**SECTION 308 PIPING SUPPORT   
  
308.1 General.**   
All plumbing piping shall be supported in accordance with this section.  **308.2 Piping seismic supports.**   
Where earthquake loads are applicable in accordance with the building code, plumbing piping supports shall be designed and installed for the seismic forces in accordance with the *International Building Code.*  **308.3 Materials.**   
Hangers, anchors and supports shall support the piping and the contents of the piping. Hangers and strapping material shall be of *approved* material that will not promote galvanic action.  **308.4 Structural attachment.**   
Hangers and anchors shall be attached to the building construction in an *approved* manner.  **308.5 Interval of support.**   
Pipe shall be supported in accordance with Table 308.5.  **Exception:** The interval of support for piping systems designed to provide for expansion/contraction shall conform to the engineered design in accordance with Section 105.4.  **TABLE 308.5 HANGER SPACING**

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| **PIPING MATERIAL** | **MAXIMUM HORIZONTAL SPACING (feet)** | **MAXIMUM VERTICAL SPACING (feet)** |
| ABS pipe | 4 | 10b |
| Aluminum tubing | 10 | 15 |
| Brass pipe | 10 | 10 |
| Cast-iron pipe | 5a | 15 |
| Copper or copper-alloy pipe | 12 | 10 |
| Copper or copper-alloy tubing,  11/4-inch diameter and  smaller | 6 | 10 |
| Copper or copper-alloy tubing,  11/2-inch diameter and  larger | 10 | 10 |
| Cross-linked polyethylene  (PEX) pipe | 2.67  (32 inches) | 10b |
| Cross-linked polyethylene/  aluminum/cross-linked  polyethylene (PEX-AL-  PEX) pipe | 2.67  (32 inches) | 4 |
| CPVC pipe or tubing, 1 inch and smaller | 3 | 10b |
| CPVC pipe or tubing, 11/4  inches and larger | 4 | 10b |
| Steel pipe | 12 | 15 |
| Lead pipe | Continuous | 4 |
| Polyethylene/aluminum/  polyethylene (PE-AL-PE)  pipe | 2.67  (32 inches) | 4 |
| Polyethylene of raised  temperature (PE-RT) pipe | 2.67  (32 inches) | 10b |
| Polypropylene (PP) pipe or  tubing 1 inch and smaller | 2.67  (32 inches) | 10b |
| Polypropylene (PP) pipe or  tubing, 11/4 inches and larger | 4 | 10b |
| PVC pipe | 4 | 10b |
| Stainless steel drainage  systems | 10 | 10b |

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| For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. |
| a. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed. |
| b. Midstory guide for sizes 2 inches and smaller. |

**308.6 Sway bracing.**   
Rigid support sway bracing shall be provided at changes in direction greater than 45 degrees (0.79 rad) for pipe sizes 4 inches (102 mm) and larger.  **308.7 Anchorage.**   
Anchorage shall be provided to restrain drainage piping from axial movement.

**308.7.1 Location.**   
For pipe sizes greater than 4 inches (102 mm), restraints shall be provided for drain pipes at all changes in direction and at all changes in diameter greater than two pipe sizes. Braces, blocks, rodding and other suitable methods as specified by the coupling manufacturer shall be utilized.

**308.8 Expansion joint fittings.**   
Expansion joint fittings shall be used only where necessary to provide for expansion and contraction of the pipes. Expansion joint fittings shall be of the typical material suitable for use with the type of piping in which such fittings are installed.  **308.9 Parallel water distribution systems.**   
Piping bundles for manifold systems shall be supported in accordance with Table 308.5. Support at changes in direction shall be in accordance with the manufacturer’s instructions. Where hot water piping is bundled with cold or hot water piping, each hot water pipe shall be insulated.