

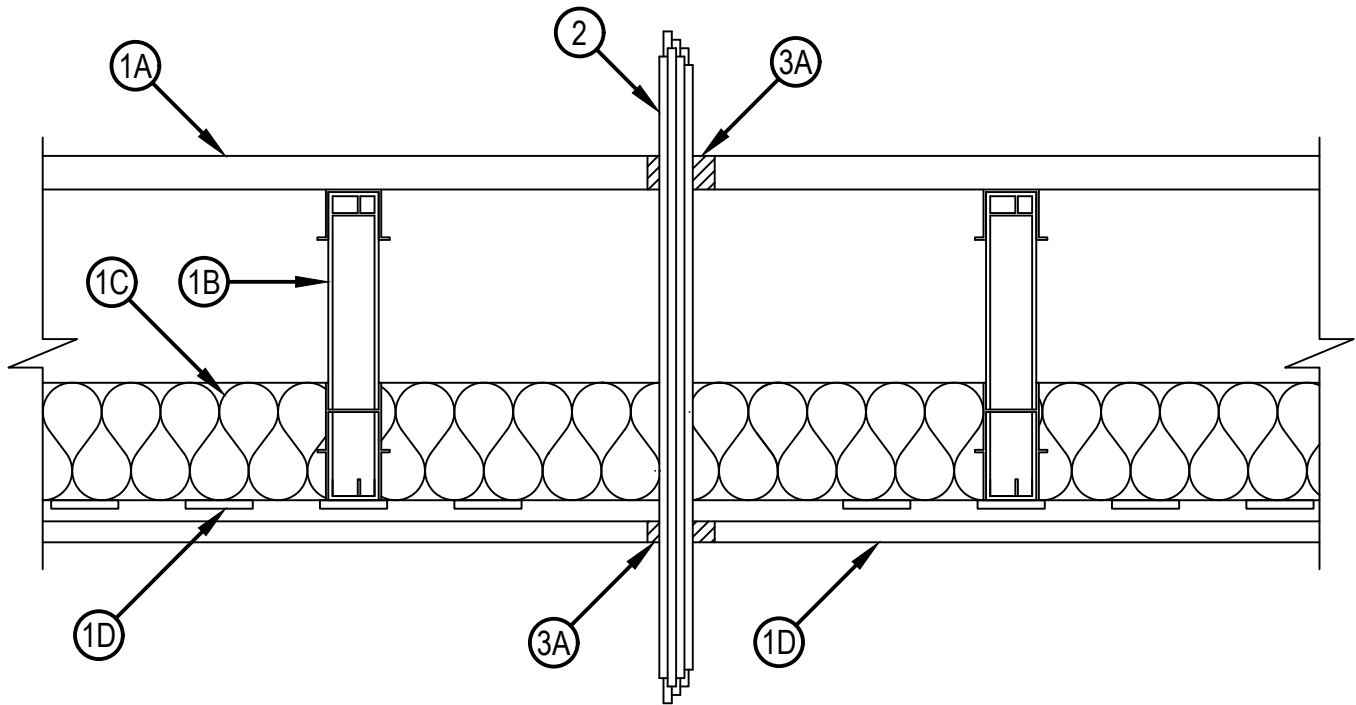


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-E-3021

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

FE 3021



Hilti Firestop Systems

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June 08, 2018

System No. F-E-3021

FE 3021

1. Floor-Ceiling Assembly — The 1 hr fire-rated structural cement-fiber panel and steel truss floor-ceiling assembly shall be constructed of the materials and in the manner described in Design Nos. G592 or H502 in the UL Fire Resistance Directory, as summarized below:
 - A. Flooring System — Nom 1 in. (25 mm) thick Mineral Fiber Boards* installed as specified in Design Nos. G592 or H502. Max diam of cutout in flooring is 2 in. (51 mm).
- 1A. Floor Topping Mixture* — (Optional, Not Shown) — As specified in Design No. G592 or H502, min 3/4 in. (19 mm) thickness of floor topping mixture having a minimum compressive strength of 1800 psi (126.6 kg/cm²). Refer to manufacturer's instructions accompanying the material for specific mix design.
 - A2. Flooring System — (Not Shown) - As an alternative flooring system a Steel Deck* may be used as specified in Design Nos. G592 or H502.
PRESCIENTCO INC — Prescient Steel Decking
- 1A2. Floor Topping Mixture* — As specified in Design Nos. G592 or H502, min 3/4 in. (19mm) thickness of floor topping mixture having a minimum compressive strength of 2000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 - A3. Flooring System — (Not Shown) - As an alternative flooring system a minimum 3/4 in. thick plywood subfloor may be used as specified in Design Nos. G592 or H502.
- 1A3. Floor Topping Mixture* — (Optional) — As specified in Design Nos. G592 or H502, min 3/4 in. (19 mm) thickness of floor topping mixture having a minimum compressive strength of 1800 psi (126.6 kg/cm²). Refer to manufacturer's instructions accompanying the material for specific mix design.
 - B. Structural Members* — Pre-Fabricated light gauge truss system consisting of a cold-formed, galvanized steel cord and web sections.
Trusses to be installed as specified in Design Nos. G592 or H502.
PRESCIENTCO INC — Pre-fabricated Light Gauge Steel Truss System
 - C. Batts and Blankets* — Nom 3-1/2 in. (89 mm) thickness min density 0.5 lb/ft³, unfaced mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, Insulation fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane as specified in Design Nos. G592 or H502.
 - D. Gypsum Board* — Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in Design Nos. G592 or H502. Max diam of cutout in gypsum board ceiling is 2 in. (51 mm).
2. Cables — Max 1 in. cable bundle to be installed concentrically or eccentrically within the opening. The annular space between the cable bundle and the periphery of the opening shall be a min 1/8 in. (3 mm) to a max 7/8 in (22 mm). Cables to be rigidly supported on both sides of floor assembly. Any combination of the following types and sizes of cables may be used:
 - A. Max 4 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacketing.
 - B. Max 3/C (with ground) No. 12 AWG (or smaller) copper conductor nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials with PVC insulation and jacketing.
 - C. Through Penetrating Products* — 3/C No. 10 AWG Metal-Clad Cable.
AFC CABLE SYSTEMS INC
3. Firestop System — The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of the floor. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus flush with bottom surface of ceiling. On both top and bottom surfaces of assembly, fill material forced into interstices of cable group to max extent possible.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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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