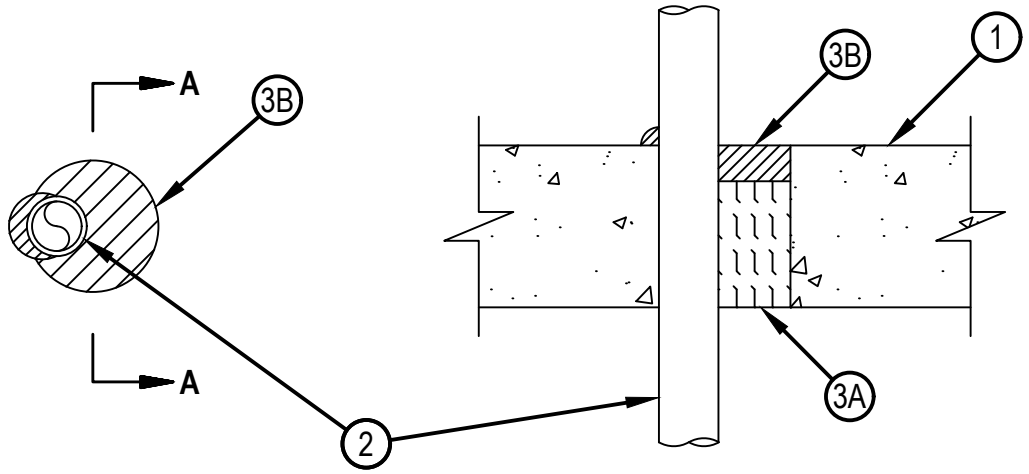
Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. C-AJ-2700

F Rating - 2 Hr
T Rating - 2 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5-1/2 in. (140 mm) thick reinforced lightweight or normal weight concrete wall. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 3 in. (76 mm).
   See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polypropylene (PP) Pipe — Nom 1-1/4 in. (40 mm OD) diam Orion Polystar™ CT-White SDR 11 PP pipe for use in closed (process or supply) piping systems.
   B. Polypropylene (PP) Pipe — Nom 1 in. (32 mm OD) diam Orion Polystar™ CT-White SDR 9 PP pipe for use in closed (process or supply) piping systems.
   C. Polypropylene (PP) Pipe — Nom 3/4 in. (25 mm OD) diam Orion Polystar™ CT-White SDR 7.4 PP pipe for use in closed (process or supply) piping systems.
   D. Polypropylene Random (PP-R) Pipe — Nom 1-1/4 in. (40 mm) diam (or smaller) Cosmoplast PP-R SDR 6 pipe for use in closed (process or supply) piping systems.
   E. Polypropylene Random (PP-R) Pipe — Nom 1-1/4in. (40 mm) diam (or smaller) Coprax PP-R SDR 6 pipe for use in closed (process or supply) piping systems.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form, flush with bottom surface of floor assembly or both sides of wall assembly. Packing material to be recessed from top surface of floor or both surfaces of wall assembly to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Materials* - Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with the top surface of the floor or both surfaces of the wall assembly. At point contact location between penetrant and periphery of opening, an additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete penetrant interface on the top surface of the floor or both sides of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Intumescent 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.