DJS ASTM A6/A6M-17a: 2018
ICS 77.140.60

DRAFT
Jamaican Standard

Specification

for

General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling

BUREAU OF STANDARDS JAMAICA

This Jamaican National Standard is identical to ASTM A6/A6M-17a, Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling, Copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428, USA. Published and reprinted pursuant to license agreement with ASTM International.

COMMENT PERIOD: JULY 22, 2018 TO SEPTEMBER 22, 2018

IMPORTANT NOTICE

Jamaican standards are subjected to periodic review. The next amendment will be sent without charge if you cut along the dotted line and return the self-addressed label. If we do not receive this label we have no record that you wish to be kept up-to-date. Our address:

Bureau of Standards Jamaica
6 Winchester Road
P.O. Box 113
Kingston 10
Jamaica W.I.

----------(✂cut along the line)----------

DJS ASTM A6/A6M–17a: 2018

NAME OR DESIGNATION……..……

ADDRESS……..……..……

…….…….

……..

JBS CERTIFICATION MARK PROGRAMME

The general policies of the JBS Certification Mark Programme are as follows:

- The JBS provides certification services for manufacturers participating in the programme and licensed to use the gazetted JBS Certification Marks to indicate conformity with Jamaican Standards.

- Where feasible, programmes will be developed to meet special requirements of the submitter. Where applicable, certification may form the basis for acceptance by inspection authorities responsible for enforcement of regulations.

- In performing its functions in accordance with its policies, JBS will not assume or undertake any responsibility of the manufacturer or any other party.

Participants in the programme should note that in the event of failure to resolve an issue arising from interpretation of requirements, there is a formal appeal procedure.

Further information concerning the details of the JBS Certification Mark Programme may be obtained from the Bureau of Standards, 6 Winchester Road, Kingston 10.

CERTIFICATION MARKS

Product Certification Marks

Plant Certification Mark

BSJ/JAS PROGRAMME JAMAICAN PRODUCE

AUTHENTIC JAMAICAN PRODUCT JAMAICA-MADE

Jamaican Standard

Specification

for

General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling

Bureau of Standards Jamaica
6 Winchester Road
P.O. Box 113
Kingston 10
Jamaica W. I.
Tel: (876) 926 -3140-5, (876) 618-1534 or (876) 632-4275
Fax: (876) 929 -4736
E-mail: info@bsj.org.jm
Website: www.bsj.org.jm

Month 2018

ISBN XXX-XXX-XXX-XXX-X

Declared by the Bureau of Standards to be a standard method of test pursuant to section 7 of the Standards Act 1969.

First published Month 2018

This standard was circulated in draft form for comments under the reference DJS ASTM A6/A6M-17a: 2018.

Jamaican Standards establish requirements in relation to commodities, processes and practices, but do not purport to include all the necessary provisions of a contract.

The attention of those using this specification is called to the necessity of complying with any relevant legislation.

Amendments

No.	Date of Issue	Remarks	Entered by and date

Contents

NOTE

Informative Annex – gives additional information intended to assist in the understanding or use of the document. They do not contain requirements.

Normative Annex – gives provisions additional to those in the body of a document.
They contain requirements.

National foreword

This standard is an adoption of and is identical to ASTM A6/A6M – 17a Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling published by ASTM International.

Scope

1.1 This general requirements specification covers a group of common requirements that, unless otherwise specified in the applicable product specification, apply to rolled structural steel bars, plates, shapes, and sheet piling covered by each of the following product specifications issued by ASTM:

ASTM Designation	Title of Specification
A36/A36M	Carbon Structural Steel
A131/A131M	Structural Steel for Ships
A242/A242M	High-Strength Low-Alloy Structural Steel
A283/A283M	Low and Intermediate Tensile Strength Carbon Steel Plates
A328/A328M	Steel Sheet Piling
A514/A514M	High-Yield Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding
A529/A529M	High-Strength Carbon-Manganese Steel of Structural Quality
A572/A572M	High-Strength Low-Alloy Columbium-Vanadium Steel
A573/A573M	Structural Carbon Steel Plates of Improved Toughness
A588/A588M	High-Strength Low-Alloy Structural Steel, up to 50 ksi [345 MPa] Minimum Yield Point, with Atmospheric Corrosion Resistance
A633/A633M	Normalized High-Strength Low-Alloy Structural Steel Plates
A656/A656M	Hot-Rolled Structural Steel, High-Strength Low-Alloy Plate with Improved Formability
A690/A690M	High-Strength Low-Alloy Nickel, Copper, Phosphorus Steel H-Piles and Sheet Piling with Atmospheric Corrosion Resistance for Use in Marine Environments
A709/A709M	Structural Steel for Bridges
A710/A710M	Precipitation-Strengthened Low-Carbon Nickel-Copper- Chromium-Molybdenum-Columbium Alloy Structural Steel Plates
A769/A769M	Carbon and High-Strength Electric Resistance Forge- Welded Steel Structural Shapes
A786/A786M	Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates
A827/A827M	Plates, Carbon Steel, for Forging and Similar Applications
A829/A829M	Alloy Structural Steel Plates
A830/A830M	Plates, Carbon Steel, Structural Quality, Furnished to Chemical Composition Requirements
A857/A857M	Steel Sheet Piling, Cold Formed, Light Gage
A871/A871M	High-Strength Low-Alloy Structural Steel Plate With Atmospheric Corrosion Resistance

A913/A913M	High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-Tempering Process (QST)
A945/A945M	High-Strength Low-Alloy Structural Steel Plate with Low Carbon and Restricted Sulfur for Improved Weldability, Formability, and Toughness
A950/A950M	Fusion-Bonded Epoxy-Coated Structural Steel H-Piles and Sheet Piling
A992/A992M	Structural Steel Shapes
A1043/A1043M	Structural Steel with Low Yield to Tensile Ratio for Use in Buildings
A1066/A1066M	High-Strength Low-Alloy Structural Steel Plate Produced by Thermo-Mechanical Controlled Process (TMCP)

1.2 Annex A1 lists permitted variations in dimensions and mass (Note 1) in SI units. The values listed are not exact conversions of the values in Tables 1 to 31 inclusive but are, instead, rounded or rationalized values. Conformance to Annex A1 is mandatory when the "M" specification designation is used.

NOTE 1— The term "weight" is used when inch-pound units are the standard; however, under SI, the preferred term is "mass."

1.3 Annex A2 lists the dimensions of some shape profiles.

1.4 Appendix X1 provides information on coil as a source of structural products.

1.5 Appendix X2 provides information on the variability of tensile properties in plates and structural shapes.

1.6 Appendix X3 provides information on weldability.

1.7 Appendix X4 provides information on cold bending of plates, including suggested minimum inside radii for cold bending.

1.8 This general requirements specification also covers a group of supplementary requirements that are applicable to several of the above product specifications as indicated therein. Such requirements are provided for use where additional testing or additional restrictions are required by the purchaser, and apply only where specified individually in the purchase order.

Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ASTM Standards:

A131/A131M	Specification for Structural Steel for Ships
A370	Test Methods and Definitions for Mechanical Testing of Steel Products
A673/A673M	Specification for Sampling Procedure for Impact Testing of Structural Steel
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
A829/A829M	Specification for Alloy Structural Steel Plates
A941	Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys
E29	Practice for Using Significant Digits in Test Data to
E112	Test Methods for Determining Average Grain Size

E208	Test Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels

American Welding Society Standards:

A5.1/A5.1M	Mild Steel Covered Arc-Welding Electrodes
A5.5/A5.5M	Low-Alloy Steel Covered Arc-Welding Electrodes
A5.17/A5.17M	Specification For Carbon Steel Electrodes And Fluxes For Submerged Arc Welding
A5.18/A5.18M	Specification For Carbon Steel Electrodes And Rods For Gas Shielded Arc Welding
A5.20/A5.20M	Carbon Steel Electrodes For Flux Cored Arc Welding
A5.23/A5.23M	Low Alloy Steel Electrodes And Fluxes For Submerged Arc Welding
A5.28/A5.28M	Specification For Low-Alloy Steel Electrodes And Rods For Gas Shielded Arc Welding
A5.29/A5.29M	Specification for Low-Alloy Steel Electrodes for Flux Cored Arc Welding
D1.1/D1.1M	Structural Welding Code Steel

U.S. Military Standards:

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-163	Steel Mill Products Preparation for Shipment and Storage

U.S. Federal Standard:

Fed. Std. No. 123 Marking for Shipments (Civil Agencies)

American Society of Mechanical Engineers Code:

ASME	Boiler and Pressure Vessel Code, Section IX

This standard is compulsory.

Committee representation

The revision of this standard for the Standards Council, established under the Standards Act, 1969 was carried out under the supervision of the Building and Associated Materials Technical Committee, which at the time comprised the following members:

D Christie (Chairman)	Trelawny Aggregates Ltd.
C Laidlaw	Ministry of Transport and Mining
G Martin	Concrete Blocks and Aggregates Ltd.
H Chin	Jamaica Institutes of Engineers
K Strachan	Carib Cement
L Kelly	Incorporated Master Builders association of Jamaica
L Smith	Carib Cement
M Greaves	Tank Weld Ltd
P Jervis	Peter Jervis and Associates
P Shiner	Surrey Paving
T Givans	University of Technology, Jamaica
W Pena	Carib Cement
G Thomas	National Compliance and Regulatory Authority
J Steadford	National Compliance and Regulatory Authority

W Francis	Bureau of Standards Jamaica
J Jackson (Recording Secretary)	Bureau of Standards Jamaica
S Satchell-Knight (Facilitator)	Bureau of Standards Jamaica

Acknowledgment

Acknowledgement is made to ASTM International for permission to adopt ASTM A6/A6M–17a.