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Title: Construction specification of spiral piles for photovoltaic support

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This study has comprehensively investigated the bearing characteristics of three types of photovoltaic support piles, serpentine piles, square piles, and circular piles, in desert gravel areas.

The invention further discloses a production process of the spiral ground pile of the photovoltaic support.

Piles tested at Site 1 were either single- or double-helix piles (pile types SP1 and SP2) with a shaft diameter of 89 mm, a wall thickness of 6.5 mm, a length of 4.5 m, a helix diameter of 304 ...

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and numerical ...

It consists of hot-dip galvanized steel pipe piles with spiral blades under both the front and rear columns of the photovoltaic brackets. The spiral blades can vary in size, and can be continuous ...

In solar farm construction, the choice of pile driving techniques is crucial not only for ensuring the structural integrity of the installation but also for optimizing efficiency and minimizing ...

This article focuses on the core characteristics of spiral ground piles, detailing their performance indicators, material selection, scenario adaptation solutions, and key construction quality control ...

The assessment of load capacity is crucial to ensure that the structure can support the PV system without the risk of structural failure. ... a plan must be created for the ...

Compared with traditional concrete foundation piles, spiral piles do not require complicated excavation and pouring processes, and the pile body can be directly screwed into the ground by mechanical ...

Photovoltaic screw ground pile can reduce the cost of the foundation of the support system, shorten the

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installation time, and reduce the environmental impact of the ground photovoltaic support system.

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