

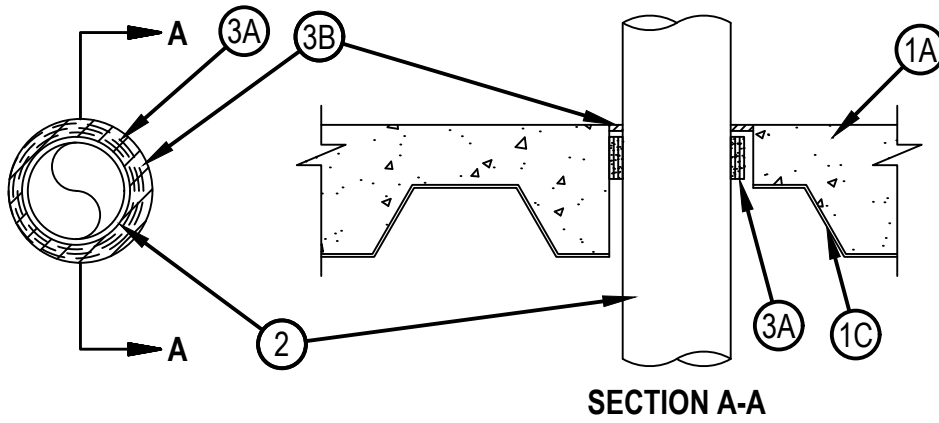


Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. F-A-2067

FA 2067

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1/4 Hr	FT Rating — 1/4 Hr
W Rating — Class 1 (See Item 2B)	FH Rating — 2 Hr
	FTH Rating — 1/4 Hr



SECTION A-A

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.

- Floor Assembly — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
 - Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
 - Welded Wire Fabric — (Not Shown) 6 x 6 - W1.4 x W1.4
 - Steel Floor and Form Units* — Composite or noncomposite max 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor assembly is 6 in. (152 mm).
- Through Penetrants — One nonmetallic pipe to be centered within the firestop system. Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.



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3. Firestop System — The details of the firestop systems shall be as follows:

A. Fill, Void or Cavity Material* — Wrap Strip — Nom 3/16 in. (5 mm) thick by 1-3/4 in. (44 mm) wide intumescent wrap strip. The layers of wrap strip are continuously wrapped around pipe with ends held in place with tape. The bottom edge of the wrap strip shall be positioned 1/4 in. (6 mm) above crests of the steel floor units. The max diam of opening, annular space within the firestop system and layers of wrap strip required are tabulated below:

Max diam of opening-in.	Max diam of Penetrant-in	Min Annular Space	Max Annular Space	Layers of Wrap Strip
3	2	3/16 in.	7/16 in.	1
4 1/2	3	3/8 in	5/8 in	2
6	4	9/16 in.	15/16 in	3

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-E W45/1-3/4" Wrap Strip

B. Fill, Void or Cavity Materials* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor of both surfaces of wall. W Rating applies only when CP 601S, CFS-S SIL GG or CFS-S SIL SL Sealant is used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE-MAX Intumescent Sealant, CFS-S SIL GG, CFS-S SIL SL or CP 601S Sealant

* 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

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