

System No. W-L-2445
XHEZ-W-L-2445
Through-penetration Firestop Systems

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XHEZ - Through-penetration Firestop Systems

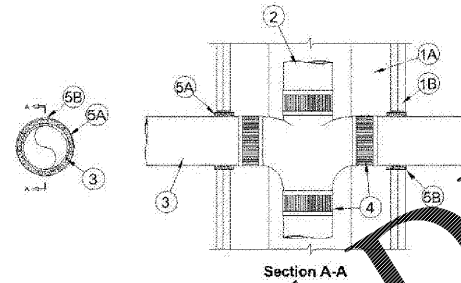
See General Information for Through-penetration Construction System

System No. W-L-2445

January 20, 2015

T Rating: 1 and 2 Hr (See Item 1)

T Rating: 0, 1/2 and 3/4 Hr (See Item 2)



1. Wall Assembly - The 1 or 2 hr fire-rated system board shall be installed in accordance with the manufacturer's instructions and shall include the following for construction features:

A. Studs - Studs shall be installed in the wall cavity at 16 in. (406 mm) on center. Studs shall be 2 by 4 in. (51 by 102 mm) nominal size or equivalent. Studs shall be 2 by 4 in. (51 by 102 mm) nominal size or equivalent. Studs shall be 2 by 4 in. (51 by 102 mm) nominal size or equivalent.

B. System - The penetration type, hydrant, number, hydrant type and sheet orientation shall be as specified in the individual UL557, UL500 or V-Listed Design in the UL Fire Resistance Directory for a depth of 4 in. (102 mm).

2. Seal Putty - Max 1/4 in. (6 mm) thick seal putty shall be applied to the wall cavity of the wall assembly. Seal putty shall be applied to the wall cavity of the wall assembly.

Through Penetrations - One nominal pipe shall be installed within the firestop system. See Table under Item 5B for annular space and amulet spacing. Pipes to be rigidly supported on both sides of wall assembly. Annulet pipe connected to wall assembly shall be secured with compression coupling (Item 4). The following types and sizes of nonmetallic pipe shall be permitted:

- A. Polyvinyl Chloride (PVC) Pipe** - 6 in. (152 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- B. Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping system.
- C. Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

The T Rating for 2 hr fire-rated walls is 0 hr. The T Rating for 1 hr fire-rated walls is 3/4 hr for nom 1-1/2, 2 and 3 in. (38, 51 and 75 mm) diam through penetrations. The T Rating for 1 hr fire-rated walls is 1/2 hr for nom 4 and 6 in. (102 and 152 mm) diam through penetrations.

4. Compression Coupling - Seal steel fitting and nonmetallic pipe to be secured together with compression type pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps. Each coupling to be installed entirely within the stud cavity.

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

A. Fill, Void or Cavity Material* - Wrap Strip - See Table under Item 5B for min size of intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and also into the annular space such that approx 1/8 in. (3 mm) of the wrap strip protrudes from the wall surface. Wrap strip is held in place with integral fastening tape. Wrap strips installed on each surface of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 6485 - 1.5", CP 6485 - 2", CP 6485 - 3", CP 6485 - 4" and CP 6485 - 6"

B. Fill, Void or Cavity Material* - Caulk - Min 1/4 in. (6 mm) thickness of fill material applied within the annulet. Flush with both surfaces of wall. For 2 hr fire-rated walls, 1/4 in. (6 mm) bead of material also applied at wrap strip/system wall interface. In 1 hr fire-rated walls, fill material is optional for nom 1-1/2, 2, 3 and 4 in. (38, 51, 75 or 102 mm) diam penetrations.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant or FS-ONE MAX Intumescent Sealant

Nom Pipe Diam, in. (mm)	Wrap Strip	Wrap Strip Size, thick. x width, in. (mm)	Max Diam of Opening, in. (mm)	Annulet Space, in. (mm)	
				Min	Max
1-1/2 (38)	CP 6485 - 1.5" US	3/16 x 1 (5 x 25)	2-3/8 (60)	3/16 (4.8)	5/16 (8)
2 (51)	CP 6485 - 2" US	3/16 x 1 (5 x 25)	2 (76)	3/16 (4.8)	5/16 (8)
3 (76)	CP 6485 - 3" US	3/16 x 1-3/4 (5 x 44)	4 (102)	3/16 (4.8)	5/16 (8)
4 (102)	CP 6485 - 4" US	3/8 x 1-3/4 (9.5 x 44)	5-3/8 (137)	3/8 (9.5)	1/2 (12.7)
6 (152)	CP 6485 - 6" US	1/2 x 1-3/4 (12 x 44)	9 (229)	9/16 (14)	13/16 (21)

* 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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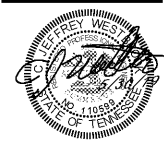
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