

Comparison of floor space occupied by 1000V outdoor cabinets

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Generated on: 2026-04-05 22:22:58

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How wide should a working space be in front of electrical equipment?

Article 110.26(A)(2)--Specifies that the width of the working space in front of the electrical equipment shall be the width of the equipment or 30 inches(762 mm),whichever is greater. The goal is to prevent a worker from being unduly crowded when testing or maintaining equipment. The width of the working space is a factor regarding worker safety.

How much floor space does a MCC save?

The actual equipment floor space occupied by this advanced design is 8.75 ft² (0.81 m²),resulting in a savings of 5.83 ft²(0.54 m²) of floor space over a conventional design. Additionally,approximately 10 ft² (0.903 m²) of working space in front of the equipment will be saved over that required for the conventional MCC.

What is the minimum depth of clear working space for electrical equipment?

Condition 3: Both sides of the working space have exposed live parts. Requires 5 - 12 ft. depending on voltage from 1001 V to above 75 kV. The minimum depth of clear working space for electrical equipment for each of the 3 conditions is stated in NEC Table 110.34.

What are the requirements for a working space in front of an enclosure?

The space in front of the enclosure shall comply with the depth requirements of Table 110.26(A)(1). The maximum height of the working space shall be the height necessary to install the equipment in the limited space. A horizontal ceiling structural member or access panel shall be permitted in this space.

I have recently been doing plan reviews of electrical equipment and installations operating at over 1,000V and find myself having to dust off my knowledge base for these requirements.

Where switches, cutouts, or other equipment operating at 1000 volts, nominal, or less are installed in a vault, room, or enclosure where there are exposed live parts or exposed wiring operating ...

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