System No. W-L-4079

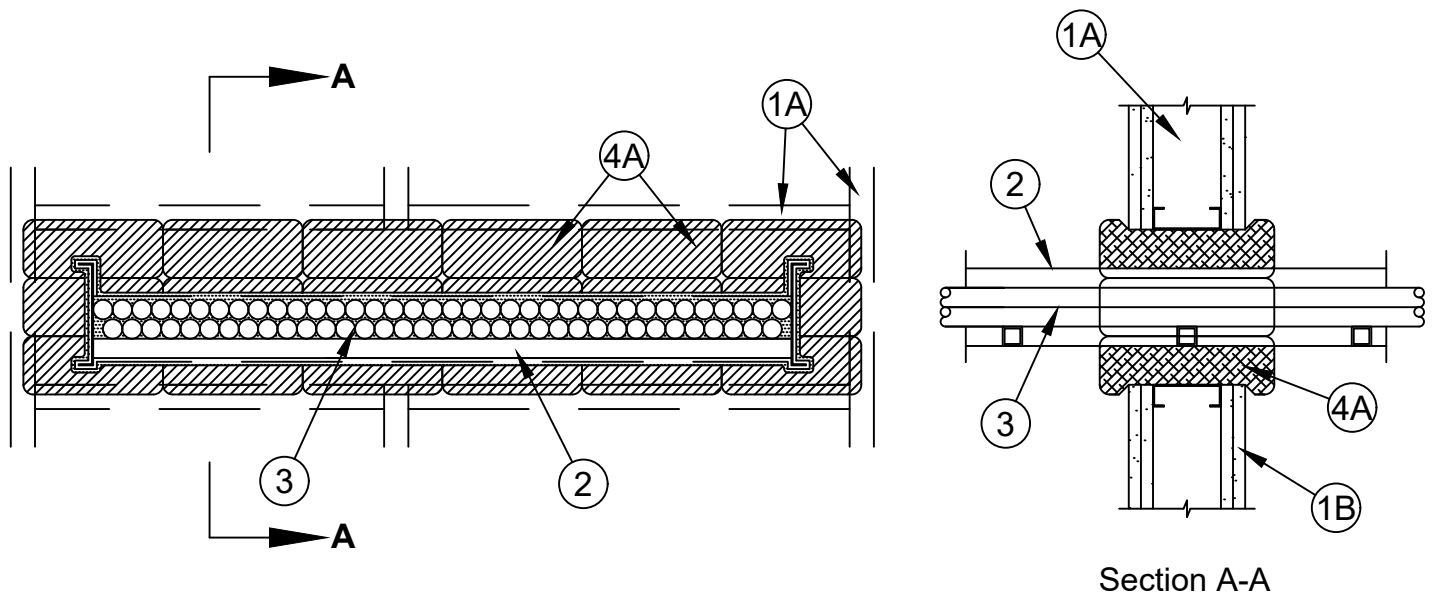| ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - 3.2 CFM/sq ft	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating at 400 F - 2 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - 3.2 CFM/sq ft
	L Rating at 400 F - 2 CFM/sq ft

Section A-A

1. **Wall Assembly -** The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. **Studs -** Wall framing shall consist of steel channel studs. Studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional studs shall be installed horizontally to form a rectangular box around the through penetrants (Item 2).
   B. **Gypsum Board* -** Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. The opening shall be sized to be min 2 in. (51 mm) to max 4 in. (102 mm) wider and higher than the width and depth of the cable tray. Max area of opening is 320 sq in. (0.21 m2) with max dimension of 40 in. (1.02 m).

   The hourly F and FH Ratings are dependent upon the hourly rating of the wall in which it is installed.
2. **Cable Tray* -** Max 36 in. (914 mm) wide by max 4 in. (102 mm) deep open-ladder or solid-back cable trays with channel-shaped side rails formed of min 0.050 in. (1.3 mm) thick steel. Cable trays are provided with min 0.050 in. (1.3 mm) thick steel rungs spaced a max of 12 in. (305 mm) apart, or a min 0.050 in. (1.3 mm) thick steel solid back. The annular space between cable trays and edge of opening shall be a min of 1 in. (25 mm) to a max of 3 in. (76 mm). 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 39 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:

   A. Max 400 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.

   B. Max 1/C -750 kcmil (or smaller) copper conductor cable with XLPE or PVC insulation and XLPE or PVC jacket.

   C. Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.

   D. Max 3/C - No. 2 AWG (or smaller) copper conductor cable with PVC insulation and jacketing.

   E. Max 7/C - No. 12 AWG (or smaller) copper conductor cable with PVC-nylon insulation and PVC jacketing.

   F. Max 62.5/125 micron fiber optic cable with PVC insulation and jacketing.

   G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC or plenum-rated insulation and jacketing.

   H. Through Penetrating Product* - Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the **Through Penetrating Products** category.

   See **Through Penetrating Products** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. **Firestop System -** The firestop system shall consist of the following:

   A. **Fill, Void or Cavity Material* - Pillows -** Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 3 in. (76 mm) thick plastic covered intumescent pillows. Pillows to be installed lengthwise through the opening and positioned to extend equally in both directions from the approximate center line of the wall. Pillows tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Pillows

   B. **Fill, Void or Cavity Material* - Putty or Sealant -** (Not Shown) - After installation of pillows (Item 4A), min 1/2 in. (13 mm) depth of putty or sealant applied to seal any voids between the cables, between the cables and the pillows and between the cable tray and the pillows on both sides of the wall assembly.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Putty, SpecSeal Series SSS Sealant and SpecSeal LCI Sealant

   * Bearing the UL Classification Marking

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.