



Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework¹

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1. Scope

1.1 This specification covers the strength and protective coating requirements for industrial steel chain link fence framework. Maximum allowable heights of framework and post spacing are to be based on chain link fence fabric mesh size and gages, and specified wind loads. Post spacings are not to exceed 10 ft. (For additional information, see CLFMI Guide WLG2445).

1.1.1 *Caution Regarding Windload*—If additives to the fence, such as windscreen, inserts or signage, are required, it is advisable to use stronger framework and fittings, to reduce the on-center spacing of posts or to add back bracing. Factors to consider when determining windload include the type of screening material to be used, area of fence to be covered, and local wind conditions.

1.2 Posts and rails may have any cross-sectional shape meeting the requirements herein. The shapes may be formed and welded, cold formed, hot rolled, or extruded.

1.3 The values in inch-pound units are to be regarded as the standard. The values stated in SI units are for information purposes only.

NOTE 1—For aluminum-alloy extruded structural pipe and tube please refer to Specification B 429.

2. Referenced Documents

2.1 ASTM Standards:

- A 90/A 90M Test Method for Weight [Mass] of Coating on Iron or Steel Articles with Zinc or Zinc Alloy Coatings²
- A 123/A 123M Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron or Steel Products²
- A 653/A 653M Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process²
- A 875/A 875M Specification for Steel Sheet, Zinc-5 % Aluminum Alloy Metallic-Coated by the Hot-Dip Process²

¹ This specification 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 *Annual Book of ASTM Standards*, Vol 01.06.

A 1011 Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low Alloy with Improved Formability³

B 6 Specification for Zinc (Slab Zinc)⁴

B 308/B 308M Specification for Aluminum Alloy 6061 T6 Standard Structural Steel⁵

B 429 Specification for Aluminum-Alloy Extruded Structural Pipe and Tube⁴

B 750 Specification for Zinc-5 % Aluminum-Mischmetal; Alloy in Ingot Form for Hot-Dip Coatings⁶

D 1499 Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics⁷

D 3359 Test Methods for Measuring Adhesion by Tape Tests⁸

E 8 Test Methods for Tension Testing of Metallic Materials⁹

E 376 Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Test Methods¹⁰

F 552 Terminology Relating to Chain Link Fencing²

F 934 Specification for Standard Colors for Polymer Coated Chain Link Fence²

F 1083 Specification for Pipe, Steel, Hot-Dipped Zinc Coated (Galvanized), Welded, for Fence Structures²

F 1553 Guide for Specifying Industrial and Commercial Chain Link Fence²

G 23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials¹¹

G 26 Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials¹²

³ *Annual Book of ASTM Standards*, Vol 01.03.

⁴ *Annual Book of ASTM Standards*, Vol 02.03.

⁵ *Annual Book of ASTM Standards*, Vol 02.02.

⁶ *Annual Book of ASTM Standards*, Vol 02.04.

⁷ *Annual Book of ASTM Standards*, Vol 08.01.

⁸ *Annual Book of ASTM Standards*, Vol 06.01.

⁹ *Annual Book of ASTM Standards*, Vol 03.01.

¹⁰ *Annual Book of ASTM Standards*, Vol 03.03.

¹¹ Discontinued. See 1997 *Annual Book of ASTM Standards*, Vol 14.02. Replaced by Practices G 152 and G 153.

¹² Discontinued. See 1997 *Annual Book of ASTM Standards*, Vol 14.02. Replaced by Practice G 155.