

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b> 	 إمارة دبي Dubai Municipality
	<b>Document Title:</b> Certification of Steel Fibres for Concrete as per EN 14889-1: 2006	<b>عنوان الوثيقة:</b> 	
	<b>Doc Ref.</b> DM-DCLD-RD-DP21-2203 (IC)	<b>رقم الوثيقة:</b> 	

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Issue Date	Rev. No.	Summary Of Amendments
20-12-2017	0	First draft for comments
16/01/2018	1	Issue for use
26/03/2019	2	Updated format as per new DM template and new DM logo
06/09/2020	3	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	4	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports ( clause 2.4.2.5 ), 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	5	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.2.5
27/03/2023	6	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 Steel Fibres for Concrete.
- 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 Fibre for Concrete
- 3.2 Applicable standard/Normative reference: As per BS EN 14889-1:2006 for Steel Fibres — Definitions, specifications and conformity
- 3.3 Additional reference:  
ISO 9001 - Quality Management System – Requirements  
ISO 19011 - Guidelines for Auditing Management System.

## 4 DEFINITION OF TERMS

4.1 In addition to the definitions given in BS EN 14889-1:2006 and DM-DCLD RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS EN 14889-1:2006 for Steel Fibres — Definitions, specifications and conformit

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## 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
  - Weighing Scale
- 5.3 Product Evaluation and testing
- 5.3.1 The tests The tests to be carried out shall cover the following required tests as mentioned in sections 5 and 6 of the Standard Specification:
- Shape as per 5.1.b of the Standard Specification
  - Dimensions and tolerances as per 5.2 of the Standard Specification
  - Tensile strength as per 5.3 of the Standard Specification
  - Modulus of elasticity as per 5.4 of the Standard Specification
  - Ductility as per 5.5 of the Standard Specification
  - Effect on consistence of concrete as per 5.7 of the Standard Specification – *Concrete Performance Evaluation*
  - Effect on strength of concrete as per 5.8 of the Standard Specification – *Concrete Performance Evaluation*
- 5.3.2 The steel fibres shall conform to one of the groups or one of the shapes listed under section 5.1 - (a) and (b) of the standard specifications BS EN 14889-1:2006.
- 5.3.3 Company Declaration: The manufacturer/applicant shall submit to Dubai Central Laboratory declaration on the below:
- Fibre coating, if applicable as per 5.1.b of the Standard Specification
  - Release of dangerous substances as per 5.9 of the Standard Specification
- 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

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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-DP21-2074 (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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