Does Namibia use electric welding for network cable trays

Overview

Instrumentation cable trays are critical for organizing and protecting electrical and signal cables in industrial environments.

Key Takeaways

In Namibia, cable trays are primarily made from steel or galvanized steel, and electric welding is commonly used in the fabrication of certain types, though installation often relies on bolting or mechanical fastening.Cable Tray Types in Namibia

Namibia uses a variety of cable trays for network and electrical installations, including galvanized steel trays, ladder trays, perforated trays, and wire-mesh trays . Galvanized trays are manufactured from steel sheets coated with zinc through a hot-dip galvanization process, providing corrosion resistance and durability . Wire-mesh trays are often welded from high-strength steel wire, forming a rigid structure suitable for light to medium cable loads .

Use of Electric Welding

Electric welding is typically employed during the fabrication stage of steel and wire-mesh cable trays to join components and ensure structural integrity . This is especially relevant for custom or heavy-duty trays used in industrial or commercial settings. However, during on-site installation, trays are usually assembled using bolts, clamps, or mechanical fasteners rather than welding, to allow for easier adjustments, maintenance, and compliance with safety standards .

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Installation Considerations
• Galvanized trays: Hot-dip galvanized trays are pre-fabricated and often bolted together on-site to avoid damaging the protective zinc coating .

• Wire-mesh trays: These may be welded in the factory but are typically mounted using brackets and fasteners in the field .

• Compliance: Installations must adhere to local electrical safety standards, including the Electricity Act and technical rules in Namibia .
Summary

While electric welding is used in the manufacturing of certain cable trays in Namibia, particularly wire-mesh and steel trays, on-site installation for network cable trays generally relies on mechanical fastening methods. This approach ensures safety, flexibility, and protection of corrosion-resistant coatings, aligning with both industry best practices and local regulations .

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