

Mauritius Cable Tray Thickness



Overview

HOT DIP GALVANISED PERFORATED CABLE TRAY (Thickness 1mm) Compared with the normal galvanizing process, the perforated cable tray treated by the hot-dip galv.

Key Takeaways

Cable tray thickness in Mauritius typically ranges from 1 mm for light-duty perforated trays to 2-3 mm for heavy-duty ladder or channel trays, depending on the tray type and load requirements. Typical Thickness by Tray Type

- Perforated (Trough) Cable Trays: Commonly 1 mm thick for hot-dip galvanized steel trays, providing adequate support for control and communication cables while offering ventilation and corrosion resistance .
- Ladder Cable Trays: Designed for heavy power cables and long spans, these trays usually have a thickness of 1.5-3 mm, depending on the load and side rail height .
- Channel Cable Trays: Used for small cable runs and control wiring, these are generally 1-2 mm thick, sufficient for light-duty applications .
- Wire Mesh (Basket) Trays: Thickness is determined by wire diameter, typically 1-2 mm, balancing flexibility with load capacity .

Factors Affecting Thickness Selection

- Load Capacity: Thicker trays support heavier cables and longer spans without deflection. Ladder trays require higher thickness for structural integrity.
- Material and Coating: Hot-dip galvanizing improves corrosion resistance, allowing slightly thinner trays to perform effectively in humid or industrial environments .

- Installation Standards: Mauritius follows MS34/MS35 specifications and often references British Standards BS 4482 & BS 4483, which guide minimum thickness requirements for different tray types .

- Application Type: Power cables, control cables, and data cables have different mechanical and thermal requirements, influencing the choice of tray thickness.

Summary

In Mauritius, 1 mm is standard for light-duty perforated trays, while 1.5–3 mm is typical for ladder and channel trays used in industrial or commercial installations. Wire mesh trays generally fall in the 1–2 mm range. Selecting the correct thickness ensures structural stability, proper cable support, and compliance with local standards .

Article Content

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Compared with the normal galvanizing process, the perforated cable tray treated by the hot-dip galvanizing process (we called

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