



# FOUNDATION REPAIR (UNDERPINNING)

**Helical Pier Systems / Peace Land Piling** manufactures the **Dura-Lift Bracket Lift System** for underpinning and lifting concrete foundations back to a level position, stopping any further settlement. The **HPS** foundation repair system is Engineer Designed and tested for stated load capacities.

Signs of settlement usually appear with cracks in the sheet rock around windows, doors and in the concrete foundation. If left in disrepair the structure will continue to settle and the windows and doors will stick or just not open at all.

**Installation experts** take all precautions not to damage the exterior finish of the building when installing the Dura-Lift Foundation repair system.

Properly installed **HPS** products offer strength, support and a cost effective solution. If your home has signs of settlement, we recommend you contact your local **Helical Pier System Installer** for recommendations on a cost effective repair solution.



INTERIOR DAMAGE



BRACKET INSTALLATION

The **Dura-Lift Bracket** is slipped over the installed helical pier and slid down under the base of the concrete foundation. The **HPS Certified Installer** rotates the bracket under the concrete foundation and prepares the bracket assembly for the lift.



LIFTING STRUCTURE

Once the foundation is lifted back to a level position, the **Dura-Lift Brackets** are locked down and the hydraulic jacks are removed. The Certified Installer now backfills the excavation around the foundation.

**HPS** piles are designed so that the helical pile is driven vertical into the ground at the base of the foundation until the load bearing capacity has been reached. The area affected by the settlement, and the spacing of the piles determines the number of piles required to repair the foundation. **HPS Certified**



INSTALLING THE HYDRAULIC JACK

A hydraulic jack is placed within the Dura-Lift Bracket assembly, at each point along the structures' foundation. With the **HPS Dura-Lift Brackets** and lifting assemblies in place, the Certified Installer is now ready to lift the entire structure back to a level position. During the lifting and levelling the weight of the building transfers its load from the ground to the **Dura-Lift Bracket Lift System**.



PIER INSTALLATION



FOUNDATION LEVELLED

8610-111 Street, Fort Saskatchewan, AB CANADA T8L3T4

Toll Free: 1-877-547-1017

Toll Free Fax: 1-866-668-9920

info@hpier.com

www.helicalpiersystems.com



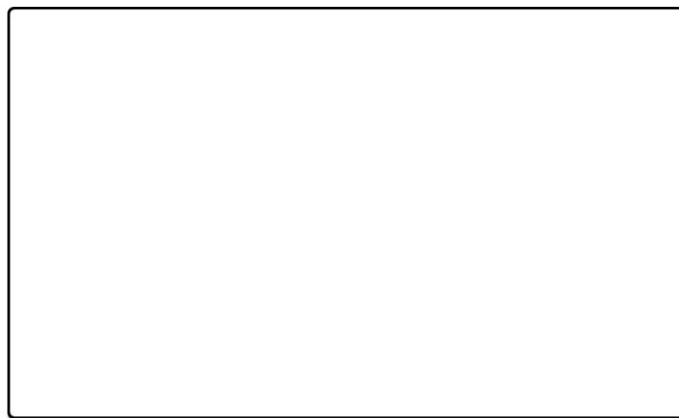


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**Helical Pier Systems'** custom project solutions are backed with quality product, expert engineering, support and installation.

- ✓ **PRODUCT:** The HPS Foundation Repair and Lift System is available in two shaft diameters 2 7/8" and 3 1/2"; which meet most expected structural loads and soil conditions. HPS' Dura-Lift Bracket for 2 7/8" is available for two load and lift applications, 45,000 lbs. and 72,000 lbs. The Dura-Lift foundation bracket system is designed to fit over the pier and under the concrete foundation so the structure can be lifted back to a level position.
- ✓ **ENGINEERING:** Our HPS engineering and technical teams offer years of foundation repair experience. HPS Engineers and technicians assist in determining the placement of the lift system throughout the structure. Proper placement ensures the structural load is evenly spread across the system and that each load point does not exceed the working capacity of the pier and bracket system.
- ✓ **SUPPORT:** HPS engineering and support services provide the customer with engineered design specifications, soils report evaluation and pile design. HPS assists Certified Installers with submittals for bid/tender, assistance with Load Testing and installation.
- ✓ **INSTALLATION:** HPS has large complement of experienced and Certified Installers throughout North America trained to install foundation repair products exactly as designed and specified.

Helical Pier Systems offers engineering and geotechnical expertise for deep foundation construction. HPS solutions are cost-effective even for the most difficult foundation problems.



## Helical Pier Systems Ltd.

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Toll Free: 1-877-547-1017

Toll Free Fax: 1-866-668-9920

[info@hpier.com](mailto:info@hpier.com)

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