Designation: D 6254/D 6254M – 99

Standard Specification for Wirebound Pallet-Type Wood Boxes[1]

This standard is issued under the fixed designation D 6254/D 6254M; 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 Department of Defense.

1. Scope

1.1 This specification covers the fabrication of new fully enclosed wirebound pallet-type wooden boxes intended for use as containers for domestic and overseas shipment of general materials and supplies, not exceeding 2500 lb [1134 kg] (see 10.1).

1.2 Wirebound pallet-type wooden box performance is dependent on its fabricated components; therefore, a variety of types, classes, and treatments reflecting varied performance are specified. This specification, however, does not cover wirebound pallet-type wooden box performance under all atmosphere, handling, shipping, and storage conditions.

1.3 If the use of other construction methods or techniques is acceptable and permitted (see 5.1.11), the resulting packaging systems shall be of equal or better performance than would result from the use of these specified materials and procedures. The appropriate distribution cycle provided in Practice D 4169 can be used to develop comparative procedures and criteria.

1.4 The values stated in either inch-pound or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the standard. See IEEE/ASTM SI 10 for conversion of units.

1.5 *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:*

D 996 Terminology of Packaging and Distribution Environments[2]

D 1990 Practice for Establishing Allowable Properties for Visually-Graded Dimension, Lumber from In-Grade Tests of Full-Size Specimens[3]

D 3951 Practice for Commercial Packaging[2]

D 3953 Specification for Strapping, Flat Steel and Seals[2]

D 4169 Practice for Performance Testing of Shipping Containers and Systems[2]

D 4442 Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials[3]

D 4444 Test Methods for Use and Calibration of Hand-Held Moisture Meters[3]

D 6199 Practice for Quality of Wood Members of Containers and Pallets[2]

F 1667 Specification for Driven Fasteners, Nails, Spikes, and Staples[4]

IEEE/ASTM SI 10 Standard for Use of the International System of Units (SI): The Modern Metric System[5]

2.2 *Federal Specifications:*

TT-W-572 Wood Preservative: Water-Repellent[6]

2.3 *Code of Federal Regulations:*

CFR Parts 107–180, Title 49, Hazardous Materials Regulations[7]

2.4 *APA—The Engineered Wood Association Standard:*

PSI-95 Construction and Industrial Plywood[8]

2.5 *Hardwood Plywood and Veneer Association Standard:*

HPVA HP-1-1994 Hardwood and Decorative Plywood[9]

2.6 *National Motor Freight Traffic Association:*

National Motor Freight Classification[10]

2.7 *Uniform Classification Committee Standard:*

[1] This specification is under the jurisdiction of ASTM Committee D-10 on Packaging and is the direct responsibility of Subcommittee D10.26 on Wooden Crates, Pallets and Skids.

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[2] *Annual Book of ASTM Standards*, Vol 15.09.

[3] *Annual Book of ASTM Standards*, Vol 04.10.

[4] *Annual Book of ASTM Standards*, Vol 15.08.

[5] *Annual Book of ASTM Standards*, Vol 14.02.

[6] Available from the Federal Supply Service Bureau, Specification Section, Suite 8100, 480 L'Enfant Plaza, SW, Washington, DC 20408.

[7] Available from the Superintendent of Documents, U.S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402–9328.

[8] Available from APA–The Engineered Wood Association, 7011 South 19th St., PO Box 11700, Tacoma, WA 98411-0700.

[9] Available from Hardwood Plywood and Veneer Association, PO Box 2789, Reston, VA 2290-0789.

[10] Available from National Motor Freight Traffic Association, American Trucking Associations, 2200 Mill Road, Alexandria, VA 22314.

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