



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

This standard is issued under the fixed designation F537; 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.

This standard has been approved for use by agencies of the U.S. 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:²

A641/A641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

A809 Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire

B221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

D2605 Specification for Volatile Petroleum Solvent (LPG) for Preparing Pentachlorophenol Solutions (Withdrawn 1992)³

D3225 Specification for Low-Boiling Hydrocarbon Solvent for Oil-Borne Preservatives (Withdrawn 2006)³

D3506 Specification for Inhibited Grade Methylene Chloride for Preparing Pentachlorophenol Solutions (Withdrawn 1992)³

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

F1667 Specification for Driven Fasteners: Nails, Spikes, and Staples

2.2 Federal Standards:

TT-W-572B Fungicide: Pentachlorophenol⁴

2.3 Canadian Standards Association Document:

B111-74 Specification for Wire Nails, Spikes, and Staples⁵

2.4 National Forest Products Association Standard:

National Design Specification for Stress Grade Lumber and Its Fastenings⁶

2.5 Voluntary Product Standards:

PS 20-70 Softwood Lumber⁷

PS 1-74 Softwood Plywood⁷

2.6 American Plywood Association Standard:

Specification for Plywood Design⁸

2.7 American Wood Preservers Association Standards:

C1 All Timber Products, Preservative Treatment by Pressure Process⁹

C2 Lumber, Timbers, Bridge Ties, Mine Ties, Preservative Treatment by Pressure Process⁹

C5 Fence Post, Preservative Treatment by Pressure Process⁹

C9 Plywood, Preservative Treatment by Pressure Process⁹

C16 Wood Used on Farms, Preservative Treatment by Pressure Process⁹

C23 Round Poles and Posts Used For Building Construction, Preservative Treatment by Pressure Process⁹

¹ This specification is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.15 on Other Fence Systems and Components.

Current edition approved Oct. 1, 2014. Published November 2014. Originally approved in 1978. Last previous edition approved in 2007 as F537 - 01(2007). DOI: 10.1520/F0537-01R14.

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 The last approved version of this historical standard is referenced on www.astm.org.

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

⁵ Available from Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ontario, Canada M9W 1R3.

⁶ Available from National Forest Products Association, 1619 Massachusetts Ave., N.W., Washington, DC 20036.

⁷ Available from U.S. Department of Commerce, National Bureau of Standards, Washington, DC 20234.

⁸ Available from American Plywood Association, 1119 A St., Tacoma, WA 98401.

⁹ Available from American Wood Preservers Association, P.O. Box 849, Stevensville, MD 21666.