
 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Steel Sheet as per ASTM A653-15	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5117 (IC)	رقم الوثيقة :	

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Issue Date	Rev. No.	Summary of Amendments
06-06-2017	0	Draft for comments
09-07-2017	1	Issue for use
11-04-2019	2	Updated format as per new DM template and logo
07-10-2022	3	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager). Replace system by scheme
18-04-2023	4	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

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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: Steel Sheet
- 2.2 Applicable standard/Normative reference: ASTM A653/653M-15 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy- Coated (Galvannealed) by the Hot-Dip Process

## 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 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.
- 4.2.3 If the quantity of product to be certified is more than 100 tons, separate applications shall be submitted for each batch of 100 tons. One sample shall be selected from each batch.
- 4.2.4 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):

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S/N	Properties to be Determined	Test Method	Requirements (Pass/Fail Criteria) as per the SS
1	<b>Chemical composition</b>		
	Carbon	ASTM A924/A924M	As per Tables 2 & 3
	Manganese		As per Tables 2 & 3
	Phosphorus		As per Tables 2 & 3
	Sulfur		As per Tables 2 & 3
	Aluminum		As per Tables 2 & 3
	Copper		As per Tables 2 & 3
	Nickel		As per Tables 2 & 3
	Chromium		As per Tables 2 & 3
	Molybdenum		As per Tables 2 & 3
	Vanadium		As per Tables 2 & 3
	Columbium		As per Tables 2 & 3
	Titanium		As per Tables 2 & 3
	Nitrogen		As per Tables 2 & 3
	Boron		As per Tables 2 & 3
2	<b>Mechanical properties</b>		
	Yield	ASTM A924/A924M	As per Tables 4 & 5
	Tensile	ASTM A924/A924M	As per Tables 4 & 5
	Elongation	ASTM A924/A924M	As per Tables 4 & 5
3	<b>Coating properties</b>		
	Coating weight [mass]	ASTM A90/A90M	Table 1
	Coating Bend Test	ASTM A924/A924M	Table 6
4	<b>Supplementary Requirements</b>		
	S.1 Base Metal Thickness	ASTM A568/A568M	Tables 15 and A1.12 Thickness Tolerances for Cold Rolled Sheet (all designations) -1 in [25-mm] Minimum Edge Distance and Tables S1.3 and S1.6 Thickness Tolerances for Cold Rolled (All Designations) - 3/8-in. [10-mm] Minimum Edge Distance
	S.2 Single Spot / Single Side Coating Mass	ASTM A90/A90M	Table S2.1

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## 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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