-75/4"N, CP 682-75/4" |
| | CP 680-M 3", CP 680-M 4", CP 680-P 3", CP 680-P 4", CP 680-PX 3" |

4. Fill, Void or Cavity Material* - Putty — (Not shown) Required when diam of bundle in 2.5 in. (64 mm) device is less than 2 in. (51 mm) and when diam of bundle in 3 in. (76 mm) device is less than 3 in. (76 mm) and when diam of bundle in 4 in. (102 mm) device is less than 3 in. (76 mm). Min 1 in. (25 mm) thickness of fill material applied within annulus flush with top surface of device.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick

4A. Packing Material — (Not Shown) As an alternate to Item 4, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool insulation firmly packed to the fullest extent possible within annulus flush with top surface of device.

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



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
January 18, 2017