

Electro-galvanized cable tray effect and price



Article Overview

Electro-galvanized cable trays offer moderate corrosion protection at a lower cost than hot-dip galvanization, with prices typically ranging from \$2 to \$25 per meter depending on material, size, and finish.

Effects and Benefits

Corrosion Protection: Electro-galvanization involves coating steel with a thin layer of zinc through an electrolytic process. This zinc layer provides sacrificial protection, meaning it corrodes preferentially to protect the underlying steel. Over time, the zinc reacts with oxygen to form a stable oxide layer, which slows further corrosion. While effective in indoor or mildly corrosive environments, electro-galvanized trays are less durable than hot-dip galvanized trays in highly corrosive or outdoor conditions. The corrosion resistance is proportional to the thickness of the zinc coating applied during the process .

Durability and Maintenance: Electro-galvanized trays are lightweight and easy to handle, making installation simpler and reducing labor costs. Their open design allows for easy inspection, cleaning, and cable maintenance, preventing dust accumulation and overheating of cables . They are suitable for environments where moderate protection is sufficient and where future modifications or expansions of cable systems are expected.

Electrical and Safety Considerations: The zinc coating also provides a degree of electrical insulation from corrosion-related shorts, and the open tray design ensures ventilation, reducing fire risk and maintaining cable performance

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For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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