## PLANNING BETTER TRENCHLESS

## **Vermeer BoreAid® Design Tool**

Performing a bore operation efficiently takes consistent horizontal directional drill (HDD) planning and design methods. Vermeer BoreAid design tool streamlines your planning and design time by considering key aspects of a drill project such as topography and soil for bore path planning, product pipe selection, load calculation and drilling fluid estimation.



The Vermeer BoreAid design tool provides a full suite of tools to complete HDD designs following the ASTM F1962 standard for plastic (PE or PVC) pipe and PRCI methodology for steel or fi berglass pipe. It permits complex bore geometrics — multiple compound curves/tangent segments, inadvertent return analysis, and offers the capabilities to perform advanced drill planning and design.



🖪 🛅 💟 💿 🛛 VERMEERSTORE.COM

## **KEY BENEFITS:**

- Helps plan and design your project in less time.
- **Produces** project design or construction submission documents efficiently.
- Alerts the user to potential issues by using the built-in database of typical, or suggested properties (based on current standards and good practice guidelines).
- **Constructs** a detailed design dealing with many aspects of the project, from bore path planning and load calculations, to pipe selection and drilling fluid requirements.
- **Provides** the engineering estimates for required pullback forces to install the product pipe following industry standards.
- **Identifies** the bend radius of the drill rod and product pipe to alert user if rod or pipe is outside of specifications.

Pullback Force [b] 113615.8 113615.8 View Image: Ballast   Pullback Stress [sa] 3709.2 3709.2 View Rollers   Pullback Strain 1.279E.4 1.279E.4 View Additional bend at pipe exit   Bending Strain 9.454E.5 2.839E.4 View Reverse pull   Description 0 4.24.2 View Pipe assembled prior to pull	Parameter	@Max Pullback	Abs. Max.	View	Additional Features
Pulback Stress [psi] 3709.2 3709.2 View □ Rollers   Pulback Strain 1279E-4 1279E-4 View □ Additional bend at pipe exit   Bending Strain 9.454E-5 2.839E-4 View □ Reverse pull   Bending Strain 9.454E-5 2.839E-4 View □ Pipe assembled prior to pull	Pullback Force [lb]	113615.8	113615.8	View	✓ Ballast
Pullback Strain 1.279E-4 1.279E-4 View   Bending Stress [ps] 2741.7 8231.8 View   Bending Strain 9.454E-5 2.839E-4 View   Comparison 9.454E-5 2.839E-4 View   Pipe assembled prior to pull Pipe assembled prior to pull	Pullback Stress [psi]	3709.2	3709.2	View	Rollers
Bending Stress [psi] 2741.7 8231.8 Vew   Bending Strain 9.454E-5 2.839E-4 Vew   Comparison Provide and the strain of the strain	Pullback Strain	1.279E-4	1.279E-4	View	Additional bend at pipe exit
Bending Strain 9.454E-5 2.839E-4 View Pipe assembled prior to pul	Bending Stress [psi]	2741.7	8231.8	View	
Pipe assembled prior to put	Bending Strain	9.454E-5	2.839E-4	View	
Hoop Stress [psi] 8.0 134.2 View	Hoop Stress [psi]	8.0	134.2	View	Pipe assembled prior to pullbac
Hoop Strain 2.744E-7 4.627E-6 View Fluid Drag	Hoop Strain	2.744E-7	4.627E-6	View	Fluid Drag
Coefficient					Coefficient

Vermeer Corporation reserves the right to make changes in engineering, design and specifications; add improvements; or discontinue manufacturing at any time without notice or obligation. Equipment shown is for illustrative purposes only and may display optional accessories or components specific to their global region. Please contact your local Vermeer dealer for more information on machine specifications. Vermeer Productivity Tools assist users with planning and management functions. Information provided is reliant upon the accuracy and quality of user-provided data. Vermeer, the Vermeer logo, Equipped to Do More, Navigator and BoreAid are trademarks of Vermeer Manufacturing Company in the U.S. and/or other countries. © 2017 Vermeer Corporation. All Rights Reserved.

