Cable trays used on the roof

Overview

PHP''s cable tray support system is engineered to sustain various sizes of cable runs on your rooftop. PHP is the leader in cable tray support systems.

Key Takeaways

Rooftop cable trays require specialized support systems to ensure safe, stable, and accessible management of electrical cables.

Purpose of Rooftop Cable Trays

Cable trays on rooftops are designed to organize and support electrical cables for power, communication, or control systems. Unlike traditional conduit systems, cable trays allow for easy access, proper ventilation, and reduced moisture trapping, which helps prevent cable damage and facilitates maintenance. They are particularly important for commercial or industrial buildings with extensive cabling needs.

Types of Supports

Rooftop cable trays rely on engineered support systems to maintain stability and protect both the cables and the roof: Roof Blocks: These provide a stable foundation, distributing the weight of cable trays evenly to prevent localized stress and roof damage. They are often made from durable materials like recycled crumb rubber, which withstands environmental factors such as wind, rain, and temperature changes. Adjustable Supports: Systems like PHP or Roof-Pro supports include legs, bases, and open-channel beams that can be leveled and spaced according to design specifications.

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They can accommodate different tray widths and heights, and some allow multiple services (cables, ducts, pipes) to be combined in one support. Custom Designs: Companies like Walraven offer tailored solutions for specific rooftop layouts, ensuring that supports fit around walkways, equipment, and other obstacles while maintaining proper cable spacing and ventilation.

Installation Considerations

Proper installation is critical for safety and longevity: Weight Distribution: Ensure the weight of the cable trays is evenly distributed across supports to prevent sagging or roof damage. Bracing: Horizontal and vertical bracing may be required for larger or heavier cable runs to maintain stability.

Non-

Penetrative Options: Many supports are designed to avoid roof penetration, reducing the risk of leaks and structural damage. Safety: Rooftop installations must consider fall protection, electrical safety, and environmental exposure. Properly designed supports reduce the risk of accidents and cable damage.

Maintenance and Durability

Rooftop cable tray systems are exposed to weather, UV radiation, and temperature fluctuations, so materials must be durable and corrosion-resistant. Regular inspections ensure that supports remain level, bolts are secure, and cables are not stressed or damaged.

Summary

Using engineered rooftop cable tray supports ensures that electrical systems are safe, accessible, and long-lasting. Selecting the right type of support—roof blocks, adjustable supports, or custom solutions—depends on cable volume, roof layout, and environmental conditions. Proper installation and maintenance are essential to protect both the cables and the roof structure.

Article Content

Rooftop Cable Tray Support System

PHP''s cable tray support system is engineered to sustain various sizes of cable runs on your rooftop. PHP is the leader in cable tray support systems.

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What is a rooftop cable tray? Cable tray support systems are structures designed to uphold electrical cable runs on flat or sloped roofs. Traditionally, facilities have chosen to bundle

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