ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Aluminum sheet for cable trays



Overview

Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA Cable Tray, UL listed, NEMA and certified.

Key Takeaways

6063-T6 aluminum alloy is the most commonly used sheet for cable trays due to its strength, corrosion resistance, and lightweight properties.Common Aluminum Alloys for Cable Trays

Cable trays are typically fabricated from aluminum alloys such as 6063-T6, 6061, 3003, and 1060, with 6063-T6 being the industry standard for most applications . This alloy is sometimes referred to as marine grade aluminum because it is copper-free and offers excellent resistance to corrosion, even in coastal or outdoor environments . Other alloys like 6061 may be used for applications requiring higher mechanical strength, while 3003 and 1060 are suitable for lighter-duty or indoor installations .

Key Properties
• Corrosion Resistance: Aluminum naturally forms a protective oxide layer, and anodized or powder-coated finishes enhance durability against rain, salt spray, and chemical exposure .

• Lightweight: Aluminum trays are significantly lighter than steel, reducing installation labor and structural support requirements .

• Thermal and Electrical Conductivity: Aluminum efficiently dissipates heat from cables and can assist in grounding or bonding applications .

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• Mechanical Strength: 6063-T6 provides sufficient rigidity to support long cable runs without bending, while maintaining ease of handling .

• Self-Healing Surface: Minor scratches on 6063-T6 aluminum react with air to form a new protective oxide layer, preventing corrosion at damaged spots .
Applications

Aluminum cable trays are widely used in industrial facilities, data centers, coastal projects, and outdoor installations where corrosion resistance and lightweight construction are critical . They are suitable for ladder, perforated, and channel designs, and can be combined with steel supports if compatible fasteners are used to prevent galvanic corrosion . In summary, 6063-T6 aluminum alloy sheets are preferred for cable trays due to their combination of strength, corrosion resistance, lightweight, and thermal performance, making them ideal for both indoor and harsh outdoor environments .

Article Content

Aluminum Cable Tray

Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA Cable Tray, UL listed, NEMA and certified.

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The aluminum cable tray is a lightweight, durable, and cost-effective solution used for organizing and safely carrying electrical and

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Cope aluminum swage ladder tray offers superior rigidity and easy cable installation for high vibration

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The aluminum cable tray is a lightweight, durable, and cost-effective solution used for organizing and safely carrying electrical and

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Cable Tray Systems — Ladder, Ventilated, Aluminum

As a less-expensive alternative to conduit, a stronger alternative than wire basket, and superior to generic

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Full cable tray and cable management NEMA catalog

Aluminum cable trays are fabricated from structural grade “copper free” (marine grade) aluminum extrusions. Aluminum''s excellent

Resources for Cable tray and ladder systems

Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and

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Aluminum cable tray Straight lengths — Tray bottom types: ladder, ventilated and solid trough Ladder Extra wide aluminum rungs

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TechLine Mfg perforated angle and channel cable trays in hot-dip galvanized, aluminum, and 304 stainless steel. UL Classified

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Perforated Cable Tray

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Efficient cable management is crucial for maintaining an organized, safe, and functional environment in both residential and industrial

Data Center Cable Management & Infrastructure

Discover how Marlin Steel''s U.S.-made wire mesh cable trays and sheet metal fabrications support high

Cable Tray Selector

MP Husky''s cable tray selector for choosing the correct tray type (ladder, solid bottom, perforated, wire

Cable Tray Covers

MP Husky offers a wide variety of cable tray covers to provide protection for the cables contained within the system from sunlight,

Cable Tray And Fittings | Graybar Store

A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Metal Cable Tray Installation Guidelines | Cable Tray Institute

The Cable Tray Institute is making available the current edition of this practical guide for the proper installation of aluminum or steel

Cable Tray | EAE Electric | Medium & heavy duty cable trays

Explore EAE Electric''s medium and heavy-duty cable tray systems designed for optimal cable management and durability in

Cable Tray Installation Specifications | PDF | Sheet Metal

This document provides installation guidelines for cable trays, including: 1) Cable trays come in perforated and ladder types, with

Complete Guide to Metal Cable Tray Materials in Industrial Applications

Explore metal cable tray materials, their benefits, and applications in industrial settings for reliable cable management

Aluminum Cable Tray Manufacturers, Suppliers, Dealers & Prices

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A Cable Tray is a type of structural system that comprises a series of interconnected metal or non-metallic trays that

CableTray Book English

T&B channel tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or

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Aluminum Ladder Style Cable Tray PowerTray is a versatile Aluminum Ladder Tray system available in a broad range of NEMA and

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Heavy duty cable trays and cable ladders are manufactured from pre-galvanized, electro-galvanized, or hot-dipped galvanized sheet

Full NEMA cable tray and cable management catalog

Aluminum Cable Tray, Series 2, 3, 4 & 5 Side Rails Our I-Beam - the most efficient structural shape Using “Copper-free” 6063-T6

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Hengda offers various metal cable trays and basket trays in ladder shape and channel lines with good ventilation and protection. The

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