



CORRUGATED POLYETHYLENE TUBING

GENERAL

Corrugated polyethylene (PE) tubing, couplings, and fittings for subsurface drainage shall meet the requirements of Section 4143.01B of the Standard Specifications of the Iowa Department of Transportation.

Acceptance of these materials will be based on approved brand name and manufacturing plant monitor samples requested by the Office of Materials.

MANUFACTURING PLANT APPROVAL

Application for plant approval shall be made, in writing, to the Office of Materials in Ames and shall include product technical information and a description of product quality control procedures. Three 5-foot (1.5 meter) length samples of each diameter of tubing requested by the Office of Materials shall be submitted with the application.

Approval will be based on sample test results and evaluation of quality control procedures. The District Materials Engineer responsible for material acceptance in the plant location area may inspect plant facilities and procedures when deemed necessary. A report of successful NTPEP / AMRL Plant Audit may be used instead of Plant Inspection.

At the end of every calendar year, each approved manufacturer shall give a statement summarizing the usage to the Manufactured Materials Engineer in the Office of Materials. The statement shall contain the description, length and diameter of the tubing supplied to various Iowa DOT projects during the year.

Approved manufacturing plants for corrugated PE tubing and fittings used for subsurface drainage are listed in Appendix A.

ACCEPTANCE

Acceptance shall be on the basis of approved manufacturers as listed in Appendix A.

Sampling and testing at the project site will be based on requests from the Central Materials Office. Samples shall contain the date and plant code.

MONITOR SAMPLING & TESTING

The District Materials Engineer will be responsible for designing and performing a monitor inspection and testing program for each approved plant. The amount of monitor sampling and testing will generally depend upon the amount of material supplied by each manufacturer and upon the amount of time since the last sample was obtained.

A monitor test sample shall consist of the same number and lengths as described for plant approval. Deficient test results or poor workmanship on any monitor sample may be considered sufficient cause for removing a plant from the list of approved suppliers.