

**3M Company**  
**Design No. 3M/PV 120-03**  
**Through Penetration**  
**3M™ Fire Barrier Ultra GS Wrap Strip**  
**3M™ Fire Barrier FS-195+ Wrap Strip**  
**3M™ Fire Barrier RC-1 Collar**  
**3M™ FireDam FD-150+**  
**3M™ Fire Barrier CP 25WB+**  
**3M™ Fire Barrier 3000WT**  
**CAN/ULC-S115**  
**Rating: See Table 1**  
**Pressure Differential: Positive, 50 Pa (0.20 in. w.g.)**

**TABLE 1. RATINGS**

|                         |                       | <b>CAN/ULC-S115</b>   |
|-------------------------|-----------------------|-----------------------|
| <b>Penetrating Item</b> | <b>Max. Pipe Size</b> | <b>F, FT, FH, FTH</b> |
| <b>PVC</b>              | <b>4 in.</b>          | <b>1 &amp; 2 Hr</b>   |
| <b>XFR</b>              | <b>4 in.</b>          | <b>1 &amp; 2 Hr</b>   |

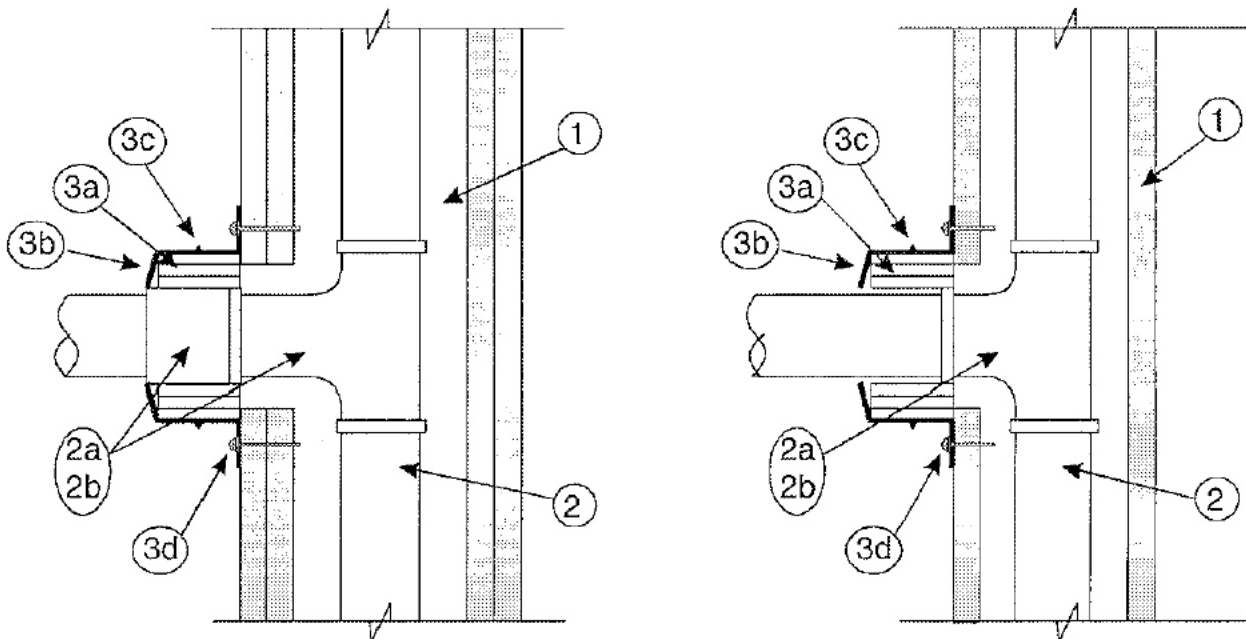


**Figure 1. Penetration Detail**



1. **WALL ASSEMBLY:** Code confirming 1 or 2 hour fire rated wall, metal or wood framed gypsum wallboard wall assembly. Penetrant to be located on one side of the wall assembly only. Ratings achieved will equal that of wall assembly.

2. **PENETRATING ITEMS:** (See Table 1) Maximum 4-in. ID, Sch. 40, System XFR or PVC Pipe. Maximum 1/4-in. annular space.

- a) Maximum 4-in. diameter, Sch. 40 System XFR, Fitting.
- b) Maximum 4-in. diameter, Sch. 40, PVC, Fitting.

3. **FIRESTOP SYSTEM COMPONENTS:**

a) **Certified Product: 3M™ Fire Barrier Ultra GS Wrap Strip**

Continuous wrap applied tightly to the fitting. Apply the appropriate number of layers as detailed in Table 2 below.

**Alternate Wrap Material:**

**Certified Product: 3M™ Fire Barrier FS-195+ Wrap Strip**

Apply tightly to the fitting, with butted seams and staggered joints. Apply the appropriate number of layers as detailed in Table 2 below.

b) **Certified Product: 3M™ Fire Barrier RC-1 Collar**

Anchor tabs bent out 90°, steel collar wrapped tightly over wrap material (Item 3a) with 1-in. overlap. Secure collar with stainless steel 1/2-in. Hose Clamp (Item 3c). secure collar to wall assembly through anchor tabs with 3/16-in. diameter toggle bolts with 1-1/4-in. diameter washers (Item 3d).

**Table 2. Wrap Strip Layers and Anchors**

| Fitting   | Wrap Layers | Anchors |
|-----------|-------------|---------|
| 1-1/2 in. | 3           | 2       |
| 2 in.     | 3           | 2       |
| 3 in.     | 4           | 4       |
| 4 in.     | 4           | 4       |

**\*\*Caulk Optional:**

**Certified Products: Caulk**

- 3M™ FireDam FD-150+
- 3M™ Fire Barrier CP 25WB+
- 3M™ Fire Barrier 3000WT

Fill the annular space at the pipe penetration as a smoke seal.

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.