

# RIVO MULTITRADE OPTICAL SYSTEMS

## Area of construction site electrical distribution box



### Overview

On a construction site, temporary power supply determines the safety of the entire team and the continuity of work.

### Key Takeaways

Construction site distribution boxes should be installed in dry, ventilated areas with sufficient space for two workers, typically 1.5–1.8 meters above ground, and with clear access for operation and maintenance.

#### Placement and Height

Distribution boxes on construction sites should be installed in dry, well-ventilated areas away from moisture, corrosive substances, heat sources, and areas prone to impact or vibration ( ). The bottom edge of the box is typically 1.5 to 1.8 meters above the ground, which allows convenient operation and inspection ( ). Boxes should be mounted securely using brackets or screws to prevent movement or tilting due to vibration or accidental collision ( ).

#### Spacing and Accessibility

- Main distribution box should be located close to the power supply.
- Secondary distribution boxes should be installed near concentrated electrical loads, with the distance between the main and secondary boxes not exceeding 30 meters ( ).

- Switch boxes should be within 3 meters of the equipment they control ( ).
- There should be enough space around the boxes for two people to work simultaneously, and no items should obstruct access or maintenance ( ).

#### Environmental Considerations

- Avoid areas with gas, flue gas, steam, liquids, or other harmful media.
- Do not install boxes in locations exposed to direct heat, water splashes, or excessive dust ( ).
- Ensure proper ventilation to prevent overheating ( ).

#### Construction and Safety Standards

- Boxes should be made of iron plate (>1.5mm) or high-quality insulating material ( ).
- Internal wiring must use insulated wires, with no exposed live parts, and protective neutral connections should be properly installed ( ).
- Power and lighting circuits should be separated if combined in the same box ( ).
- Grounding and installation of leakage protectors are required for safety ( ).

#### Summary

For safe and compliant construction site electrical distribution, ensure secure mounting, proper height (1.5–1.8m), clear access, adequate spacing between boxes, and installation in dry, ventilated areas. Follow local electrical codes and standards for wiring, grounding, and protective devices to minimize hazards and facilitate maintenance ( ).

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This section contains specifications to assist customers in designing self-generating and energy storage systems intended to operate

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The panels are made in a sturdy and handy two-component technopolymer cabinet with a fire-resistant backrest, which allows them

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