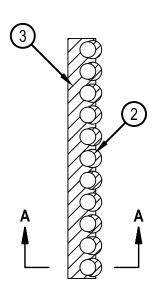
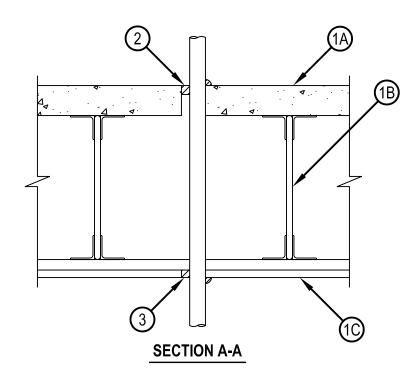


## System No. F-E-3012

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





- 1. Floor-Ceiling Assembly The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500 Series Design in the UL Fire Resistance Directory, as summarized below:
  - A. Flooring Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete as specified in the individual G500 Series Design. Max area of floor opening is 40 in2 (258 cm2) with max dimension of 20 in. (508 mm).
  - B. Joists Steel joists or Structural Steel Members\* as specified in the individual G500 Series Design.
  - C. Gypsum Board\* Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500 Series Design. Max area of opening in ceiling is 40 in2 (258 cm2) with max dimension of 20 in. (508 mm).
- 2. Cables One or more cables to be installed either concentrically or eccentricity within the firestop system. The annular space between each cable and the periphery of the opening shall be 0 in. (point contact) to max 1 in. (25 mm). The annular space between individual cables shall be min 1/4 in. (6 mm) to max 1/2 in. (13 mm). Cables to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of cables may be used:
  - A. Max 3/C (with ground) No. 2/0 AWG aluminum conductor service entrance cable with PVC insulation and jacket materials.
- 3. 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 floor. At the bottom of assembly, a min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with the surface of the ceiling. Additional fill material to be installed such that a min 1/2 in. (13 mm) diam bead is applied at the cable/floor and cable/ceiling interface at all point contact locations.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant 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.

