

# 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.

# Toromont Pipe Installation Guide

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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 Uni-Bell PVC Pipe Association text.

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## **Table of Contents Toromont Pipe Installation Guide**

1. Understanding the eBook Toromont Pipe Installation Guide
  - The Rise of Digital Reading Toromont Pipe Installation Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Toromont Pipe Installation Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Toromont Pipe Installation Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Toromont Pipe Installation Guide
  - Personalized Recommendations
  - Toromont Pipe Installation Guide User Reviews and Ratings
  - Toromont Pipe Installation Guide and Bestseller Lists
5. Accessing Toromont Pipe Installation Guide Free and Paid eBooks
  - Toromont Pipe Installation Guide Public Domain eBooks
  - Toromont Pipe Installation Guide eBook Subscription Services

- Toromont Pipe Installation Guide Budget-Friendly Options
- 6. Navigating Toromont Pipe Installation Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Toromont Pipe Installation Guide Compatibility with Devices
  - Toromont Pipe Installation Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Toromont Pipe Installation Guide
  - Highlighting and Note-Taking Toromont Pipe Installation Guide
  - Interactive Elements Toromont Pipe Installation Guide
- 8. Staying Engaged with Toromont Pipe Installation Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Toromont Pipe Installation Guide
- 9. Balancing eBooks and Physical Books Toromont Pipe Installation Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Toromont Pipe Installation Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Toromont Pipe Installation Guide
  - Setting Reading Goals Toromont Pipe Installation Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Toromont Pipe Installation Guide
  - Fact-Checking eBook Content of Toromont Pipe Installation Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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