



Designation: D6255/D6255M – 18

Standard Specification for Steel or Aluminum Slotted Angle Crates¹

This standard is issued under the fixed designation D6255/D6255M; 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 the material and fabrication of new reusable metal (slotted angle) crates intended for use as containers for domestic and overseas shipment of lightweight airframe components and lightweight bulky items, not exceeding 3000 lb [1361 kg] for domestic or overseas air and surface shipments.

1.2 Slotted angle crate performance is dependent on its fabricated components; therefore, a variety of types, classes, and styles reflecting varied performance are specified. This specification, however, does not cover slotted angle crate 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 5.1.12), 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 D4169 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

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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1.6 *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

- A109/A109M Specification for Steel, Strip, Carbon (0.25 Maximum Percent), Cold-Rolled
- A123/A123M Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- A924/A924M Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
- B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- B633 Specification for Electrodeposited Coatings of Zinc on Iron and Steel
- D996 Terminology of Packaging and Distribution Environments
- D1990 Practice for Establishing Allowable Properties for Visually-Graded Dimension Lumber from In-Grade Tests of Full-Size Specimens
- D3951 Practice for Commercial Packaging
- D3953 Specification for Strapping, Flat Steel and Seals
- D4169 Practice for Performance Testing of Shipping Containers and Systems
- D4727/D4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes
- 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

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.

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