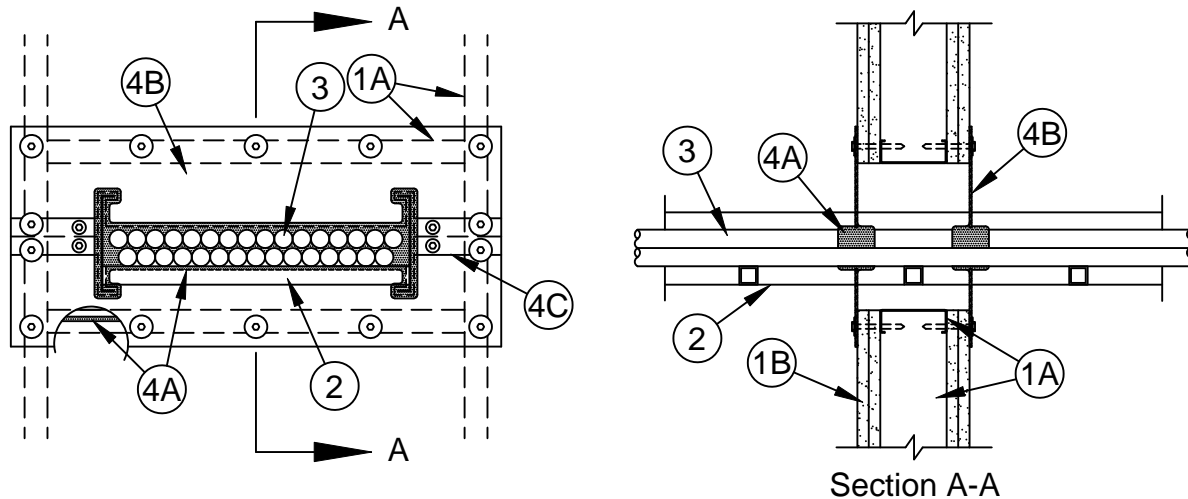




## System No. W-L-4063

F Ratings - 1 and 2 Hr (See Item 1)

T Rating - 1/2 Hr



- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
  - Steel Studs** - Steel 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).
  - Gypsum Board\*** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. The opening shall be min 1 in. (25 mm) to max 3 in. (76 mm) wider and higher than the width and depth of the cable tray.

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall in which it is installed.**
- Cable Tray\*** - Max 18 in. (457 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed from 0.060 thick (16 gauge) galv steel with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC or max 18 in. (457 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed from 0.060 thick aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. One cable tray passing through the opening. Cable tray to be rigidly supported on both sides of wall assembly.
- 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:
  - Max 300 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
  - Max 1/C 750 kcmil (or smaller) copper conductor cable with XLPE or PVC insulation and XLPE or PVC jacket.
  - Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
  - Max 3/C No. 2 AWG (or smaller) copper conductor cable with PVC insulation and jacketing.
  - Max 7/C No. 12 AWG (or smaller) copper conductor cable with PVC-nylon insulation and PVC jacketing.
  - Max 62.5/125 micron fiber optic cable with PVC insulation and jacketing.
  - Max four pair No. 24 AWG (or smaller) copper conductor data cable with Hylar insulation and jacketing.
  - Max 4/C No. 10 AWG (or smaller) copper or aluminum conductor aluminum or steel Metal-Clad# or Armored-Clad# cable.



**Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**

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

- A. **Fill, Void or Cavity Materials\* - Putty or Sealant** - Nom 3/16 in. (5 mm) thick by 2 in. (51 mm) wide band of putty or sealant installed to tightly-follow the contour of the cable tray and cable fill around its entire perimeter. Band of putty or sealant installed to project approx 1 in. (25 mm) beyond each face of the composite sheet (Item 4B) on both sides of wall assembly. Nom 3/16 in. (5 mm) cove bead of putty or sealant applied around base of cables and cable tray at their egress from the intumescent sheet on both sides of the wall. Nom 3/16 in. (5 mm) wide by 3/16 in. (5 mm) thick putty strips or nom 1/4 in. (6 mm) diam bead of sealant applied beneath composite sheet around entire perimeter of through opening on both sides of the wall.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal Putty, SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

- B. **Fill, Void or Cavity Materials\* - Composite Sheet** - Rigid aluminum foil-faced intumescent sheet with steel mesh and galv steel sheet backer. Sheets cut to tightly follow the contour of the cable tray and the cable fill with an annular space equal to or less than 3/16 in. (5 mm). Sheets cut to lap a min of 2 in. (51 mm) on the wall surfaces on all sides of opening. Sheets to be installed on each side of wall with foil facing against wall surface and secured to steel framing, through gypsum board layers, with min 2 in. (51 mm) long steel drywall screws in conjunction with min 1-1/4 (32 mm) diam steel fender washers. Spacing of fasteners not to exceed 6 in. (152 mm) OC with additional fasteners located on each side of butted seams or slits made to permit installation of the sheet around the cable tray.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal CS Composite Sheet

- C. **Steel Cover Strip** - Min 2 in. (51 mm) wide strip of min 0.020 in. (0.51 mm) thick (26 gauge) galv steel centered over entire length of each butted seam or slit made in the composite sheet (Item 4B). Prior to installation of the steel strip, the seam or slit in the sheet shall be covered with a nom 1/8 by 1/2 in. (3.2 by 13 mm) ribbon of putty or a nom 1/4 in. (6 mm) diam bead of sealant (Item 4A). Steel cover strip secured to galv steel sheet backer of intumescent sheet with steel sheet metal screws or rivets spaced max 3 in. (76 mm) OC on each side of seam or slit.

\*Bearing the UL Classification Mark



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