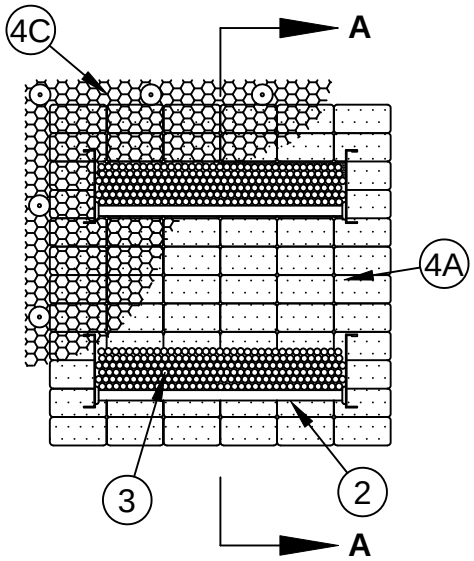
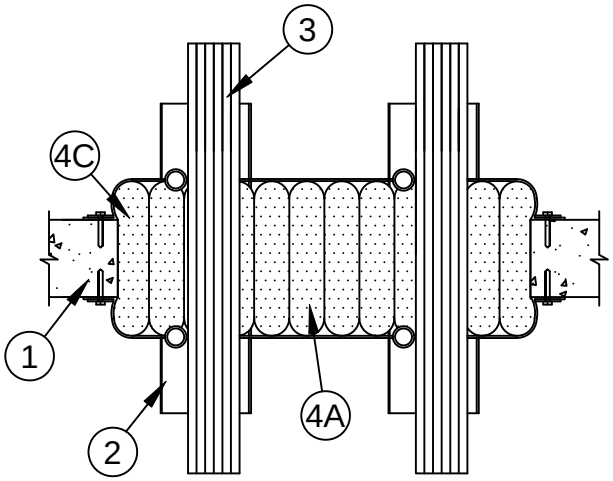
System No. C-AJ-4004

F Rating - 3 Hr
FT Rating - 1/2 Hr
FH Rating - 3 Hr
FTH Rating - 1/2 Hr
L Rating At Ambient - 31 CFM/sq ft
L Rating At 400 F - 21 CFM/sq ft





Section A-A

1. **Floor or Wall Assembly -** Min 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m3 or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 0.37 m2 (576 sq in.) with max dimension of 610 mm (24 in.).

   See **Concrete Block** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray* -** Max 457 mm (18 in.) wide by max 127 mm (5 in.) deep open ladder cable tray with channel-shaped side rails formed from 1.5 mm (0.060 in.) thick (No. 16 MSG) galv steel with nom 25 mm (1 in.) diam rungs spaced 229 mm (9 in.) OC or max 457 mm (18 in.) wide by max 127 mm (5 in.) deep open ladder cable tray with channel-shaped side rails formed from 2 mm (0.080 in.) thick aluminum with nom 25 (1 in.) diam rungs spaced 229 mm (9 in.) OC. Max two cable trays to be installed in the opening with a separation of 203 (8 in.) between cable trays. The annular space between the cable tray and periphery of the opening shall be min 76 mm (3 in.) to max 406 mm (16 in.). Cable trays to be rigidly supported on both sides of floor or wall assembly.

3. **Cables -** Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray based on a max 102 mm (4 in.) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:

   A. Max 1/C - 350 kcmil cable with polyvinyl chloride (PVC) insulation and jacket.

   B. Max 3/C - No. 2 AWG cable with PVC insulation and jacket.

   C. Max 7/C - No. 12 AWG cable with PVC-nylon insulation and PVC jacket.

   D. Max 2/C - No. 16 AWG cable with PVC-nylon insulation and PVC jacket.

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

   A. **Fill, Void or Cavity Materials* - Pillows -** Max 229 mm (9 in.) long by 152 mm (6 in.) wide by 76 mm (3 in.) thick plastic covered intumescent pillows. In floors, pillows to be installed lengthwise into the opening and positioned to extend a maximum of 64 mm (2-1/2 in.) below the bottom plane of the floor. In walls, 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 and between the cable trays.

      SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Pillows

   B. **Fill, Void or Cavity Materials* - Putty -** (Not Shown) - After installation of pillows (Item 4A), min 13 mm (1/2 in.) thickness of putty 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 floor or wall assembly.

      SPECIFIED TECHNOLOGIES INC - SpecSeal Putty

   C. **Wire Mesh -** Nom 25 mm (1 in.) diamond shaped wire mesh fabricated from min No. 20 AWG galv steel wire. Wire mesh cut to fit the contour of the opening with a min 51 mm (2 in.) lap beyond the periphery of the opening to keep the pillows in place. Wire mesh secured to both surfaces of floor or wall assembly with 1/4 in diam by 1-3/4 in. long concrete anchors in conjunction with 6.4 mm (1/4 in.) by 32 mm (1-1/4 in.) diam steel fender washers, spaced 152 mm (6 in.) OC. The joints within the wire mesh shall overlap a min of 51 mm (2 in.) and be secured together by means of No. 20 AWG steel wired spaced 152 mm (6 in.) OC.

      *Bearing the UL Classification Mark