

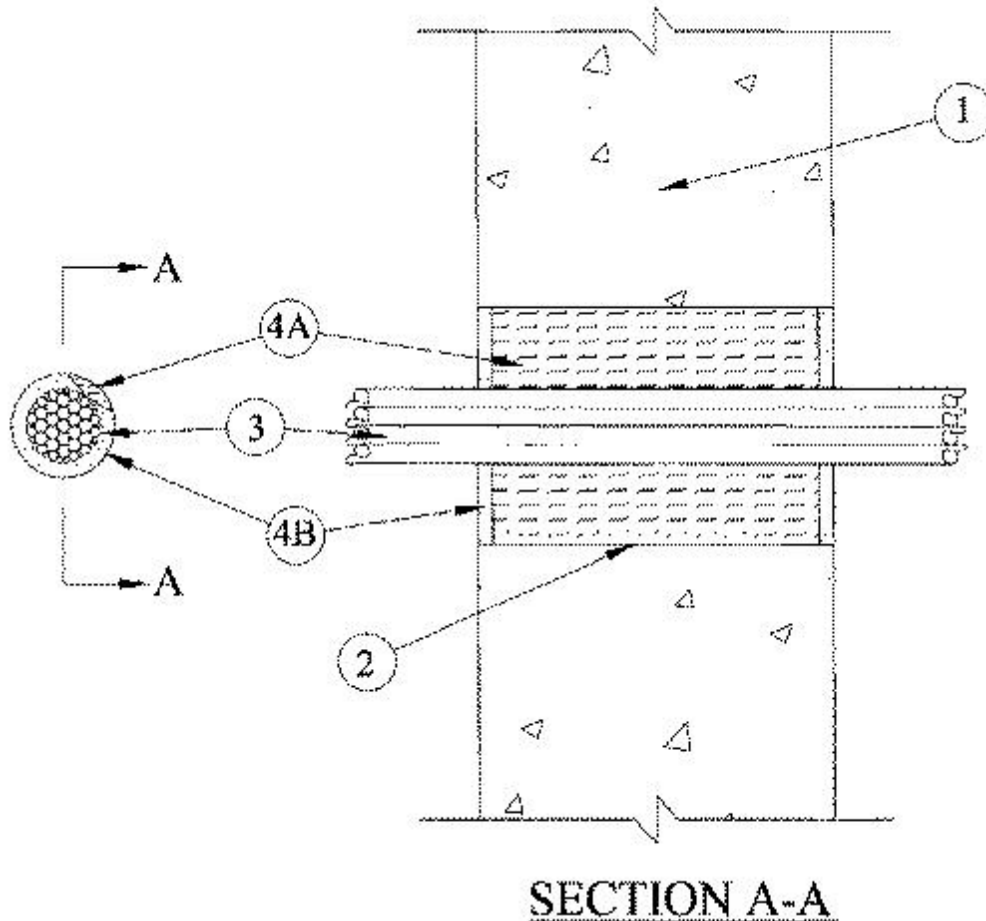


### System No. W-J-3056

August 06, 2003

F Rating — 2 Hr

T Rating — 0 Hr



1. **Wall Assembly** — Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 4 in.

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

2. **Steel Wire Mesh** — Cylindrical sleeve fabricated from No. 8 steel wire mesh and having a min 2 in. lap along the longitudinal seam. Length of steel mesh to be 1/2 in. less than thickness of wall. Steel wire mesh to be centered and formed to fit periphery of through opening.

3. **Cables** — Aggregate cross-sectional area of cables in opening to be max 8 percent of the cross-sectional area of the opening. Cables to be bundled with bundle centered in opening. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 25 pr No. 24 AWG telephone cables with polyvinyl chloride (PVC) insulation and jacket.

B. Max 4 pr No. 24 AWG telephone cables with PVC insulation and jacket.

C. Max 2/C with ground No. 12 AWG Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.

3A. **Through Penetrating Product\*** — (Not Shown) As an alternate Item 3, through-penetrating product to be installed within the opening. Aggregate cross-sectional area of through penetrating product to be max 8 percent of the cross-sectional area of the opening. Through-penetrating product to be bundled and centered in opening. Through penetrating product rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of through-penetrating products may be used:

A. Max two twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.

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B. Max two twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.

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C. Max two conductors with ground No. 12 AWG **Metal-Clad Cable+**.

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

A. **Packing Material** — Min 5-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material\* - Caulk** — Min 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Fill material forced into interstices of cable bundle to max extent possible.

**RECTORSEAL** — Metacaulk 1000

\*Bearing the UL Classification Mark