

Single Wall HDPE Pipe Installation Guide

The recommendations presented here detail how to install a dependable subsurface drainage or groundwater control system. Installation with proper backfill materials, compaction levels, and placement procedures are essential to achieve long term system performance. These recommendations assume that the drainage designer used design criteria available from ASTM F449 and ADS. The designer should discuss installations involving conditions not covered by these documents (poor soils, high loads, or other factors that may affect the performance of the system) with an ADS representative.

Backfill Selection

- Only native soil meeting class I, II, or III, as described in Table 1, are acceptable backfill materials.
- Class I materials can be dumped around pipe. Lightly tamp or knife to ensure voids are eliminated.
- Non-cohesive sand, sand/gravel mixes and other Class II or III materials must be compacted to remove voids.
- For pipe with burial depths 8' (2.4 m) or less, compaction may not be necessary, provided the trench bottom is shaped in accordance with Figure 2.

Table 1: Classes of Embedment & Backfill Materials

Description	Soil Classification		Min. Compaction Required (Std. Proctor Density (%))
	ASTM D2321	ASTM D2487	
Graded or crushed stone Crushed Gravel	Class I	-	Dumped
Well-graded sand, gravels, and gravelsand mixtures; Poorly graded sand, gravels, and gravel/sand mixtures; Little or no fines	Class II	GW GP SW SP	85%
Silty or clayey gravels, Gravels/sand/silt or gravels and clay mixtures, silty or clayey sands, sand/clay or sand/silt mixtures	Class III	GM GC SM SC	90%
Inorganic silts and low to medium plasticity clays; gravelly, sandy, or silty clays; some fine sands	Class IVA	ML CL	Material Not Recommended

*Layer Heights should not exceed one-half the pipe diameter. Layer heights may also need to be reduced to accommodate compaction method.

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Cast Iron Pipe Research Association text.

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Approval Guide, 1993 **Predicasts F & S Index International Annual**, 1988 **Transite, Ring-tite, and Pressure Pipe** Johns-Manville Corporation, 1979 *Transite ring-tite pressure pipe* Johns-Manville Corporation, 1956 **Installation Guide** Johns-Manville Corporation, 1950 **Installation Guide** Johns-Manville Corporation, 1969 **J-M Ring-Tite PVC Gravity Sewer Pipe Installation Guide** Johns-Manville International Corp, 1973 **Pipe Installation Manual** CIBA-GEIGY Corporation, 1979 **Installation Guide for PVC Sewer Pipe** Uni-Bell Plastic Pipe Association, 1979 **Installation of Cylinder Pipe** American Concrete Pipe Company, **Concrete Pipe Installation Manual**, 1984 *Contractor's Guide for Installation of Gasketed PVC Pipe for Sewer* Uni-Bell PVC Pipe Association, 2019 **Clay Pipe Installation Handbook** National Clay Pipe Institute (U.S.), 1976 Contractor's Guide for Installation of Gasketed PVC Pipe for Water Uni-Bell PVC Pipe Association (author), 1901 *Installation Guide* Certain-teed Products Corporation, 1963* Pipefitting Level 3 Trainee Guide, Paperback NCCER, 2007-06-12 This exceptionally produced trainee guide features a highly illustrated design technical hints and tips from industry experts review questions and a whole lot more Key content includes Rigging Equipment Rigging Practices Standards and Specifications Advanced Trade Math Motorized Equipment II Introduction to Aboveground Pipe Installation Field Routing and Vessel Trim Pipe Hangers and Supports and Testing Piping Systems and Equipment Instructor Supplements Instructors Product supplements may be ordered directly through OASIS at <http://oasis.pearson.com> For more information contact your Pearson NCCER Content Sales Specialist at <http://nccer.pearsonconstructionbooks.com/store/sales.aspx> Annotated Instructor's Guide Paperback 0 13 227286 5 Computerized Testing Software 0 13 229132 0 Transparency Masters 0 13 229153 3 PowerPoint Presentation Slides 0 13 608658 6 **A Guide for the Installation of Ductile Iron Pipe** Cast Iron Pipe Research Association, 1972 **Pipe & Fittings Installation Manual** Reinforced Plastic Systems Inc, 1999 **Concrete Pipe Installation Manual** American Concrete Pipe Association, 1972 **Steel Pipe** Awwa, 2016-11-15 This manual explains the design installation and maintenance of steel water pipe and fittings for potable water service

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