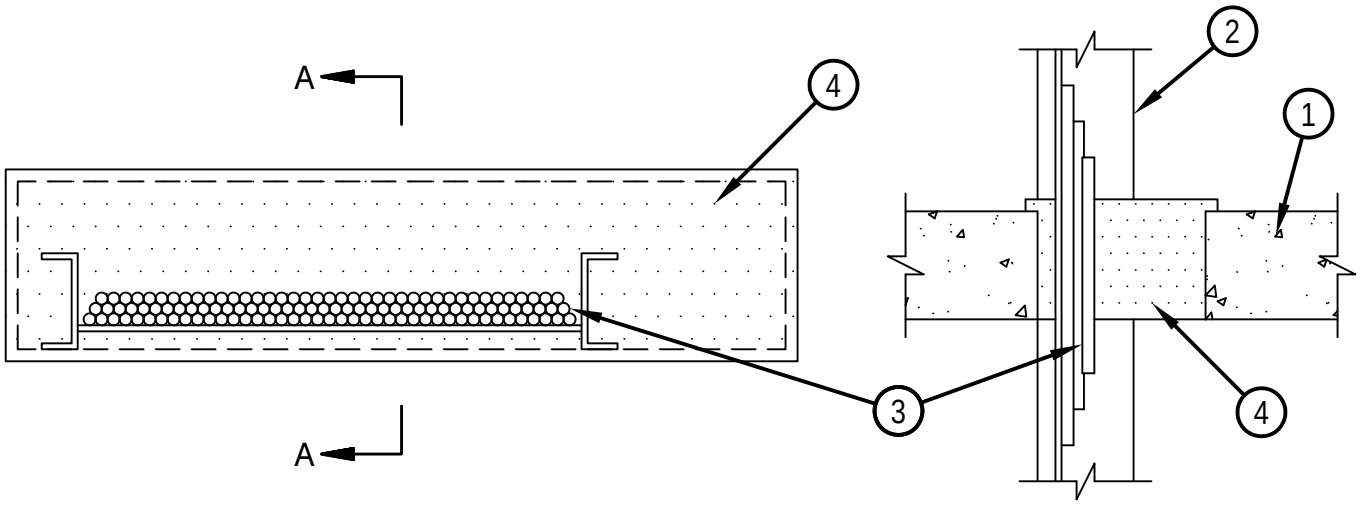
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-4054

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. 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. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 224 sq in. (1445 cm2) with max dimension of 32 in. (813 mm).

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufactures.
2. Cable Tray* — Max 24 in. (610 mm) wide by 4 in. (102 mm) deep open-ladder cable tray with channel-shaped side rails formed of 0.10 (2.54 mm) thick aluminum and 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shaped rungs spaced on 9 in. (229 mm) OC. The annular space between cable tray and periphery of opening shall be min 0 in. (point contact) to max 5 in. (127 mm). Cable tray to be rigidly suported on both sides of wall assembly.
3. Cables — Aggregate cross-sectional area of cable tray to be max 45 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 500 kcmil single conductor copper power cable with PVC jacket material.
   C. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 3/8 in. (9.5 mm).
   D. Max 3/C No. 12 AWG copper conductor steel clad cable with PVC insulation material.
4. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material — Foam* — Min 5 in. (127 mm) thickness of fill material applied within the annulus, extending 1/2 in. (13 mm) above the top surface of the floor or both surfaces of wall and overlapping the concrete 1/2 in. (13 mm) on all sides of the opening.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 620 Fire Foam
   B. Fill, Void or Cavity Material — (Optional - Not Shown) — Nom 2 in. (51 mm) deep Fire Blocks applied in a single layer above cables within cable tray with 5 in. (127 mm) dimension projecting through the opening and long dimension parallel to floor or wall. 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

*Bearing the UL Classification Mark