

Thickness of galvanized cable trays in Portugal



Overview

This machine is capable of rolling steel strips with a thickness of 0.03mm) into high-quality cable trays.

Key Takeaways

Galvanized cable trays in Portugal typically use steel sheets with a zinc coating of 18-21 microns (275 g/m²), providing strong corrosion resistance. Zinc Coating Thickness

Galvanized cable trays are manufactured from steel sheets coated with zinc through hot-dip galvanization. The most common zinc coating thickness for Sendzimir galvanized steel is Z 275, which corresponds to 275 g/m² on both sides, equivalent to approximately 18-21 microns. This coating ensures long-term protection against rust and corrosion, acting as a sacrificial layer if the steel surface is damaged.

Steel Sheet Thickness

The base steel sheet thickness varies depending on the tray type and load requirements. Standard perforated or ladder-type trays typically use steel sheets ranging from 1.0 mm to 2.5 mm, while heavier-duty trays for industrial applications may use thicker steel. The exact thickness is selected based on mechanical load, span, and environmental conditions.

Standards and Compliance



In Portugal, galvanized cable trays generally comply with European standards, including NEN-EN-ISO 1461, which specifies minimum coating thickness and durability requirements . The zinc layer provides cathodic protection, and modern galvanizing processes ensure a uniform, shiny surface with consistent thickness .

Practical Considerations

- Perforated trays allow ventilation and prevent cable overheating.
- Solid-bottom trays may require slightly thicker steel to maintain rigidity.
- Environmental factors such as humidity, coastal exposure, or chemical presence may influence the choice of coating thickness or additional protective layers. In summary, for galvanized cable trays in Portugal, expect a zinc coating of 18–21 microns (275 g/m²) on steel sheets typically 1–2.5 mm thick, ensuring durability, corrosion resistance, and compliance with European standards .

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ests in accordance of the standard. Armorduct cable tray systems are usually assembled using M6 roofing bolts particularly for

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3.4 Galvanized Cable Tray Material Thickness Select a tray made from galvanized steel with the appropriate thickness and gauge to

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