

4715.0860 SPECIAL JOINTS.

Subpart 1. **Bituminized fiber to other types of pipe.** When connecting bituminized fiber pipe to other types of materials, only approved types of fittings and adapters designed for the specific transition intended shall be used.

Subp. 2. **Cast-iron to copper tube.** Caulked joints between copper tubing and cast-iron soil pipe shall be made by means of brass or copper ferrules or other approved adapter fittings.

Subp. 3. **Copper tubing to threaded pipe joints.** Joints from copper tubing to threaded pipe shall be made by the use of brass or copper adapter fittings. The joint between the copper pipe and fitting shall be properly soldered, brazed, or flared.

Subp. 4. **Expansion joints.** Every expansion joint shall be of an approved type and the material used in its manufacture shall be compatible with the type of piping in which it is installed. Every expansion joint, other than an expansion loop, shall be accessible. (Also see part 4715.2770)

Subp. 5. **Slip joints.** In drainage piping, slip joints shall be used only on the inlet side of the trap or in the trap seal. Every slip joint shall be made using approved packings of gasket material or approved ground joint brass compression rings. Ground faced connections which allow adjustments of tubing but provide a durable rigid joint when made up shall not be considered as a slip joint.

Subp. 6. **Transition couplings.** A transition coupling is one which is to be used when pipes made of different materials are to be joined. A transition coupling may be made of elastomeric materials (ASTM C 425 and ASTM C 564) and 300 series stainless steel bands and bolts, except that an exterior corrosion-resistant shield to prevent outward expansion of the coupling must be included on above-ground installations. Any transition coupling joining plastic to plastic, copper to copper, or galvanized to galvanized, must be approved by the administrative authority.

Subp. 7. **Flexible joints for roof drain connections.** A flexible bellows-type joint may be used to join roof drains to approved storm drain piping. The flexible joint must be made of a bellowed neoprene or thermoplastic rubber sleeve and secured by 300 series stainless steel band and bolts. The joint must not be concealed nor installed at an angle of more than 45 degrees from the vertical.

Statutory Authority: *MS s 16B.61; 326.37 to 326.45; 326B.106; 326B.43 to 326B.49*

History: *9 SR 1557; 15 SR 76; L 2007 c 140 art 4 s 61; art 6 s 15; art 13 s 4*

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