

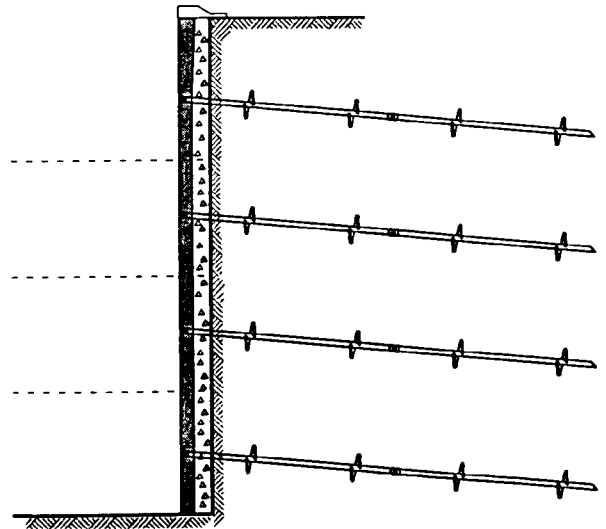


# CHANGE™

**SOIL SCREW® WALL ANCHORS**  
RETENTION WALL SYSTEM

COMMERCIAL GRADE

**C**hance® Soil Screw® wall anchors reinforce in-situ soil with soil screws installed in a grid pattern. The rows of soil screws are typically installed at horizontal angles. Soil Screw wall anchor size and grid spacing are determined by soil conditions and load requirements, including the intended overburden. The system further removes performance uncertainties and the associated costs of grouted soil nails in soils with low shear strength. Soil Screw wall anchors act as bearing devices in soil as opposed to grouted anchors which rely on friction between the soil and grout.



## CUT COSTS AND SAVE TIME

Through design, Soil Screw anchors allow you to build a faster, superior soil nailing and gravity wall.

This retention wall system provides many of the same benefits as tieback walls. Soil Screw anchors have a quicker construction process and less impact on adjacent properties when compared to over excavation and construction of a conventional retaining wall.

Also, by eliminating the need for a high capacity structural facing (soldier piles, walers or thick CIP facings) in many cases, the system lowers overall cost and construction time.

## HISTORY AND INNOVATION SINCE 1912

The Chance helical pile was the first foundation stabilization system created for remedial repair. Today, Chance products continue to lead the industry with innovative solutions that are widely accepted for quality and performance within the deep foundation industry. Hubbell Power Systems proudly manufactures the American-made Chance brand family for residential, commercial, industrial, electric utility, oil and gas, pipeline, mooring, railroad, and renewable energy markets. Backed by over 100 years of engineering experience, Chance helical pile systems offer a technologically advanced and cost-effective alternative to concrete and other foundation systems. Chance helical piles comply with the 2021, 2018, 2015, 2012, and 2009 International Building Code (IBC), are ICC-ES Approved, and ISO:9001 Certified.



## INSTALLATION

*Soil Screw® anchors install similarly for both tieback and soil nail walls.*

*The anchor is rotated into the soil with a continuous pressure and smooth rotation of the helices while monitoring the torque and depth of penetration.*

Soil Screw anchors can be installed using simple, less expensive equipment. Reduced equipment requirements for installation allow more flexibility, even in areas with overhead obstructions. Lastly, with no grouting required

in the installation, Soil Screw anchors provide required capacity immediately upon installation.

Chance Soil Screw anchors should be installed along the excavated face within 6 inches of the planned location. First, the lead section, either 5 or 7 feet long, is installed. The anchor should be aligned on the correct angle from the horizontal axis, as required on the plans. This can be monitored by placement of a level and protractor on the equipment being used to drill the anchors. Once aligned, the anchor should be pushed into the ground up to the first helix (approx. 6 inches), and then drilled or screwed into the soil to a depth that allows the next extension to be bolted on to the lead. The extension should be bolted on with the nut tightened to 40 ft-lb. and then screwed into the ground. Anchor installation should proceed until the depth required on the plans is achieved.



## APPLICATION VERSATILITY

Soil Screw anchors provide predictable results with a cost-effective, proven system. Developed from technology used for tieback walls and foundations anchors, the Soil Screw technology has been successfully used for over 50 years. Chance products are engineered specifically to resist the installation stresses from the high torque applied to the anchors during installation.

Engineers - check out section 9 of the **Chance Technical Design Manual** for more information. [www.ChanceExpert.com/tech](http://www.ChanceExpert.com/tech)



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