

# MDRS™ Online



**Helping you build  
a solid foundation**

**The software solution you  
can depend on**



Building Solid Foundations

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## MacLean Dixie HFS™ MDRS™ Online

MacLean Dixie offers a broad range of deep steel helical piles and tension anchors for an array of foundation applications. We offer many time proven solutions with experience in anchoring since the 1920's. Now with MacLean Design Recommendation System (MDRS™) online software, you can create custom helical piles for all your foundation projects and tension anchor applications. And, because it's a MacLean Dixie foundation pile, you can be assured that the product and installation meet stringent requirements to ensure the quality and workmanship of the manufactured product and that installation is performed by qualified and certified technicians to ensure the foundation will perform as expected.

The screenshot displays two sequential screens from the MDRS Online software. The top screen, titled 'Civil Foundation Pile', contains a 'Load Requirements' section with the following input fields and values:

Allowable Compression Load kips (English) or kN (Metric)	0
Allowable Tension Load kips (English) or kN (Metric)	
Allowable Lateral Load kips (English) or kN (Metric)	
Lateral Load Eccentricity ft (English) or m (Metric)	0
Compression Factor of Safety	2
Tension Factor of Safety	2
Lateral Factor of Safety	2

The bottom screen, also titled 'Civil Foundation Pile', contains a 'Boring Data' section with the following input fields and values:

Enter the soil boring number	
Depth to Groundwater	
Add another layer?	No

Below this is a 'Soil Properties' table with columns for Layer, End Depth 1 (feet), Soil Type, SPT 'N' Value (bpf), Unit Weight (pcf) [calculated], and Unit Weight (pcf) [override]. The 'Please !' dropdown is set to 0. A 'Calculate Soil Properties' button is present with a 'Please Select' dropdown. The bottom of the screen includes 'Previous', 'Continue', 'Save', and 'Cancel' buttons.

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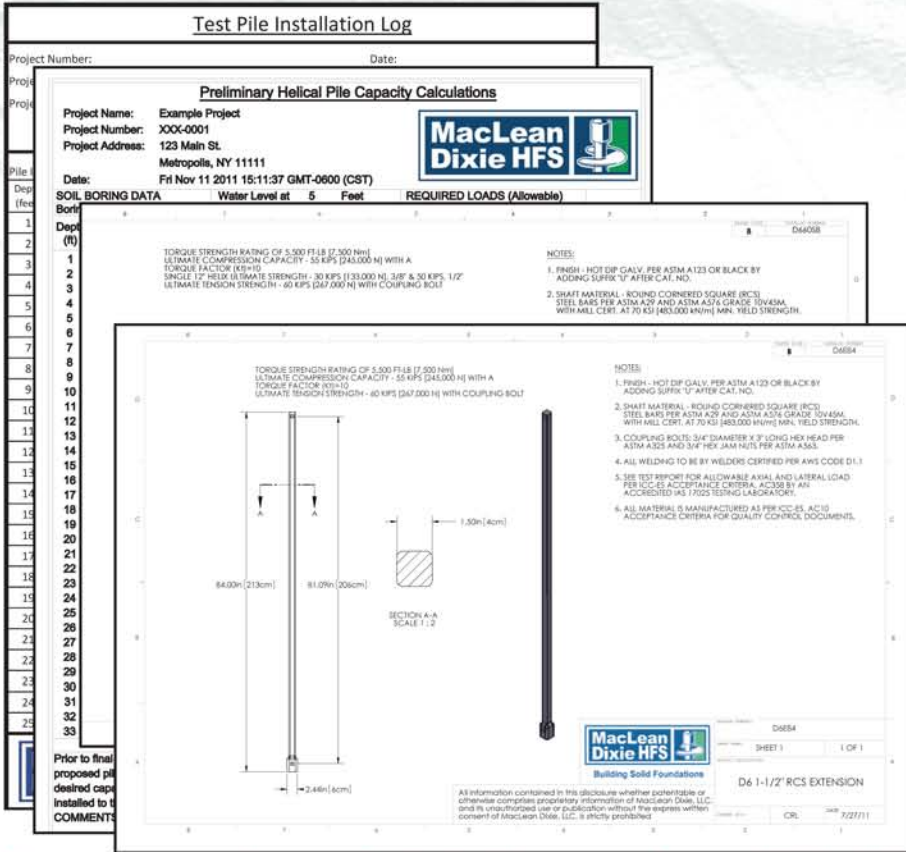
**Online design tool which creates custom foundation piles based on input factors including soil and boring data, loading conditions, etc.**

### User Friendly for All Experience Levels

MDRS™ online software is user-friendly for all experience levels. For casual users, there is the automatic mode where the engineer inputs structural loads and soil boring data and MDRS™ automatically calculates a pile configuration for that project. For more advanced users, there is the user-driven mode where the engineer can select from our various deep steel foundation leads and extensions in order to assemble multiple pile configurations and "virtually install" them in the soil profile to evaluate their performance under different loading conditions. For all users, creating a custom helical foundation pile takes only minutes and project information and configurations are saved in your account for future use.

## Engineered Solutions

The exclusive MDRS™ online software will assure an engineered solution to optimize your cost objectives. Side-by-side comparisons of different helical foundation piles as well as fine tuning allow for value engineering on every project created online. Once the helical pile or tension anchor configuration is selected, MDRS™ will prepare all the necessary documents for use in the planning, bidding, and construction phases of the project.



Generates a complete set of submittal documents for each helical pile project including product drawings, specifications, and construction QA/QC forms.

## For All Foundation Projects

MDRS™ creates custom helical foundation piles and tension anchors for a variety of applications including:

- New construction
- Tieback
- Foundation repair
- Solar power
- Walkways
- Marine
- Tilt wall



Like all MacLean Dixie products, your custom created MDRS™ foundation piles are made in the USA at our Birmingham facility and shipped straight to the jobsite to help save time and money. In addition, helical piles and tension anchors are made from recycled materials and are themselves recyclable, creating an opportunity to earn credits on LEED certified projects.

## MacLean Dixie Independent Testing

MacLean Dixie has an ongoing quality control program per A10 with inspection by an IAS accredited inspection agency per AC98.

MacLean Dixie is the only supplier that has met the requirements for all products defined by the International Building Codes ICC-ES AC358

Acceptance Criteria for Helical Foundation Systems and Devices (ICC-ES Evaluation Report Number ESR-3032).

This should be important criterion when selecting the supplier to protect your investment for years to come.

ICC ES AC358 Acceptance Criteria for Helical Foundation Systems and Devices Tests:

- Full scale compression load test in sand and clay
- Full scale lateral load test
- Shaft torsion
- Helix torsion
- Coupling rigidity
- Helix capacity
- Bracket capacity



Compression tension & lateral load testing



Deflection testing



Torsion testing



Helix strength test



Bracket strength test

Find out more at [www.MacLeanDixie.com](http://www.MacLeanDixie.com)



# MacLean Dixie.

Built on a solid foundation.

MacLean Dixie is part of MacLean-Fogg, a diversified international manufacturing company. A result of the acquisition and merger of Joslyn and Dixie, two prominent soil anchor manufacturers, MacLean Dixie is now one of the leading suppliers of steel deep foundation systems for use in residential, commercial and marine applications. Our comprehensive product line for residential and commercial applications includes engineered solutions for tension, compression, and structural stabilization in many different soils.

Quality that is second to none.

Why do installers and engineers across the nation choose MacLean Dixie products time and time again? Perhaps it is because our quality standards and rigorous testing procedures ensure that our products are second to none.

Materials meet strict ASTM standards.

We can verify the chemical composition of every lot of steel back to the original mill that produced it. So we know that the chemistry, physical and dimensional properties are in accordance to ASTM and our stringent standards.

State-of-the-art fabrication.

With one of the largest manufacturing facilities in the industry, we're equipped to turn products around faster, more efficiently and most cost effectively.

Visit [www.MacLeanDixie.com](http://www.MacLeanDixie.com) for more information and technical support.



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ISO 9001:2008  
Certification QSR-938



AC308 Approved  
ESR-3032



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To sign up, visit

[www.MacLeanDixie.com](http://www.MacLeanDixie.com)

and click on the MDRS™ Application Software link