



Standard Specification for Design, Fabrication, and Installation of Fences Constructed of Wood and Related Materials¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers all wood fences, including fences combined with wood and other materials.

1.2 This specification covers three classifications of wood fences. This specification is based on fundamental construction principles combined with long-standing traditional fence building skills, and covers the design, fabrication, and installation practices of wood fences.

1.3 This specification also provides a systematic method of purchase, inspection with basis for rejection, and certification of manufactured wood fences by the fence industry.

1.4 The values stated in inch-pound units are to be regarded as the standard. Acceptable industry-wide SI equivalents are being developed.

2. Referenced Documents

2.1 ASTM Standards:

- A 641 Specification for Zinc-Coated (Galvanized) Carbon Steel Wire²
- A 809 Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire²
- B 221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes³
- D 2605 Specification for Volatile Petroleum Solvent (LPG) for Preparing Pentachlorophenol Solutions⁴
- D 3225 Specification for Low-Boiling Hydrocarbon Solvent for Oil-Borne Preservatives⁵
- D 3506 Specification for Inhibited Grade Methylene Chloride for Preparing Pentachlorophenol Solutions⁶
- F 1043 Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework²
- F 1667 Specification for Driven Fasteners: Nails, Spikes, and Staples⁷

2.2 Federal Standards:

TT-W-572B Fungicide: Pentachlorophenol⁸

2.3 Canadian Standards Association Document:

B 111-74 Specification for Wire Nails, Spikes, and Staples⁹

2.4 National Forest Products Association Standard:

National Design Specification for Stress Grade Lumber and Its Fastenings¹⁰

2.5 Voluntary Product Standards:

PS 20-70 Softwood Lumber¹¹

PS 1-74 Softwood Plywood¹¹

2.6 American Plywood Association Standard:

Specification for Plywood Design¹²

2.7 American Wood Preservers Association Standards:

C 1 All Timber Products, Preservative Treatment by Pressure Process¹³

C 2 Lumber, Timbers, Bridge Ties, Mine Ties, Preservative Treatment by Pressure Process¹³

C 5 Fence Post, Preservative Treatment by Pressure Process¹³

C 9 Plywood, Preservative Treatment by Pressure Process¹³

C 16 Wood Used on Farms, Preservative Treatment by Pressure Process¹³

C 23 Round Poles and Posts Used For Building Construction, Preservative Treatment by Pressure Process¹³

M 4 Care of Pressure Treated Wood Products¹³

3. Terminology

3.1 Definitions:

3.1.1 *back rails*—rails on which cover material is directly attached.

3.1.2 *boards*—lumber that is up to 1 in. in nominal thickness and 2 in. or wider in nominal width.

¹ This specification is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.20 on Wood Fence.

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² *Annual Book of ASTM Standards*, Vol 01.06.

³ *Annual Book of ASTM Standards*, Vol 02.02.

⁴ Discontinued; see 1992 *Annual Book of ASTM Standards*, Vol 04.08.

⁵ *Annual Book of ASTM Standards*, Vol 04.09.

⁶ Discontinued; see 1992 *Annual Book of ASTM Standards*, Vol 04.09.

⁷ *Annual Book of ASTM Standards*, Vol 01.08.

⁸ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁹ Available from Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ontario, Canada M 9W 1R3.

¹⁰ Available from National Forest Products Association, 1619 Massachusetts Ave., N.W., Washington, DC 20036.

¹¹ Available from U.S. Department of Commerce, National Bureau of Standards, Washington, DC 20234.

¹² Available from American Plywood Association, 1119 A St., Tacoma, WA 98401.

¹³ Available from American Wood Preservers Association, P.O. Box 849, Stevensville, MD 21666.