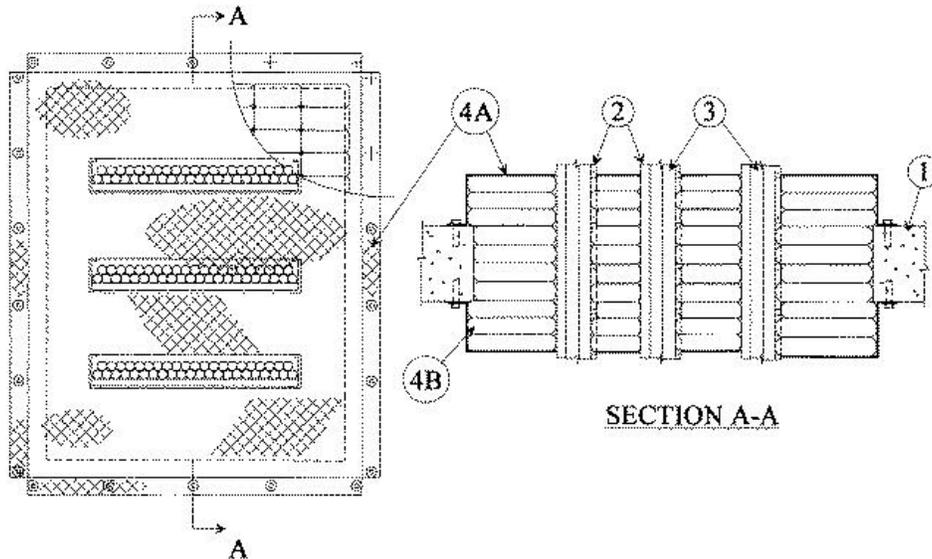


F Rating — 3 Hr
 T Rating — 1 Hr



1. **Floor or Wall Assembly** — Min 6 in. thick reinforced normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1280 sq in. with max dimension of 40 in. See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray*** — Max 24 in. wide by max 4 in. deep open ladder cable tray with channel-shaped side rails formed of min No. 16 MSG thick steel with 1 in. wide rungs spaced 9 in. OC or 0.090 in. thick aluminum and with 1 in. wide rungs spaced 9 in. OC. Max three cable trays to be installed in the opening with a separation of 8 in. between cable trays. The annular space between the cable tray and the periphery of the opening shall be min 4 in. to max 8 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 40 percent of the cross-sectional area of the cable tray based on a max 3 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 (or smaller) cable with polyvinyl chloride (PVC) insulation and jacket or hypalon insulation and ethylene propylene rubber jacket.

B. Max 16/C - No. 16 AWG (or smaller) cable with PVC insulation and jacket.

C. Max 4/C - No. 12 AWG (or smaller) cable with rubber insulation and neoprene jacket.

D. Max 100 pair No. 24 AWG (or smaller) cable with PVC insulation and jacket.

4. **Firestop System** — The fire stop system shall consist of the following:

A. **Wire Mesh** — Nom 2 in. by 2 in. wire mesh fabricated from 1/8 in. thick galv steel wire formed into a 4 in. deep basket. Wire mesh cut to fit the contour of the penetrating items and lapping a min 3 in. beyond the periphery of the opening. Wire mesh secured to both surfaces of floor or wall by means of 1/4 in. diam by 1-3/4 in. long concrete anchor bolts in conjunction with 1/4 in. by 1-1/4 in. steel fender washers, spaced a max 6 in. OC. The joints within the wire lath shall overlap a min of 2 in. and be secured together by means of No. 12 AWG steel wire spaced 4 in. OC.

B. **Fill, Void or Cavity Materials*** — **Pillows** — Max 13-1/2 in. long by 7 in. wide by 1-1/2 in. thick pillow-like material. Pillows may be installed horizontally or vertically (on edge) within the opening in such a manner that the ends project a min of 4 in. beyond each surface of floor or wall. Pillows tightly packed into opening to fill the annular space between cables and periphery of opening, between cable tray and periphery of opening and between the cable trays. During installation of cables, cables to be pulled apart and fill material placed between cables and between cables and cable tray.

RECTORSEAL — [FlameSafe Bags](#)

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