

INSTALLATION OF FLEXIBLE PIPE MATERIALS SPECIFICATION STATEMENT



Lane Enterprises, Inc. manufactures products in accordance with certain material specifications, is not obligated to produce or cite installation specifications, and shall be held harmless from any and all damages resulting from improper installation methods. The following caveat shall serve to impress the critical role installation specifications play in ensuring satisfactory in situ performance of the culvert application:

Corrugated metal and plastic culverts are flexible by nature and therefore derive structural stability from the strength and relative stiffness of the surrounding backfill material. It is the resulting soil-culvert interaction system that defines the ability of a flexible culvert to withstand the defined service loads. For this reason specifications addressing appropriate backfill material selection and compaction levels must be included in the project documents. In the absence of such documentation it is recommended that applicable standards published for flexible culverts are secured from ASTM or AASHTO. **It shall be the responsibility of the owner and/or its agents (purchaser, engineer, contractor, et al.) to ensure proper backfill specifications and installation methods.**

Typical installation methods for flexible buried structures will vary somewhat with the actual engineering characteristics of the backfill material available. Since backfill material options depend on factors such as local availability and/or the suitability of native materials, it is an essential part of the site engineer's duty to provide the owner and contractor with appropriate installation guidelines to ensure a cost effective, reliable installation. Therefore, ultimate responsibility of providing related product application performance assurance is most reasonably assumed by the site engineer and/or professional engineer of record.

Copyright infringements preclude Lane Enterprises, Inc. from disseminating published standards in this regard. The following references are listed in the event the owner, engineer or contractor are desirous of such information:

- ASTM B789 Practice for Installing Corrugated Aluminum Structural Plate Pipe for Culverts and Sewers
- ASTM A807 Practice for Installing Corrugated Steel Structural Plate Pipe for Sewers
- ASTM A798 Practice for Installing Factory-Made Corrugated Steel Pipe for Sewers
- ASTM B788 Practice for Installing Factory-Made Corrugated Aluminum Culverts and Storm Sewer Pipe
- ASTM D2321 Practice for Underground Installation of Thermoplastic Pipe
- AASHTO LRFD Bridge Construction Specifications, Section 26, Metal Culverts
- AASHTO LRFD Bridge Construction Specifications, Section 30, Thermoplastic Pipe

