

Aluminum alloy cable trays are a type of galvanized cable trays



Summary of Content

Galvanized cable trays are made of steel coated with zinc, not aluminum alloy.

Galvanized cable trays consist of steel with a protective zinc coating that prevents rust and corrosion, extending the tray's lifespan in environments exposed to moisture or chemicals. The galvanization process can be done via hot-dip or electro-galvanization, providing sacrificial protection where the zinc corrodes first to protect the underlying steel. These trays are widely used for their cost-effectiveness, durability, and ease of installation in industrial and commercial applications. In contrast, aluminum alloy cable trays are made from aluminum mixed with other elements, such as magnesium and silicon, to enhance strength and corrosion resistance. Common alloys include 6061 and 6063, with 6063-T6 being popular for structural applications due to its lightweight, corrosion resistance, and non-magnetic properties. Aluminum trays are preferred in marine, chemical, or high-corrosion environments and offer advantages like easier field modifications and reduced labor during installation. Key Differences:

- Material: Galvanized trays = steel + zinc coating; Aluminum trays = aluminum alloy (e.g., 6063-T6)
- Weight: Aluminum trays are lighter, reducing installation effort
- Corrosion Resistance: Galvanized steel relies on zinc coating; aluminum is homogenous and naturally corrosion-resistant

Article Content

Cable tray

Galvanized tray may be made of pre-galvanized steel sheet fabricated into tray, or may be hot-dip galvanized after fabrication. When

Cable tray material and finish

The fabricated tray is immersed in molten zinc, creating a thick, adherent zinc-iron alloy layer for robust, long-lasting cathodic

Aluminum Alloy Cable Tray for Corrosion-Resistant Systems

This article explores the design, benefits, installation practices, and real-world applications of aluminum alloy cable

Aluminum vs HDG vs Stainless Steel Cable Tray

Compare aluminum, HDG, and stainless steel cable trays by corrosion resistance, ISO 12944 class, structural strength, and lifecycle

Hot-Dip Galvanized vs. Aluminum | Cable Tray Institute

Steel cable tray with a Hot-Dip Galvanized after Fabrication (ASTM A123) finish has been used successfully for many years.

Aluminum Cable Tray

The aluminum cable tray is lighter than the stainless steel cable tray or galvanized cable tray, so it is easy to install and transport.

Alum Alloy Cable Tray VS Galv Cable Tray: A Comprehensive

In this article, we will provide an in-depth comparison of Alum Alloy Cable Tray VS Galv Cable Tray, covering key

Aluminum vs. Galvanized Cable Trays | PDF | Galvanization | Cable

1) The document discusses the choice between using hot-dip galvanized steel cable tray vs. aluminum cable tray for corrosive or

WHY: All Aluminum Cable Tray Systems Equals Cable Management

Steel cable tray with a Hot-Dip Galvanized after Fabrication (ASTM A123) finish has been used successfully for many years.

Cable Tray: Hot-Dip Galvanized vs. Aluminum in Outdoor Application

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Contact Us

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