

**4715.1430 HANGERS AND SUPPORTS.**

Subpart 1. **Material.** Hangers, anchors, and supports shall be made of metal or other material of sufficient strength to support the piping and its contents. Piers may be concrete, brick, or other approved material.

Subp. 2. **Attachment to building.** Hangers and anchors shall be securely attached to the building construction at sufficiently close intervals to support the piping and its contents.

Subp. 3. **Vertical piping.** Vertical piping shall be secured at sufficiently close intervals to keep the pipe in alignment. Vertical piping of the following materials shall be supported at not more than the distance intervals shown:

A. Cast-iron soil pipe, at base and at each story height. Neoprene jointed pipe at five foot intervals, except where ten foot lengths are used.

B. Threaded pipe (SPS), every other story height.

C. Copper tubing, at each story.

D. Lead pipe, four foot intervals.

E. Plastic pipe, 1-1/4 inch and 1-1/2 inch sizes, exposed pipe at four foot intervals, concealed pipe same as item F (two inches and over).

F. Plastic pipe, two inch and over, at each story.

Subp. 4. **Horizontal piping.** Horizontal piping shall be supported at sufficiently close intervals to keep it in alignment and prevent sagging:

A. cast-iron soil pipe, five-foot intervals except where ten-foot lengths of cast-iron soil pipe are used, ten-foot intervals between supports are acceptable;

B. threaded pipe, 12-foot intervals;

C. copper tubing (1-1/4 inch or less), six-foot intervals;

D. copper tubing (1-1/2 inch or over), ten-foot intervals;

E. lead pipe, on continuous metal or wood strips for its entire length;

F. plastic pipe, 32-inch intervals except where conveying waste from dishwashers or similar hot water wastes it shall be supported on continuous metal or wood strips for its entire length. CPVC and PP-R nonreinforced water distribution pipe (1-1/4 inch or over), four-foot intervals; and

G. fiberglass reinforced pipe shall be installed with hangers and supports according to the manufacturer's installation instructions.

Subp. 5. **Closet bends.** Joined to a stack by means of neoprene gasketed or solvent welded joints shall be adequately supported both vertically and horizontally to prevent movement in any direction.

Subp. 6. **Base of stacks.** Stacks shall be adequately supported at their bases.

Subp. 7. **Piping in the ground.** Piping in the ground shall be laid on a firm bed for its entire length, except where support is otherwise provided which is adequate in the judgment of the administrative authority. Installation of plastic sewer pipe must comply with ASTM D2321.

**Statutory Authority:** *MS s 16B.59 to 16B.75; 326.37 to 326.45; 326B.101 to 326B.194; 326B.43 to 326B.49; 326B.52*

**History:** *23 SR 686; L 2007 c 140 art 4 s 61; art 6 s 15; art 13 s 4; L 2008 c 337 s 64; 36 SR 1479*

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