



Designation: D6880/D6880M – 19

Standard Specification for Wood Boxes¹

This standard is issued under the fixed designation D6880/D6880M; 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 the fabrication of wood boxes. These wood boxes, when constructed, filled and closed, shall be used for the packing of contents not exceeding 1000 lb [454 kg].

1.2 If the use of other construction methods or techniques is acceptable and permitted (see 5.1), the resulting boxes shall be of equal or better performance than would result from the use of the specified materials and procedures. An appropriate distribution cycle, specified in Practice D4169, can be used to develop comparative procedures and criteria.

1.3 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.

1.4 *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

D996 Terminology of Packaging and Distribution Environments

D3951 Practice for Commercial Packaging

D3953 Specification for Strapping, Flat Steel and Seals

D4169 Practice for Performance Testing of Shipping Containers and Systems

D4675 Guide for Selection and Use of Flat Strapping Materials¹

D6199 Practice for Quality of Wood Members of Containers and Pallets

D6253 Practice for Treatment and/or Marking of Wood Packaging Materials

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

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

2.2 American Society of Mechanical Engineers (ASME) Standards:³

B18.2.1 Square and Hex Bolts and Screws-Inch Series

B18.2.2 Square and Hex Nuts (Inch Series)

B18.5 Round Head Bolts (Inch Series)

B18.22M Metric Plain Washers

2.3 APA – The Engineered Wood Association:⁴

APA PS-20 American Softwood Lumber Standard

2.4 ISO Standards:⁵

ISO 4033 Hexagon High Nuts (Style 2)—Product Grades A and B

ISO 8677 Cup Head Square Neck Bolts with Large Head—Product Grade C

ISO 8678 Cup Head Square Neck Bolts with Small Head and Short Neck—Product Grade B

2.5 National Hardwood Lumber Association (NHLA) Standard:⁶

Rules for the Measurement and Inspection of Hardwood and Cypress

¹ This specification is under the jurisdiction of ASTM Committee D10 on Packaging and is the direct responsibility of Subcommittee D10.12 on Shipping Containers, Crates, Pallets, Skids and Related Structures.

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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 American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, <http://www.asme.org>.

⁴ Available from APA – The Engineered Wood Association, 7011 S. 19th Street, Tacoma, WA 98466-5333, <https://www.apawood.org>.

⁵ Available from International Organization for Standardization (ISO), ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <http://www.iso.org>.

⁶ Available from National Hardwood Lumber Association (NHLA), 6830 Raleigh LaGrange Rd., Memphis, TN 38134, <http://www.natllhardwood.org>

*A Summary of Changes section appears at the end of this standard