



مهدی پرتوی زاده

کارشناسی مهندسی مواد گرایش متالورژی صنعتی از دانشگاه آزاد کرج

◀ بازرس کالای پروژه های نفت و گاز شرکت ایکا

◀ مهندس بین المللی جوش (IWE)

◀ دارنده گواهینامه مهندسی فدراسیون جوش اروپا EWF

◀ دارنده مدرک سطح دو بازرسی غیر مخرب در پنج متد ASNT LEVEL II : V.T , U.T , M.T , P.T, RTI

◀ سابقه ساخت، بازرسی و نظارت سازه فلزی (steel structure) ، بازرس طرف سوم (TPA)، سابقه بازرسی پروژه های نفت و گاز

◀ سابقه همکاری با سازمان نوسازی مدارس استان تهران، شرکت فاپکو، شرکت ایکا، شرکت SGS، شرکت آذران، شرکت ایران بوستر و ...

نکته ای جالب در خصوص استاندارد متریال ASTM A283

در استاندارد ASTM A 283 در ورژن های تا سال ۲۰۰۷ چهار Grade A/B/C/D دارد

ولی در ورژن های 2013 به بعد تنها دو Grade C/D باقی مانده است و دو Grade دیگر حذف شده است .

نکته جالبتر :

در ASME SEC II PART A که معمولاً با ASTM A مطابقت دارد این کاهش Grade پذیرفته نشده و هنوز استاندارد ورژن سال ۲۰۰۷ ASTM را قبول دارد .

بنابراین : از سال ۲۰۱۳ ASTM A 283 با ASME BPVC SEC II PART A SA-283 یکی نیست

لطفا در استفاده از استانداردها در مرجع و ورژن استاندارد دقت کنید.



Designation: A 283/A 283M – 03 (Reapproved 2007)

Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates¹

This standard is issued under the fixed designation A 283/A 283M; 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. Scope*

1.1 This specification² covers four grades (A, B, C, and D) of carbon steel plates of structural quality for general application.

1.2 When the steel is to be welded, a welding procedure suitable for the grade of steel and intended use or service is to

Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling

3. General Requirements for Delivery

3.1 Plates furnished under this specification shall conform to the requirements of the current edition of Specification A 6/A 6M for the specific date ordered, unless a conflict



Designation: A283/A283M – 13

Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 This specification² covers two grades (C and D) of carbon steel plates of structural quality for general application.

1.2 When the steel is to be welded, a welding procedure suitable for the grade of steel and intended use or service is to be utilized. See Appendix X3 of Specification A6/A6M for information on weldability.

1.3 The values stated in either inch-pound units or SI units

3. General Requirements for Delivery

3.1 Plates furnished under this specification shall conform to the requirements of the current edition of Specification A6/A6M, for the specific date ordered, unless a conflict exists, in which case this specification shall prevail.

3.2 Coils are excluded from qualification to this specification until they are processed into finished plates. Plates produced from coil means plates that have been cut to individual lengths from a coil. The processor directly controls

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.



Designation: A283/A283M – 18

Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates¹

This standard is issued under the fixed designation A283/A283M; 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 specification² covers two grades (C and D) of carbon steel plates of structural quality for general application.

1.2 When the steel is to be welded, a welding procedure suitable for the grade of steel and intended use or service is to be utilized. See Appendix X3 of Specification A6/A6M for information on weldability.

1.3 The values stated in either inch-pound units or SI units

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:*³

A6/A6M Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling

3. General Requirements for Delivery

SA-283/SA-283M

ASME BPVC.II.A-2017

SPECIFICATION FOR LOW AND INTERMEDIATE TENSILE STRENGTH CARBON STEEL PLATES



SA-283/SA-283M



[Identical with ASTM Specification A 283/A 283M-03(R07).]

1. Scope

1.1 This specification covers four grades (A, B, C, and D) of carbon steel plates of structural quality for general application.

1.2 When the steel is to be welded, a welding procedure suitable for the grade of steel and intended use or service is to be utilized. See Appendix X3 of Specification A 6/A 6M for information on weldability.

1.3 The values stated in either inch-pound units or SI units are to be regarded separately as the standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exactly equivalents, therefore each system is to be used independently of the other, with-

3.2 Coils are excluded from qualification to this specification until they are processed into finished plates. Plates produced from coil means plates that have been cut to individual lengths from a coil. The processor directly controls, or is responsible for, the operation involved in the processing of a coil into finished plates. Such operations include decoiling, leveling, cutting to length, testing, inspection, conditioning, heat treatment (if applicable), packaging, marking, loading for shipment, and certification.

NOTE 1 — For plates produced from coil and furnished without heat treatment or with stress relieving only, two test results are to be reported for each qualifying coil. Additional requirements regarding plate produced from coils are described in Specification A 6/A 6M.