

Spacing between distribution box and equipment



Article Overview

Maintain a minimum of 3 feet front clearance, 30 inches side clearance, and 6½ feet height clearance for safe access to distribution boxes and electrical equipment.

General Working Space Requirements

For safe operation, maintenance, and inspection, electrical equipment including distribution boxes should have adequate working space:

- Front Clearance: At least 3 feet in front of the equipment to allow doors to open 90° and provide safe access for personnel .
- Side Clearance: Minimum 30 inches from the sides of the equipment, or at least the width of the equipment itself, to allow safe side access .
- Height Clearance: Minimum 6½ feet or the height of the equipment, whichever is greater, to ensure headroom and safe movement . These clearances are often summarized as the 36x30x78 inches rule for commercial and industrial installations .

Distribution Block and Terminal Block Spacing

When using power distribution blocks (PDBs) or terminal blocks:

- Air Clearance: 1 inch through air and 2 inches over surfaces at 600V for feeder circuits .
- UL Standards Compliance: Ensure blocks meet UL1953 (PDB) or UL1059 (terminal...

Article Content

Feb 20, 2026

Spaces About Electrical Equipment | UpCodes

Access and working space around electrical equipment must be maintained for safe operation and maintenance. Specific dimensions

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Spacing Requirements for Power Distribution and Terminal Blocks

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Spacing Requirements for Power Distribution and Terminal Blocks

UL508A contains two important requirements to consider when applying power distribution blocks. Spacing of 1" through air, 2" over

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Spacing Requirements for Power Distribution and Terminal Blocks

Power Distribution blocks are evaluated to UL1953, the Power Distribution Block standard and are listed for general installation,

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Electrical equipment floor space

This paper will review some of the NEC requirements regarding required electrical space and discuss new product concepts serving

Dec 18, 2025

What is the minimum clearance required around electrical panels ...

Electrical panel clearance refers to the minimum working space that must be kept clear in front of and around electrical panels,

Sep 08, 2025

Spacing between electrical panel | Information by Electrical ...

This allows an individual to have at least shoulder-width space in front of the equipment. This 30-in. measurement

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Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

Jun 29, 2026

Minimum Spacings

The table provides detailed measurements for various voltage levels, indicating the necessary spacings for opposite polarities and

Apr 09, 2026

NEC Requirements for Panelboards and Load Centers

NEC Requirements for Electric Main Panelboards and Working Space Depth and Mounting Height. Width, Depth and Height for

Jul 31, 2025

Distribution Box Guide: Types, Components & Solutions

In conclusion, a distribution box (DB) is vital for managing and distributing electricity safely and efficiently in homes,

Jan 25, 2026

Requirements for working clearances and spaces around electrical ...

Suitable enclosures or guards must be provided to prevent damage to this equipment. In addition, enclosed please

Sep 07, 2025

Key Points Of Installation And Collocation Of Distribution Box In ...

Distribution box and switch box shall be made of iron plate or high-quality insulating material, and the thickness of iron plate shall be

Jan 09, 2026

Safety Clearance for Indoor & Outdoor Power Distribution Equipment

In the substation layout, the safety clearance between distribution devices refers to the minimum distance maintained

Mar 06, 2026

2-9-* Working space around electrical equipment

Minimum working space around electrical equipment Rule 2-310 requires the minimum working space around electrical equipment to

Mar 03, 2026

NEC Working Clearance Requirements: A Visual Guide (110.26)

A visual guide to NEC 110.26 working space requirements. Understand the required depth, width, and height clearances for panels,

Dec 15, 2025

Requirements And Specifications For Installation Of Distribution Boxes ...

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof

Jan 03, 2026

Guidelines for SPD Layout of Building Distribution Boxes

The right spd layout keeps people and equipment safe from surge protection dangers. Every building needs a careful

Dec 09, 2025

Clearance and creepage_UL-60950_IEC-60950_28_09_17

AC MAINS SUPPLY: a. power distribution system external to the equipment for supplying power to a.c. powered equipment These

Jun 02, 2026

NEC Requirements for Panelboards and Load Centers

In case of damp or wet locations, there be at least a 6 mm (1/4 inches) air space between the wall and a surface mounted enclosure

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LV/MV power substation equipment and wiring requirements | EEP

Figure 1 is an example layout. This layout is suitable for a main 11 kV substation, also supplying local low-voltage

May 17, 2026

Safe Clearances for Electrical Equipment: Working

Note that sufficient working space is relative to the clear space in front, between, and above electrical

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Plant Layout, Spacing and Clearances for Equipment Piping Routing

Plant layout, spacing, and clearances for equipment piping routing encompass the strategic arrangement of industrial facilities,

May 06, 2026

Electrical Panel & Equipment Working Space

Electrical panel clearance distances are given by the U.S. NEC specifying working distance. Details are given here. This electrical

Oct 26, 2025

DB BOX(Electrical Distribution Box): Everything You Need to Know

Learn everything you need to know about the Electrical Distribution Box (DB Box). Explore types, materials, installation

Aug 19, 2025

Electrical Equipment Working Space Requirements

A minimum working space 30 inches wide must be provided in front of electrical equipment rated at 600 V or less and is likely to

Jan 04, 2026

Spacing of electrical equipment in a substation

All, I am probably missing the obvious, but what document(s) are used to determine the horizontal clearances

May 14, 2026

Electrical equipment floor space

Engineers are often looking for innovative ways to provide the appropriate power distribution equipment while NEC's requirement for

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Spacing Requirements for Power Distribution and Terminal Blocks

Spacing Requirements for Power Distribution and Terminal Blocks New requirements in the 2005 NEC® for a marked short-circuit

Oct 30, 2025

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For equipment to be supplied from an AC MAINS SUPPLY, the value of the MAINS TRANSIENT VOLTAGE depends on the

May 24, 2026

Microsoft Word

SCOPE Wherever explosion or fire hazard exist, proper plant layout and adequate spacing between hazards are essential to loss

Oct 12, 2025

2-9-* Working space around electrical equipment

Rule 2-310 requires the minimum working space around electrical equipment to be based on the Equipment Nameplate Rating rather

Jun 16, 2026

Safety Clearance Recommendations for Electrical Panel

Clearance Tables includes working space and clearance around indoor electrical panel, Circuit Board (NES 312.2),

Jul 17, 2026

Busbar Distance Calculation : Electrical Engineering Hub

This article explains the principles behind busbar distance calculation, covering formulas, factors affecting spacing,

Contact Us

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