

**4725.2650 PLASTIC CASING INSTALLATION.**

Subpart 1. **General.** When preparing to install plastic casing, a person must:

- A. inspect casing and couplings carefully for cuts, gouges, deep scratches, damaged ends, and other major imperfections and not use any plastic casing or coupling having such defects or imperfections;
- B. use solvent cement meeting the requirements of the specifications for the plastic that will be used;
- C. use only casing and coupling combinations that give interference fits;
- D. use plastic couplings with molded or formed threads and thread lubricants suitable for the plastic material that will be used; and
- E. use a coupling appropriate for the specific transition intended when a nonplastic screen is attached to a plastic casing.

Subp. 2. **Cutting.** When cutting plastic casing, casing ends must be cut square using fine-tooth blades with little or no set or a plastic pipe cutter equipped with extra wide rollers and thin cutting wheels. Standard steel pipe or tubing cutters must not be used for cutting plastic casing.

Subp. 3. **Cleaning.** All dirt, dust, moisture, and burrs must be cleaned from casing ends and couplings using chemical or mechanical cleaners suitable for the particular plastic material. All burrs must be removed.

Subp. 4. **Primer.** A primer must be used when the type of solvent cement used requires one.

Subp. 5. **Cementing.** An even coat of cement must be applied to the inside of the couplings to cover the distance of the joining surface only. An even coat of solvent cement must then be applied to the outside of the casing being joined to a distance equal to the depth of the casing coupling socket.

Subp. 6. **Assembling.** When assembling plastic casing, a person must:

- A. make the joint with solvent cement before the solvent cement dries;
- B. reapply cement before assembling if the solvent cement dries partially;
- C. turn the casing to evenly distribute the solvent cement while inserting the coupling into the coupling socket;
- D. insert the casing to the full depth of the coupling socket and assemble casing;
- E. remove excess solvent cement from the exterior of the joint with a clean, dry cloth;
- F. tighten a threaded joint by no more than one full turn using a strap wrench;

G. not disturb the coupling joint until after the solvent cement has set; and

H. allow sufficient time for the solvent cemented joint to set.

Subp. 7. **Screws.** Screws must not be used to join plastic casing.

Subp. 8. **Drilling inside permanent plastic casing prohibited.** A person must not drill inside permanent plastic casing. Drilling tools such as drill bits must not be inserted in plastic casing. This prohibition does not include the installation or repair of screens or development of the well or boring.

Subp. 9. **Limestone, dolomite restriction.** Plastic casing must not be used as an outside casing in wells and borings cased more than five feet into limestone or dolomite bedrock. In limestone and dolomite bedrock, plastic casing may be used as an inner casing if surrounded for the entire length by an outer steel casing.

Subp. 9a. **Plastic cased wells or borings completed in bedrock.** A plastic cased well or boring completed in bedrock, whether screened or open hole, must be cased into the bedrock a minimum of five feet and the annular space surrounding the casing in bedrock must be filled with neat-cement grout or cement-sand grout according to part 4725.3050, subpart 7.

Subp. 10. **Driving prohibition.** Plastic casing must not be driven. Use of a drive shoe with plastic casing is prohibited.

Subp. 11. **Sealing, removal, or replacement.** A person installing plastic casing must either seal a well or boring or remove and replace all casing when:

- A. the plastic casing cannot be installed without driving the casing;
- B. a screen or pump cannot be installed without force; or
- C. the casing fails during construction or pumping of the well or boring.

**Statutory Authority:** *MS s 103I.101; 103I.111; 103I.205; 103I.221; 103I.301; 103I.401; 103I.451; 103I.501; 103I.525; 103I.531; 103I.535; 103I.541; 103I.621; 144.05; 144.12; 144.383; 157.04; 157.08; 157.09; 157.13*

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