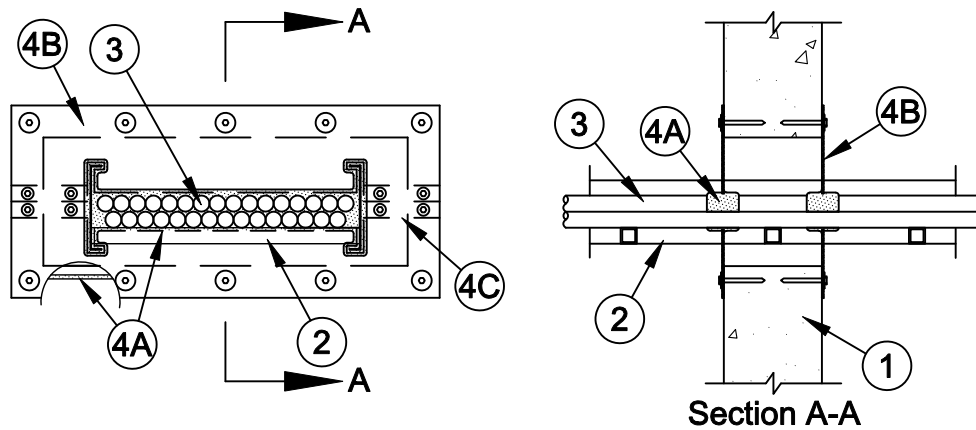




## System No. W-J-4061

F Rating - 2 Hr  
T Rating - 1/2 Hr



1. **Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. 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.  
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **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.
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 300 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 Hylar insulation and jacketing.
  - H. Max 4/C No. 10 AWG (or smaller) copper or aluminum conductor aluminum or steel Metal-Clad# or Armored-Clad# cable.
4. **Firestop System** - The firestop shall consist of the following:
  - A. **Fill, Void or Cavity Materials\* - Putty or Sealant** - Min 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 required on both sides of wall assembly 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 its 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. 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



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

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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. Sheets to be installed on each side of wall with foil facing against wall surface and secured with min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1-1/4 in. (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. diam bead of sealant (Item 4A). Steel cover strip secured to galv steel sheet backer of composite 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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