



Standard Practice for Treatment and/or Marking of Wood Packaging Materials¹

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1. Scope

1.1 This practice covers the development of recommended treatment, or marking practices, or both, for wood packaging materials (WPM) and aids in identifying WPM as to phytosanitary treatment, intended service cycles, repair, the specific specification used to manufacture or recycle, and other user designated characteristics.

1.2 This practice identifies WPM treated, or marked, or both in accordance with industry, government, or international recognized standards.

1.3 *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:²

- D 996** Terminology of Packaging and Distribution Environments
- D 6039/D 6039M** Specification for Crates, Wood, Open and Covered
- D 6251/D 6251M** Specification for Wood-Cleated Panel-board Shipping Boxes
- D 6254/D 6254M** Specification for Wirebound Pallet-Type Wood Boxes
- D 6255/D 6255M** Specification for Steel or Aluminum Slotted Angle Crates
- D 6256/D 6256M** Specification for Wood-Cleated Shipping Boxes with Skidded, Load-Bearing Bases
- D 6573** Specification for General Purpose Wirebound Shipping Boxes

2.2 ASME Standard:

ASME MH1-1997, Pallets, Slip Sheets, and Other Bases for Unit Loads³

2.3 AWPA Standards:

P8-03, Standard for Oil-Borne Preservatives⁴

P9-03, Standards for Solvents and Formulations for Organic Preservative Systems⁴

2.4 NFPA Standard:

NFPA 704, Standard System for Identification of Hazards of Materials for Emergency Response⁵

2.5 International Standard:

International Standards on Phytosanitary Measures (ISPM) Publication No. 15, Guidelines for Regulating Wood Packaging Material in International Trade⁶

3. Terminology

3.1 *Definitions*—General definitions for the packaging and distribution environments are found in Terminology **D 996**.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *certifying or inspection agency, n*—a qualified independent agency providing an audit service to verify the manufacturer or recycler has complied with government or industry-recognized programs.

3.2.2 *heat treatment (HT), n*—heating of WPM in accordance with a specific time-temperature schedule that achieves a minimum wood core temperature of 56°C for a minimum of 30 min.

3.2.3 *intended service cycle, n*—a marking applied to a materials handling pallet to identify a multiple-use or limited-use pallet (see 3.2.6 and 3.2.4).

3.2.4 *limited-use (L) pallets, n*—intended for use in shipping only one unit load (also known as a expendable or single-trip pallets) (see Table 1).

3.2.5 *methyl bromide (MB) fumigation, n*—fumigation of WPM with methyl bromide using an approved fumigation schedule.

¹ This practice 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 the American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016.

⁴ Available from the American Wood-Preservers' Association, P.O. Box 361784, Birmingham, AL 35236-1784.

⁵ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269-9101.

⁶ Available from the International Plant Protection Convention, www.ippc.int.