



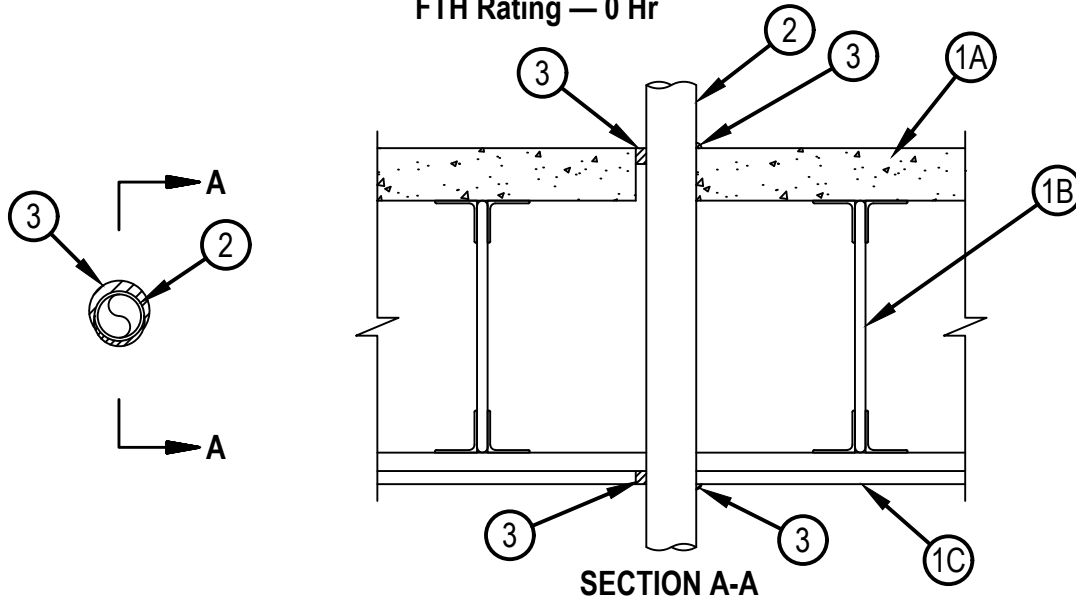
Classified by  
Underwriters Laboratories, Inc.  
to CAN/ULC-S115

## System No. F-E-2062

F Rating — 1 Hr  
FT Ratings — 1/4, 3/4 and 1 Hr (See Item 2)  
FH Rating — 0 Hr  
FTH Rating — 0 Hr



FE 2062



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side

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. Concrete Floor — Normal weight or lightweight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete over metal lath or steel deck as specified in the individual G500 Series Design. Diam of opening shall be 25 mm (1 in.) larger than the nom diam of through-penetrant (Item 2).
    - B. Joists — Steel joists or Structural Steel Members\* as specified in the individual G500 Series Design.
    - C. Gypsum Board\* — Min 13 mm (1/2 in.) thick Type C, screw-attached to furring channels as specified in the individual G500 Series Design. Diam of opening shall be 25 mm (1 in.) larger than the nom diam of through-penetrant (Item 2).
  2. Through Penetrants — One non-metallic tube to be installed eccentrically or concentrically within the firestop system. Annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 25 mm (1 in.). Penetrant to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of non-metallic tubes or pipes may be used:
    - A. Polypropylene (PP-R Pipe) — Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Greenpipe, PP-R plastic pipe (SDR 7.4) for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
    - B. Polypropylene (PP-RCT Pipe) — Nom 2 in. (63 mm OD) diam (or smaller) Nupi Americas Niron PP-RTC pipe (SDR 7.3) for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
    - C. XFR Polyvinyl Chloride (PVC) Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 XFR-PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
    - D. Polypropylene (PP-RCT Pipe) — Nom 2 in. (63 mm OD) diam (or smaller) Aquatechnik NA Fusion-Tech PP-RTC pipe (SDR 7.4) for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

The FT Rating of the firestop system is 1/4 and 3/4 hr for penetrant types 2C and 2A, respectively. The FT Rating of the firestop system is 1 hr for penetrant types 2B and 2D
  3. Fill, Void or Cavity Materials\* - Sealant — Min 19 mm (3/4 in.) depth of fill material applied within the annulus, flush with the top surface of floor. Min 13 mm (1/2 in.) thickness of fill material applied within annulus, flush with gypsum board ceiling. A min 6 mm (1/4 in.) diam bead of fill material shall also be applied at the point contact location at both sides of floor..
- 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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