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|  GOVERNMENT OF DUBAI | Organization/Unit: | إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: |  بلدية دبي Dubai Municipality |
| | Document Title: | Certification of Steel Fabric for Reinforcement of Concrete as per BS 4483: 2005 Amd No. 1 | عنوان الوثيقة: | |
| | Doc Ref. | DM-DCLD-RD-DP21-2191 (IC) | رقم الوثيقة: | |

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| Issue Date | Rev. No. | Summary Of Amendments |
|------------|----------|---|
| | 0 | First draft for comments |
| 11-07-2015 | 0 | Final draft |
| 12-06-2016 | 1 | Issue for use |
| 23-06-2016 | 2 | Added reference to Fee Structure in clause [5]. |
| 11/11/2017 | 3 | Updated format as per new DM template and new DM logo |
| 24/03/2019 | 4 | Add the options for initial audit by the approved CAB and remotely by DCLD-CQPS. Adding definition for authorized auditor. Update for the new numbering system and followed terminologies. Add provision for accepting valid test reports |
| 04/08/2020 | | |
| 26/09/2021 | 5 | Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.4), 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 | 6 | Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager). Adding surveillance in 2.4.4 |
| 27/03/2023 | 7 | 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 specifies the requirements for factory-made machine-welded steel fabric for the reinforcement of concrete, manufactured from weldable reinforcing steel conforming to BS 4449:2005 or manufactured from wire conforming to BS 4483: 2005 Amd No. 1.
- 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 Fabric for the Reinforcement of Concrete
- 3.2 Applicable standard/Normative reference: BS 4483: 2005 Amd No. 1 - Steel fabric for the reinforcement of concrete - Specification
- 3.3 Additional reference:
- ISO 9001 - Quality Management System – Requirements
- ISO 19011 - Guidelines for Auditing Management System.

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4 DEFINITION OF TERMS

4.1 In addition to the definitions given in BS 4483: 2005 Amd No. 1 and DM-DCLD-RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS 4483: 2005 Amd No. 1 - Steel fabric for the reinforcement of concrete - Specification

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:

- Tensile
- Bend
- Dimension
- Geometry (if applicable)
- Shear force of welded joint

5.3 Product Evaluation and testing

5.3.1 Chemical Composition

All elements listed in BS 4449:2005 or BS 4482, as appropriate, and the carbon equivalent shall be determined. The chemical composition of the bars shall conform to the requirements of BS 4449:2005.

5.3.2 Mechanical Properties

Note: All bars shall be free from defects such as seams, porosity, segregation and metallic inclusions, which can adversely affect the mechanical properties.

- Tensile properties of the bars shall comply with the characteristic values specified in Table 4 of Standard Specification.
- Bend Performance as per 7.2.5 of the Standard Specification shall show no sign of fractures or cracks visible to a person of normal or corrected vision.
- Dimensions, mass per meter and tolerances shall comply with the requirements as specified in section 7.3 of the Standard Specification.
- Geometry of the bars shall comply with the requirements of BS 4449:2005.

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5.4 Factory Production Control System (Internal Product Quality Assurance Plan)

5.4.1 The client shall prepare and submit to DCLD-CQPS for approval of an internal product quality assurance plan giving details of the tests to be carried out at the factory. This will include as a minimum, the following details: (1) location of sampling; (2) frequency of sampling; (3) quantities of samples; (4) tests to be carried out; (5) results acceptance criteria; and (6) responsible person to carry out the activity

5.4.2 The plan shall take into consideration the production process, the volume of production, the criticality of the test to be specified, and other relevant factors

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-DP21-2079 (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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