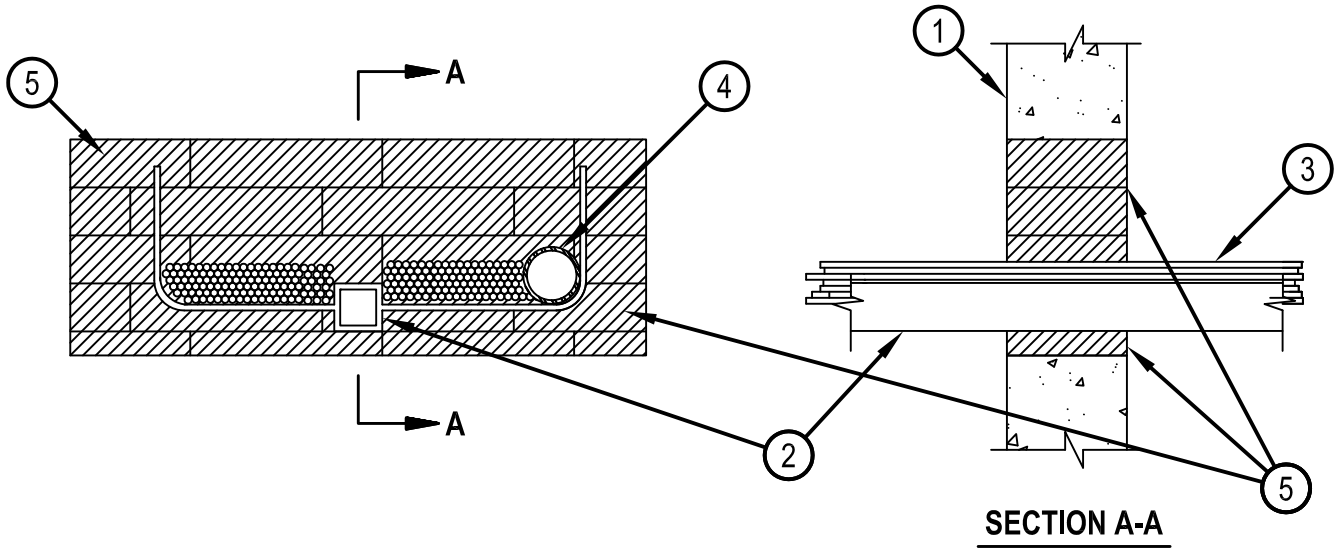
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-4016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 216 in. sq. (1394 cm2) with max dimension of 24 in. (610 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray+ — Max 18 in. (457 mm) wide by 6 in. (152 mm) deep "spine" cable tray. The 1-1/2 in. (38 mm) wide by 2-3/4 in. (70 mm) deep tubular spine formed of 0.121 in. (3.07 mm) thick aluminum. The 6 in. (152 mm) deep "U" shaped rungs spaced 6 in. (152 mm) OC formed from 1/2 in. (13 mm) by 1/2 in. (13 mm) extruded aluminum tube. One cable tray to be installed in the opening. The annular space between the cable tray and cables to the periphery of the opening shall be min 1 in. (25 mm) to 4-1/2 in. (114 mm) max. Cable tray to be rigidly supported on both sides of wall assembly.

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3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 22 percent of the cross-sectional area of the cable tray based on a max 6 in. (152 mm) cable loading depth within the cable tray. Any combination of the3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 22 percent of the cross-sectional area of the cable tray based on a max 6 in. (152 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of cables may be used:
   A. 6 pair — No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
   C. 3 pair No. 24 AWG CMP computer cable with polyvinyl chloride (PVC) insulation and jacket.
   D. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket.
   E. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.
   F. 3/C No. 12 AWG MC cable with polyvinyl chloride (PVC) insulation in a nominal 1/2 in. (13 mm) flexible metal conduit.
4. Electrical Nonmetallic Tubing (ENT) — One nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT constructed of polyvinyl chloride. See Electrical Nonmetallic Tubing — (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.
5. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire blocks — Fire blocks installed with min. 5 in. (127 mm) dimension passing through the opening and centered within wall. In concrete block walls, fire blocks to fill entire thickness of wall opening unless wall is solid filled. Blocks to be firmly packed and completely fill the entire area of opening. Either one or a combination of the block types specified below may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block
   B. Fill, Void or Cavity Material* — Fill material to be forced into interstices of cables, between cables and cable tray and in obvious openings between blocks and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP 618 Putty Stick

*Bearing the UL Classification Marking

+Bearing the UL Listing Mark