
DRAFT Jamaican Standard

Specification

for

High-Strength Low-Alloy Columbium-Vanadium Structural Steel



BUREAU OF STANDARDS JAMAICA

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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:

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DJS ASTM A572/A572M-15: 2018

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

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CERTIFICATION MARKS



Product Certification Marks



Plant Certification Mark



Certification of Agricultural Produce (CAP) Mark



Jamaica-Made Mark

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This standard was circulated in draft form for comments under the reference DJS ASTM A572/A572M-15: 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

	Page
National foreword	v
Acknowledgement	vi
1 Scope	1
2 Referenced Documents	1
3 General Requirements for Delivery	1
4 Materials and Manufacture	3
5 Chemical Composition	3
6 Mechanical Properties	3
7 Test Reports	3
8 Keywords	3
SUPPLEMENTARY REQUIREMENTS	3
Table 1 – Maximum Product Thickness or Size	2
Table 2 – Chemical Requirements (Heat Analysis)	2
Table 3 – Alloy Content	2
Table 4 - Tensile Requirements	3
SUMMARY OF CHANGES	4

DRAFT JAMAICAN STANDARD FOR PUBLIC COMMENT



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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 A572/A572M–15 Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel published by ASTM International.

Scope

1.1 This specification covers five grades of high-strength low-alloy structural steel shapes, plates, sheet piling, and bars. Grades 42 [290], 50 [345], and 55 [380] are intended for riveted, bolted, or welded structures. Grades 60 [415] and 65 [450] are intended for riveted or bolted construction of bridges, or for riveted, bolted, or welded construction in other applications.

1.2 For applications, such as welded bridge construction, where notch toughness is important, notch toughness requirements are to be negotiated between the purchaser and the producer.

1.3 Specification A588/A588M shall not be substituted for Specification A572/A572M without agreement between the purchaser and the supplier.

1.4 The use of columbium, vanadium, titanium, nitrogen, or combinations thereof, within the limitations noted in Section 5, is required; the selection of type (1, 2, 3, or 5) is at the option of the producer, unless otherwise specified by the purchaser.

(See Supplementary Requirement S90.)

1.5 The maximum thicknesses available in the grades and products covered by this specification are shown in Table 1.

1.6 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.

1.7 The values stated in either inch-pound units or SI units are to be regarded separately 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 is to be used independently of the other, without combining values in any way.

1.8 The text of this specification contains notes or footnotes, or both, that provide explanatory material. Such notes and footnotes, excluding those in tables and figures, do not contain any mandatory requirements.

1.9 For structural products 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 tests, of Specification A6/A6M apply.

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:

A6/A6M	Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling
A36/A36M	Specification for Carbon Structural Steel



- A514/A514M Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding
- A588/A588M Specification for High-Strength Low-Alloy Structural Steel, up to 50 ksi [345 MPa] Minimum Yield Point, with Atmospheric Corrosion Resistance

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 Bureau's 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
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G Thomas	National Compliance and Regulatory Authority
J Steadford	National Compliance and Regulatory Authority
W Francis	Bureau of Standards Jamaica
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Acknowledgment

Acknowledgement is made to ASTM International for permission to adopt ASTM A572/A572M–15: 2018.