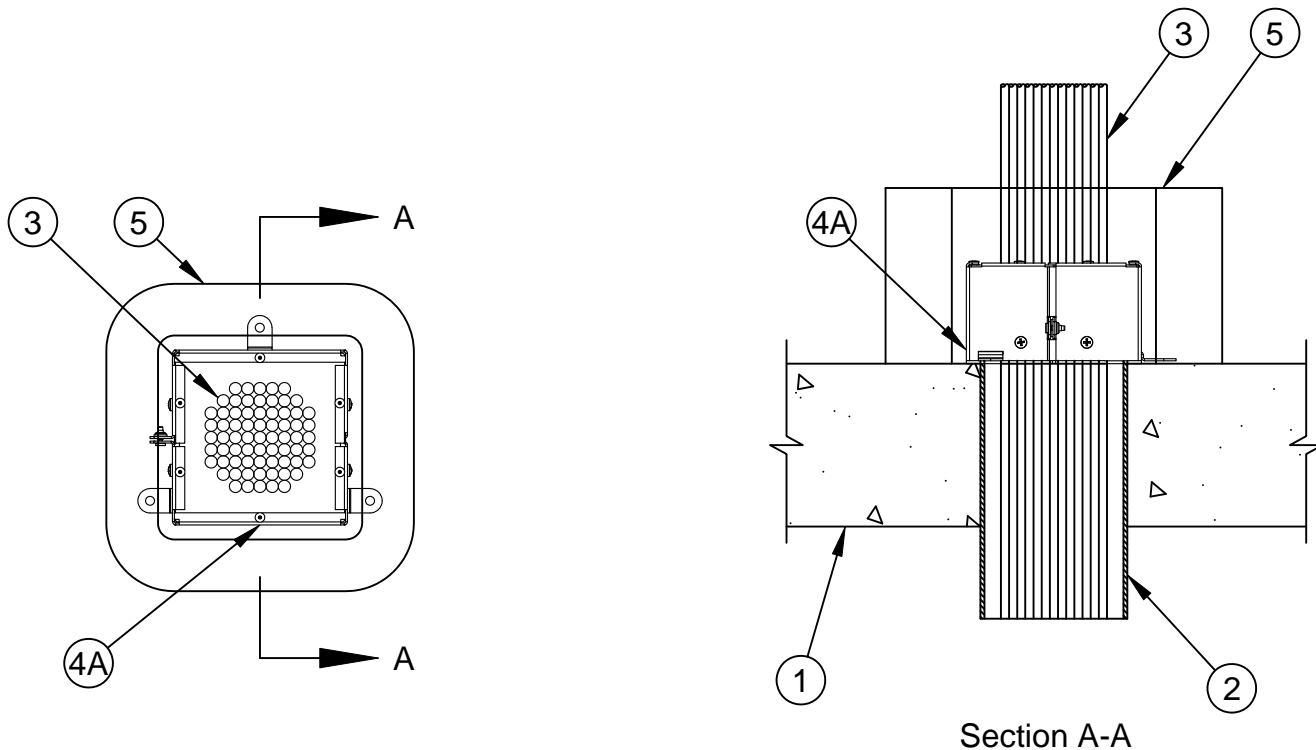


## System No. F-A-3064



ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Ratings - 1-1/4 and 2 Hr (See Item 5)	FT Ratings - 1-1/4 and 2 Hr (See Item 5)
L Rating at Ambient - 2 to 14 CFM/Device (See item 4C)	FH Rating - 2 Hr
L Rating at 400 F - 2 to 14 CFM/Device (See item 4C)	FTH Ratings - 1-1/4 and 2 Hr (See Item 5)
	L Rating at Ambient - 0.94 to 6.6 L/s/Device (See item 4C)
	L Rating at 204 C - 0.94 to 6.6 L/s/Device (See item 4C)



1. **Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete floor. Floor may also be constructed of any min 6 in. (152 mm) thick hollow core **Precast Concrete Units\***. Max diam of opening is 4-1/2 in. (114 mm).  
See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names of manufacturers.
2. **Steel Sleeve** - Nom 1-1/2 (38 mm), 2 in. (51 mm), 3 in. (76 mm) or 4 in. (102 mm) diam steel electrical metallic tubing (EMT), steel conduit, Schedule 5 (or heavier) steel pipe sleeve. Sleeve shall be cast or grouted into floor, flush with floor surfaces or extending down to 3 in. (76 mm) beyond the bottom surface of the floor. When sleeve projects from floor surface, it may be provided with a metallic or nonmetallic conduit bushing.
3. **Cables** - Cables may represent a min 50 to max 100 percent visual fill within the loading area for the sleeve. Cables to be rigidly supported on both sides of the floor 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 telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
  - B. Max 750 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. 2/0 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 PVC or plenum rated jacketing and insulation.



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- G. Max four pair No. 22 AWG (or smaller) Cat 5, Cat 5E, Cat 6 or Cat 6A cable with PVC or plenum rated jacketing and insulation.
  - H. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
  - I. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
  - J. Max RG6/U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.
4. **Firestop System** - The firestop system shall consist of the following:
- A. **Firestop Device\*** - A firestop device consisting of a rectangular galv steel housing with intumescent curtain sized to the specific diam of the sleeve. Firestop device installed in accordance with the accompanying installation instructions on the top surface of the floor. Firestop device secured to the top surface of the floor using provided anchor tabs by means of 1/4 in. (6.4 mm) diam by 1-1/4 in. (32 mm) long steel concrete anchors in conjunction with min 1 in. (25 mm) diam steel fender washers. As an alternate to the steel concrete screws, nom 1-1/4 in. (32 mm) long steel powder actuated fasteners provided with 3/4 in. (19 mm) diam steel washers or nom 3/4 in. (19 mm) long steel powder actuated fasteners provided with 1 in. (25 mm) diam steel washers may be used to secure anchor tabs.

**SPECIFIED TECHNOLOGIES INC** - EZ PATH Retrofit Device EZDR200 or EZDR400

- A1. **Firestop Device\*** - (Not Shown) - When nom 1-1/2 in. (38 mm) or nom 3 in. (76 mm) diam steel sleeve is used, an appropriately sized steel plate adaptor kit shall be used in conjunction with Item 4A. The steel plate shall be installed in accordance with the accompanying installation instructions.

**SPECIFIED TECHNOLOGIES INC** - EZ PATH Retrofit Device Plate Kit EZPR150 or EZPR300

- B. **Fill, Void or Cavity Material\* - Sealant or Putty** - (Optional, Not Shown) Any existing XHHW sealant or putty either partially or fully installed into one or both ends of the steel sleeve.
- C. **Fill, Void or Cavity Material\* - Sealant or Putty** - (Optional, Not Shown) - Min 1/2 in. (13 mm) thickness of sealant or putty applied within annulus, flush with the top surface of the steel sleeve.

Device	Max Visual Cable Fill	Putty or Sealant	L-Rating CFM/Device (L/s/Device)		Sleeve Size in. (mm)
			Ambient	400°F (204°C)	
EZDR200	50%	No	6.2 (2.9)	6.2 (2.9)	2 (51)
EZDR200	51% - 75%	No	6 (2.8)	6 (2.8)	2 (51)
EZDR200	76% - 100%	No	4.7 (2.2)	4.7 (2.2)	2 (51)
EZDR200	50%	Yes	2 (0.9)	2 (0.9)	2 (51)
EZDR200	51% - 75%	Yes	2.3 (1.1)	2.3 (1.1)	2 (51)
EZDR200	76% - 100%	Yes	2.7 (1.3)	2.7 (1.3)	2 (51)
EZDR400	50%	No	10.5 (5.0)	10.5 (5.0)	4 (102)
EZDR400	51% - 75%	No	10.5 (5.0)	10.5 (5.0)	4 (102)
EZDR400	76% - 100%	No	14 (6.6)	14 (6.6)	4 (102)
EZDR400	50%	Yes	3.8 (1.8)	3.8 (1.8)	4 (102)
EZDR400	51% - 75%	Yes	6.8 (3.2)	6.8 (3.2)	4 (102)
EZDR400	76% - 100%	Yes	6.8 (3.2)	6.8 (3.2)	4 (102)

**SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant, SpecSeal LC150 Sealant, SpecSeal LCI Sealant, SpecSeal SIL300 Sealant or SpecSeal Putty

- 5. **Batts and Blankets\*** - Two min 12 in. (305 mm) wide layers of nom 2 in. (51 mm) thick nom 1 pcf (16 kg/m<sup>3</sup>) fiberglass duct wrap insulation installed around device and cables. Insulation to be tightly butted to the top surface of the floor and all longitudinal seams of duct wrap are to be sealed with foil tape.

See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers. Any batts and blankets material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

**When Item 5 is used at a min height of 18 in. (457 mm) the T, FT and FTH Ratings are 1-1/4 Hr. When Item 5 is used at a min height of 36 in. (914 mm), the T, FT and FTH Ratings are 2 Hr.**

\* 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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