



Standard Specification for Wood-Cleated Shipping Boxes with Skidded, Load-Bearing Bases¹

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1. Scope

1.1 This specification covers the fabrication of new wood-cleated boxes with skidded, load-bearing bases. Boxes covered by this specification are designed for nonregulated domestic and overseas shipment of loads less than 2500 lb [1134 kg] and not greater than 16 ft [4877 mm] in length (see 9.1). Regulated commodities shipments may require better boxes than those specified herein (see 9.2).

1.2 The performance of wood-cleated boxes with skidded, load-bearing bases is dependent on their fabricated components; therefore, a variety of types, styles, and classes reflecting varied performance are specified. This specification, however, does not cover box performance under all atmosphere, handling, shipping and storage conditions.

1.3 If the use of other construction methods or techniques are acceptable and permitted (see 5.1.18), 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 specified in Practice D 4169 can be used to develop comparative procedures and criteria.

1.4 The values stated in either inch-pound units 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 the 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 Environments²

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.

D 1990 Practice for Establishing Allowable Properties for Visually-Graded Dimension, Lumber from In-Grade Tests of Full-Size Specimens³

D 3951 Practice for Commercial Packaging²

D 3953 Specification for Strapping, Flat Steel and Seals²

D 4169 Practice for Performance Testing of Shipping Containers and Systems²

D 4727/D 4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes²

D 6251/D 6251M Specification for Natural Wood-Cleated Panelboard Shipping Boxes²

D 6039 Specification for Crates, Wood, Open and Covered²

D 6199 Practice for Quality of Wood Members of Containers and Pallets²

F 1667 Specification for Driven Fasteners, Nails, Spikes, and Staples⁴

IEEE/ASTM SI 10 Standard for Use of the International System of Units (SI): The Modern Metric System⁵

2.2 Federal Specifications:

TT-W-572 Wood Preservative: Water-Repellent⁶

PPP-B-601 Boxes, Wood, Cleated-Plywood⁶

2.3 Code of Federal Regulations:

CFR Parts 107–180 Title 49, Hazardous Materials Regulations⁷

2.4 APA—The Engineered Wood Association Standard:

PS1-95 Construction and Industrial Plywood⁸

2.5 American Society of Mechanical Engineers (ASME) Standards:

B18.2.1 Square and Hex Bolts and Screws—Inch Series⁹

B18.2.2 Square and Hex Nuts (Inch Series)⁹

B18.2.3.8M Metric Hex Lag Screws⁹

B18.2.4.2M Metric Hex Nuts, Style 2⁹

B18.5 Round Head Bolts (Inch Series)⁹

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 S. 19th St., P.O. Box 11700, Tacoma, WA 98411–0700.

⁹ Available from the American Society of Mechanical Engineers, 345 E. 47th St., New York, NY 10017, American National Standard Institute (ANSI) adopted.