



Pile Driven Solar Ground Structure System MG Solar

How are driven piles installed?

Driven piles are installed very quickly by pile drivers, of which there are several commonly used types such as the GAYK and Vermeer. Some of these machines are highly sophisticated, with GPS guidance and automated installation technology allowing installation of piles for very low cost, considerably below that of other foundations.

What is a driven pile?

Driven piles are the simplest and least expensive foundations, and are typically I beams, hat or channel shaped steel sections. These are commonly galvanized to prevent against corrosion and ensure long life under environmental conditions.

What is a helical pile?

A helical pile is a post shape with a pointed bottom and a large split disc near the bottom welded onto the post at an angle such that when the post is rotated the split disc will worm its way into the ground. The helical pile is typically hot dip galvanized with corrosion resistant zinc after fabrication.

What is a G235 pre galvanized pile?

The use of thick pre galvanized coatings such as G235 (often used for sewage culverts and highway guard rails where thick galvanization is required) has created a much more cost effective roll formed driven pile, which has seen widespread adoption among quality leaders in the industry.

How to determine helical pile embedment depth?

In order to determine embedment depth of the helical pile a pull test should 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.

Ground mount structures are designed to be located on the ground, supported by metal frames (generally of aluminum, steel or aluminum alloy) and fastened to the ground in different possible ways that we will explain below. The best thing ...



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