

# Grounding requirements for construction site electrical distribution boxes



## Overview

The Occupational Safety and Health Administration's (OSHA) electrical standard for construction, title 29 Code of Federal Regulations Part 1926, Subpart K, contains the requirements for ground fault circuit interrupters (GFCIs) and for assured equipment grounding . The Occupational Safety and Health Administration's (OSHA) electrical standard for construction, title 29 Code of Federal Regulations Part 1926, Subpart K, contains the requirements for ground fault circuit interrupters (GFCIs) and for assured equipment grounding . Learn what OSHA requires for electrical grounding in general industry and construction, and what violations can cost you. OSHA's grounding requirements are spelled out primarily in two sets of regulations: 29 CFR 1910 Subpart S for general industry workplaces, and 29 CFR 1926 Subpart K for. Metal raceways, cable armor, and other metal enclosures for conductors shall be metallicity joined together into a continuous electric conductor and shall be so connected to all boxes, fittings, and cabinets as to provide effective electrical continuity. No wiring systems of any. If you're working with electrical systems, you know that grounding isn't just some bureaucratic requirement—it's literally the difference between a safe, functional system and a potential disaster. Installation safety requirements. work requires electrical power for many purposes. However, exposure to weather, frequent relocation, rough use and other conditions not normally encountered with conventional wiring systems necessitate special consideration not require in other applications or in completed structures. Pay careful attention to the definitions that apply to grounding and bonding both here and in Article 100 as you begin th.

## Article Content

Nov 15, 2025

### GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

Connect the conductor from the panel ground bus or connector at the source to all items to which the conduits or raceways connect. Bond to a ground lug within each panel, box or equipment.

Nov 02, 2025

### OSHA Grounding Requirements: Rules and Penalties

Learn what OSHA requires for electrical grounding in general industry and construction, and what violations can cost you.

Jul 26, 2025

### Ground-Fault Protection on Construction Sites

The employer shall establish and implement an assured equipment grounding conductor program on construction sites covering all cord sets, receptacles which are not a part of the building or structure, ...

Oct 18, 2025

### Chapter 6 Electrical Connections

The green colored insulated conductor of the feeder must be connected to the grounding bar inside the main electrical distribution panel and to the grounding bus inside the service entrance equipment ...

Nov 23, 2025

### Temporary electrical wiring for construction sites

All 120-volt, single-phase, 15- and 20-ampere receptacles shall be of the grounding type and their contacts shall be grounded by connection to the equipment grounding conductor of the circuit ...

Aug 04, 2025

1926.405

Unless installed in a complete metallic raceway, each branch circuit shall contain a separate equipment grounding conductor, and all receptacles shall be electrically connected to the grounding conductor.

Feb 26, 2026

### ARTICLE 250 GROUNDING AND BONDING

Metal parts of electrical raceways, cables, enclosures, or equipment must be bonded together in a manner that creates a low-impedance path for ground-fault current to facilitate the operation of the ...

Sep 13, 2025

eCFR :: 29 CFR Part 1926 Subpart K -

The employer shall use either ground fault circuit interrupters as specified in paragraph (b) (1) (ii) of this section or an assured equipment grounding conductor program as specified in paragraph (b) (1) (iii) ...

Oct 31, 2025

## DUKE UNIVERSITY CONSTRUCTION STANDARDS 1

Grounding bus bars mounted exterior to electrical distribution equipment shall be provided with insulated standoffs. All service entrances shall be solidly grounded using a grounding electrode system ...

Nov 19, 2025

Grounding System Installation Standards for Distribution Boxes and ...

Whether you're a seasoned pro or just starting out, this comprehensive guide will give you practical insights into proper grounding techniques, with a special focus on how selecting quality materials ...

## Contact Us

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