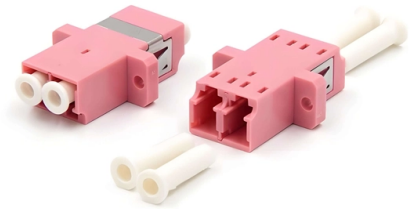
Distribution Box Foundation Base



Overview

Elsta Mosdorfer | Elsta MosdorferThe base products from ELSTA Mosdorfer are the perfect foundation for the installation of freestanding distribution cabine.

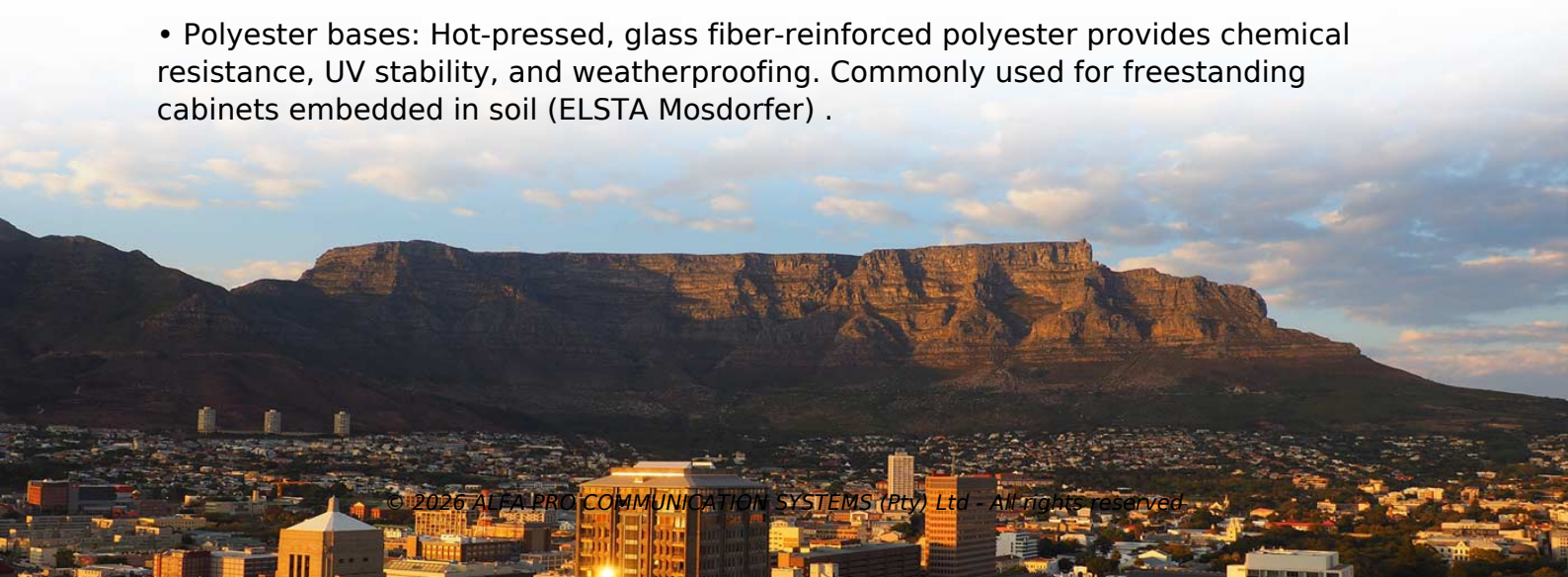
Key Takeaways

A distribution box foundation base provides a stable, secure platform for freestanding or embedded electrical distribution cabinets, ensuring proper load support, environmental protection, and operational reliability.Purpose and Function

The foundation base serves as the primary support for distribution boxes, holding the weight of the cabinet and cables while maintaining stability under environmental and mechanical loads. It ensures proper alignment, prevents tilting, and protects the box from moisture, temperature fluctuations, and soil movement. For outdoor installations, the base also helps minimize condensation and protects against corrosion and UV exposure (ELSTA Mosdorfer) .

Material Selection
• Metal bases: Typically made of cold-rolled steel, offering high strength, durability, and IP55–IP65 protection against dust and water. Suitable for both indoor and outdoor use, especially in industrial or harsh environments (JXF, Toonice) .

• Polyester bases: Hot-pressed, glass fiber-reinforced polyester provides chemical resistance, UV stability, and weatherproofing. Commonly used for freestanding cabinets embedded in soil (ELSTA Mosdorfer) .



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• Plastic bases: Suitable for indoor, dry environments where mechanical loads are minimal (Zoliov) .

Installation Methods

• Embedded in soil: The base is buried to a defined depth (e.g., 600–850 mm) with sand and base filler to reduce moisture and condensation. The cabinet forms a stable unit with the base, and a predetermined breaking point prevents excavation damage in case of accidents (ELSTA Mosdorfer) .

• Bolted to a concrete foundation: For ground-mounted cabinets, the base is secured to a prepared concrete slab to ensure stability and prevent movement (ELSTA Mosdorfer) .

Design Considerations

• Dimensions: The base must match the cabinet size and allow space for cable entry, insulation, and safe connections. Incorrect sizing can compromise support and insulation (Zoliov) .

• Load and environment: Consider pedestrian or vehicular loads, soil type, moisture, and temperature changes. Heavy loads require stronger materials and proper embedding or bolting.

• Condensation control: Use hydrophobic or expanded clay fillers to reduce moisture rising from the soil, especially for outdoor cabinets (ELSTA Mosdorfer) .

• Accessibility: Ensure the base allows for maintenance, cable routing, and future upgrades without compromising stability.

Summary

A well-designed distribution box foundation base ensures mechanical stability, environmental protection, and operational reliability. Selection of material, installation method, and proper sizing are critical for both indoor and outdoor applications. Metal bases provide strength and durability, polyester bases offer chemical and UV resistance, and plastic bases are suitable for light indoor use. Proper embedding, bolting, and condensation control enhance the longevity and safety of the distribution system.

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