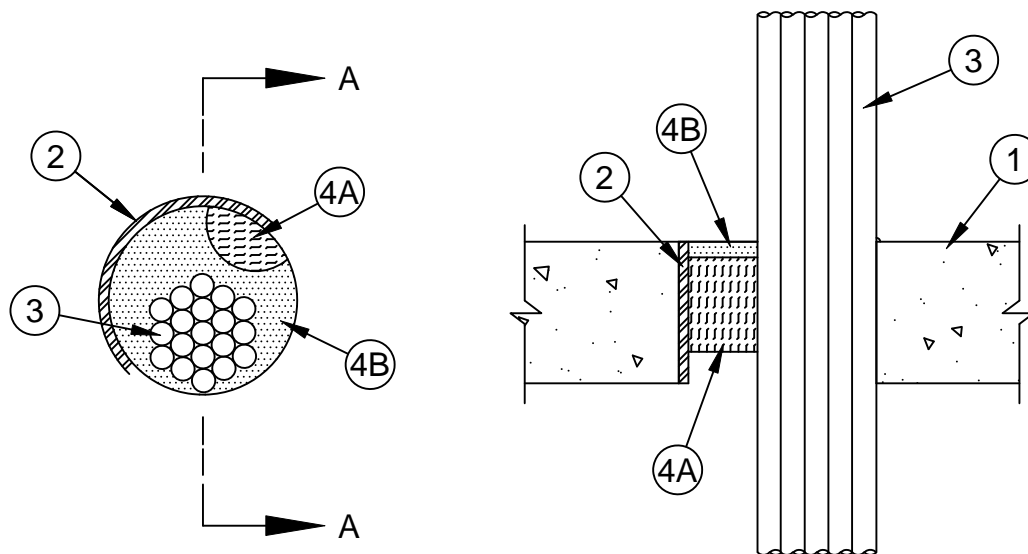


System No. C-AJ-3011

F Rating - 2 Hr
FT Rating - 1/2 Hr
FH Rating - 2 Hr
FTH Rating - 1/2 Hr



Section A-A

1. **Floor or Wall Assembly** - Min 64 mm (2-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete floor. Floor may also be constructed of any min 152 mm (6 in.) thick hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 152 mm (6 in.).

See **Concrete Blocks** (CAZT) or **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve** - (Optional) - Nom 152 mm (6 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project max 51 mm (2 in.) beyond the floor or wall surfaces.
3. **Cables** - Aggregate cross sectional area of cables in opening to be max 34 percent of the cross sectional area of the opening. Tight bundle of cables to be installed in the opening. The annular space between the cable bundle and the periphery of the opening shall be min 0 mm (0 in., point contact) to max 51 mm (2 in.) Cable bundle to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of cables may be used:
 - A. Max 200 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
 - B. Max 1/C No. 750 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
 - C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
 - D. Max 3/C No. 3/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
 - E. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TEK cable.
 - F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.
 - G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jacket.



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- H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket.
 - I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.
- 3A. **Through Penetrating Product*** - (Not Shown) As an alternate Item 3), one or more through-penetrating product to be installed within the opening. Max aggregate cross-sectional area of cables to be 34 percent of the cross-sectional area of the opening. Annular space between through-penetrating products and periphery of opening to be min 0 mm (0 in., point contact) to max 51 mm (2 in.) Through penetrating product rigidly supported on both sides of floor or wall assembly. The following types of Through-Penetrating Products may be used:
- A. Max four copper conductors No. 4/0 AWG (or smaller) aluminum or steel Armored Cable# or Metal-Clad Cable+.

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- B. Two or more twisted copper conductors No. 6 AWG (or smaller) Power Limited Circuit Cable+ with or without a jacket under a metal armor.

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- C. Two or more 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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- D. Two or more 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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4. **Firestop System** - The firestop system shall consist of the following:

- A. **Packing Material** - Min 76 mm (3 in.) thickness of min 64 kg/m3 (4 pcf) mineral wool batt insulation compressed and tightly packed into opening. Packing material recessed from top surface of floor or both surfaces of wall or precast concrete units. When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface. When 25 mm (1 in.) of fill material (Item 4B) is used, mineral wool packing material thickness may be reduced to 38 mm (1-1/2 in.).
- B. **Fill, Void or Cavity Material* - Sealant** - Min 12.7 mm (1/2 in.) thickness of fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls, min 12.7 mm (1/2 in.) thickness of fill material applied within annulus flush with both surfaces of wall assembly or both ends of steel sleeve. When thickness of concrete is less than 114 mm (4-1/2 in.), min 25 mm (1 in.) depth of sealant applied within annulus flush with top of floor/top edge of sleeve or both sides of wall/ ends of sleeve. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both surface of floor. At point contact location, apply min 6.4 mm (1/4 in.) diam bead of fill material at cable/concrete or cable/steel sleeve interface on top surface of floor or on both surfaces of wall or precast concrete units.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark



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