

European Solar and Energy Storage Solutions

Hot-dip galvanized photovoltaic bracket quality inspection



Overview

How is hot-dip galvanized steel inspected?

The inspection of hot-dip galvanized steel is simple and quick, and the two properties of the hot-dip galvanized coating closely scrutinized are coating thickness and coating appearance. A variety of simple physical and laboratory tests may be performed to determine thickness, uniformity, adherence, and appearance.

What is hot dip galvanizing?

Unlike most coatings, which rely solely on preparation of the steel to obtain adhesion, hot dip galvanizing produces a coating bonded metallurgically to the steel. In other words, the iron and zinc react together to form a series of alloys that make the coating an integral part of the steel surface with excellent cohesion. Toughness.

What makes hot-dip galvanized a good coating?

A key feature of hot-dip galvanized (HDG) products is longevity and decades of maintenance-free performance. The time to first maintenance for galvanizing is directly proportional to the zinc coating thickness. Therefore, the coating thickness is the most important component in determining a galvanized coating's quality.

Can hot dip galvanized steel be damaged?

Although the hot-dip galvanized coating is very resistant to damage, small voids or defects in the coating can occur during the galvanizing process or due to improper handling of the steel after galvanizing. Touch-up and repair of galvanized steel is simple, whether newly galvanized or in service for years.

What tests can be performed on hot-dip galvanized steel?

In addition to coating measurements and a visual inspection of the appearance and finish, there are a few other tests that may be conducted on

hot-dip galvanized steel. These tests below are typically done only when you have question or concern about the galvanization quality.

Why do we inspect hot-dip galvanized steel?

The purpose of inspecting hot-dip galvanized steel is to ensure conformance to the specification requirements, and although differences in appearance and finish may be present, they are not cause for rejection unless they will affect the long-term corrosion protection. W W W .

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COMPREHENSIVE GUIDELINES FOR THE INSPECTION AND ...

ance of hot dip galvanized structural steel in an obscured ap-plication is different from that where a product is used as an ar-chitectural feature. An awareness of the end use of the product and ...

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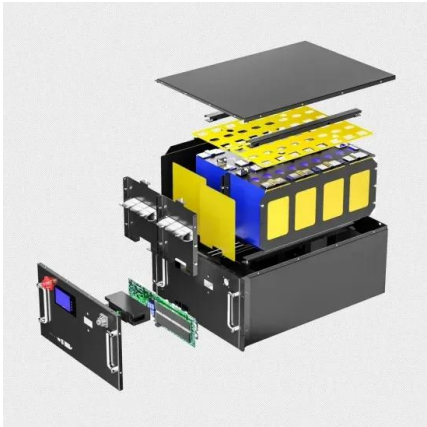
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Inspection of HDG

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Qingdao Dadi Energy Co.,Ltd, mainly sales and production of photovoltaic support,flexible support, tracking support, raw materials are: hot-dip galvanized, zinc-aluminum magnesium, ...

Inspection of Hot-Dip Galvanized Steel Products

Revised in 2016, this 24-page instructional guide covers the inspection procedures for hot-dip galvanized steel including visual inspection guide with photo examples, sampling techniques, thickness and uniformity measurement, ...





Materials, requirements and characteristics of solar photovoltaic brackets

Solar photovoltaic bracket is a special bracket designed for placing, installing and fixing solar panels in solar photovoltaic power generation systems. The general materials are aluminum ...

Inspection and Test Plan

This document outlines the inspection and test plan for hot dip galvanizing. It details 7 key steps: 1) Receiving and jiggging materials, 2) Pretreatment and surface preparation, 3) Hot dip galvanizing material, 4) Quenching, 5) ...



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