

System No. F-B-2058

F Rating - 2 Hr

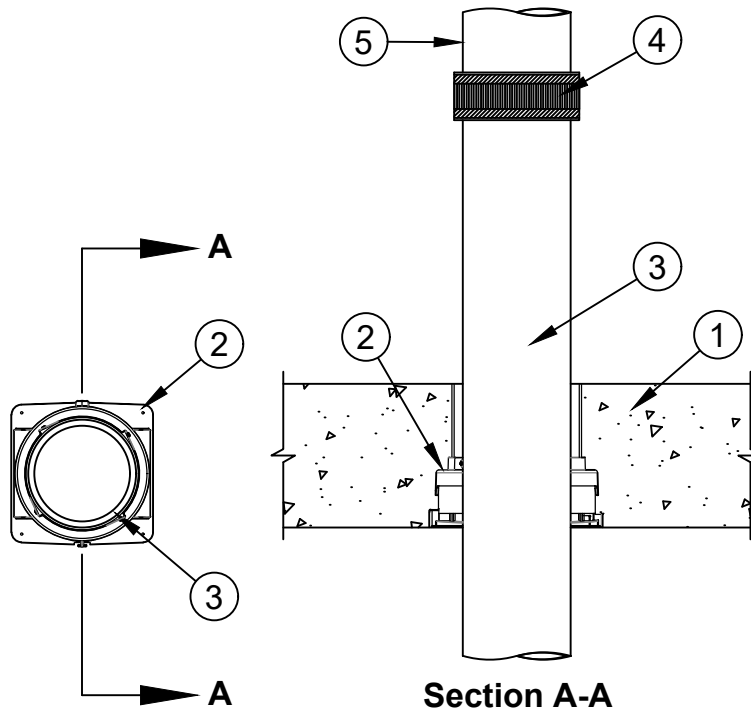
FT Ratings - 0 and 2 Hr (See Item 3)

FH Rating - 2 Hr

FTH Rating - 0 and 2 Hr (See Item 3)

L Rating At Ambient - Less Than 5.1 L/s/m² (See Items 3, 6 and 7)

L Rating At 400° F - Less Than 5.1 L/s/m² (See Items 3, 6 and 7)



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Floor Assembly** - Min 152 mm (6 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete floor.
- 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 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete, as measured from the top plane of the steel floor units.
 - B. **Steel Floor and Form Units*** - Composite or non-composite max 76 mm (3 in.) 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 CD200, CD201C, CD201GW, CD300, CD301C, CD301GW, CD400, 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 CD200DK, CD201DK, CD300DK, CD301DK, CD400DK or CD401DK Cast In Firestop Device Deck Adapter



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- 2B. **Firestop Device*** - (Not Shown) - When the concrete thickness exceeds 203 mm (8 in.), a nonmetallic extension tube is used in conjunction with Item 2. Install the extension tube in accordance with the accompanying installation instructions.

SPECIFIED TECHNOLOGIES INC - - SpecSeal CD200X, CD201EK, CD300X, CD301EK, CD400X or CD401EK Cast In Firestop Device Extension

3. **Nonmetallic Penetrants** - One nonmetallic pipe to be installed within the firestop system. Pipe to extend min 305 mm (12 in.) above top surface of floor. Pipe to be rigidly supported on both sides of the floor assembly. The following types and sizes of the nonmetallic pipes may be used:
- A. **Polyvinyl Chloride (PVC) Pipe** - Nom 102 mm (4 in.) diam (or smaller) solid or cellular core Schedule 40 polyvinyl chloride (PVC) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 102 mm (4 in.) diam (or smaller) SDR 13.5 chlorinated polyvinyl chloride (CPVC) pipe for use in closed (process or supply) piping systems.
 - C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 102 mm (4 in.) diam (or smaller) solid or cellular core Schedule 40 acrylonitrile butadiene styrene (ABS) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - D. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 102 mm (4 in.) diam (or smaller) SDR 11 CPVC pipe for use in closed (process or supply) piping systems.

IPEX INC - AquaRise

Nom Pipe Diam (a)	Firestop Device
38 or 51 mm (1-1/2 or 2 in.)	CD200, CD201C, CD201GW
64 or 76 mm (2-1/2 or 3 in.)	CD300, CD301C, CD301GW
89 or 102 mm (3-1/2 or 4 in.)	CD400, CD401, CD402, CD401GW

(a) When nonmetallic pipe with diam smaller than those shown in the table above is used, packing material shall be installed in the device as described in Item 6. L Ratings for these penetrants only apply when the fill material (Item 7) is used. Otherwise, the L Rating for each firestop device is less than 5.1 L/s/m² at ambient and at 400F.

When Item 3A, 3B or 3D is used, T Rating is 2 hr. When Item 3C is used T Rating is 0 hr.

4. **Compression Coupling** - Nonmetallic pipe (Item 3) to be secured to metallic pipe (Item 5) with compression type high pressure pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps.
5. **Metallic Pipe** - Nom 102 mm (4 in.) diam (or smaller) Schedule 10 (or heavier) cast or ductile iron pipe. Pipe to be rigidly supported.
6. **Packing Material** - (Not Shown) - When required under Item 3, min 102 mm (4 in.) thickness of min 64 kg/m³ (4 pcf) mineral wool firmly packed into device flush with top edge of device (Item 2), and extending a min 25 mm (1 in.) below the top surface of the floor. When L Ratings for penetrants with a diam smaller than those shown in the table are required, recess mineral wool 6 mm (1/4 in.) from top edge of device to accommodate sealant (Item 7).
7. **Fill, Void, or Cavity Material*** - (Optional, Not Shown) - To achieve L Ratings for penetrants with a diam smaller than those shown in the table in Item 3, apply min 6 mm (1/4 in.) depth of sealant atop packing material (Item 6) flush with top edge of device (Item 2).

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SIL300 Sealant or SpecSeal Series 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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