


 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b> 	 بلدية دبي Dubai Municipality
	<b>Document Title:</b> Certification of Steel Bars for Concrete Reinforcement as per ASTM A1035-2015	<b>عنوان الوثيقة:</b> 	
	<b>Doc Ref.</b> DM-DCLD-RD-DP21-2168 (IC)	<b>رقم الوثيقة :</b> 	

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Issue Date	Rev. No.	Summary Of Amendments
29-04-2008	0	First draft for comments
07-05-2008	0	Final draft
12-05-2008	1	Issue for use
16-08-2009	2	Document reference number and format is changed according to the new IMS, statement for the independent testing plan was changed, and the statement for surveillance was shortened by referring the appropriate procedure, RD-DP21-2096 (IC).
05-05-2010	3	Re issue to modify clause 7.1.3; change the number of samples for testing from 15 to 10 pieces
12-08-010	4	Re issue to incorporate the following: Revision on the current version of the standard (2009); Amended as per new documentation structure; and Specifying clearly the Factory Production Control Scheme (Internal Product Quality Assurance Plan)
22-01-2012	5	Reviewed with the requirements of the current version of the standard (2011) and found to be still suitable. Change the document number of documents upgraded to IMS. Reviewed with the requirements of the current version of the standard (2015) and identification of the type of steel alloy: CL, CM, CS as per the new version of the standard.
04-10-2015	6	Updated format as per new DM template and new DM logo
04-08-2020	7	Add the options for initial audit by the approved CAB and remotely by PCAS. Adding definition for authorized auditor. Update for the new numbering system and followed terminologies. Add provision for accepting valid test reports
26-09-2021	8	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports ( clause 2.4.1.4), in line with DM 30% reduction of requirements (both service and specialized). Modifications in the auditing part for the factories already certified against ISO 9001 to opt for auditing only the areas of production and monitoring stages of product realization, quality control and final product testing and evaluation.
07-10-2022	9	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.1.4 and correction of cause numbers under 2.4.2.6.
27-03-2023	10	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Use of New DM Logo

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## 1. INTRODUCTION

- 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 Factory Assessment, 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/client shall comply with this specific rule, and to all provisions under the “**General Rule for DM Third Party Product Certification Scheme Through Factory Assessment**”**DM-DCLD-RD-DP21-2001 (IC)**.
- 1.3 This specific rule **is an integral part of the general rule** and both shall always be read together.

## 2. SCOPE

- 2.1 These specific rules covers low carbon, chromium, steel bars, deformed and plain carbon for concrete reinforcement in cut lengths and coils. Bars covered are of two minimum yield strength levels: 1.) 100 000 psi (690 MPa) & 2.) 120 000 (830 MPa); designated as Grade 100 (690), Grade 120 (830) respectively.
- 2.2 Bars are furnished to three different chemical compositions, designated as Alloy Type CL, CM, and CS
- 2.3 This specific rule does not -by itself- permit the use of the below product in the construction sites. However, it does provide the necessary general conformity assessment criteria, which are required for the evaluation and issuance of the certification and the authorization of the use of the DCLD Conformity Mark. Other relevant requirements issued by the regulatory bodies if any; shall always be fulfilled.

## 3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 3.1 Product name: Deformed and Plain, Low-carbon, Chromium, Steel Bars for Concrete Reinforcement.
- 3.2 Applicable standard/Normative reference: ASTM A 1035/ A 1035M - 15 – Standard Specification for Deformed and Plain, Low-carbon, Chromium, Steel Bars for Concrete Reinforcement
- 3.3 Additional reference:  
ISO 9001 Quality Management System – Requirements  
ISO 19011 Guidelines for Auditing Management Systems

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#### 4 DEFINITION OF TERMS

4.1 In addition to the definitions given in ASTM A 1035/ A 1035M and the General Rule of the scheme [DM-DCLD-RD-DP21-2001 (IC)], the following shall apply:-

4.1.1 Standard Specification – ASTM A 1035/ A 1035M - 15 – Standard Specification for Deformed and Plain, Low-carbon, Chromium, Steel Bars for Concrete Reinforcement

#### 5 REQUIREMENTS FOR INITIAL CERTIFICATION

5.1 The process of application, initial assessment and product sampling shall be in line with the related provisions in the general rule and the standard specifications.

5.2 The factory shall have a laboratory with the following testing equipment as a minimum:

- Calipers and other linear measuring test equipments
- Weighing Scale (with an accuracy of 100 grams)
- Chemical Analyzer
- Tensile Test Equipment
- Bend Test Equipment

5.3 The client shall have an internal product quality assurance plan giving details of the tests to be carried out at the Factory. Frequency of sampling and testing shall be in accordance with clause 13 of the standard specification.

##### 5.4 Bar Marking Requirements

The manufacturer of reinforcing steel bars and coils shall submit to Dubai Central Laboratory Department – Certification And Quality Control Of Products Section – (DCLD-CQPS) a unique bar marking requirements of their products for approval. The approved mark shall be applied to the products covered by the certification.

Product Marking shall be as per the Rules on the Markings and Tags of Steel Bars, DM-DCLD-RD-DP21- 2091 (IC). The bars shall be rolled from properly identified heats of mold-cast or strand-cast steel. The steel shall be made by any commercially accepted process what do we mean by commercially accepted process.

##### 5.5 Product Evaluation and testing


###### 5.5.1 Chemical Composition

5.5.1.1 Chemical Analysis of each heat shall be determined in accordance with ASTM A 751 or any equivalent standard.

5.5.1.2 Percentages of carbon, manganese, phosphorus, sulfur, silicon, chromium and nitrogen shall be determined and values shall comply with clause 6.2 of the standard specification.

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- 5.5.2 Tensile Requirements – Tensile test shall comply with the requirements specify in section 9 of the standard specification.
- 5.5.3 Bending Requirements- Bending test shall comply with the requirements specified in section 10 of the standard specification.
- 5.5.4 Variation in Weight (Mass) – Deformed reinforcing bars shall be evaluated on the basis of nominal weights (mass) and permissible variation shall be in compliance with section 11 of the standard specification.
- 5.5.5 Finish and appearance shall comply with the requirements specified in section 12 of the standard specification.
- 5.5.6 Deformation Requirements – Deformation requirements and measurements – deformation of steel bars products shall comply with the requirements specified under section 7 while measurement of deformation shall be in accordance with section 8 of the standard specification.
- 5.5.7 The results of testing must meet the requirements as per the standard specification.

## 6 GRANTING OF THE DCLD CERTIFICATION

- 6.1 The DCLD product conformity certificate and the authorization to use the DCLD conformity mark shall be granted upon conformance with all related provisions in the general rule.
- 6.2 Fees shall be as per DM-DCLD-RD-DP21-2092 (IC) and other relevant provisions in the general rule.
- 6.3 DCLD-CQPS shall carry out surveillance of certified clients based on the approved periodic plans and related provisions in the general rule.
- 6.4 Appeals, disputes and complaints shall be in line with the relevant provisions in the General Rule.

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