

Zinc-aluminum-magnesium cable tray standards



Article Overview

Zinc-Aluminum-Magnesium (Zn-Al-Mg) cable trays use a specialized alloy coating that enhances corrosion resistance, durability, and mechanical strength, with typical compositions optimized for industrial and outdoor environments.

Composition and Alloy Standards

Zn-Al-Mg cable trays are manufactured with a steel substrate coated with a Zn-Al-Mg alloy, which provides superior protection compared to traditional galvanized steel trays (). While exact percentages can vary by manufacturer, the typical composition includes:

- Zinc (Zn): Provides sacrificial corrosion protection and forms the primary barrier against rust.
- Aluminum (Al): Enhances corrosion resistance, particularly against atmospheric and chemical exposure, and contributes to the formation of a stable oxide layer.
- Magnesium (Mg): Improves the self-healing property of the coating, allowing minor scratches to form a protective layer over exposed areas. The combination of these metals ensures long-term durability, especially in environments with high humidity, salty air, or chemical exposure ().

Performance and Testing Standards

Zn-Al-Mg cable trays are designed to meet international standards for mechanical a...

Article Content

Apr 27, 2026

Zinc magnesium (ZM)

As well as being available in traditional pre-galvanised (PG), hot dip galvanised (G) and stainless steel (S) finishes, Swifts cable tray

Sep 25, 2025

ZM FINISH ADDED TO CABLE TRAY RANGE - Unitrunk

Unitrunk's ZM cable tray range is manufactured in accordance with BS EN 10346. The ZM cable tray range is available to order now

Jul 04, 2026

NOW AVAILABLE IN ZM

ZM (Zinc Magnesium) is a pre-coated steel product which uses a metallic composition of zinc, with aluminium, and magnesium. This

Apr 24, 2026

CABLE TRAY SYSTEMS GUIDE

Aluminum Ladder System SPAN/LOAD CLASS DESIGNATIONS Commonly called the Load Class, this defines the load-carrying

Sep 24, 2025

CABLE TRAYS

The HS (High Resistance) alloys used in ZnAl (Zinc Aluminum), ZnMg (Zinc Magnesium) or ZnNi (Zinc Nickel) cable trays have an

Nov 25, 2025

Full cable tray systems specification document

Aluminum Tray - Splice plates shall be made of 6063-T6 aluminum, using four square neck carriage bolts and serrated flange

Sep 15, 2025

Heavy Duty Cable Tray Zinc Magnesium

Heavy Duty Tray 50 mm Deep Returned Flange 75, 100, 150, 225, 300, 450, 600 x 50 mm - 3m Lengths 50mm Return Flange. All

Aug 31, 2025

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

May 24, 2026

Sunway Anti-Corrosion Zinc Aluminum Magnesium Perforated Cable Tray

3.Versatile: Choose between perforated or ventilated types to best suit your cable management needs, increasing system efficiency

Aug 26, 2025

Type of Cable Tray

Cable Tray Materials: Most cable tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an

Jun 14, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics,

Jul 17, 2026

Cable Tray Systems

Aluminium trays manufactured to relevant standards are also available. As well as the extensive standard shelf range, EzyStrut also

Mar 26, 2026

What is Zinc-Aluminum-Magnesium Cable Tray?

This article will explore the definition, key features, production process, and applications of Zinc-Aluminum

May 09, 2026

Zinc-Aluminum-Magnesium (ZAM) Cable Tray

A corrosion-resistant cable support system manufactured from steel substrate with advanced Zn-Al-Mg alloy coating.

Jul 26, 2026

Zinc-Aluminum-Magnesium Separated Cable Tray

Zinc-Aluminum-Magnesium Features: 1. Exceptional corrosion resistance: 3-5 times that of hot-dip galvanizing and over 10 times that

Jun 05, 2026

Aluminum-Magnesium Cable Trays VS HDG Cable Trays

Explore the key differences between Aluminum-Magnesium Cable Trays VS HDG Cable Trays, including corrosion

Nov 09, 2025

Why Australia Is Moving Towards Zinc Magnesium Cable Tray?

What is Zinc Magnesium Cable Tray? A new generation of metal coating technology is beginning to change the

Nov 26, 2025

How to Choose the Surface Corrosion Protection for Cable Trays

In the construction of electrical infrastructure, cable trays are essential components for supporting and protecting

Jul 15, 2026

12-SDMS-06

This SEC Distribution Material Specification requirements for design, materials, manufacturing, indoor/outdoor Metallic Cable Tray

Oct 17, 2025

CABLE MANAGEMENT IN DATA CENTERS

Pre-galvanised finish steel wire cable trays will not offer the same level of resistance to corrosion as other finishes, such as

Jul 04, 2026

GUIDE CABLE TRAYS TECHNICAL

Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian

Aug 14, 2025

ZM Catalogue

What is Zinc Magnesium? ZM is a metallic coating applied to steel which is made up of a chemical composition which includes Zinc,

Nov 12, 2025

Zinc-Aluminum-Magnesium Cable Trays

Zn-Al-Mg cable tray is a new-generation cable management solution made from zinc-aluminum-magnesium coated steel, specially

Mar 29, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Dec 13, 2025

NOW AVAILABLE IN ZM

GA cable tray offers a high level of resistance in a corrosive environment. These products are manufactured from mild steel, then

Aug 28, 2025

Zinc Aluminium Magnesium Cable Trunking

Zinc Aluminium Magnesium Cable Trunking Powder coating wire mesh cable tray dimensions are all inner size. It is constructed with

Mar 20, 2026

ZM FINISH ADDED TO CABLE TRAY RANGE – Unitrunk

ZM FINISH ADDED TO CABLE TRAY RANGE Our market-leading cable tray system is now available in ZM (Zinc Magnesium), as

Jun 27, 2026

Light Duty Cable Tray Zinc Magnesium

Light Duty Tray 10 mm Straight Edge 50, 75, 100, 150, 225, 300, 450 x 10 mm – 3m Lengths 10mm Straight Edge. All Light Duty

Contact Us

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