

Cable tray dip coating process



Overview

Steel trays get dipped in very hot molten zinc (around 450°C). The zinc bonds tightly to the steel, creating a thick, tough layer. Process: Degreasing → Pickling → Rinsing → Fluxing → Drying → Hot-dip galvanizing → Cooling → Passivation (optional) → Inspection. Hot-dip galvanizing is a process that enhances the durability of cable trays by creating a protective zinc coating, safeguarding them from corrosion. It is cost-effective, protects against a wide variety of environmental chemicals, and is self-healing if an area becomes unprotected through cuts or scratches. Steel is coated with zinc through electrolysis by dipping steel into a bath of. Legrand's offer of global solutions for wiremesh cable trays (and accessories) is one of the most complete on the market. It offers true freedom by allowing multiple configurations in a wide choice of finishes for optimal integration into any environment.

Article Content

May 21, 2026

Electrical Engineering Finishing of cable Tray Industry Learners

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself.

Aug 26, 2025

Comparative Analysis of Hot-Dip Galvanized and Pre-Galvanized Cable Trays.

Hot-Dip Galvanized: The hot-dip galvanizing process involves immersing the steel cable tray in a bath of molten zinc at high temperatures. This results in a metallurgical bond between the...

Apr 06, 2026

CABLE TRAYS

Hot-dip galvanising by immersion in a bath of molten Zinc at 450°C (850°F), has been around for more than 150 years, and no longer has to prove itself.

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Technical specifications CT15 (Cable Tray perforated)

An added advantage of hot-dip galvanizing is that along the edges and pointy bits, where objects are usually extra susceptible to corrosion, the zinc coating is thicker because of the behaviour of the liquid.

May 15, 2026

Cable Tray Finish Guide: HDG, Spray, Anodising

This guide breaks down the five main cable tray finishes. We'll cover: what they are, how they're made, where to use them, what they cost, and their pros and cons.

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Comprehensive Guide to Hot-Dip Galvanize Cable Trays

Hot-dip galvanizing is a process that enhances the durability of cable trays by creating a protective zinc coating, safeguarding them from corrosion. This protective layer ensures the longevity ...

Aug 07, 2025

Anti Corrosion Hot-Dip Galvanized Cable Tray System: A reliable ...

This process not only forms a dense zinc layer on the steel surface, but also generates a Fe-Zn alloy compound layer at the interface, effectively preventing the spread of rust.

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Basor Electric

This coating is applied on sendzimir galvanized steel or on base steel. In the latter case, before the electrostatic application of the resin, the parts are degreased and amorphous phosphating by ...

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Cable Trays vs Powder-Coated | Which is Best for Your Project?

Choosing between hot-dip galvanized cable trays and powder-coated cable management systems? This decision affects your electrical installation's durability, maintenance requirements, and ...

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Comparative Analysis of Hot-Dip Galvanized and Pre ...

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Hot-dip galvanized steel cable trays | Technical guide for demanding ...

EN ISO 1461 defines hot-dip galvanizing as the formation of a coating of zinc and/or zinc-iron alloy on iron and steel products by immersing the pieces in a bath of molten zinc at around 450 °C, after ...

Contact Us

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