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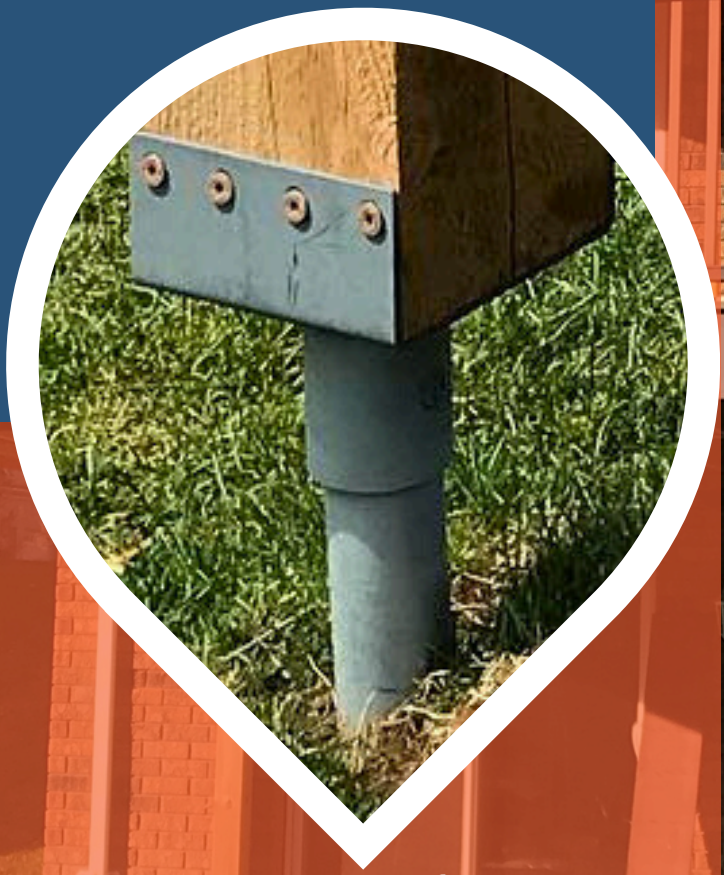
ONTARIO HELICAL PILES

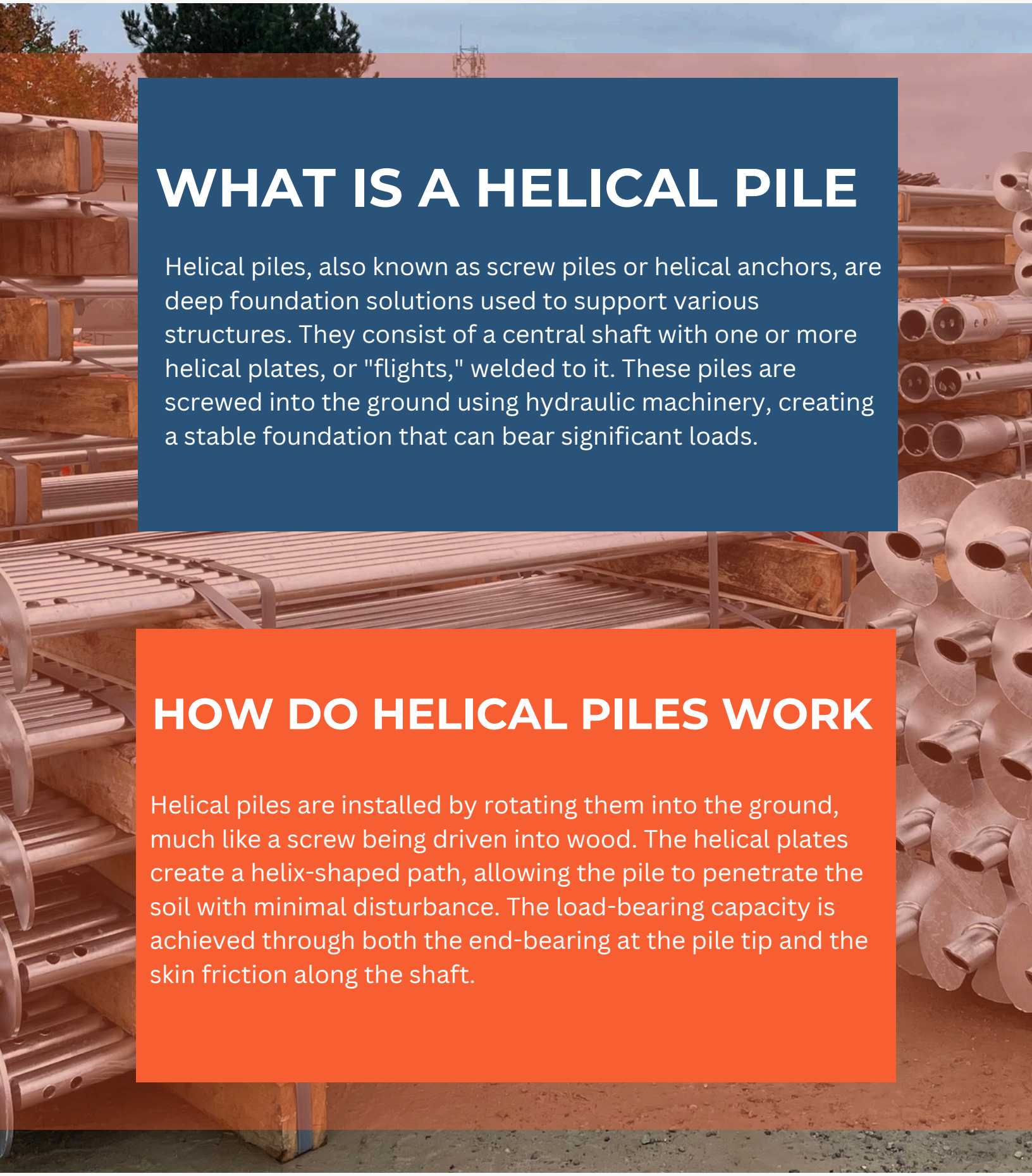


ONTARIO HELICAL PILES: CERTIFIED MASTER INSTALLER FOR ALMITA PILING

With over 20 years of experience installing helical piles in all soil types, Ontario Helical Piles is your trusted partner for high-capacity, round shaft helical piles from Almita Piling.

WHY CHOOSE ALMITA PILING HELICAL FOUNDATIONS?

- Superior Load Capacity: Handles up to 98 tons per pile.
- Hot-Dip Galvanized Corrosion Protection: Ensures the highest degree of corrosion resistance, lasting over 100 years in soils with moderate to high corrosivity (average life expectancy is 350 years).
- ISO Certified: Backed by the most comprehensive engineering and geotechnical support in the industry.
- CCMC Approved: Meets rigorous standards for quality and performance.
- Substantial Lateral Resistance: Provides robust lateral stability.
- Environmentally Friendly: Ideal for environmentally sensitive sites.
- Vibration-Free Installation: Minimizes disruption to surrounding areas.
- Fast Installation: Quick setup with no soil spoils, saving time and reducing site impact.
- Superior Bearing Capacity: Outperforms concrete or wood piles with no curing time required.

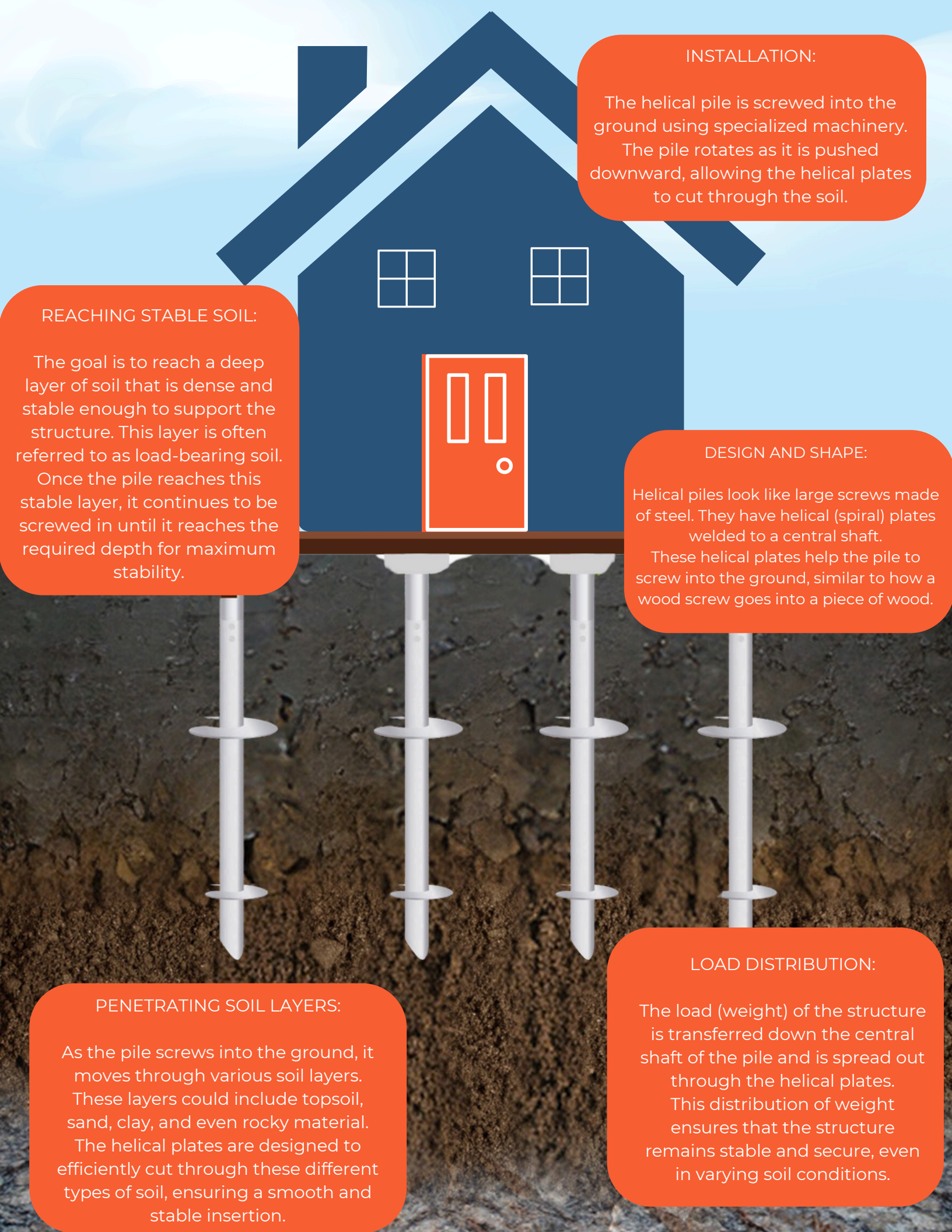


WHAT IS A HELICAL PILE

Helical piles, also known as screw piles or helical anchors, are deep foundation solutions used to support various structures. They consist of a central shaft with one or more helical plates, or "flights," welded to it. These piles are screwed into the ground using hydraulic machinery, creating a stable foundation that can bear significant loads.

HOW DO HELICAL PILES WORK

Helical piles are installed by rotating them into the ground, much like a screw being driven into wood. The helical plates create a helix-shaped path, allowing the pile to penetrate the soil with minimal disturbance. The load-bearing capacity is achieved through both the end-bearing at the pile tip and the skin friction along the shaft.



INSTALLATION:

The helical pile is screwed into the ground using specialized machinery. The pile rotates as it is pushed downward, allowing the helical plates to cut through the soil.

REACHING STABLE SOIL:

The goal is to reach a deep layer of soil that is dense and stable enough to support the structure. This layer is often referred to as load-bearing soil. Once the pile reaches this stable layer, it continues to be screwed in until it reaches the required depth for maximum stability.

DESIGN AND SHAPE:

Helical piles look like large screws made of steel. They have helical (spiral) plates welded to a central shaft.
These helical plates help the pile to screw into the ground, similar to how a wood screw goes into a piece of wood.

PENETRATING SOIL LAYERS:

As the pile screws into the ground, it moves through various soil layers. These layers could include topsoil, sand, clay, and even rocky material. The helical plates are designed to efficiently cut through these different types of soil, ensuring a smooth and stable insertion.

LOAD DISTRIBUTION:

The load (weight) of the structure is transferred down the central shaft of the pile and is spread out through the helical plates. This distribution of weight ensures that the structure remains stable and secure, even in varying soil conditions.

Helical Piles vs. Concrete Bases:

A Comparative Analysis of Efficiency, Cost, and Environmental Impact

INSTALLATION TIME

Helical Piles:
1-2 days

Concrete Bases:
7-12 days for install and curing

SITE DISTURBANCE

Helical Piles

Concrete

LABOUR REQUIREMENTS

Helical Piles:
2-3 workers

Concrete Bases:
5-7 Workers

LABOUR REQUIREMENTS

Helical Piles:
All Weather

Concrete Bases:
Weather Sensitive

COST

Helical Piles:
$2-300 per pile

$$$

Concrete Bases:
$4-700 per cubic meter

$$$$$$$

ADJUSTABILITY

easy moderate permanent

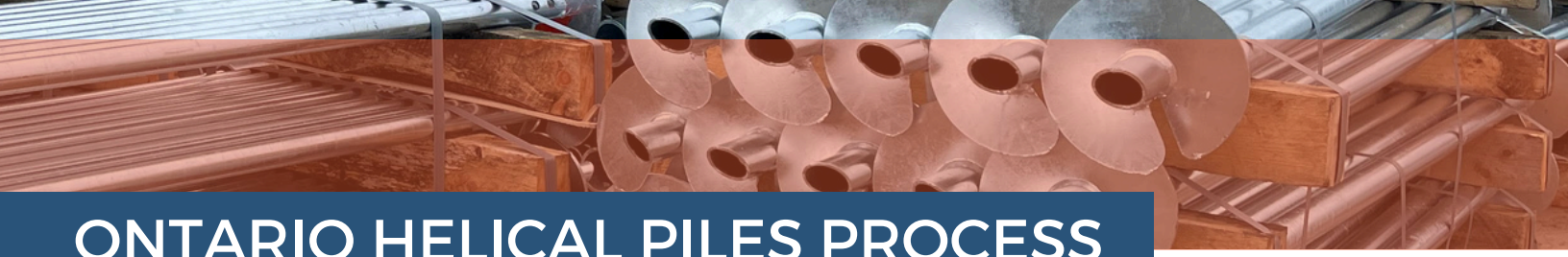
Helical Piles

Concrete

THE STRONG, SUSTAINABLE FOUNDATION SOLUTION

Enjoy immediate load-bearing capacity and substantial lateral resistance, ensuring your project stays on schedule and within budget. Choose helical piles for a reliable, cost-effective, and sustainable foundation solution.

Superior load capacity	Supports up to 98 tons per pile	Ideal for heavy structures, reducing the number of piles needed
Hot-Dip Galvanized Corrosion Protection	High corrosion resistance, lasting over 100 years in moderate - high corrosivity soils	Longevity and durability, reducing maintenance costs
ISO Certified	Comprehensive engineering and geotechnical support	Ensures reliability and quality assurance
CCMC Approved	Meets strict quality and performance standards	Confidence in compliance and safety
Substantial Lateral Resistance	Provides robust lateral stability	Enhances structural integrity, especially in seismic areas
Environmentally Friendly	Minimal environmental impact	Suitable for sensitive sites, promoting sustainable construction practices
Vibration-Free Installation	No vibrations during installation	Minimizes disturbance to surrounding structures and environments
No Heavy Equipment Required	Simplified installation process	Reduces project costs and logistical challenges
Fast Installation	Quick Set-up with no soil spills	Accelerates project timelines and reduces labor costs
Superior bearing capacity	Outperforms concrete or wood piles with no curing time required	Immediate load-bearing capacity, streamlining construction schedules



ONTARIO HELICAL PILES PROCESS

STEP 1 : ASSESSMENT
Site Assessment: Evaluate the soil conditions & Load requirements

STEP 2: SELECTION
Choosing the appropriate pile size and configuration.

STEP 3: INSTALL
Using specialized hydraulic equipment to drive the piles to the desired depth and torque.

STEP 5: COMPLETION
Connecting the piles to the structure and ensuring stability.

WHY CHOOSE OHP ONTARIO HELICAL PILES?

- Expertise: Years of experience in providing helical pile solutions for diverse applications.
- Quality: Commitment to using high-quality materials and state-of-the-art equipment.
- Customer Focus: Dedicated to meeting the specific needs of the telecom industry with tailored solutions.
- Comprehensive Service: Offering complete support from initial consultation to final installation and maintenance.
- Proven Track Record: Trusted by leading telecom companies across Ontario for reliable and efficient foundation solutions.

CHOOSE OHP HELICAL PILE SOLUTIONS!

Enhance your projects with the power of helical piles. Contact OHP Ontario Helical Piles today to discover how our innovative solutions can save you time, money, and effort while ensuring the stability and longevity of your structures. Don't wait for foundation issues to disrupt your plans – secure your foundations with OHP's helical piles now!

CONTACT US :

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