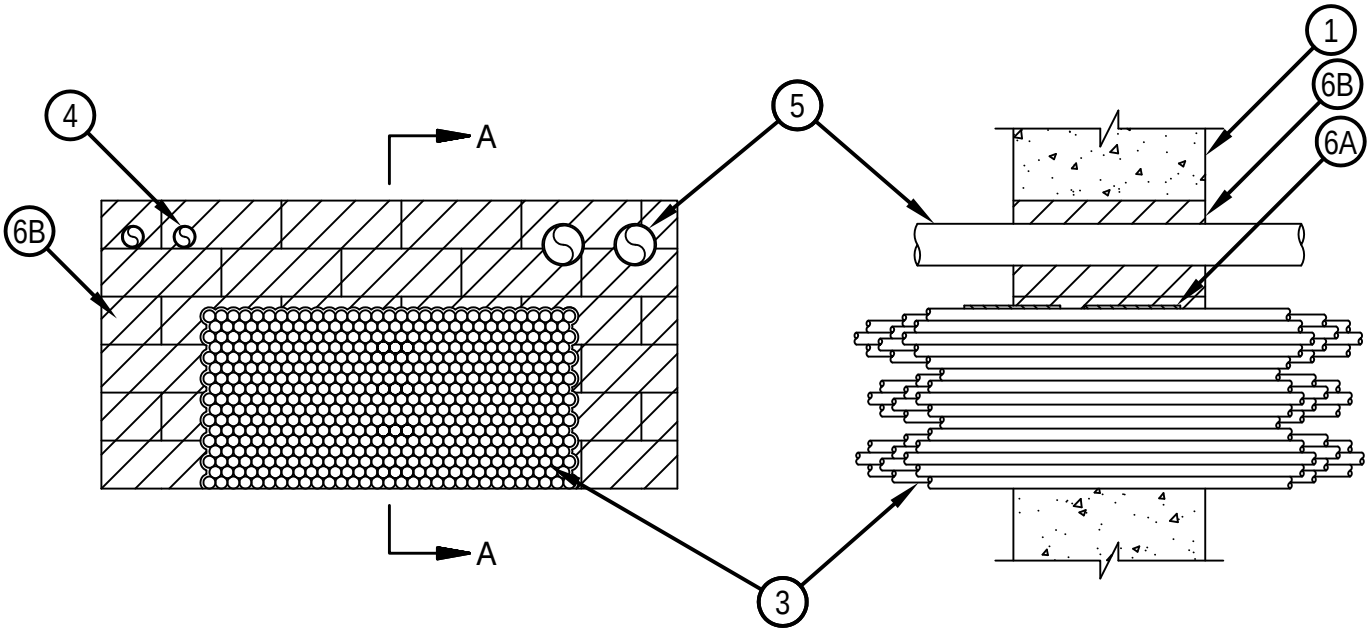
System No. W-J-8018

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

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

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January 13, 2012

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System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — Nom 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 288 sq. in. (1858 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 Rack — (Not Shown) Max 20 in. (508 mm) wide cable rack, fabricated from min 1/4 in. (6 mm) thick by 1-1/2 in. 38 mm) wide steel bar side rails and 3/16 in. (4.76 mm) thick by 1 in. (25 mm) wide C-shaped rungs spaced 9 in. (229 mm) OC. Cable rack, noncontinuous through opening, shall be installed on and supported on both sides of wall assembly.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 34 percent of the cross-sectional area of the opening. The min annular space between cables and the periphery of the opening. The min annular space between cables and the periphery of the opening shall be 0 in. (point contact). Cables to be rigidly supported on both sides of wall assembly. The following type and size of cables may be used:
   A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 750 kcmil power cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
4. Conduit — (Optional) — Max two nom 1 in. (25 mm) diam (or smaller) steel electrical metallic conduit tubing (EMT) spaced min 1/2 in.(13 mm) apart. The annular space between cables and the conduit and the conduit and the periphery of the opening shall be 1-3/4 in. (44 mm) and 3/4 in. (19 mm), respectively.
5. Electric Nonmetallic Tubing+ (Optional) — Max two nom 2 in. (51 mm) diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT), spaced min 0 in. (point contact) apart, constructed of polyvinyl chloride (PVC). The annular spaced between cables and the ENT and the ENT and the periphery of the opening shall be 2 in. (51 mm) and 5/8 in. (16 mm), respectively.
6. Firestop System — The firestop system shall consist of the following items:
   A. Fill, Void or Cavity Materials*-Putty — Formed into pads 6 in. (152 mm) by 4 in. (102 mm) by 1/4 in. (6 mm) installed around three accessible sides of cable bundle extending 2 in. (51 mm) beyond each surface of the Fire Blocks. Additional fill material to be forced into interstices of cables and in all openings between blocks and between blocks and the periphery of the opening to the max extent possible on both sides of wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF
      HILTI INC — CP 618 Firestop Putty Stick
   B. Fill, Void or Cavity Materials*-Fire Blocks — For reinforced concrete and solid filled concrete block wall assemblies, fire blocks installed with 5 in. (127 mm) dimension projecting through opening, centered within or flush with either surface of concrete. For hollow core concrete block walls, blocks installed with long dimension passing through the opening to completely fill opening. Fire blocks to be firmly packed within 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

*Bearing the UL Classification Mark
+Bearing the UL Listing Marking

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