

Prestressed pipe piles for photovoltaic support

Prestressed high-strength concrete pipe piles (PHC pipe piles) are widely used in industrial and civil construction, roads and railway bridges, ports, and other engineering ...

influencing the selection of prestressed pile are pile prices and availability. When designing a foundation a review of current unit prices for prestressed piles available in the area should be ...

1. Introduction. Prestressed high-strength concrete (PHC) pile, a kind of hollow cylinder with constant equal sections, is a combination of prestressed technology and ...

A pretensioned prestressed high strength concrete pipe is called a PHC pile for short [1,2,3,4] s bearing capacity includes vertical bearing capacity, horizontal bearing capacity and seismic bearing capacity ...

This indicates that the proposed double row pile-prestressed anchor cable support method has good control effect. (3) The soil around the foundation pit tends to settle, and monitoring ...

By taking a practical engineering as the research object, a numerical model of double row piles and prestressed anchor combined support system were established, and the ...

The Prestressed Concrete Pipe (PCP) pile-composite foundation was initially employed in the foundation of a culvert in the ancient Yellow River of China. To analyze the ...

The connection joint of prestressed concrete pipe piles is a typical steel-concrete structure, and its bending strength has evolved into a critical factor affecting the safety of supporting ...

Precast pile foundation: Prestressed concrete pipe piles with a diameter of about 300mm or square piles with a cross-sectional size of about 200*200 are driven into the ...

existing investigations into jacked piles were carried out mostly on model piles or steel piles (e.g., Lehane and Jardine, 1994[10]; White, 2002[2]; Yu, 2004[11]; Yang et al., 2006[12]; Zhang and ...

sidered. Heavy marine structures often rely on prestressed concrete piles driven through deep water or through deep layers of unsuitable material for their support. Prestressed concrete ...

Prestressed high-strength concrete pipe (PHC) piles are manufactured using pretensioned prestressing and centrifugal molding techniques. Compared with traditional cast ...

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Drilling with prestressed concrete pipe cased piles (DPC piles) introduces a novel methodology in the domains of energy conservation and environmental protection, utilizing ...

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Soft Ground; Prestressed. Concrete Pipe-Pile; Foundation Settlement Abstract: This study presents a detailed examination of the implementation of prestressed concrete pipe ...

When using the core concrete connection method, concrete mixed with an expansion agent is poured inside the PHC pipe pile and longitudinal reinforcement is installed ...

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