



Designation: ~~F969-07~~ Designation: F969 - 11

Standard Practice for Construction of Chain-Link Tennis Court Fence¹

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1. Scope

1.1 This practice covers fencing around tennis courts, built from various types of chain-link fabric and framework materials, and installation practices for same.

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1.2 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.

1.3 *This standard does not purport to address all of the safety concerns, 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.*

2. Referenced Documents

2.1 ASTM Standards:²

A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric

A491 Specification for Aluminum-Coated Steel Chain-Link Fence Fabric

A824 Specification for Metallic-Coated Steel Marcellled Tension Wire for Use With Chain Link Fence

F552 Terminology Relating to Chain Link Fencing

F567 Practice for Installation of Chain-Link Fence

F626 Specification for Fence Fittings

F668 Specification for Polyvinyl Chloride (PVC), Polyolefin and Other Polymer-Coated Steel Chain Link Fence Fabric

F900 Specification for Industrial and Commercial Swing Gates

F934 Specification for Colors for Polymer-Coated Chain Link Fence Materials

F1043 Specification for Strength and Protective Coatings on Steel Industrial Fence Framework

F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

F1345 Specification for Zinc-5 % Aluminum-Mischmetal Alloy-Coated Steel Chain-Link Fence Fabric

F1664 Specification for Poly(Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Tension Wire Used with Chain-Link Fence

2.2 ~~Other Standards:~~ Chain Link Fence Manufacturers Institute:

WLG 2445 ~~Guide for the Selection of Line Posts and their Spacing~~ Chain Link Fence Wind Load Guide for the Selection of Line Post and Line Post Spacing³

3. Terminology

3.1 Definitions—See Definitions

3.1 *Definitions*—See Definitions F552 for definitions of terms used in this practice.

4. Summary of Practice

4.1 This practice is intended primarily to guide those responsible for or concerned with the design and installation of chain-link fencing around tennis courts.

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

¹ This practice is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.10 on Specific Applications. Current edition approved Feb. 1, 2007-2011. Published February 2007-June 2011. Originally approved in 1986. Last previous edition approved in 2004 as F969 - 07. DOI: 10.1520/F0969-07.10.1520/F0969-11.

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 Available from Chain Link Fence Manufacturers Institute, 10015 Old Columbia Road, Suite B-215, Columbia, MD 21046, http://www.chainlinkinfo.org.

5. Significance and Use

5.1 The intended use of this practice is for 10- or 12-ft (3050 or 3660 mm) high chain-link fencing as complete enclosures around single or multiple tennis courts, or as backstops at either end of tennis courts.

5.2 This practice is not intended for applications where fencing higher than 12 ft (3660 mm) is desired for a special application.

5.3 *Caution Regarding Windscreens*— If wind screens are to be installed at the time of fence erection or at a later time, it is advisable to use stronger framework and parts and closer spacing of posts or back bracing depending upon the type of screening material to be used, area of fence to be covered, and local wind conditions. The Chain Link Fence Manufacturers Institute's (CLFMI), Guide WLG 2445, provides the designer with the process to select the post size and post spacing.

6. Classification

6.1 The four types of chain-link fencing described in this practice are classified as follows:

6.1.1 *Type I*—Built with aluminum-coated steel chain-link fence fabric as specified in Specification A491.

6.1.2 *Type II*—Built with zinc-coated steel chain-link fence fabric as specified in Specification A392, ~~Class 1 coating only,~~ Class 1 or Class 2 coating, as selected.

6.1.3 *Type III*—Built with zinc-5% aluminum-mischmetal alloy-coated steel chain-link fence fabric as specified in Specification F1345, in a choice of Class 1 or Class 2 coating, as selected.

6.1.4 *Type IV*—Built with polymer-coated steel chain-link fence fabric as specified in Specification F668, in a choice of Class 1, Class 2a, or Class 2b coating, as selected.

7. Ordering Information

7.1 Purchase orders, construction specifications, or detailed drawings should include the following information:

7.1.1 Quantity or total measurements in lineal feet of fence and gates.

~~7.1.2 Type of fence (Type I, II, III or IV) (see 6.1)~~

7.1.2 Type of fence fabric and gauge of wire; Type I, Type II (see 6.1.2), Type III (see 6.1.3), Type IV (see 6.1.4), gauge of wire (see 8.1.3).

~~7.1.3 Class of fence if Type III (Class 1 or 2) (see~~

7.1.3 Class of metallic-coated fence fabric Type II (Class 1 or Class 2) (see 6.1.2), Type III (Class 1 or Class 2) (see 6.1.3).

~~7.1.4 Class of fence if Type IV (Class 1, 2a, or 2b) (see~~

7.1.4 Class of Type IV polymer-coated fence fabric, Class 1, Class 2a or Class 2b (see 6.1.4) and color (see 8.1.2).

7.1.5 If framework, fittings and gates are to be color coated, select color from Specification F934.

7.1.6 Height of fence (10 or 12 ft ~~{3050(3050 or 3660 mm)} mm~~).

7.1.7 Number of horizontal rails and location.

7.1.8 Bottom tension wire, if specified.

7.1.9 Depth and diameter of concrete post footings, if other than as indicated in Practice F567.

7.1.10 Spacing of line posts, if other than as indicated in Practice F567.

7.1.11 Any details peculiar to the project, such as special finishing of tops of concrete post footings, setting of posts in concrete curbs, etc. (see 9.2.2 and 9.2.3).

NOTE 1—A typical ordering description is as follows: 360 lineal ft (109.7 m) chain-link tennis court fence to make a full enclosure 60 by 120 ft (18.3 by 36.6 m) with 3 ft (914 mm) gate at one corner, Type I, 12 ft (3660 mm) high, 3 horizontal rails (top, middle, and bottom), furnished and erected as shown on the enclosed drawing, and in accordance with ASTM F969.

7.2 A detailed drawing or drawings showing the complete layout of the fence line, together with typical elevations, details of pavement around post footings, etc., should be a part of the purchase order or construction contract.

8. Materials

8.1 *Chain-Link Fabric:*

8.1.1 If Type II or Type III is selected, indicate whether Class 1 or 2 is desired.

8.1.2 If Type IV is selected, indicate whether Class 1, 2a, or 2b is desired, and select color of fabric coating in accordance with Specification F934.

~~8.1.3 Size of wire shall be 0.120 in. (3.05 mm) 11 gauge. If Type IV is selected, this shall be the size of the metallic-coated core wire.~~

8.1.3 Size of wire shall be 0.120 in. (3.05 mm) 11 gauge or 0.148 in. (3.76 mm) 9 gauge. If polymer-coated Type IV fabric is selected, the wire size gauge is the gauge of the metallic-coated core wire.

8.1.4 Size of fabric mesh shall be 1¾ in. (44 mm).

8.1.5 Height of fabric shall be 10 or 12 ft (3050 or 3660 mm), as selected.

8.1.6 Fabric selvage shall be knuckled top and bottom.

8.2 *Posts:*

8.2.1 Posts shall be as selected from Specifications F1043 and F1083. If polymer-coated, specify type of coating and color.

8.2.2 The posts shall not be splice-welded.