

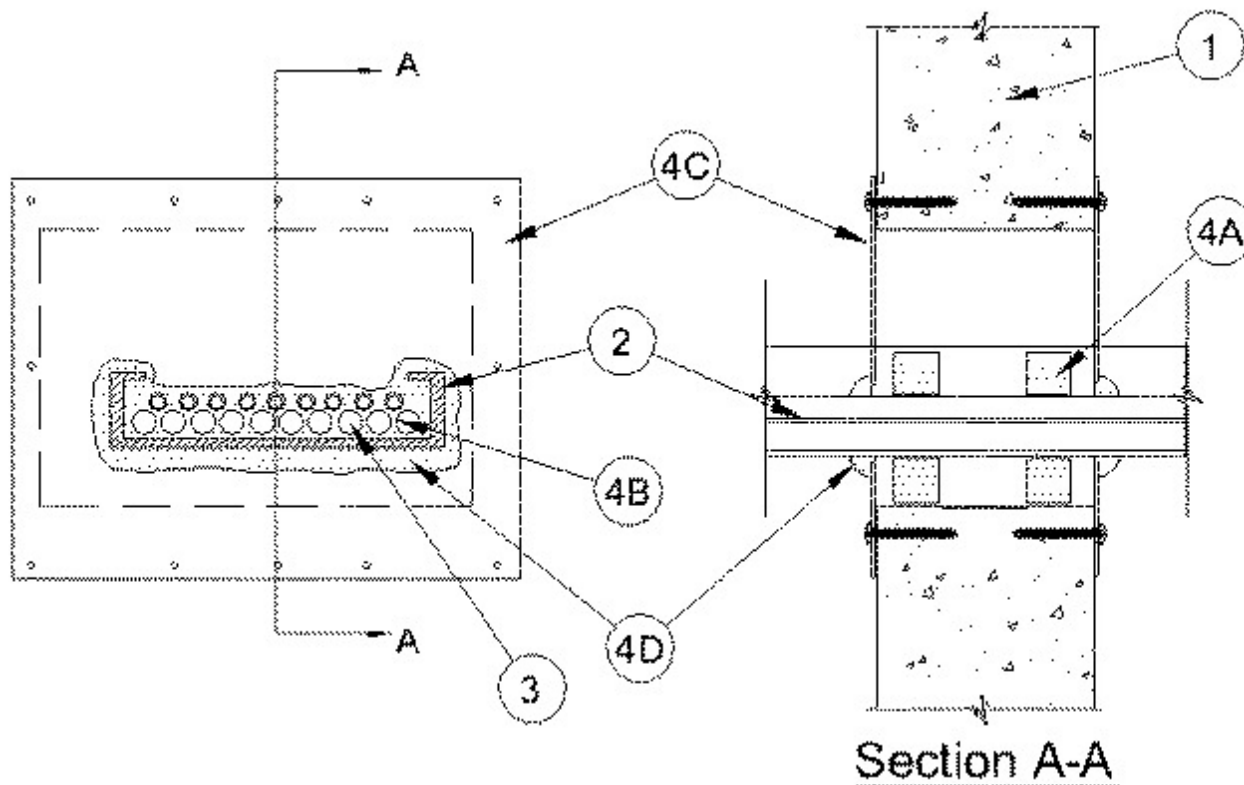


### System No. W-J-4051

August 30, 2004

F Rating — 2 Hr

T Rating — 0 Hr



1. **Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max size of opening is 12 in. by 24 in.

2. **Cable Tray** — Max 18 in. wide by max 4 in. deep open-ladder cable tray with channel-shaped side rails formed of min 0.13 in. thick fiberglass with nom 2 in. diam rungs spaced 9 in. O.C. or max 18 in. wide by max 4 in. deep open ladder steel or aluminum cable tray. The min annular space between the cable tray and the periphery of opening shall be 0 in. (point contact). The max annular space between the cable tray and the side periphery of the opening shall be 5 in. Cable tray to be rigidly supported on both sides of wall assembly.

3. **Cables** — Max 40 percent fill (based on a 3 in. loading depth within the cable tray) of any combination of cables. The following types of cables may be used:

- A. Max 750 MCM power cables; THHN or THWN jacketed.
- B. Max 8C, No.12 AWG multiconductor power and control cables; PVC jacketed.
- C. Multiple fiber optical communication cable jacketed with PVC.
- D. Max 25 pr/24 AWG telephone cable with polyethylene insulation and PVC jacket.
- E. Max 300 pr/24 AWG telephone cable with polyethylene insulation and PVC jacket

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

A. **Fill, Void or Cavity Material\* — Intumescent Block** — The block material cross-section is nom 1 in. square. The fill material is cut into 10 in. long blocks installed within the opening on each side of the wall centered on top of cables and 8 in. long blocks installed within the opening

centered on each side on bottom of opening.

**RECTORSEAL** — Metacaulk Bixi Stix

**B. Fill, Void or Cavity Materials\* — Putty Strip** — (Optional) 1 in. by 1 in. by 1/8 in. thick putty pad strip installed between adjacent cables.

**RECTORSEAL** — Metacaulk Fire Rated Putty, Fire Rated Putty Pad

**C. Steel Cover Plate** — Cover plate is formed of min 0.028 in., 24 gauge galv. steel overlapping onto wall a min 1-1/2 in., cut to fit contour of the cable bundle with a nom 1/4 in. gap. Cover plate is attached to each side of wall with min 1/4 in. diam by 1-1/4 in. long steel Tapcon® concrete anchors spaced max 4 in. O.C. Where cover sheet splices exist, attach separate 24 gauge galv. steel overlapping splice by a min 1-1/2 in. and attached with sheet metal screws spaced max 3 in. O.C. on both sides of the splice joint. As an option to separate steel splice, cover plate halves may overlap by a min 1-1/2 in. and attach together with sheet metal screws spaced max 3 in. O.C.

**D. Fill, Void or Cavity Materials\* — Putty** — Putty shall be packed around the perimeter of the cable bundle at its egress from the steel cover plate. The "dome" of putty shall be min 1 in. thick and extend a min of 1/2 in. onto the steel cover plate.

**RECTORSEAL** — Metacaulk Fire Rated Putty

\*Bearing the UL Classification Mark