Specifications of electrical distribution boxes for construction sites in the Netherlands



Overview

Bos meter and distribution cabinets are extensively tested under full load in accordance with the European standard EN 61439-4. This standard ensures safe electrical installations at construction sites.

Key Takeaways

Construction site distribution boxes in the Netherlands are typically robust, IP44–IP65 rated, compliant with NEN-60439 and NEN-1010 standards, and available in various pre-wired or customizable configurations.

Housing and Protection

Construction site distribution boxes are designed for harsh environments, featuring impact-resistant, oil-, UV-, and acid-resistant housings made from rubber, steel, or technopolymer. They are double insulated and often include transparent covers to protect circuit breakers and ground fault interrupters. Standard protection ratings range from IP44 for general outdoor use to IP65 for higher water and dust resistance.

Standards and Compliance

Boxes are certified according to NEN-60439-1/4, NEN-1010, and EN 61439-4, ensuring safety and reliability for temporary electrical distribution.

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E approval is standard, and some models are compatible with ENERGY PRO or GWENERGY software for configuration and certification.

Electrical Features

Sockets: MENNEKES, CEE, or IEC type, often interlocked and available in 16A to 63A ratings. Circuit Protection: Integrated MCBs, fuses, and residual current devices (RCDs) for overload and fault protection. Emergency Features: Many boxes include emergency stop buttons and key-locked doors for safety.

Cabling: Pre-wired with H07RN-F cables, typically 5 meters, with options for through-wiring to additional boxes.

Dimensions and Configurations

Distribution boxes come in various sizes and module capacities: Small portable boxes: Typically wall-mounted or on a support, suitable for light tools and temporary lighting. Medium boards: Can include up to 12 interlocked socket outlets or switch-only panels up to 60 modules. Large boards: Designed for bigger sites, supporting multiple high-current circuits and floodlights, often with strain-resistant cable hooks and carrying handles.

Exact dimensions vary by manufacturer and configuration, but boxes are designed for mobility and ease of installation, with some models featuring lockable doors and powder-coated steel frames for durability.

Mobility and Installation

Portable options: Lightweight technopolymer or rubber housings for easy transport. Fixed options: Wall-mounted or support-mounted for semi-permanent site installations. Connector systems: gesis® MINI, gesis® CLASSIC, and RST® systems allow flexible, safe, and fast connections.

Summary

For construction sites in the Netherlands, electrical distribution boxes are robust, compliant, and versatile, offering a range of IP protection levels, socket types, and safety features. Selection depends on site size, required current, environmental exposure, and mobility needs. Pre-wired or customizable options allow adaptation to specific site requirements while ensuring compliance with Dutch and European electrical standards.

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