

Article Overview

Air duct cable trays in Sri Lanka are installed using durable, corrosion-resistant trays from local manufacturers like Bianco, PRISMA, and CEYLEKTRA, ensuring safe and efficient support for HVAC and electrical systems.

Overview of Cable Trays for Air Ducts

Cable trays are essential for supporting and routing electrical and control cables associated with HVAC systems. In Sri Lanka, cable trays are available in mild steel, stainless steel, aluminum, and powder-coated finishes, providing corrosion resistance and mechanical strength suitable for both indoor and outdoor installations (Bianco, PRISMA, CEYLEKTRA). They allow organized cable management, easy maintenance, and reduce the risk of damage to cables during installation or operation.

Types of Cable Trays

- o Ladder Trays: Ideal for heavy-duty cables and long spans, providing excellent ventilation and heat dissipation.
- o Solid Bottom Trays: Suitable for sensitive cables requiring protection from dust or debris.
- o Slotted Trays: Allow flexible attachment of accessories and easy cable routing adjustments.

Installation Considerations

- o Material Selection: Choose trays based on environmental conditions. Hot-dip galvanized or powder-coated trays are preferred for corrosion resistance in humid or industrial environments.
- o Support and Spacing: Trays must be supported at regular intervals using brackets, hangers, or threaded rods. Typical spacing depends on tray type and cable load but generally ranges from 1.5 to 3 meters.
- o Integration with Air Ducts: Ensure trays are installed parallel or adjacent to air ducts without obstructing airflow. Maintain adequate clearance for duct vibration and thermal expansion.
- o Load Capacity: Verify that the tray can support the weight of cables and any additional accessories. Manufacturers like Bianco and PRISMA provide load ratings for their trays.
- o Compliance: Use trays that meet EN 61537 standards for cable management systems, ensuring durability and safety.

Local Suppliers in Sri Lanka

- o Bianco: Offers a wide range of cable trays and ladders in steel, stainless steel, and aluminum, suitable for industrial and commercial applications.
- o PRISMA: Provides tested cable management systems with standard accessories, powder-coated finishes, and

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customizable options for professional installations .

- o CEYLEKTRA: Known for hot-dip galvanized and powder-coated trays, ensuring long-term corrosion resistance and compliance with international standards .
- o Ceylon Air Duct Pvt Ltd: While primarily an HVAC duct manufacturer, they provide integration solutions for duct and cable management systems .

Best Practices

- o Plan the routing layout to minimize bends and intersections with other services.
- o Ensure proper grounding and bonding of metallic trays to prevent electrical hazards.
- o Use accessories like bends, tees, and reducers to maintain continuous support and neat cable organization.
- o Regularly inspect trays for corrosion, loose fasteners, or cable sagging to maintain system reliability. By selecting high-quality trays from trusted Sri Lankan manufacturers and following proper installation practices, air duct cable trays can provide safe, durable, and efficient support for HVAC and electrical systems in commercial and industrial projects.

Ducts or Plenums for Environmental Air. The section states that Type MI (Mineral Insulated) cable or Type MC (Metal Clad) cable

They not only guard against damage to and accidental contact with cables but also help to isolate cables

PRISMA Offers Total Solution on Cable Management Products PRISMA Cable Management product range is consists of Cable

Looking for cable tray manufacturers in Sri Lanka? Discover the top companies like Bianco, C&D Electrical, Magline,

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

Method E E - Multicore cable in free-air This method applies to cables installed on cable ladder, perforated cable tray or cleats

We provide a variety of cable trays and accessories, including electro galvanized, hot dip galvanized, steel, aluzinc, and aluminum

PRISMA is a high quality, tested cable management system with wide range of standard accessories. It's a user friendly Cable

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Cable Tray vs Air Duct: Learn key differences in function, types, cost & installation for UK M&E projects. Comply with

This document provides a method statement for installing cable trays and laying DC/AC cables for the 1.2MW Al Dahra PV project. It

Learn the best practices for installing cables in trays. This guide covers essential steps,

If you are searching for a well reputed Cable Trays Manufacturers in Sri Lanka, despite being based in

Please contact us for more detailed information about installation. #cabletray #installation

They offer easy access for cable installation and maintenance, making them suitable for both power and data cables. These cable

The ducts, in turn, provide protection of cables from external influences, but at the same time worsen the conditions

Ceylon Air Duct Pvt Ltd is a Sri Lanka-based manufacturer and supplier of high-quality air duct systems,

Web: <https://www.morwarreconst.co.za>

