Table 1. Firestop Designs, UL Listed for the US

<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><strong>ABS Pipe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td><strong>Cable Bundle</strong>*</td>
<td>2&quot; Ø</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Copper Pipe</strong></td>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>Copper Tubing</strong></td>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>CPVC Pipe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1/4</td>
<td>–</td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td><strong>Iron Pipe (Cast or Ductile)</strong></td>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>PEX Tubing</strong></td>
<td>2&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PVC Pipe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1/4</td>
<td>–</td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td><strong>Rigid Non-metallic Conduit</strong></td>
<td>2&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Steel Pipe</strong></td>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>Steel Tubing (Conduit)</strong></td>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>XFR Pipe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3&quot; Ø</td>
<td>1</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>4&quot; Ø</td>
<td>1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

F - Fire Rating
T - Fire and Temperature Rating
L - Leakage Rate (CFM/SQ FT)

**NOTES**

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

PENETRATION DETAILS

FIRESTOP DETAIL 1
4" COPPER, STEEL, EMT, IRON PIPE
F-C-1151

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

FIRESTOP DETAIL 2
4" PVC, XFR, ABS, CPVC PIPE
F-C-2025

ADDITIONAL INSTALLATION NOTES:
- Pipes of lesser diameter acceptable
- See UL Listing for detailed information
- Optional Chase Wall, see UL Listing
- See Table 1 for ratings
FIRESTOP DETAIL 3
3" PVC, CPVC, ABS OR XFR PIPE
WITH 3" BRANCH (2" P-TRAP OPTIONAL)
F-C-2405

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• Optional Chase Wall, see UL Listing
• See Table 1 for ratings

FIRESTOP DETAIL 4
2" PEX, PVC, CPVC OR ABS PIPE
F-C-2406

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• Optional Chase Wall, see UL Listing
• ENT and FNMC allowed
• See Table 1 for ratings
FIRESTOP DETAIL 5
3" PVC, CPVC PIPE
F-C-2028

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• See Table 1 for ratings

FIRESTOP DETAIL 6
4" PVC, CPVC PIPE
F-C-2338

ADDITIONAL INSTALLATION NOTES:
• Pipes of lesser diameter acceptable
• See UL Listing for detailed information
• See Table 1 for ratings
ADDITIONAL INSTALLATION NOTES:

- See UL Listing for detailed information and for chase wall
- See Table 1 for ratings
- The following types and sizes of cables may be used:
  - Max 25 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
  - Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
  - Max 4/C No. 10 AWG (or smaller) copper conductor, aluminum clad or steel clad (BX) cable.
  - Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.
  - Max 3/C with ground No. 12 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.
  - Type RG/U coaxial cable with fluorinated ethylene insulation and jacket.

FIRESTOP DETAIL 8
CHASE WALL SCHEMATIC
LSF WALL FRAMING

Unrated LSF wall, or Rated LSF wall as per UL Design Series U400, V400, or W400

Seal top penetration as per UL Listed Firestop System Design (See Table 1)
FIRESTOP DETAIL 9
CHASE WALL SCHEMATIC
WOOD WALL FRAMING

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

Rated Wood wall as per UL Design Series U300, V300, or W300

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)