

## INSTALLATION GUIDE FOR CORRUGATED DUAL-WALL POLYETHYLENE PIPE (DWP)

### **Scope**

This guide provides recommendations for the installation of corrugated dual wall polyethylene pipe used in gravity flow storm sewers and subsurface drainage applications. This guide is for use by designers and specifiers, installation contractors, regulatory agencies, owners, and inspection organizations that are involved in the construction of storm sewers and other gravity-flow drainage applications. This guideline does not eliminate the need for engineering analysis of each job. The recommendations made herein may require modification upon the completion of such analysis.

This installation guide does not address all of the safety problems, if any, associated with its use. It is the user's responsibility to determine the appropriate safety and health practices associated with the use of this product and insure compliance on each job.

### **Trench Excavation**

Excavate trenches to ensure that sides will be stable under ALL working conditions. Slope trench walls or provide supports for the walls in conformance with all local and national standards for safety. The trench should be backfilled as soon as possible, but not later than the end of each workday. Pipe should not be laid or embedded in standing or running water.

Surface water should be prevented from entering the trench and the trench should be dewatered when necessary to maintain stability. Trench bottoms containing rock, soft areas of muck or other material needs to be removed and replaced with a suitable material.

When a trench groove is going to be used, the groove must conform to the outside diameter of the pipe and envelope. The groove shall be circular shaped so that 140 degrees of the pipe will rest in the groove with a maximum clearance of .5 inch around the circumference. If this groove is not achieved, there will be insufficient support and pipe deflection will increase. The use of the groove does not eliminate the requirement for the proper initial and final backfills. The minimum trench width to be used when a trench groove is used will be the outside diameter of the pipe plus 3 inches on each side of the pipe.

When a trench groove is not going to be used and trench walls are stable or supported, provide a width sufficient, but no greater than necessary, to ensure working room to properly and safely place and compact haunching and other embedment materials. The minimum width shall be





