

nVent ERICO Quickfill No-Mix Ground-Enhancing Backfill

Resistivity $\leq 25 \text{ Ohm-cm}^*$

Trench Installation

1. Dig trench to desired size.
2. Pour nVent ERICO Quickfill uniformly into the trench to one-half of the Total Thickness of Quickfill, $1/2 h$. (see Table 1)
3. Place conductor on top of Quickfill. (see Note 1)
4. Pour Quickfill on top of conductor to the Total Thickness of Quickfill, h . (see Table 1)
5. Carefully cover the Quickfill with soil to a depth of about 4 inches (10 cm), making sure not to expose the conductor.
6. Tamp down the soil. Then fill in the trench.

Note 1: You must apply 4 in (10 cm) of insulating material to the conductors and ground rods exiting the Quickfill, starting 2 in (5 cm) inside the Quickfill. (See Figure 1)

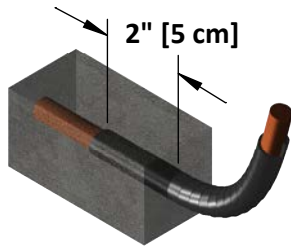


Figure 1

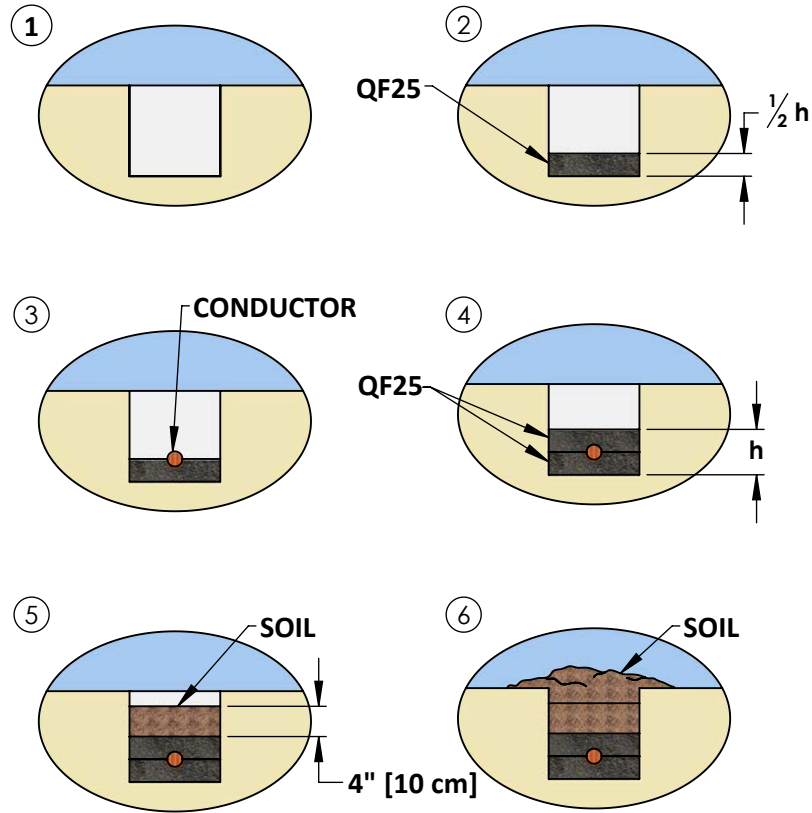


Table 1: Estimated length of trench that one bag of Quickfill will fill given various widths and depths.

Trench Width	Total Thickness of Quickfill					
	4 in (10 cm)		5 in (13 cm)		6 inches (15 cm)	
4 in (10 cm)	3.6 ft	(1.1 m)	2.9 ft	(0.88 m)	2.4 ft	(0.73 m)
6 in (15 cm)	2.4 ft	(0.73 m)	1.9 ft	(0.58 m)	1.6 ft	(0.49 m)
8 in (20 cm)	1.8 ft	(0.55 m)	1.4 ft	(0.43 m)	1.2 ft	(0.37 m)
10 in (25 cm)	1.4 ft	(0.43 m)	1.1 ft	(0.34 m)	0.9 ft	(0.27 m)
12 in (30 cm)	1.2 ft	(0.37 m)	0.9 ft	(0.27 m)	0.8 ft	(0.24 m)

E.g. a 25 lb. bag of Quickfill will cover 3.6 linear ft (1.1 m) of conductor length for a 4 in (10 cm) wide, 4 in (10 cm) thick covering (2 in [5 cm] below conductor, and 2 in [5 cm] above conductor).

Density: 62 lb/ft^3 (993 kg/m^3)

*Dry ground enhancement materials are more sensitive to seasonal variability than cement-based materials.

WARNING:

1. nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at www.nVent.com and from your nVent customer service representative.
2. nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

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Ground Rod Backfill Installation

1. Auger a 3 in (7.5 cm) or larger diameter hole to a depth of 6 in (15 cm) shorter than the length of the ground rod.
2. Place ground rod into augered hole and drive 1 ft (30 cm), if possible, into the bottom of the hole. The top of the ground rod will be approximately 6 in (15 cm) below grade. At this time, make any connections to ground rod using nVent ERICO Cadweld connections. (See Note 1)
3. Pour the appropriate amount of Quickfill (Table 2) around the ground rod. Ground rod must be completely encased in Quickfill and not exposed to native soil.
4. Fill remainder of augered hole with soil removed during augering. For various augered-hole diameters and depths, see Table 2.

Note 1: You must apply 4 in (10 cm) of insulating material to the conductors and ground rods exiting the Quickfill, starting 2 in (5 cm) inside the Quickfill. (See Figure 2)

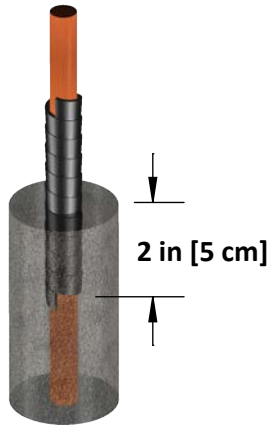


Figure 2

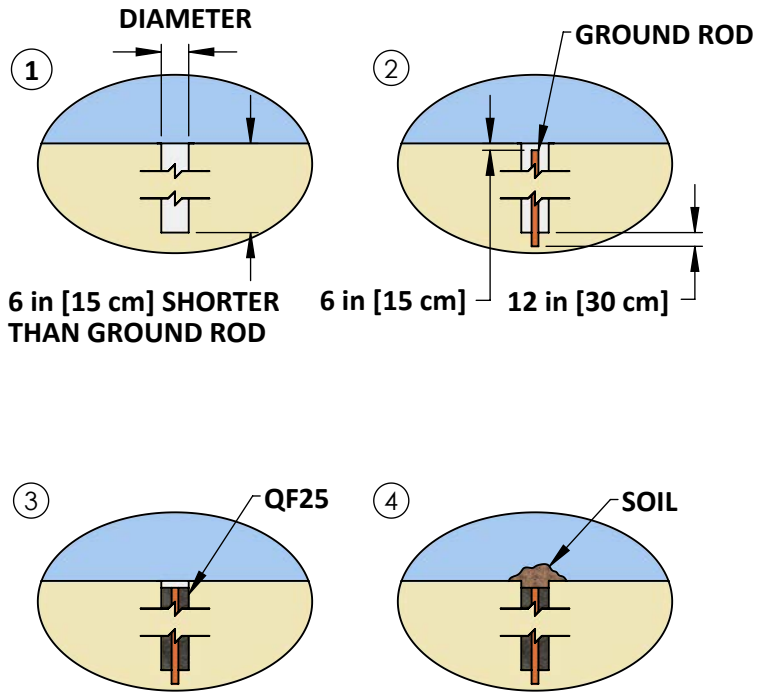


Table 2: Estimated bags of Quickfill for backfilling around ground rods.

Diameter	Depth*					
	5 ft (1.5 m)	6 ft (1.8 m)	8 ft (2.4 m)	10 ft (3.0 m)	15 ft (4.6 m)	20 ft (6.1 m)
4 in (10 cm)	1.1 bags	1.3 bags	1.8 bags	2.2 bags	3.3 bags	4.4 bags
6 in (15 cm)	2.5 bags	3 bags	3.9 bags	4.9 bags	7.4 bags	9.8 bags
8 in (20 cm)	4.4 bags	5.2 bags	7 bags	8.7 bags	13 bags	17.4 bags
10 in (25 cm)	6.8 bags	8.2 bags	10.9 bags	13.6 bags	20.3 bags	27.1 bags
12 in (30 cm)	9.8 bags	11.7 bags	15.6 bags	19.5 bags	29.3 bags	39 bags

E.g. 1.1 25 lb. bags of Quickfill will fill a 4 in (10 cm) diameter, 5 ft (1.5 m) deep hole.

Density: 62 lb/ft³ (993 kg/m³)

* 8-ft (2.44m) minimum rod length required to be in contact with the soil (or Quickfill), per NEC 250-83-C.

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