



Designation: F567 – 11

Standard Practice for Installation of Chain-Link Fence¹

This standard is issued under the fixed designation F567; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the installation procedure for chain-link fence.

1.2 This practice is intended primarily to guide those responsible for or concerned with the installation of chain-link fence.

1.3 This practice does not intend to preclude any practice that has proven equal to or given better performance under varying conditions, that is, location, weather, intended use, materials, etc.

1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.5 *This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* For specific precautionary statements, see Section 13.

2. Referenced Documents

2.1 *ASTM Standards:*²

F626 Specification for Fence Fittings

F654 Specification for Residential Chain Link Fence Gates

F900 Specification for Industrial and Commercial Swing Gates

F1184 Specification for Industrial and Commercial Horizontal Slide Gates

3. Site Preparation

3.1 The purchaser shall indicate the location of fence lines, gates, and terminal posts with suitable stakes. Stake intervals shall not exceed 500 ft (152.5 m) or line of sight.

¹ This practice is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.40 on Chain Link Fence and Wire Accessories.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

3.2 All underground utility locations, USC&G benchmarks, property monuments, and other underground structures shall be indicated by the purchaser.

3.3 Before installing chain-link fence, all necessary site clearing and grading shall be performed by the purchaser. Adequate clearance on both sides of the fence line is required.

4. Post Location

4.1 Space line posts equidistant at intervals not exceeding 10 ft (3.05 m). Measure the interval parallel to the grade of the proposed fence and in the line of fence from center to center of the post.

4.2 Set terminal posts (end, corner, and gate) at the beginning and end of each continuous length of fence and at abrupt changes in vertical and horizontal alignments.

5. Post Setting

5.1 Set posts in concrete in holes of diameter and depth as follows. Intended use and local conditions shall determine post footing dimensions; that is, under normal conditions the diameter shall be four times the largest cross section of the post up to a 4 in. (101.5 mm) outside diameter and three times for larger outside diameters. The depth shall be a minimum of 24 in. (609.6 mm) plus an additional 3 in. (76.2 mm) for each 1-ft (305-mm) increase in the fence height over 4 ft (1.22 m) to a maximum total of 60 in. (1525 mm) for a fence height up to 20 ft. (6.10 m).

5.2 Dig or drill holes in the line of the fence in accordance with 5.1. Forms are not necessary.

5.3 Set posts in a vertical position, plumb and in line. Backfill concrete (2500 psi) (17.2 MPa) into the excavation and extend 2 in. (50 mm) above grade. An alternative method is to stop footing 6 in. (152.4 mm) below grade to allow for cover with sod, black top, or other materials if the footings are not in an area subject to cathodic protection. In either case, crown the concrete at its top to shed water and slope a minimum of 2 in. (50.8 mm) away from the post.

5.4 The use of mechanical devices for the setting of fence posts is acceptable under this practice, provided the mechanical strength in the ground is equal or superior to the strength developed by the concrete footing as recommended.

5.5 When solid rock or concrete is encountered, without an overburden of soil, set posts in the solid rock or concrete. The depth of the hole shall be three times the largest cross section