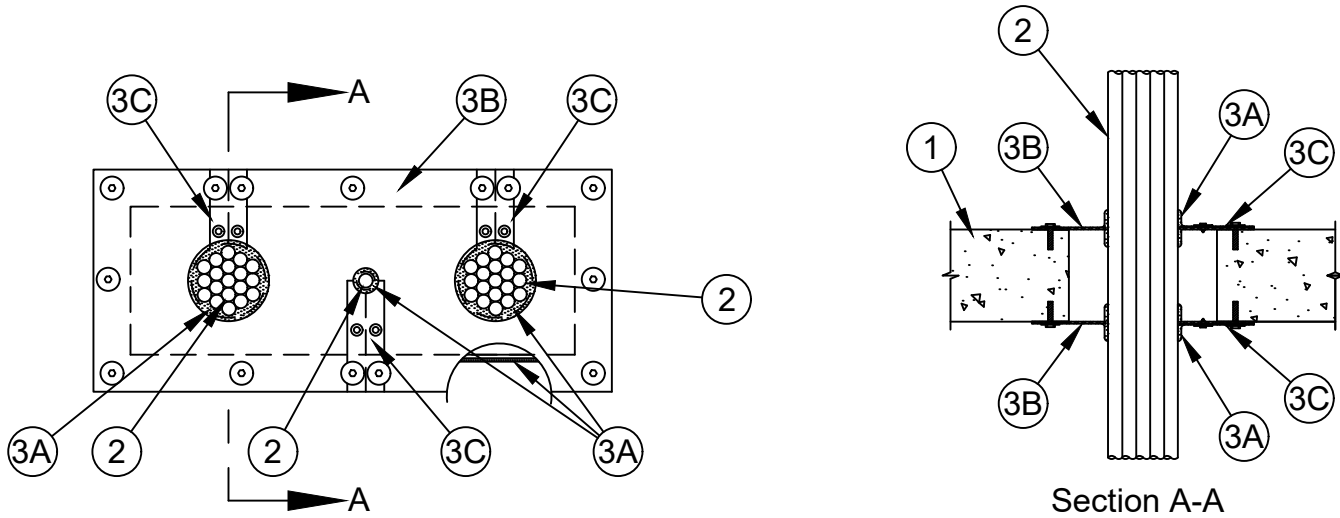




ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 4 Hr	F Rating - 4 Hr
T Rating - 1/2 Hr	FT Rating - 1/2 Hr
	FH Rating - 4 Hr
	FTH Rating - 1/2 Hr



1. **Floor or Wall Assembly** - Min 8 in. (403 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max area of opening is 240 sq in. (0.15 m<sup>2</sup>) with max dimension of 24 in. (610 mm).

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

2. **Cables** - One or more individual cables or max 4 in. (102 mm) diam tight bundle of cables. Individual cables or cable bundles spaced min 4 in. (102 mm) from other penetrants. Min clearance between individual cables or cable bundles and periphery of opening is 1/4 in. (6 mm). Cables rigidly supported on both sides of floor or wall. Any combination of the following types and sizes of cables may be used:

- A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation or with plenum rated jacketing and insulation.
- B. Max 1250 kcmil single copper conductor power cable with XLPE jacket and insulation.
- C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
- D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
- E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
- F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with plenum or non-plenum rated jacketing and insulation.
- G. Max four pair No. 22 AWG (or smaller) copper conductor data cable with plenum or non-plenum rated jacketing and insulation.
- H. Max RG/U coaxial cable with plenum or non-plenum rated insulation and jacketing.
- I. Fiber optic cable with plenum or non-plenum rated jacket and insulation having a max diam of 5/8 in. (16 mm).
- J. Aluminum or steel armored optical fiber cables jacketed with plenum or non-plenum rated jacket and insulation having a max diam of 5/8 in.



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

- A. **Fill, Void or Cavity Materials\* - Putty or Sealant** - Min 3/16 in. (5 mm) thick by 2 in. (51 mm) wide band of putty or sealant required around each individual cable or cable bundle on both sides of floor or wall assembly. Putty or sealant band installed to project approx 1 in. (25 mm) beyond each face of the composite sheet (Item 3B) on both sides of floor or wall assembly. Nom 3/16 in. (5 mm) wide by 3/16 in. (5 mm) thick putty strips or nom 1/4 in. (6 mm) diam bead of sealant applied beneath composite sheet around entire perimeter of through opening on both surfaces of the floor or on both sides of the wall. Min 3/16 in. (5 mm) cove bead of putty or sealant to be applied around the base of each cable bundle at its egress from the intumescent sheet on both surfaces of the floor or both sides of the wall assembly.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal Firestop Putty, SpecSeal SSS Sealant or SpecSeal LCI Sealant

- B. **Fill, Void or Cavity Materials\* - Composite Sheet** - Foil-faced sheet with galv steel sheet backer. Sheets may be installed as one solid sheet, cut in two pieces or slit on one side of the penetrant(s). Opening in intumescent sheet to be max 1/4 in. (6 mm) larger than through penetrants. Sheets cut to lap a min of 2 in. (51 mm) on the floor or wall surfaces. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against floor or wall surface) and secured to floor or wall surface with min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel concrete screws, min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers, or min 0.145 in. (3.7 mm) diam by 3/4 in. (19 mm) long powder actuated fasteners in conjunction with min 1 in. (25 mm) diam steel fender washers. Max spacing of fasteners not to exceed 7 in. (178 mm) with additional fasteners located on each side of butted seams or slits made to permit installation of the sheet around the penetrants. Sheet installed on both surfaces of floor or on both sides of wall.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal CS Composite Sheet

- C. **Steel Cover Strip** - Min 2 in. (51 mm) wide strip of min 0.018 in. (0.46 mm) thick galv steel centered over entire length of each butted seam or slit made in the intumescent sheet (Item 3B). Prior to installation of the steel strip, the seam or slit in the intumescent sheet shall be covered with a nom 1/8 by 1/2 in. (3.2 mm by 13 mm) ribbon of putty or a nom 1/4 in. (6 mm) diam bead of sealant (Item 3A). Steel cover strip secured to galv steel sheet backer of composite sheet with steel sheet metal screws or steel rivets spaced max 3 in. (76 mm) OC on each side of seam or slit.

\* 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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