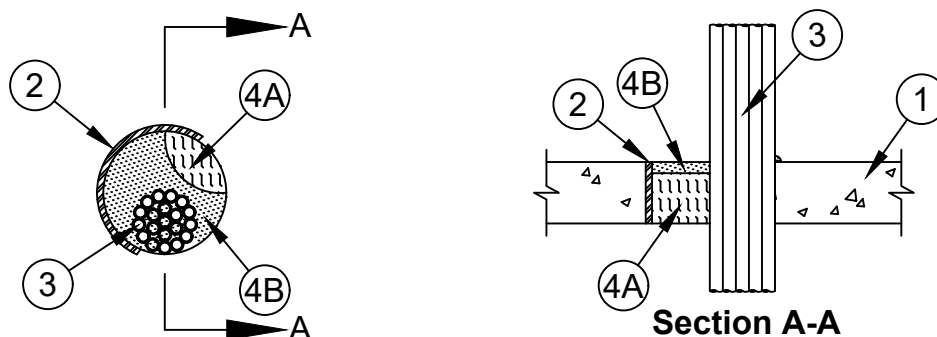




ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Rating - 2 Hr
	FTH Rating - 0 Hr



1. **Floor or Wall Assembly** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 3-1/2 in. (89 mm) thick reinforced lightweight or normal weight concrete wall. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm).
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. **Nonmetallic Sleeve** - (Optional) - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast or grouted into floor or wall flush with floor or wall surfaces.
- 2A. **Steel Sleeve** - (Optional) - Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly. Steel pipe sleeve may be installed flush with floor or wall surfaces, or may be installed project a max of 6 in. (152 mm) beyond the floor or wall surfaces.
3. **Cables** - Aggregate cross-sectional area of cables in opening to be max 37 percent of the aggregate cross-sectional area of the opening. Cables installed individually or in bundles having a max bundle diam of 3 in. (76 mm). The annular space between the cable bundle and the periphery of the opening shall be a min 0 in. (point contact) to a max 2 in. (51 mm). Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cables may be used:
 - A. Max 400 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacket materials.
 - B. Max 1/C No. 1000 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.
 - 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.
 - J. Max 3/4-in. (19 mm) diam copper ground cable with or without a PVC jacket.
- 3A. **Through Penetrating Product*** - (Not Shown) - As an alternate to Item 2, max 4/C No. 10 AWG (or smaller) steel **Armored Cable+** or **Metal Clad Cable** with copper conductors. Max five lengths of armored cable installed within the opening. Diam of cable bundle (Item 2) including armored cable not to exceed 3 in. (76 mm). Through penetrating product to be rigidly supported on both sides of a floor or wall assembly.

AFC CABLE SYSTEMS INC



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

- A. **Packing Material** - Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be forced into interstices of cable bundle to max extent possible. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material. When floor is constructed of hollow-core precast concrete unit, packing material to be installed symmetrically on both sides of floor and recessed from both surfaces of floor to accommodate the required thickness of fill material.
- B. **Fill, Void or Cavity Material* - Sealant** - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall assembly. Fill material to be forced into interstices of cable bundle to max extent possible. When floor is constructed of hollow-core precast concrete unit, fill material to be installed symmetrically on both sides of floor, flush with floor surfaces. At the point contact location between cable bundle and concrete, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the concrete/cable bundle interface on the top surface of floor, and on both surfaces of wall or hollow-core precast concrete unit.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

+Bearing the UL Listing Mark

* 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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