

INSTRUCTION SHEET

Fire Stopping Instruction Sheet

There is a wide range of fire stopping solutions that have been tested and listed with PEX pipe; including intumescent caulks, wrap strips, pass-through devices, collars and cast-in-place sleeves. Some fire stop manufacturers include, but are not limited to, 3M™, Hilti®, RectorSeal®, Passive Fire Protection Partners, Specified Technologies Inc., Holdrite® and ProSet Systems®.

The steps below show an example of how to research and find a listed fire stop assembly for PEX pipe.

Step One

Choose a fire stop solution manufacturer and consult their website or search the **UL Online Certifications Directory** for applicable listings. (See **Figure 1.**)

Step Two

Select the desired and specified features of the through penetration system. Defining the country of use, assembly type, penetrating item, fire stopping product and F rating of the system may help refine search results. (See **Figure 2.**)

Step Three

Review the system matches for accuracy and consider all available options. In regards to fire listings for pressure pipe applications, domestic water piping (Division 22, Section 22 11 16) and hydronic piping (Division 23, Section 23 21 13) may be defined as being “closed” or “pressure” type systems. (See **Figure 3.**)

Figure 1: UL Online Certifications Directory

9 System Matches	
Features selected	Selected Preference
Country of Product Use	United States
System Category	Through Penetrations
Assembly Description	Gypsum Walls
3M Products	3M(TM) Fire Barrier Sealant CP 25WB+
Specific Penetrating Item	PEX
Features available	Select Preference
Floor Assembly Description	-- No Preference --
Through Penetrant	-- No Preference --
F Rating	1, 2
T Rating	-- No Preference --
Minimum Annular Space	-- No Preference --
Maximum Annular Space	-- No Preference --
Maximum Opening	-- No Preference --
Test Agency	-- No Preference --
9 System Matches	

Figure 2: Select Appropriate Features

<input type="checkbox"/> WL2547	1, 2	3M™ Fire Barrier Sealant CP 25WB+	UL	Max 2" SDR 9 PEX (closed only). U300, U400, or V400 series gypsum wallboard assemblies. Max. diameter of opening 1½" larger than OD of penetrant. Point contact to max. 1½" annular space. Concentric or eccentric installations. 1 & 2 hour F rating. No mineral wool required.
		3M™ Fire Barrier Sealant IC 15WB+		
		3M™ Fire Barrier Water tight Sealant 3000 WT		

Figure 3: Search Results

Step Four

Ensure the selected fire assembly document matches:

- Type of construction
- F rating of assembly
- Through penetrant defined as crosslinked polyethylene pipe or PEX pipe
- Range of pipe size being installed
- Penetration hole size and shape
- Fire stop solution availability

(See **Figures 4, 5 and 6.**)

Note: It may be desirable to select a fire stop product that can be used for other MEP system penetrations such as DWV and conduit applications. This can help ease coordination on the jobsite during the fire stop installation.

Refer to the respective firestop manufacturer for more information pertaining to the appropriate application of their products. Be mindful of information stated in the published listings to ensure compliance during installation.

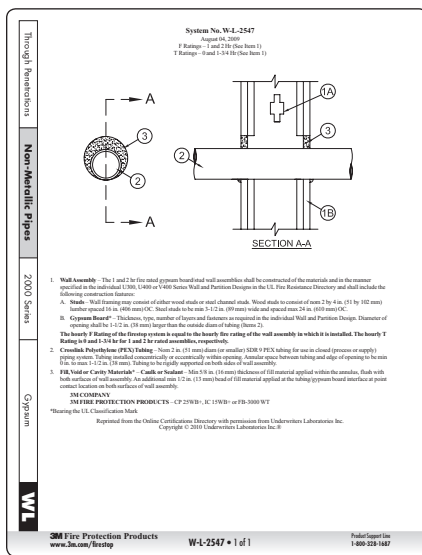


Figure 4: Fire Assembly Document

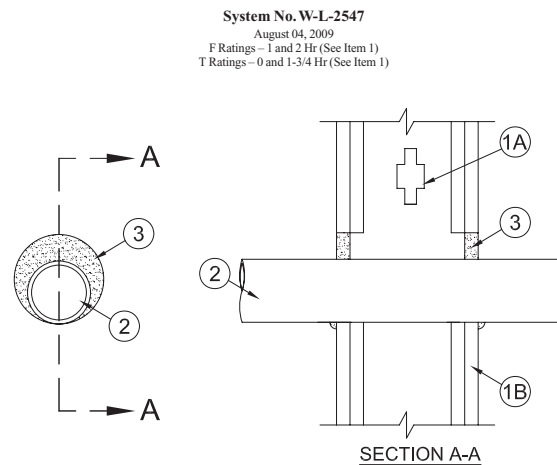


Figure 5: Assembly Drawing

- 1. Wall Assembly** — The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individuals U300, U400 or V400 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 and fasteners as required in the individuals Wall and Partition Design. Diameter of opening shall be 1-1/2 in. (38 mm) larger than the outside diameter of tubing (Item 2).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is install. The hourly T Rating is 0 and 1-3/4 hr for 1 and 2 hr rated assemblies, respectively.
C. Crosslink Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diameter (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping system. Tubing installed concentrically or eccentrically within opening. Annular space between tubing and edge of opening to be min 0 in. to max 1-1/2 in. (38 mm). Tubing to be rigidly supported on both sides of wall assembly.
d. Fill, Void or Cavity Materials* — Caulk or Sealant — Min 5/8 in. (16 mm) thickness of fill materials applied within the annulus, flush with both surfaces of wall assembly. An additional min 1/2 in. (13 mm) bead of fill material applied at the tubing/gypsum board interface at point contact location on both surfaces of wall assembly.

3M COMPANY
3M FIRE PROTECTION PRODUCTS — CP25WB+, IC15WB+ OR FB-3000WT

*Bearing the UL Classification Mark

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Figure 6: Assembly Criteria

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