This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

Designation: F3000/F3000M – 13 (Reapproved 2022)

Standard Specification for Polymer Privacy Insert Slats for Chain Link Fabric and Privacy Chain Link Fabric Manufactured Containing Pre-Installed Privacy Slats[1]

This standard is issued under the fixed designation F3000/F3000M; 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 specification covers polymer privacy insert slats designed for insertion into chain link fabric after the chain link fence installation and privacy chain fabric having slats pre-inserted into chain link mesh during the chain link weaving process.

1.1.1 Type P-V consists of polyethylene privacy insert slats hand inserted vertically into standard mesh chain link fabric after the fence installation.

1.1.2 Type P-D consists of polyethylene privacy insert slats hand woven diagonally into standard mesh chain link fabric after the fence installation.

1.1.3 Type F-VDH consists of modified fiberglass privacy insert slats hand woven, vertically, diagonally or horizontally into standard mesh chain link fabric after the fence installation.

1.2 Type PI-V consists of privacy chain link fabric containing vertical high density polyethylene privacy slats pre-inserted into the chain link mesh during the chain link weaving process. Style 1a: Wider, 2 ⅜ in. [60.3 mm] to 3 in. [76.2 mm] slats, pre-inserted into specially designed larger mesh. Style 1b: Type P-V friction fit slats pre-inserted into standard 2 in. [50 mm] chain link mesh.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.4 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

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

D1499 Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics

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

F934 Specification for Standard 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

2.2 *Chain Link Fence Manufacturers Institute:*[3]

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

[1] This test method 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.

Current edition approved Nov. 1, 2022. Published November 2022. Originally approved in 2013. Last previous edition approved in 2018 as F3000/F3000M – 13(2018). DOI: 10.1520/F3000_F3000M-13R22.

[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 (CLFMI), 10015 Old Columbia Rd. Suite B215 Columbia, MD 21046, https://chainlinkinfo.org.

Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. United States

Documents
Document Sharing Hub
Full document details: ASTM F3000/F3000M-13(2022)

2.3 *American Society of Civil Engineers and Structural Engineering Institute:*[4]

ASCE/SEI 7-10 Minimum Design for Buildings and Other Structures

3. Terminology

3.1 *Definitions:*

3.1.1 *privacy slat*—a plastic polymer strip, tube or profile designed to slide into chain link fabric vertically, horizontally or diagonally for the purpose of reducing visibility, providing a level of privacy, security, wind screen or enhancing the aesthetics of chain link fence systems.

3.1.2 *locking channel*—a horizontal channel shaped polymer extrusion designed to lock vertical privacy slats in place.

3.1.3 *bow tie knuckle selvage*—a modified larger horizontal chain link knuckle selvage that aids in securing the PI-V chain link privacy slat in place. (Chain link knuckle, chain link selvage see Terminology F552.)

4. Ordering Information

4.1 Orders for privacy insert slats purchased to this specification shall include the following information:

4.1.1 Quantity; length of fence.

4.1.2 Height of fence.

4.1.3 Type of slat; P-V, P-D or F-VDH.

4.1.4 Installation orientation for F-VDH type slats: vertical, diagonal, horizontal.

4.1.5 Chain link mesh size.

4.1.6 Percent of closure or privacy requirement.

4.1.7 Slat locking requirement.

4.1.8 Style 1a or 1b Type PI-V privacy chain link fabric.

4.1.9 ASTM chain link specification for Type PI-V privacy chain link fabric.

4.1.10 Color of slat.

4.1.11 Color of polymer coated Type PI-V fabric in accordance with Specification F934 when applicable.

4.1.12 Certification to this standard if required.

4.2 Any tests required other than those listed in this specification must be stipulated by the purchaser in the order or contract.

5. Privacy Slat Design Configurations

5.1 Slat designs shall be of the width to insert securely into the specific chain link mesh size. Manufactures offer multiple privacy slat configurations, lengths, widths as well as slats containing side fins. The various slat configurations provide visual closure from approximately 70 % to 95 %. The Type P-V, P-D, and F-VDH slat inserts are available for standard ASTM chain link fabric mesh sizes; 1 ¾ in. [44.5 mm], 2 in. [50 mm] and 2 ⅛ in. [54 mm]. Slat widths range from ⅞ in. [22 mm] to 1 ¾ in. [44.5 mm] depending on the mesh size, percent of closure and orientation, vertical, diagonal or horizontal. The insert slats for the PI-V Style 1a privacy chain link fabric are of a wider width, 2 ⅜ in. [60.3 mm] to 3 in. [76.2 mm].

5.2 The length of the slat inserts or a combination of the slat and horizontal locking channel shall cover the full diamond portion of the chain link fabric. Depending on the mesh size, installation orientation and slat design the coverage height could be 1 in. [25 mm] less than the height of the fence.

6. Materials

6.1 Type P-V slats shall be a semi-rigid high density polyethylene extrusion.

6.2 Type P-D slats shall be a flexible low density polyethylene extrusion supplied with brass rivet type fasteners.

6.3 Type F-VDH slats shall be semi-rigid fiberglass reinforced plastic composed of glass fiber reinforcements, polyester resins, pigments and fillers supplied with nylon or aluminum pop rivet fasteners.

6.4 Type PI-V pre-installed vertical slats shall be semi-rigid high density polyethylene extruded slats. The slats are inserted into chain link fabric that is in compliance with the ASTM chain link fabric standards listed below, using 9 gauge, 0.148 in. [3.76 mm] diameter pre-coated steel wire: A392 Galvanized Class 1, 1.20 oz/ft^2 [366 g/m^2] A491 Aluminum-Coated, 0.40 oz/ft^2 [122 g/m^2] F668 Polymer-Coated Class 2b fused F1345 Zinc-5% Aluminum-Mischmetal Alloy-Coated Class 1, 0.60 oz/ft^2 [183 g/m^2].

6.4.1 Privacy chain link fabric shall have a knuckle or bow knuckle selvage at the top and bottom to aid in securing the slats.

6.4.2 Friction locking semi-rigid high density polyethylene privacy slats designs can be installed without the need for staples or locking channels.

6.4.3 *PI-V Style 1a*—2 ⅜ in. [60.3 mm] to 3 in. [76.2 mm] wide slats inserted into a specifically designed larger mesh woven using 9 gauge, 0.148 in. [3.76 mm] chain link fabric. Secure slats with stainless steel staples or use friction locking design. (The larger mesh configuration designed for the accommodation of the 2 ⅜ in. [60.3 mm] to 3 in. [76.2 mm] slat is not listed in ASTM chain link fabric standards and is unique only to this product.

6.4.4 *PI-V Style 1b*—Contains friction locking Type P-V slats inserted into ASTM standard 2 in. [50 mm] mesh 9 gauge, 0.148 in. [3.76 mm] chain link fabric.

6.5 Privacy slats shall have a minimum tensile strength of 3,700 psi [25.5 MPa].

6.6 Privacy slats shall not support combustion.

6.7 Manufacturers of privacy slats offer a wide variety of colors; color shall be distributed throughout the slat. Slats that are required to match the polymer coated chain link fabric or framework shall be in accordance with Specification F934: green, olive green, brown, and black.

7. Weathering

7.1 The polymer privacy slats shall not fade or crack under normal conditions. Slats shall have demonstrated the ability to withstand 1000 hours when tested in a weatherometer apparatus in accordance with Practice D1499.

[4] Available from American Society of Civil Engineers (ASCE), 1801 Alexander Bell Dr., Reston, VA 20191, http://www.asce.org.

AVA Documents
Document Sharing Hub

Full document details: ASTM F3000/F3000M-13(2022)