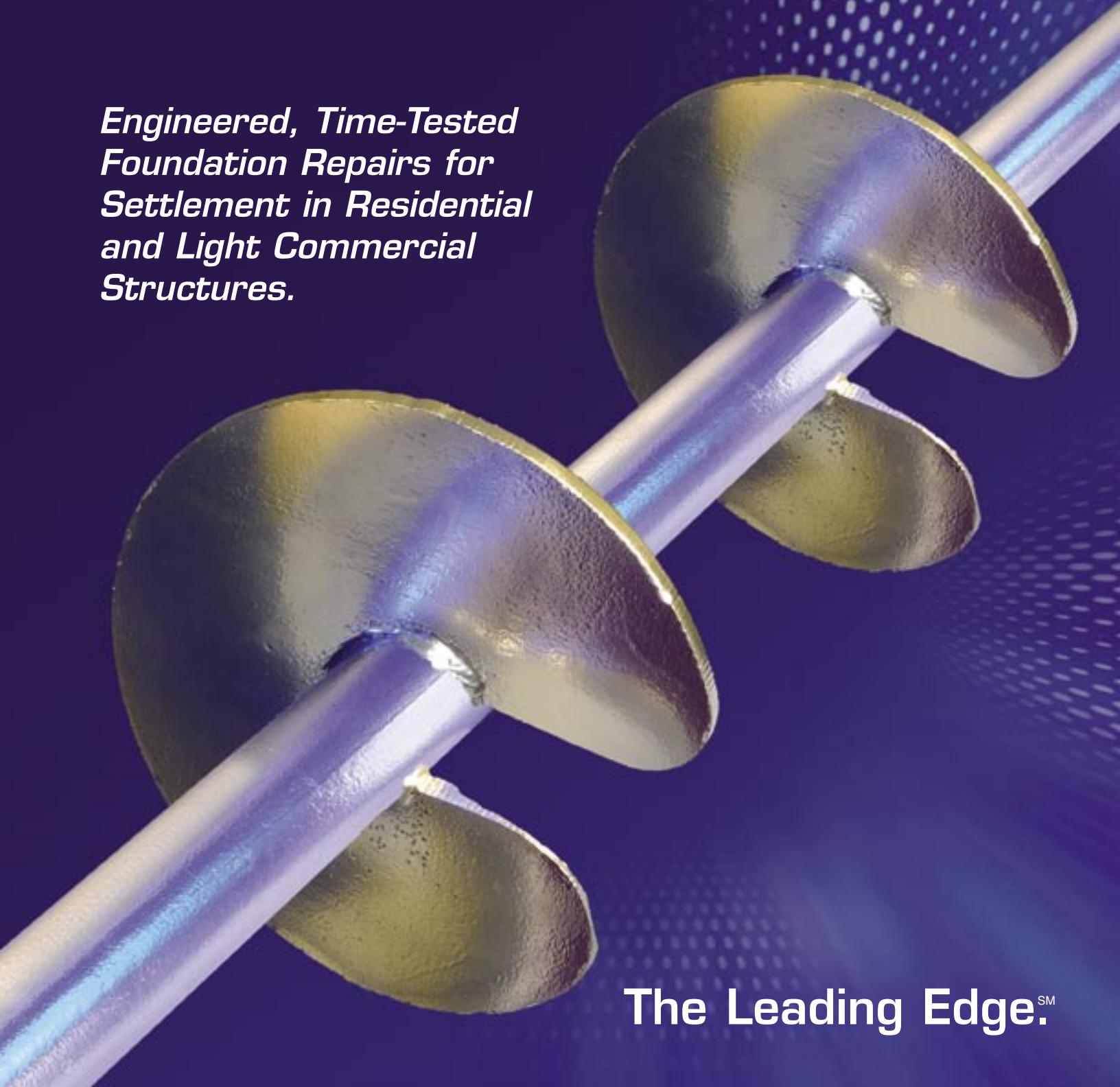


iDEALTM

FOUNDATION SYSTEMSTM

*Engineered, Time-Tested
Foundation Repairs for
Settlement in Residential
and Light Commercial
Structures.*

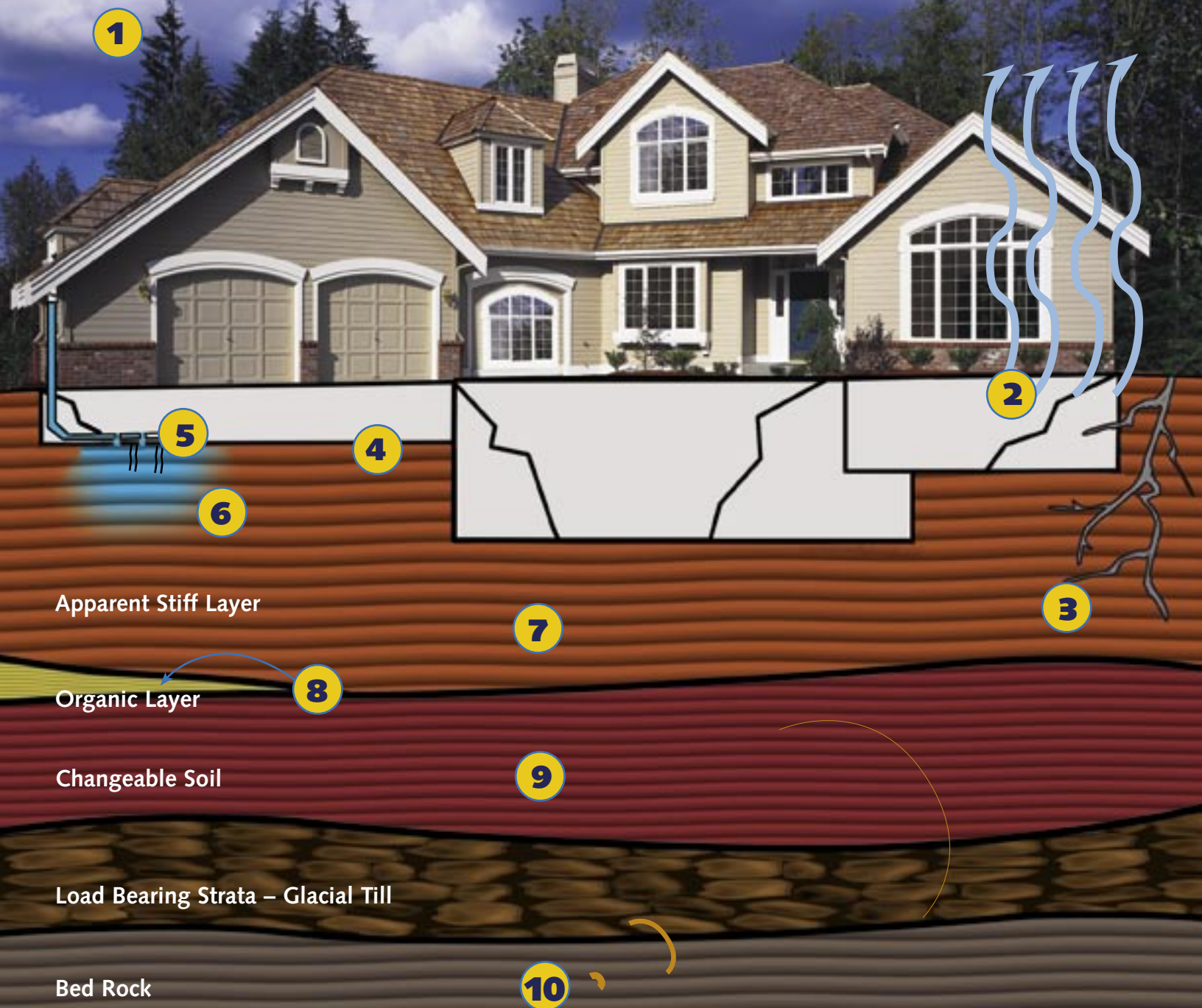


The Leading Edge.SM

10 MAJOR CAUSES OF FOUNDATION SETTLEMENT

One or more conditions may apply.

- 1 Extreme drying of clay soils from the sun and wind
- 2 Evaporation
- 3 Roots drawing out moisture
- 4 Shallow footings
- 5 Broken pipes
- 6 Extremely wet soil
- 7 Compressible soil (natural or man-made)
- 8 Organic layer (natural peat or man-made)
- 9 Deep soils affected by seasonal water tables; wet-dry cycles
- 10 Earthquakes and tremors



IDEAL

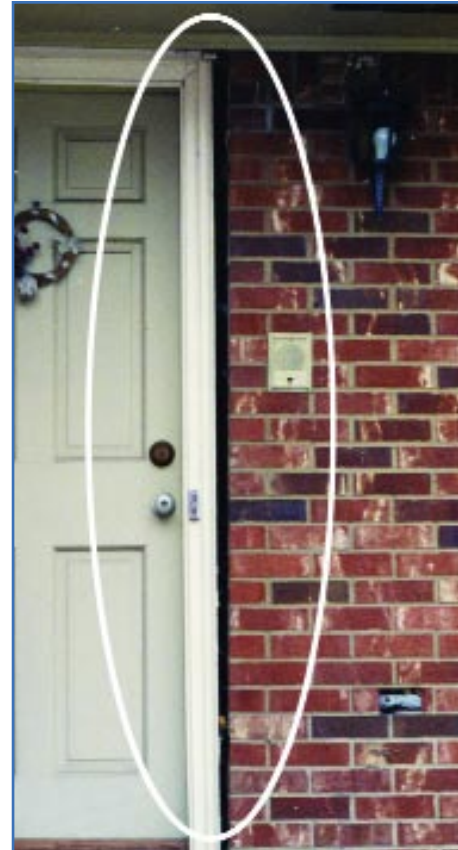
FOUNDATION
SYSTEMS

When the foundation of your home is compromised with serious cracks and settlement problems, look to IDEAL Foundation Systems to put you back on solid footing. With engineered products and methods, and hundreds of relieved customers, we are your responsible choice when you need foundation repairs.

COMMON SIGNS OF FOUNDATION SETTLEMENT

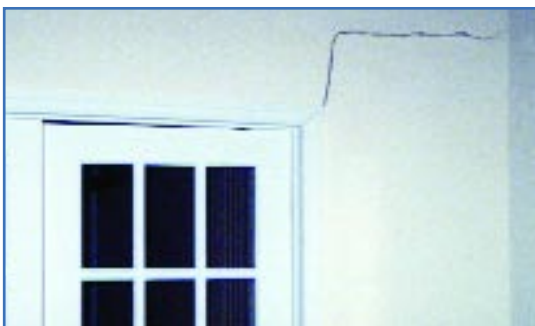
EXTERIOR

- Cracks in Foundation Walls
- Cracks in Brickwork
- Misaligned Doors and Windows
- Gap Between Chimney and House
- Gaps and Cracks in Unusual Places



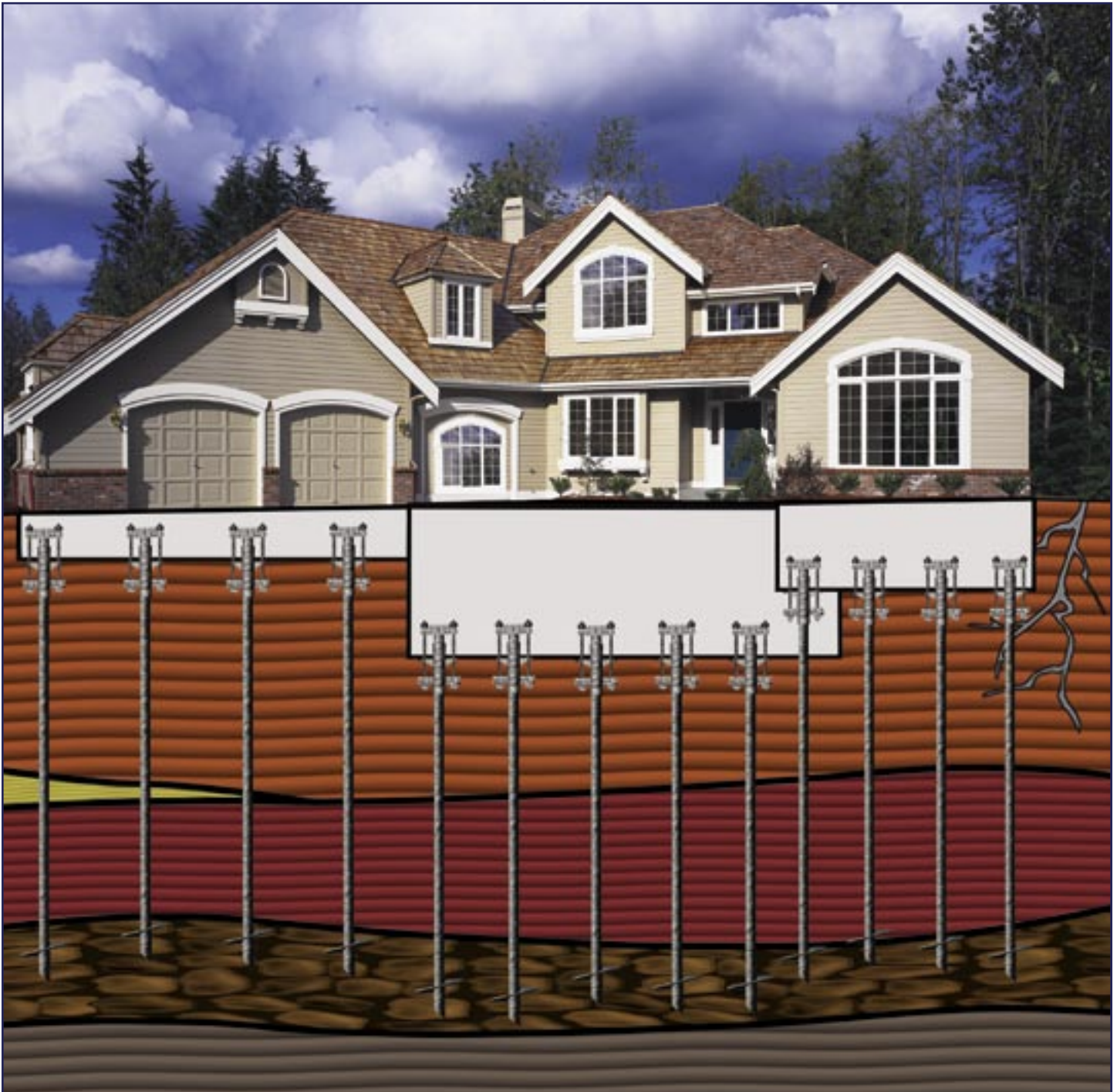
INTERIOR

- Cracks in Walls and Ceilings
- Sloping Floors
- Cracks in Tile and Concrete Floors
- Difficulty Opening Doors and Windows
- Gaps Around Fireplace and Wall
- Stresses and Strains to Plumbing, Electrical and Gas Lines



THE **IDEAL** SOLUTION

- 1** An **IDEAL** Foundation Systems certified installer will analyze the foundation and gather necessary data for remediation design. Soil information will need
- 2** to be obtained to determine pier depth necessary to achieve desired capacity for each pile. A final design is presented indicating pile locations,
- 3** helix size, central shaft requirements and bracket specifications.



- 4** The **IDEAL** foundation remediation process is completed.

THE IDEAL PROCESS

1



First, we excavate down to the footing of the affected foundation wall.

2



Next, we notch the footing and prepare for placement of the patented **IDEAL** underpinning bracket.

3



Then the piles are drilled to the depth determined in the design process to achieve the capacity required to support the structure.

4



Once the piles are drilled to the depth required, the bracket is installed and the weight load of the wall is transferred to the helical pile assembly.

5



The foundation wall is lifted to the desired elevation and the structure is permanently stabilized.

6



Cracks below the surface level of the landscape are repaired, the excavation is back-filled, and the project is completed.

THE iDEAL ADVANTAGE



THE iDEAL ROUND SHAFT HELICAL PILE IS SUPERIOR TO PUSH PIERS, FRICTION PIERS, AND PIPE PIERS.



HD278 iDEAL HELICAL PILE



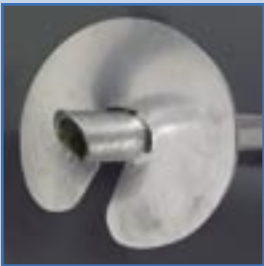
All hot-dipped galvanized components.

BENEFIT +

100-year design life in most soils!

Round Push Piers, Friction Piers and Pipe

Usually bare steel or spray-on coating.



Standard 100" bearing surface.

BENEFIT +

10X more bearing surface!

Standard 2.94-12.56 square inch bearing surface.



Piles are turned in by strong torque motor independent of the foundation.

BENEFIT +

Protects your foundation!

Uses your already distressed foundation to push against as a counter force for driving in pile.



Piles are made with heavy wall-high strength material with bolted connections that are capable of turning through obstructions.

BENEFIT +

Piles can be advanced to depth necessary for permanent stabilization!

Hydraulic rams push thin wall material into the soil – in most cases will not advance to proper depth if obstructions are encountered.



THE **iDEAL** ADVANTAGE



**OUR ROUND SHAFT
HELICAL PILES HAVE
DISTINCT ADVANTAGES OVER
SQUARE SHAFT
HELICAL PIERS.**



HD278 **iDEAL** HELICAL PILE



Standard round shaft has higher torque capabilities: 8 - 11,000 ft. pounds.

BENEFIT +

Greater pier capacity for the same



Greater section modulus for the same cross section of steel.

BENEFIT +

Minimal deflection in soft soils!



Couplings are double-bolted, ultra-rigid connections.

BENEFIT +

Less deflection in long lengths and soft soils!



Allows for post-installation depth and plumbness inspection.

BENEFIT +

No costly, continuous on-site inspection is required.

Square Shaft Helical Piles



Square shaft standard piers can be torqued to a maximum of 5,500 ft. pounds.



Square shaft piers fail dramatically on a consistent basis during buckling tests in soft soils.



Couplings are single-bolt and loose-fitting with 70% less coupling length.



Plumbness and depth verification must be continuously inspected during installation process which increases installation time and adds cost for ongoing inspection services.



iDEAL™

**FOUNDATION
SYSTEMS™**

OUR MISSION

To provide our clients and associates with “Leading Edge” technology, products, equipment and support to ensure excellence in the design and performance of projects relating to foundation remediation, helical piling, tension anchors and other foundation systems.

Pentrey Builders Inc.

www.pentrey.com

1-800-573-6873

Foundation Repair Specialist

The Ideal Group™

80 Bluff Drive • East Rochester, New York 14445-1450

1-800-789-4810