RATED FIRESTOPS FOR PIPES, CONDUIT, AND CABLES

Firestop details 1 through 4 illustrate how pipe, conduit, or cable penetrations can be accomplished using firestop systems that are UL Listed, a summary of which is presented in Table 1. For detailed installation information, see the associated UL listing.

### TABLE 1. COMPOSITE FIRESTOP LISTING

<table>
<thead>
<tr>
<th>Penetrant</th>
<th>Max. Size</th>
<th>Ratings (Hours)</th>
<th>Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>F</td>
<td>T</td>
</tr>
<tr>
<td>Cable Bundle*</td>
<td>2-1/2&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Copper Tubing (Min. Type M)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>1/4</td>
</tr>
<tr>
<td>Copper Pipe (Regular or Heavier)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>1/4</td>
</tr>
<tr>
<td>CPVC Pipe (See Detail for Allowable SDR)*</td>
<td>4&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2&quot; ø</td>
<td>2</td>
<td>1/4</td>
</tr>
<tr>
<td>Iron Pipe (Cast or Ductile)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Pex Tubing (SDR 9)</td>
<td>2&quot; ø</td>
<td>2</td>
<td>1/2</td>
</tr>
<tr>
<td>PVC Pipe (Schedule 40)**</td>
<td>4&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Rigid Non-Metallic Conduit (Schedule 40)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Steel Pipe (Schedule 40)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Steel Tubing (Conduit)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>1/4</td>
</tr>
<tr>
<td>XFR Pipe (Schedule 40)</td>
<td>4&quot; ø</td>
<td>2</td>
<td>1/2</td>
</tr>
</tbody>
</table>

F - Fire Rating
T - Fire and Temperature Rating

**NOTES**
* See detail for allowable cables.
** Numerous listings are available, contact iSPAN Systems LP for more information
FIRESTOP LISTINGS

PENETRATION DETAILS

FIRESTOP DETAIL 1

4" COPPER, CAST IRON, EMT, OR STEEL PIPE

F-E-1027

1/4" (6 mm) diameter bead of sealant at point contact locations

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• Optional Chase Wall, see UL Listing
• Mineral wool to be min. 4 pcf
• See Table 1 for ratings

FIRESTOP DETAIL 2

4" PVC, CPVC, PVC CONDUIT OR XFR PIPE

F-E-2035

28 ga. steel sleeve, with depth 1/2" to 1" greater than floor slab, fastened with min. (2) 1/8" x 1-1/2" masonry anchors

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• Optional Chase Wall, see UL Listing
• Mineral wool to be min. 4 pcf
• SDR 13.5 for CPVC pipe
• See Table 1 for ratings
FIRESTOP DETAIL 3
2" PVC, CPVC, PVC CONDUIT OR PEX PIPE
F-E-2039, F-E-2037

ADDITIONAL INSTALLATION NOTES:
- Pipes of lesser diameter acceptable
- See UL Listing for detailed information
- Optional Chase Wall, see UL Listing
- SDR 13.5/SDR 17 for CPVC pipe
- See Table 1 for ratings

FIRESTOP DETAIL 4
MAX. 2-1/2" CABLE BUNDLE
F-E-3018

ADDITIONAL INSTALLATION NOTES:
- Cable/wire of lesser diameter acceptable
- See UL Listing for detailed information
- Optional Chase Wall, see UL Listing
- Mineral wool to be min. 4 pcf
- See Table 1 for ratings
- The following types and sizes of cables may be used:
  - Max 2/C No. 12 AWG copper conductor, aluminum clad or steel clad (BX) cable.
  - B. Max 2/C No. 14 AWG copper conductor, aluminum clad or steel clad (BX) cable.
  - C. Through Penetrating Product* - Any cables, Armored Cable+ or Metal Clad Cable+ currently classified under the Through Penetrating Product category.
  - Max 25 pair No. 22 AWG copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
  - Max 7/C No. 12 AWG copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
  - Max 4/C No. 10 AWG copper conductor, aluminum clad or steel clad (BX) cable.
  - Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.
  - Type RG/U coaxial cable with fluorinated ethylene insulation and jacket.
FIRESTOP DETAIL 5
CHASE WALL SCHEMATIC
LSF WALL FRAMING

Seal top Penetration as per UL Listed Firestop System Design (See Table 1)

Firestop Detail as per UL Listed Firestop System Design (See Table 1)

Rated steel or wood wall as per UL Design Series U300, U400, or V400