

How to deal with galvanized cable trays that are too soft



Article Overview

Galvanized cable trays can feel too soft due to insufficient support spacing, thin tray material, or inadequate design, but their rigidity can be improved with proper reinforcement and installation practices.

Reasons for Softness

- **Tray Material and Thickness:** Galvanized trays, especially pre-galvanized or electro-galvanized types, may have thinner steel compared to hot-dip galvanized trays, making them more prone to bending under heavy cable loads .
- **Support Spacing:** Excessive distance between support brackets can cause sagging. Standard practice recommends supporting trays every 2-3 meters, but reducing spacing to 1.5-2 meters in high-load areas significantly increases stiffness .
- **Tray Design:** Ladder-type trays with shallow sidewalls or low collars provide less rigidity. Taller sidewalls (50-100 mm) or internal dividers can enhance load distribution and reduce deflection .
- **Installation Issues:** Loose brackets, misaligned joints, or improper fastening can allow trays to shift or vibrate, further reducing perceived stiffness .

Solutions to Improve Rigidity

- **Increase Support Frequency:** Add additional brackets or reinforcement at bends and high-load sections to prevent sagging .
- **Select Thicker or Hot-Dip Galvanized Trays:** Hot-dip galvanization provides a thicker coating (65-85 microns) and often uses stronger steel, improving both corrosion res...

Article Content

Galvanized Cable Tray: Durable Industrial Solutions

Discover galvanized cable trays for industrial wiring, with installation tips, load data, and corrosion-resistant solutions

How to Fix an Overloaded Cable Tray System

If your cable tray system is buckling under the pressure, figuratively or literally, it's time to act. An overloaded cable

What You Need to Know Before Choosing Galvanized Cable Trays

Cable trays designed to withstand fire are typically fabricated from materials like galvanized steel or stainless steel, and they are

Why Galvanized Cable Tray is the Best Option for Industrial Applications

Discover why galvanized cable trays are ideal for industrial use, focusing on corrosion resistance, types, and key benefits.

The Ultimate Guide to Selecting High Quality Galvanized Cable Trays

An effective cable management system is important for the safety and efficiency of an electrical infrastructure. Whether it is an

Safely Installing, Maintaining and Inspecting Cable Trays

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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Common issues and solutions for galvanized cable trays-Liaoning ...

This article will introduce common issues encountered when using galvanized cable trays, as well as corresponding solutions, to help

Galvanised Cable Trays | The Cable Manager

Introduction to galvanised cable trays Galvanised cable trays have become an indispensable element in modern cable management,

Ultimate Guide To Choosing Right Galvanized Cable Tray

Galvanized cable tray, also known as Electro-Galvanized Cable Tray, is a durable, versatile, and cost-effective cable tray system

Common cable tray installation mistakes and how to avoid them

Based on common findings during post-installation inspection and final acceptance, this article summarizes the most frequent cable

GI Cable Trays – What it is, Types and Applications

GI cable tray systems take care of this efficiently. A GI cable tray (Galvanized Iron Cable Tray) is a structural system

BEAMA Best Practice Guide to Cable Ladder & Cable Tray Systems

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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