

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Steel for Reinforcement of Concrete as per ISO 6935-2: 2019	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2181 (IC)	رقم الوثيقة :	

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Issue Date	Rev. No.	Summary Of Amendments
27-12-2012	0	First draft for comments
06-01-2013	0	Final draft
09-01-2013	1	Issue for use
26-02-2017	2	Reviewed with the requirements of the current version of the standard (ISO 6935-2: 2015) and found to be still suitable. Likewise, change the name of the section from Inspection and Certification Section to Products Conformity Assessment Section and the licensee by client.
11-03-2019	3	Updated format as per new DM template and new DM logo
11-05-2020	4	Revised to align with the new version of standard ISO 6935-2:2019 In addition to some editorial changes as per the new numbering Scheme and Terminologies.
21-07-2020	5	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. Correction of numbering. Add provision for accepting valid test reports
26-09-2021	6	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.2.4), 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.
04-10-2022	7	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager). Adding surveillance under 2.4.2.4
27-03-2023	8	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 This specific rule covers requirements for ribbed steel bars for reinforcement of concrete. It cover thirteen steel grades not intended for welding which are B300A-R, B300B-R, B300C-R, B300D-R, B400A-R, B400B-R, B400C-R, B500A-R, B500B-R, B500C-R, B600A-R, B600B-R & B600C-R, and thirteen steel grades intended for welding which are B300DWR, B350DWR, B400AWR, B400BWR, B400CWR, B400DWR, B420DWR, B450AWR, B450CWR, B500AWR, B500BWR, B500CWR & B500DWR. The steel grades are designated with steel names allocated in accordance with ISI/TS 4949. This part of 6935 covers products delivered in straight lengths.
- 2.2 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: Steel for the reinforcement of concrete- Ribbed bars
- 3.2 Applicable standard/Normative reference: ISO 6935-2:2019 – Steel for the reinforcement of concrete- Part 2 : Ribbed bars
- 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 SO 6935-2 and the General Rule of the scheme [DM-DCLD-RD-DP21-2001 (IC)], the following shall apply:-

4.1.1 Standard Specification – ISO 6935-2:2019 – Steel for the reinforcement of concrete- Part 2 : Ribbed bars.

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 equipment's
- Weighing Scale (with an accuracy of 100 grams)
- Chemical Analyzer
- Tensile Test Equipment
- Bend Test Equipment

5.3 Bar Marking Requirements

The manufacturer of reinforcing steel 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.

5.4 Product Evaluation and testing

5.4.1 The product shall conform to the requirements as specified in clauses 5, 6, 7, 8, 10 and 11 of the standard specification.

5.4.2 Tests to be carried out in accordance with the standard specification requirements (refer also to clause 9) and shall have values as follow;

5.4.2.1 Dimensions, mass per unit length and permissible deviation shall be as per Table 2.

5.4.2.2 Nominal length shall not deviate by +100 mm and no negative tolerance or as agreed at the time of enquiry and order.

5.4.2.3 Rib requirements shall conform to table 3 and clause 6.

5.4.2.4 Chemical composition as stated in clause 7 , shall be as per Table 4 (cast analysis) and table 5 (product analysis). Note: ASTM E:415:2005 may be used in determining the chemical analysis

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5.4.2.5 Tensile requirements shall be as per table 6 and clause 8.1 of the standard specifications.

5.4.2.6 Bending and Rebending as described under clause 8.2 and 8.3 and tested as per 9.3 and 9.4 shall show neither rupture nor cracks visible to a person of normal or corrected vision.

5.4.2.7 Fatigue strength shall comply with clause 8.4 and 9.5 of the standard specification. However, previously carried out Fatigue Tests by a laboratory that meets the requirements of DM-DCLD-RD-IC-0003, maybe accepted by the DCLD-CQPS, if available.

5.4.3 Marking of steel bars and bundles shall be as per clause 11 of the standard specifications and the DCL Approved Steel Bar Marking attached on every DCL certificate & scope of certification (after DCL certification had been granted).

5.4.4 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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