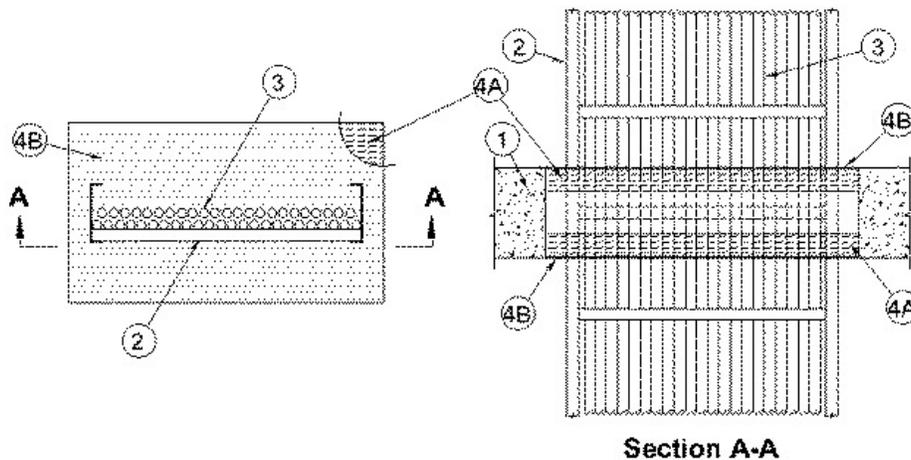


F Rating — 3 Hr
T Rating — 1-1/2 Hr



1. **Floor or Wall Assembly** — Min 8 in. (203 mm) thick reinforced normal weight (145-155 pcf or 2300-2500 kg/m³) concrete. Max area of opening is 576 4 sq in.ft with max dimension of 24 in. (610 mm).
2. **Cable Tray*** — One max 18 in. (457 mm) wide open ladder cable tray with channel-shaped side rails formed of min 0.053 in. (1.3 mm) thick steel with steel rungs spaced max 9 in. (229 mm) OC. The annular space between the side rails of the cable tray and the periphery of the opening shall be min 1 in. (25 mm). A min separation of 6 in. (152 mm) is to be maintained between the faces of the cable tray and the edges of the opening. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. **Cables** — Aggregate cross-sectional area of cables in each cable tray to be to max 40 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 cable may be used:
 - A. Max 300 pair, No. 24 AWG (or smaller) copper conductor communication cable with PVC insulation and PVC jacket.
 - B. 750 MCM THHN or THWN or MTW 600 volts gasoline & oil resistant II.
 - C. Max 25 pair, No. 24 AWG (or smaller) copper conductor telephone cable with XLPE/PVC insulation, with or without PVC jacket.
 - D. Optical Fiber Cable max 62.5/125 Type HDR012 Type OFNR.
 - E. Max 8/C No. 12 AWG (or smaller) Type SOW-A P-123-70-MSHA.
4. **Firestop System** — The firestop system shall consist of the following:
 - A. **Packing Material** — Min 2 in. (51 mm) thickness of pcf (128 kg/m³) mineral wool board insulation installed within the annular space flush with each surface of the floor or wall as a permanent form. A 1/2 in. (13 mm) thick bead of sealant (See item 4B) applied to the edges of the mineral wool prior to installation.
 - B. **Fill, Void or Cavity Material* — Caulk** — Min 1/8 in. (3 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material applied over mineral wool board with 2 in. (51 mm) overlap on cables, cable tray and both surfaces of floor or wall. **RECTORSEAL** — [Metacaulk 1200 Spray](#), [Metacaulk 1200 Caulk Grade](#), [Metacaulk 1200 SL](#) (floors only)

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

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