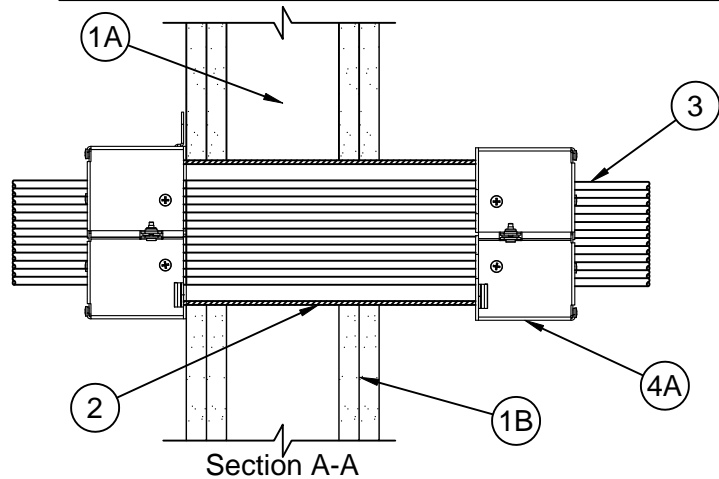
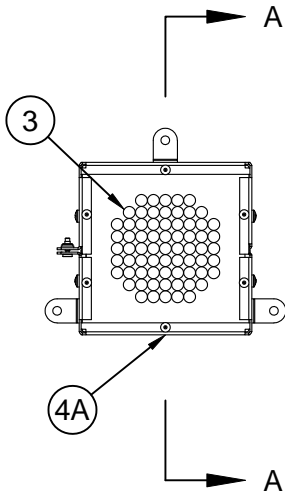


System No. W-L-3435



ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0 and 1/2 Hr (See Item 2)	FT Ratings - 0 and 1/2 Hr (See Item 2)
L Rating at Ambient - Less than 1 to 10.7 CFM/Device (See item 4C)	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating at 400 F - Less than 1 to 10.7 CFM/Device (See item 4C)	FTH Ratings - 0 and 1/2 Hr (See Item 2)
	L Rating at Ambient - Less than 0.47 to 5.05 L/s/Device (See item 4C)
	L Rating at 204 C- Less than 0.47 to 5.05 L/s/Device (See item 4C)



1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** - Thickness, type, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (140 mm) when sleeve (Item 2) extends from wall surface. When sleeve is flush with wall surface, opening sized to outside diameter of sleeve.

The F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.

2. **Steel Sleeve** - Nom 2 in. (51 mm) or 4 in. (102 mm) diam steel electrical metallic tubing (EMT), steel conduit, Schedule 5 (or heavier) steel pipe sleeve or min 0.016 in. thick (0.41 mm, No. 28 ga) galv sheet steel sleeve installed flush with wall surfaces. The annular space between the steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 1 in. (25 mm). Sheet steel sleeve to be installed in continuous point contact only. When Schedule 5 steel pipe, steel conduit or EMT is used, sleeve may be installed flush with or extend up to 3 in. (76 mm) beyond one or both wall surfaces. When sleeve projects from wall surface, it may be provided with a metallic or nonmetallic conduit bushing. Steel sleeve may be installed at an angle not greater than 45 degrees from perpendicular. Schedule 5 steel pipe, steel conduit or EMT sleeves may extend continuously beyond one wall surface. Sleeve to be rigidly supported when extending from the wall surfaces.

When sleeve is flush with wall surface in 2 Hr rated assemblies, the T, FT, and FTH Ratings are 1/2 Hr. Otherwise, the T, FT, and FTH Ratings are 0 Hr.

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 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 telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.



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- 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.
 - 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 each side of the wall. Firestop device secured to end of sleeve when sleeve extends from wall surface. When sleeve extends continuously beyond one wall surface, firestop device shall be installed only on the side of the wall with a sleeve termination. When sleeve is flush with wall surface, firestop device secured to assembly using provided anchor tabs by means of 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel molly bolts or toggle bolts in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers.

SPECIFIED TECHNOLOGIES INC - EZ PATH Retrofit Device EZDR200 or EZDR400

- 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. When annular space is present between the sleeve and the periphery of the opening, a min 5/8 in. (16 mm) thickness of any existing XHHW sealant or putty shall be applied within the annulus, flush with both surfaces of wall.
- 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 both ends of sleeve. When annular space is present between the sleeve and the periphery of the opening, a min 1/2 in. (13 mm) thickness of sealant or putty shall be applied within the annulus, flush with both surfaces of the wall.

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

Device	Max Visual Cable Fill	Putty or Sealant	L-Rating (CFM)		Sleeve Size in. (mm)
			Ambient	400°F	
EZDR200	50%	No	3.3	3.3	2 (51)
EZDR200	51% - 75%	No	3.7	3.7	2 (51)
EZDR200	76% - 100%	No	4	4	2 (51)
EZDR200	50%	Yes	Less Than 1	Less Than 1	2 (51)
EZDR200	51% - 75%	Yes	1.5	1.5	2 (51)
EZDR200	76% - 100%	Yes	1.8	1.8	2 (51)
EZDR400	50%	No	7.8	7.8	4 (102)
EZDR400	51% - 75%	No	8	8	4 (102)
EZDR400	76% - 100%	No	10.7	10.7	4 (102)
EZDR400	50%	Yes	1.3	1.3	4 (102)
EZDR400	51% - 75%	Yes	3.7	3.7	4 (102)
EZDR400	76% - 100%	Yes	5.2	5.2	4 (102)

* 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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