



**Designation: A656/A656M-10** ~~Designation: A656/A656M - 11~~

## Standard Specification for Hot-Rolled Structural Steel, High-Strength Low-Alloy Plate with Improved Formability<sup>1</sup>

This standard is issued under the fixed designation A656/A656M; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope\*

1.1 This specification covers three types and ~~four~~ five strength grades of high-strength low-alloy, hot rolled structural steel plate for use in truck frames, brackets, crane booms, rail cars, and similar applications. Steels that conform to this specification offer improved formability. These steels are normally furnished in the as-rolled condition. The type and strength grade furnished is as agreed upon between the manufacturer and the purchaser. The types and strength grades are shown in the tables.

1.2 The maximum thickness of plates shall be as follows:

Grade	Plate Thickness, max,	
	in.	[mm]
50	2	[50]
60	1½	[40]
70	1	[25]
80	1	[25]
100	½	[13]

1.3 The values stated in either inch-pound units or SI units are to be regarded 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 this specification. See Appendix X3 of Specification A6/A6M for information on weldability.

1.4 For plates produced from coil and furnished without heat treatment or with stress relieving only, the additional requirements, including additional testing requirements and the reporting of additional test results, of Specification A6/A6M apply.

## Document Preview

[ASTM A656/A656M-11](#)

<https://standards.iteh.ai/catalog/standards/sist/d0223b47-6952-4072-b542-d23855d5e78a/astm-a656-a656m-11>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.02 on Structural Steel for Bridges, Buildings, Rolling Stock and Ships.

Current edition approved Oct. 1, 2010. Published October 2010. Originally approved in 1972. Last previous edition approved in 2005 as A656/A656M-05<sup>ε2</sup>. DOI: 10.1520/A0656\_A0656M-10.

Current edition approved Dec. 1, 2011. Published January 2012. Originally approved in 1972. Last previous edition approved in 2010 as A656/A656M-10. DOI: 10.1520/A0656\_A0656M-11.

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