Photovoltaic support test pile pull-out test

What is a pull out test?

System optimization and execution performance files. Zoning The objective of the Pull Out test is to evaluate the behavior of the profiles used in the support structures of the tables or panels of a photovoltaic installation, based on the characteristics of the different types of existing terrain.

Why do helical piles have a high pull-out resistance?

The helical pile provides better pull-out resistance at lesser foundation depth required. The surface area of the bearing plateprovides high pull-out resistance,even in loose soils. Helical piles are not well suited to hard soils and soils with very coarse gravel or rock fragments.

Why is helical pile a good choice for solar installation?

Cost per watt in solar installation is required to be minimum; thus,the depth of foundation is required to be minimum. The helical pile provides better pull-out resistanceat lesser foundation depth required. The surface area of the bearing plate provides high pull-out resistance,even in loose soils.

How much does a pull test cost?

Pull tests should be conducted at varying embedment depths and at multiple locations at a site,making sure to encompass each of the different types of soil conditions encountered. Pull tests typically cost $6,000 to $20,000for a site depending on its size,and are usually arranged for or completed by the PV support structure vendor.

How to determine helical pile embedment depth?

In order to determine embedment depth of the helical pile a pull testshould be conducted which will measure the vertical and lateral forces at various embedment depths to see where the helical pile will have sufficient resistance to satisfy the requirements of the loads determined by the PV support structure vendor's structural engineers.

How helical piles resisted pulling-out force?

When helical piles installed in clayey and c - f soils,pulling-out force is resisted by shearbetween soil-to-soil interface instead of the soil-pile surface interface. Cohesion for clay-clay interaction is higher than that for the clay-steel surface.

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