

3M Company
Design No. 3M/PHV 120-11
Through Penetration
3M™ Fire Barrier Ultra GS Wrap Strip
3M™ Fire Barrier CP 25WB+
3M™ MPS Moldable Putty+ (MPS2)

CAN/ULC-S115, ASTM E814
Rating: See Table 1
Pressure Differential: Positive, 50 Pa (0.20 in. w.g.)

TABLE 1. RATINGS

Design	Penetrating Item	Max. Pipe Size	CAN/ULC-S115		ASTM E814	
			F, FH	FT, FTH	F	T
A	PEX	1 in.	2 Hr.	0 Hr.	2 Hr.	0 Hr.
B	PEX	1 in.	1 & 2 Hr.	0 Hr.	1 & 2 Hr.	0 Hr.
C	PEX	1 in.	1 & 2 Hr.	1 & 2 Hr.	1 & 2 Hr.	1 & 2 Hr.

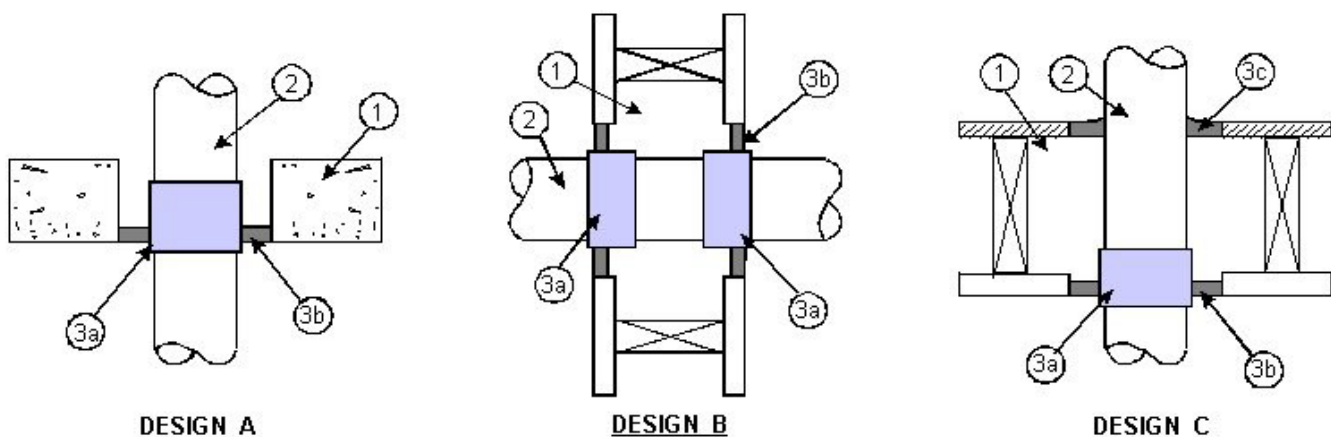


Figure 1. Penetration Detail



1. FLOOR OR WALL ASSEMBLY:

Design A: Code conforming 2 hour rated floor or wall assembly, nominal 2-1/2-in. minimum normal or low density cast concrete, hollow core concrete or Q-Deck. Floor or wall thickness to be increased as needed to meet the minimum 2-hr rating based on the listed design or prescriptive design. Wall may also be constructed of nominal 8-in. thick concrete blocks (filled or unfilled).

Design B: Code conforming to 1 or 2 hour rated wall, nominal 2x4 steel/wood framed gypsum wallboard, wall assembly.

Design C: Code conforming to 1 or 2 hour rated floor/ceiling assembly, framed with nominal 2x10 solid sawn or manufactured wood joists, topping optional (not shown).

- 2. PENETRATING ITEMS:** (See Table 1) One nominal 1-in. diameter (or smaller) PEX Pipe installed within the maximum 1-1/2-in. diameter opening, for use in Closed (Process & Supply) piping systems. Ratings will equal that of the floor or wall assembly.

3. FIRESTOP SYSTEM COMPONENTS:

- a) **Certified Products: 3M™ Fire Barrier Ultra GS Wrap Strip:** Install within the opening, wrapped tightly around the pipe with butted seam, 1/4 in. of the wrap strip projects beyond the fire separation plane. A 3-in. wide adhesive backed aluminum foil tape, cut 1 in. longer than the wrap strip, is applied to the surface of the wrap strip to secure it to the pipe. System is applied to both sides in wall applications.
- b) **Certified Products: Caulk or Putty**
- **3M™ Fire Barrier CP 25WB+**
 - **3M™ MPS Moldable Putty+ (MPS2)**
- Use to fill the annular space at the pipe penetration as a smoke seal.
- c) **Certified Products: Caulk or Putty**
- **3M™ Fire Barrier CP 25WB+**
 - **3M™ MPS Moldable Putty+ (MPS2)**
- Use to fill the annular space at the pipe penetration through the floor membrane.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.