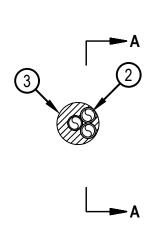
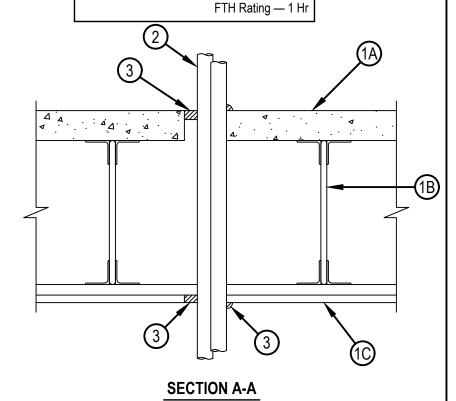


## System No. F-E-1018

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





- 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 Normal or lightweight concrete as specified in the individual G500-Series Design. Max diam of opening shall be 3-1/2 in. (89 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 diam of opening shall be 3-1/2 in. (89 mm).

## System No. F-E-1018

- 2. Through-Penetrant Max three flexible metal pipe or conduit installed concentrically or eccentrically within opening. The annular space between penetrants and between penetrants and periphery of opening shall be min of 0 in. (point contact) to max 1-1/4 in. (32 mm). Penetrants to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of penetrants may be used:
  - A. Flexible Steel Conduit+ Nom 1 in. diam (or smaller) flexible steel conduit.
    - See Flexible Metal Conduit (DXUZ) category in the Electrical Construction Material Directory for names of manufacturers.
  - B. Through Penetrating Product\* Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
    - 1. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      - OMEGA FLEX INC
    - 2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      - GASTITE, DIV OF TITEFLEX
    - 3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      - WARD MFG L L C
- 3. Fill, Void or Cavity Materials\*-Sealant Min 3/4 in. (19 mm) thickness of sealant applied within the annulus flush with the top surface of the floor. Min 5/8 in. (16 mm) thickness of sealant applied within the annulus flush with the bottom surface of gypsum board ceiling. In addition, min 1/2 in. (13 mm) bead of sealant shall be applied at the point contact location at top and bottom of floor.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP 606 Flexible Firestop Sealant or 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.

