



Standard Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment¹

This standard is issued under the fixed designation A 700; 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 Department of Defense.

^{€1} NOTE—In 8.2.1.2, the standard size of a steel die-stamp was corrected editorially in October 2000.

1. Scope

1.1 These practices cover the packaging, marking, and loading of steel products for domestic shipment. Assuming proper handling in transit, the practices are intended to deliver the products to their destination in good condition. It is also intended that these recommendations be used as guides for attaining uniformity, simplicity, adequacy, and economy in the domestic shipment of steel products.

1.2 These practices cover semi-finished steel products, bars, bar-size shapes and sheet piling, rods, wire and wire products, tubular products, plates, sheets, and strips, tin mill products, and castings. A glossary of packaging, marking, and loading terms is also included.

1.3 The practices are presented in the following sequence:

	Section
General Provisions	4
General	4.1
Railcar Loading	4.2
Truck Loading	4.3
Barge Loading	4.4
Air Shipment	4.5
Packaging Materials	4.6
Package Identification	4.7
Weight and Count	4.8
Packaging Lists or Tally	4.9
Loss or Damage	4.10
Semifinished Steel Products	5
Hot-Rolled Bars and Bar-Size Shapes	6
Cold-Finished Bars	7
Structural Shapes and Steel Sheet Piling	8
Rods, Wire, and Wire Products	9
Tubular Products	10
Plates	11
Sheets and Strip	12
Tin Mill Products	13
Castings	14

2. Referenced Documents

2.1 ASTM Standards:

¹ These practices are under the jurisdiction of ASTM Committee A-1 on Steel, Stainless Steel and Related Alloys and are the direct responsibility of Subcommittee A01.94 on Government Specifications.

Current edition approved Nov. 10, 1999. Published December 1999. Originally published as A 700–74. Last previous edition A 700–90 (1996)^{€1}.

D 245 Practice for Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber²

D 774 Test Method for Bursting Strength of Paper³

D 828 Test Methods for Tensile Breaking Strength of Paper and Paperboard³

D 2555 Test Methods for Establishing Clear-Wood Strength Values²

D 3953 Specification for Strapping, Flat Steel and Seals³

2.2 *Association of American Railroads*:⁴

Rules Governing the Loading of Commodities on Open Top Cars

Pamphlet 23 —The Rules Governing the Loading of Steel Products in Closed Cars and Protection of Equipment

2.3 *American Society of Agricultural Engineers*:⁵

ASAE Standard S 229, Baling Wire for Automatic Balers

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 The following glossary defines packaging, marking, and loading terms:

3.1.2 *AAR*—Association of American Railroads.

3.1.3 “*A*” *end of car*—arbitrary definition used to describe the end of a freight car opposite the end on which the manual brake control is located. In the event there is a manual brake control on both ends, the ends are designated by stenciling the letters “A” and “B” respectively on both sides near the ends.

3.1.4 *air tool*—tool operated by air pressure used for strap tensioning, sealing, nailing, etc.

3.1.5 *anchor plate*—a plate that is nailed to side or floor of car used to attach steel strapping for load securement.

3.1.6 *anchor tie*—a coil eye-tie that is applied in a special manner to resistant movement on bar or rod coils. A typical method is to wrap the tie around several strands, then around the complete coil.

² *Annual Book of ASTM Standards*, Vol 04.10.

³ *Annual Book of ASTM Standards*, Vol 15.09.

⁴ Available from Association of American Railroads, American Railroads Bldg., 1920 L St., NW, Washington, DC 20036.

⁵ Available from American Society of Agricultural Engineers, 2950 Niles Rd., St. Joseph, MI 49085.