

What is a PHC (pre-stressed high-strength concrete) pile foundation?

The PHC (pre-stressed high-strength concrete) pile foundation, serving as an innovative supporting structure for solar power stations, is subjected to complex loading conditions in engineering scenarios.

Does pile cap thickness affect torque distribution in a PHC Foundation?

Color contours of the PHC foundations with different pile cap sizes (foundation length: 3.5 m) In conclusion, pile cap thickness played a crucial role in torque reduction, and pile cap side length significantly influenced internal force distribution within the PHC short pile foundation.

Is a PHC pile foundation a reliable support structure for heliostats?

A comprehensive design program is proposed based on field tests and numerical simulations, considering deformation and bearing capacity. The study confirms the reliability of the PHC pile foundation as a support structure for heliostats, aiming to offer valuable insights for practical applications.

Is the PHC pile still elastic under cyclic loads?

Clearly, under cyclic loads of 6 kN·m and 12 kN·m, it could be considered that the PHC pile was still in the elastic stage. This indicated that the loading and unloading stiffness of the foundation structure was not degraded by repeated action under normal operating conditions.

View the complete article here. This guide is tailored for pile driving contractors and engineers involved in solar farm projects--providing an in-depth exploration of the techniques, ...

1 Introduction In recent years, photovoltaic (PV) power generation, an important form of renewable energy, has rapidly developed globally, becoming a key driver for energy transition and ...

The thermal exergy efficiency comparison between the smooth tube and the newly designed perforated-ring tube across varying mass flow rates and irradiance levels (Fig. 9 (a and b)) ...

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Field tests of the surface morphology and thickness changes for four types of anticorrosion coatings applied to PHC pipe piles were conducted to determine the protective performance of each ...

PHC pipe pile is widely used in photovoltaic projects because of its short construction period and low cost. However, under the strong corrosive environment of saline-alkali beach, if no anti-corrosion ...

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In solar tracking systems, PHC have become the preferred foundation solution for ground-mounted PV plants due to their standardized industrial production and excellent mechanical ...

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