



Standard Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Alloy, Carbon, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability, General Requirements for¹

This standard is issued under the fixed designation A635/A635M; 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 general requirements for hot-rolled, heavy-thickness sheet and strip in coils.

1.2 It applies to Specifications [A414/A414M](#), [A424/A424M](#), and [A1018/A1018M](#).

1.3 This material is available only in coils described as follows:

Size Limits, Coils Only

Product	Width, in. [mm]	Thickness, in. [mm]
Strip	over 8 to 12, incl [over 200 through 300]	0.230 to 1.000, incl [from 6.0 through 25]
Sheet	All Widths ^A All Widths	0.230 to 1.000, incl [from 6.0 through 25]

^A Hot-rolled heavy thickness sheet in coils less than 12 in. [300 mm] and less in width must have slit edges. Hot-rolled heavy thickness coils 12 in. [300 mm] and wider with mill edge is considered hot-rolled heavy thickness strip.

NOTE 1—The changes in width limits with the publication of A635/A635M – 06a result in a change in tensile testing direction for material from 0.180 in. [4.5 mm] to 0.230 in. exclusive [6.0 mm exclusive] over 48 in. [1200 mm] wide, as that material is now covered by Specification [A568/A568M](#) – 06a. The purchaser is advised to discuss this change with the supplier.

1.4 In case of any conflict in requirements, the requirements of the individual material specification shall prevail over those of this general specification.

1.5 [Annex A1](#) lists permissible variations in dimensions and mass (see [Note 2](#)) in SI [metric] units. The values listed are not exact conversions of the values listed in the inch-pound tables, but instead are rounded or rationalized values. Conformance to [Annex A1](#) is mandatory when the “M” specification is used.

¹ This specification is under the jurisdiction of ASTM Committee [A01](#) on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee [A01.19](#) on Steel Sheet and Strip.

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NOTE 2—The term *weight* is used when inch-pound units are the standard. However, under SI, the preferred term is *mass*.

1.6 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.7 This specification and the applicable material specifications are expressed in both inch-pound units and SI units. However, unless the order specifies the applicable “M” specification designation (SI units), the material shall be furnished to inch-pound units.

2. Referenced Documents

2.1 *ASTM Standards*:²

- [A370 Test Methods and Definitions for Mechanical Testing of Steel Products](#)
- [A414/A414M Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy for Pressure Vessels](#)
- [A424/A424M Specification for Steel, Sheet, for Porcelain Enameling](#)
- [A568/A568M Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for](#)
- [A700 Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment](#)
- [A751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products](#)
- [A941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys](#)
- [A1018/A1018M Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon,](#)

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