



Standard Specification for Steel or Aluminum Slotted Angle Crates¹

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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 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 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:

- A 109/A 109M Specification for Steel, Strip, Carbon, Cold-Rolled²
- A 123/A 123M Specification for Zinc (Hot-Dip Galva-

nized) Coatings on Iron and Steel Products³

A 924/A 924M Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process³

B 209 Specification for Aluminum and Aluminum Alloy Sheet and Plate⁴

B 633 Specification for Electrodeposited Coatings of Zinc on Iron and Steel⁵

D 996 Terminology of Packaging and Distribution Environments⁶

D 1990 Practice for Establishing Allowable Properties for Visually-Graded Dimension, Lumber from In-Grade Test of Full-Size Specimens⁷

D 3951 Practice for Commercial Packaging⁶

D 3953 Specification for Strapping, Flat Steel and Seals⁶

D 4169 Practice for Performance Testing of Shipping Containers and Systems⁶

D 4727/D 4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes⁶

D 6199 Practice for Quality of Wood Members of Containers and Pallets⁶

F 1667 Specification for Driven Fasteners, Nails, Spikes, and Staples⁸

IEEE/ASTM SI 10 Standard for Use of the International System of Units (SI): The Modern Metric System⁹

2.2 Federal Specifications:

TT-W-572 Wood Preservative: Water-Repellent¹⁰

2.3 APA—The Engineered Wood Association

PS1-95 Construction and Industrial Plywood¹¹

2.4 American Society of Mechanical Engineers (ASME)

Standards:

B18.2.1 Square and Hex Bolts and Screws (Inch Series)¹²

B18.2.2 Square and Hex Nuts (Inch Series)¹²

B18.2.3.5M Metric Hex Bolts¹²

³ Annual Book of ASTM Standards, Vol 01.06.

⁴ Annual Book of ASTM Standards, Vol 02.02.

⁵ Annual Book of ASTM Standards, Vol 02.05.

⁶ Annual Book of ASTM Standards, Vol 15.09.

⁷ Annual Book of ASTM Standards, Vol 04.10.

⁸ Annual Book of ASTM Standards, Vol 15.08.

⁹ Annual Book of ASTM Standards, Vol 14.02.

¹⁰ Available from the Federal Supply Service Bureau, Specification Section, Suite 8100, 480 L'Enfant Plaza, SW, Washington, DC 20408.

¹¹ Available from APA—The Engineered Wood Association, 7011 South 19th St., P.O. Box 11700, Tacoma, WA 98411-0700.

¹² Available from the American Society of Mechanical Engineers, 345 East 47th St., New York, NY 10017; American National Standard (ANSI) adopted.

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 01.03.