

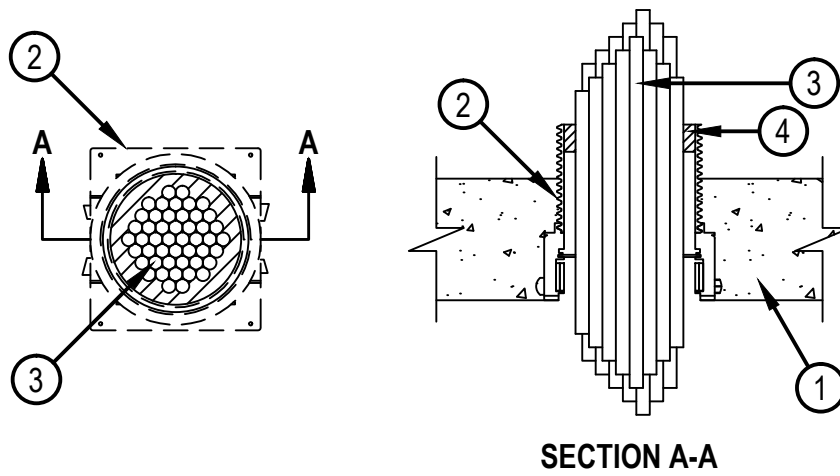


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-A-3007

FA 3007

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0, 1/4, 1/2 Hr (See Items 3 and 4)	FT Rating — 0, 1/4, 1/2 Hr (See Items 3 and 4)
	FH Rating — 3 Hr
	FTH Rating — 0, 1/4, 1/2 Hr (See Items 3 and 4)



1. Floor Assembly — Min 4-1/2 in. (114 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 4-1/2 in. (114 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, CP 680-160/6"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-P 6", CP 680-PX 2", CP 680-PX 3"
3. Cables — Cables to be rigidly supported on both sides of the assembly. 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 polyvinyl chloride jacketed steel clad Type MC cable.



Hilti Firestop Systems

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

Max Bundle Diameter	Firestop Device	T Rating-Hr
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"	1/4
3 in. (76 mm)	CP 680-75/2.5"N, CP 682-75/2.5" CP 680-M 3", CP 680-P 3", CP 680-PX 3"	1/2
4-1/2 in. (114 mm)	CP 680-110/4"N, CP 682-110/4" CP 680-M 4", CP 680-P 4"	1/2
6-1/2 in. (165 mm)	CP 680-160/6"N CP 680-P 6"	0

4. Fill, Void or Cavity Material* - Putty — Min 1 in. (25 mm) thickness of fill material applied within annulus flush with top surface of device. Fill material is optional for 2-1/2 (64 mm) diam (or larger) cable bundle installed in 3 in. device and 3 in. (76 mm) diam (or larger) cable bundle installed in 4 in. device and 2 in. (51 mm) diam (or larger) cable bundle installed in 2 in. or 2.5 in. device. The T Rating for the firestop system is 1/4 hr when fill material or packing material (Item 4 or 4A) is not used.

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

4A. Packing Material (Not Shown) — As an alternate to Item 4, min 2 in. 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.



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