

 GOVERNMENT OF DUBAI	Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية: التنظيمية	 بلدية دبي DUBAI MUNICIPALITY
	Document Title: Type 1B Specific Rules for Steel as per ASTM A653-15	عنوان الوثيقة: الوثيقة	
	Doc Ref. DM-DCLD-RD-DP32-5117 (IC)	رقم الوثيقة : الوثيقة	

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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

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1. GENERAL

This document is a Specific Rule for a Type 1b certification of the product covered by the Standard Specification / Regulation defined herewith. The Type 1b certification system is in accordance with ISO/IEC 17067 and as described in DM-DCLD-RD-DP32-5001 (IC) General rules for Type 1 product certification

2. CERTIFICATION REQUIREMENTS

2.1 Standard Specification (SS)

Standard Specification No.	ASTM A653/653M-15
Title of Standard Specification	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy- Coated (Galvannealed) by the Hot-Dip Process

2.2 Tests to be carried out on each sample (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 SS
1	Chemical composition	ASTM A924/A924M	
	Carbon		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	

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	Nitrogen		As per Tables 2 & 3
	Boron		As per Tables 2 & 3
2	Mechanical properties		
	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	Coating properties		
	Coating weight [mass]	ASTM A90/A90M	Table 1
	Coating Bend Test	ASTM A924/A924M	Table 6
4	Supplementary Requirements		
	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

* NOTE 1 The acceptance limit shall be in accordance with reference standard

2.3 Sampling

- 2.3.1 The population of the product (batch) shall be defined prior to sampling. The members of the batch shall be of uniform physical description (i.e. same size shape, dimensions, etc.) and shall be distinctly identified by any appropriate means (For example: by batch number, quantity, location, heat number, markings, dimensions, etc. or a combination of them).
- 2.3.2 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.
- 2.3.3 Based on the defined batch and the tests to be carried out as per clause [2.2], the Certification Body shall prepare a "Sampling and testing plan" 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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- 2.3.4 The sampling and testing plan shall take guidance from RD-DP32-5003 (IC) “Guidance for preparing sampling and testing plan”; and shall be prepared in such manner that will provide highest confidence that the sample represents the entire population of product being certified.
- 2.3.5 In case the sample fails to meet the requirements, the applicant may request for re-sampling and re-testing from the same batch of product/s, in accordance with the agreed sampling plan. If the new sample again fails to meet the requirements, the product shall be considered non-conforming and no certificate shall be issued.

3. ISSUANCE OF TYPE 1B CERTIFICATE

- 3.1 The Type 1b certificate shall be issued only when all results are meeting all the requirements as mentioned in clause [2.2].
- 3.2 The certificate is applicable only to the lot or batch of product defined and identified as per clause [2.3.1] and [2.3.2]. It does not apply to the entire production of the factory.
- 3.3 The Type 1b certificate is valid for 1 year only.
- 3.4 The Type 1b certificate shall be issued upon payment of fees in accordance with RD-DP32-5002 (IC).

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