

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of carbon-steel wire and welded wire reinforcement to be used for the reinforcement of concrete as per ASTM A1064/A1064M – 22	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2221 (IC)	رقم الوثيقة :	

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Issue Date	Rev. No.	Summary Of Amendments
15-08-2023	0	First draft
21-09-2023	0	Final draft for approval
26-09-2023	1	Issue for use
12-02-2024	2	Revised the fee structure from DM-DCLD-RD-DP21-2097 (IC) to DM-DCLD-RD-DP21-2079 (IC) in clause 6.2.

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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 rules** and both shall always be read together.

2. SCOPE

- 2.1 This specific rule covers carbon-steel wire and welded wire reinforcement produced from hot-rolled rod to be used for the reinforcement of concrete. The steel wire is cold-worked, Drawn or rolled, plain (non-deformed, as-drawn or galvanized), or deformed. Welded wire reinforcement is made from plain or deformed wire, or a combination of plain and deformed wire. Common wire sizes and dimensions are given in the standard.
- 2.2 It contains provisions for six grades, for SizeW1.2 (MW 7.7) and larger and one Grade for size smaller than W1.2 (MW 7.7) based on Tension Test Requirement's in Table 5 of the standard specification. Also it contain Five grades for Plain wire based on Tension Test Requirement's in Table 6 of the standard specification.
- 2.3 The nominal wire diameter (size) range specified in Table 2 (Plain Wire) and Table 4 (Dimensional Requirements for Deformed Wire)
- 2.4 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: Carbon-steel wire and welded wire reinforcement

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- 3.2 Applicable standard/Normative reference: ASTM A1064/A1064M – 22
Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete

- 3.3 Additional reference:
ISO 9001 Quality Management System – Requirements
ISO 19011 Guidelines for Auditing Management Systems

4 DEFINITION OF TERMS

In addition to the definitions given in ASTM A1064/A1064M – 22 and the General Rule of the scheme [DM-DCLD- RD-DP21-2001 (IC)], the following shall apply:-

Standard Specification – ASTM A1064/A1064M – 22 – Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete

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 manufacturer of steel wire for the reinforcement of concrete shall submit to DCLD a unique bar marking requirements as per Section 15 of the standard , of their products for approval. The DCLD approved mark shall be applied to the products covered by the certification.
- 5.3 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
- 5.4 Internal product quality assurance plan
- 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 table 5 of the standard specification.

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5.5 Product Evaluation and testing

5.5.1 The product shall conform to the requirements as specified in clauses 5, 6, 7, 8, 9, 10, and 11 of the standard specification.

5.5.2 Tests to be carried out in accordance with ASTM A1064/A1064M – 22 requirements and shall have values as follows;

5.5.2.1 Mechanical properties (Tensile, Yield and Reduction of area shall be

as per clause 7.0 and 8.0, and Table 5, 6, 9 & 10 of the standard specification

5.5.2.2 Bend performance shall be as per clause 7.0 and Table 7 & Table 11 of the standard specification

5.5.2.3 Dimensions (Nominal dimensions and Deformation Requirements) and tolerances shall be as per Table 2 (plain wire) and Table 4 (deformed wire), and as per clause 10 (welded wire) of the standard Specification.

5.5.2.4 The permissible variation in plain wire diameter shall conform to the requirements in Table 8 of the standard specification.

5.5.2.5 The Weld Shear Strength shall conform to the requirements in clause 8.3 of the standard specification.

5.5.3 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-DP21-2079 (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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