
	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of High-Strength Low-Alloy Columbium-Vanadium Structural Steel as per ASTM A572	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5101 (IC)	رقم الوثيقة:	



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Approved by CQPSM	Authorized by CQPSM
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Issue Date	Rev. No.	Summary Of Amendments
26-04-2011	0	First draft for comments
29-05-2011	0	Final draft
30-05-2011	1	Issue for use
08-08-2011	2	Additional provision for re-sampling in case of failure
04-08-2015	3	The terminology is aligned with ISO/IEC 17067 for Type 1 certification and clause [3] added for the issuance of Type 1b certificate
09-04-2019	4	Updated format as per new DM template and logo
07-10-2022	5	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager).
18-04-2023	6	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and re-arrange, document title has been revised accordingly. Additional minor changes (highlighted). Use of New DM Logo.
04-07-2024	7	Changing the logo of the Government of Dubai with the latest design.

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## 1. INTRODUCTION AND SCOPE

- 1.1 This document prescribes the specific rule for certification of the product(s) as identified herein, in accordance with the requirements of DM Third Party Product Certification Scheme Through Type 1B , taking into consideration the applicable normative references and standard specification, in addition to the requirements for conformity evaluation, as stated below.
- 1.2 The applicant shall comply with these specific rules, and with those already mentioned in the **“General Rules for Type1 Product Certification Scheme” (DM-DCLD-RD-DP32-5001(IC))**.

## 2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 2.1 Product name: High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
- 2.1 Applicable standard/Normative reference: ASTM A572:13 Standard Specifications for High-Strength Low-Alloy Columbium-Vanadium Structural Steel

## 3. DEFINITION OF TERMS

The definitions given in DM-DCLD-RD-DP32-5001 shall apply.



## 4. GENERAL REQUIREMENTS FOR CERTIFICATION

- 4.1 The process of application of applicant/client, product sampling, fees and condition for issuance of the Type 1B certificate of conformity shall be in line with the related provisions in the general rule and the standard specifications.
- 4.2 Sampling and Testing
- 4.2.1 For detailed sampling procedure - Refer to related provisions in the general rules of the scheme.
- 4.2.2 For quantity of product to be certified that is more than 100 tons, separate applications shall be submitted for each batch of 100 tons. One sample shall be selected from each batch.
- 4.2.3 Based on the defined batch and the tests to be carried out as per clause [4.2.4], a “Sampling and testing plan” shall be prepared that will give details of the number of samples and the tests to be carried out on each selected sample. The applicant for certification shall agree to the sampling and testing plan.

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4.2.4 Tests to be carried out on each sample as per below table (The test shall be carried out at an independent laboratory, preferably at DCLD):

S/N	Properties to be Determined	Test Method	Requirements (Pass/Fail Criteria) as per the ASTM A572
1	Maximum thickness	-	As per Table 1
2	Chemical composition		
	Carbon	ASTM A751	As per Table 2
	Manganese	ASTM A751	As per Table 2
	Phosphorus	ASTM A751	As per Table 2
	Sulfur	ASTM A751	As per Table 2
	Silicon	ASTM A751	As per Table 2
	Columbium	ASTM A751	As per Table 3
	Vanadium	ASTM A751	As per Table 3
	Titanium	ASTM A751	As per Table 3
	Nitrogen	ASTM A751	As per Table 3
3	Mechanical properties		
	Yield	ASTM A370	As per Table 4
	Tensile	ASTM A370	As per Table 4
	Elongation	ASTM A370	As per Table 4

## 5. ISSUANCE OF TYPE 1B CERTIFICATE OF CONFORMITY

5.1 The COC shall be issued based on the related provisions in the general rules.

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