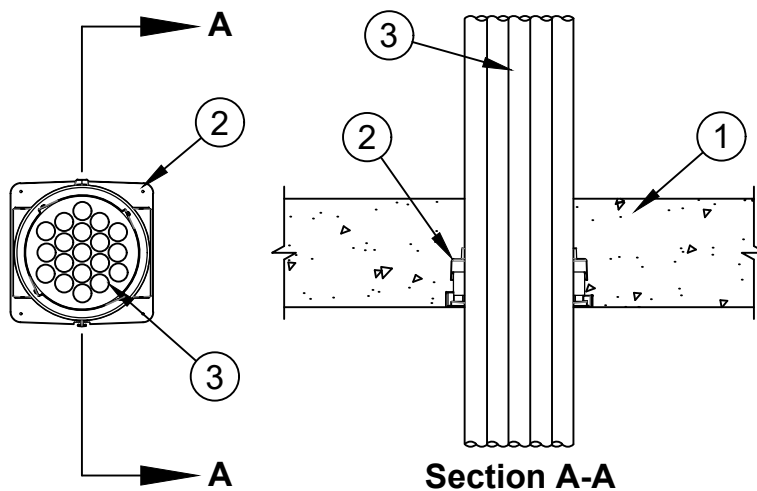




### System No. F-A-3055

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 and 3 Hr (See Items 1 and 1A)	F Ratings - 2 and 3 Hr (See Items 1 and 1A)
T Rating - 0 Hr	FT Rating - 0 H
L Rating At Ambient - Less Than 1 CFM/ft <sup>2</sup> (See Items 3, 4 and 6)	FH Ratings - 2 and 3 Hr (See Items 1 and 1A)
L Rating At 400° F - Less Than 1 CFM/ft <sup>2</sup> (See Items 3, 4 and 6)	FTH Rating - 0 Hr
W Rating - Class 1 (See Items 3, 4 and 6)	L Rating At Ambient - Less Than 5.1 L/s/m <sup>2</sup> (See Items 3, 4 and 6)
	L Rating At 400° F - Less Than 5.1 L/s/m <sup>2</sup> (See Items 3, 4 and 6)



1. **Floor Assembly** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete floor. When concrete thickness is min 4-1/2 in. (114 mm), the F and FH Ratings are 3 hr. When concrete thickness is min 2-1/2 in. (64 mm), the F and FH Ratings are 2 hr.
- 1A. **Alternate Floor Assembly** - (Not Shown) - The fire rated unprotected concrete and steel deck floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
  - A. **Concrete** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete, as measured from the top plane of the steel floor units. When concrete thickness is min 4-1/2 in. (114 mm), the F and FH Ratings are 3 hr. When concrete thickness is min 2-1/2 in. (64 mm), the F and FH Ratings are 2 hr.
  - B. **Steel Floor and Form Units\*** - Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. **Firestop Device\*** - Cast in place firestop device permanently embedded during the concrete pour or grouted into the concrete assembly in accordance with the accompanying installation instructions. The devices may be cut flush or extend above the top surface of the floor.
 

**SPECIFIED TECHNOLOGIES INC** - SpecSeal CD201, CD201C, CD202, CD201GW, CD301, CD301C, CD302, CD301GW, CD401, CD402 or CD401GW Cast In Firestop Device
- 2A. **Firestop Device\*** - (Not Shown) - When Item 1A is used, a steel deck adapter kit consisting of steel plates and a nonmetallic extension tube is used in conjunction with Item 2. Install the deck adapter in accordance with the accompanying installation instructions.
 

**SPECIFIED TECHNOLOGIES INC** - SpecSeal CD201DK, CD301DK, or CD401DK Cast In Firestop Device Deck Adapter



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2B. **Firestop Device\*** - (Not Shown) - When the concrete thickness exceeds 8 in. (203 mm), a nonmetallic extension tube shall be used in conjunction with Item 2. The extension tube shall be installed in accordance with the accompanying installation instructions. The extension tube may be cut flush with the top surface of the floor or extend beyond the top surface of the floor.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal CD201EK, CD301EK, or CD401EK Cast In Firestop Device Extension

3. **Cables** - Cables to be rigidly supported on both sides of the assembly. When L or W Ratings are required, aggregate cross-sectional area of cables in device to be max 40 percent of the cross-sectional area of the opening in device. Min separation between cables and between cables and periphery of opening is 1/8 in. (3 mm). See table below for max cable bundle diameter. Any combination of the following types and sizes of cables may be used:

- A. Max 1/C 750 kcmil cable with crosslinked polyethylene (XLPE) jacket.
- B. Max 7/C No. 12 AWG or max 12/C No. 14 AWG cable with XLPE insulation and jacket.
- C. Max 400 pair No. 24 AWG cable with PVC or plenum-rated insulation and jacket.
- D. Max 3/8 in. diam optical fiber communication cable with PVC or plenum-rated jacket.
- E. Max 1/2 in. diam aluminum or steel armored optical fiber communication cable with PVC or plenum-rated jacket.
- F. Max 4 pair No. 24 AWG Cat 5, Cat 5E or Cat 6 cable with PVC or plenum-rated jacket.
- G. Coaxial cable with fluorinated ethylene insulation and jacket having a max diam of 5/8 in. (16 mm).

Max Cable Diam, in. (mm) (a)	Firestop Device
2-3/8 (60)	CD201, CD201C, CD202, CD201GW
3-1/2 (89)	CD301, CD301C, CD302, CD301GW
4-1/2 (114)	CD401, CD402, CD401GW

(a) When cable bundle diam is smaller than those shown in the table above, fill material or packing material shall be installed into the device as described within Item 4 and 5.

- 4. **Packing Material** - (Not Shown) - When required under Item 3, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool firmly packed into device flush with top edge of device (Item 2) and extending a min 1 in. (25 mm) below the top surface of the floor. When W or L Ratings are required, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool firmly packed into the top of the device (Item 2) and recessed min 1/4 in. (6 mm) from top edge of device to accommodate for sealant (Item 6).
- 5. **Fill, Void, or Cavity Material\* - Putty** - (Not Shown) - When required under Item 3, as an option to Item 4, min 1 in. (25 mm) depth of fill material applied to fill annulus between penetrant and throat of firestop device at top of floor.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal Putty

- 6. **Fill, Void, or Cavity Material\*** - (Optional, Not Shown) - To achieve L or W Ratings, apply min 1/4 in. (6 mm) depth of sealant atop packing material (Item 4) flush with top edge of device with all interstices between cables filled.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal SIL300 Sealant or SpecSeal SIL300 SL Sealant

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

+Bearing the UL Listing Mark



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