



A M E R I C A N L E D
T E C H N O L O G Y

GROUNDING REQUIREMENTS FOR LED SIGNS

American LED Technology requires all of its outdoor signs to be grounded in accordance with NEC guidelines and local applicable electric codes

If you are installing a freestanding sign that is supplied by a remote service disconnect (or if it's considered a separate structure), The NEC requires you to establish a grounding electrode system. The NEC grounding rod requirements include:

1. The Grounding Rod (NEC 250.52)

Dimensions: Rods must be at least 8 feet in length in contact with the earth.

Material: Must be made of copper-clad steel, galvanized steel, or stainless steel.

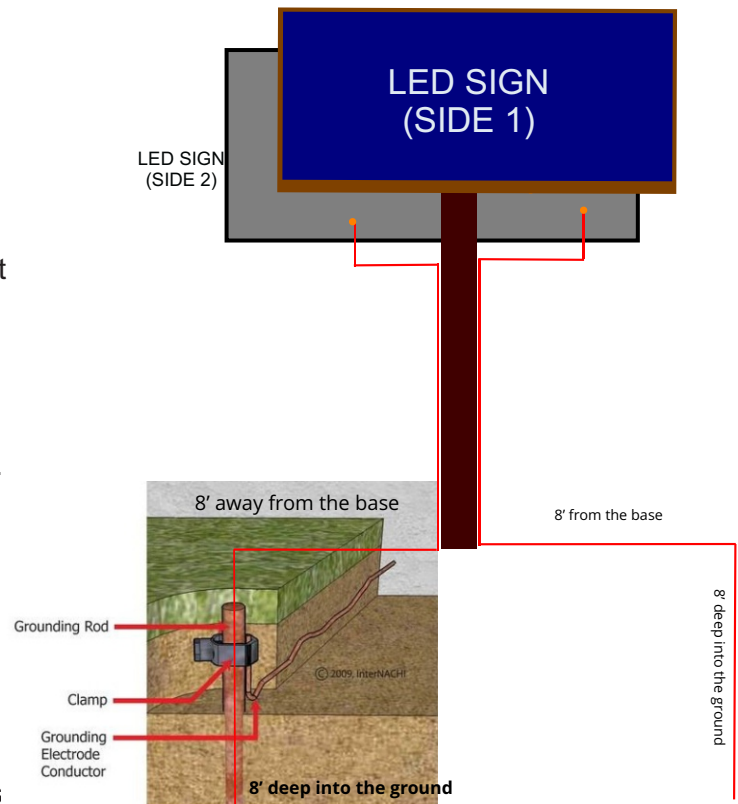
Diameter: Must be at least 5/8 inch in diameter unless listed.

Installation: Rod must be driven straight down into the earth. If you hit rock bottom, it may be driven at an oblique angle (not to exceed 45 degrees) or buried horizontally in a trench at least 2.5 feet deep.

2. Resistance Requirements (NEC 250.56) A single ground rod must have an earth resistance of 25 ohms or less. If the single rod fails to meet this threshold, you must drive and bond an additional supplemental grounding electrode at least 6 feet away from the first.

In most cases for standard branch circuits, an insulated copper conductor between 6 AWG and 4 AWG is required, depending on the size of the ungrounded supply conductors.

GROUNDING DIAGRAM



This information is for reference only.

CONSULT A CERTIFIED ELECTRICIAN. FOLLOW NATIONAL ELECTRIC CODE (NEC) ARTICLES 600 AND 250.
FOLLOW LOCAL ELECTRIC CODES AS APPLICABLE.

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