

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Rendering and Plastering Mortar (as per BS EN 998-1:2016)	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2193 (IC)	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
16/08/2015	0	First draft for comments
05/06/2016	0	Second draft for comments
27/08/2016	1	Issue for use
10/01/2018	2	Reflect technical committee comments for reaction to Fire and durability tests requirements. Correction in Clause 6 Fee Schedule
29/08/2018	3	Updated as per new DM logo
24/03/2019	4	New amendment as per BS EN998-1:2016 standard, changing font type and some editorial changes
25/03/2020	5	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.
04/08/2020	6	Add provision for accepting valid test reports
26/09/2021	7	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports ( clause 2.4.3), 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	8	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager). Adding surveillance in 2.4.3
27/03/2023	9	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 certifying of rendering and plastering mortar, including in factory made rendering/plastering mortar based on inorganic binders for external (rendering) and internal (plastering) use on walls, ceilings, columns and partitions.
- 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.
- 2.3 It does not cover mortars where calcium sulphate binder is the principle active binding agent.
- 2.4 Special fire resistant- and acoustical mortars, mortars for structural repair and surface treatments of building elements such as materials for smoothing or trueing, paints, coatings, thin-layer organic renders/plasters and prefabricated units (e.g. plasterboards) are not covered in this specific rule.

## 3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 3.1 Product name: Rendering and Plastering Mortar
- 3.2 Applicable standard/Normative reference: BS EN 998-1:2016 - Specification for mortar for masonry Rendering and plastering mortar.
- 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 EN 998-1:2016 and DM-DCLD-RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS EN 998-1:2016 – Specification for mortar for masonry (Rendering and plastering mortar)

## 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:

- Dry bulk density
- Compressive strength
- Adhesion
- Adhesion after weathering cycles
- Capillary water absorption (for mortar used externally)
- Water penetration after capillary water absorption
- Water permeability on relevant substrates after weathering cycles ( after 48 h)
- Water vapor permeability coefficient  $\mu$  for mortars intended to be used in external elements
- Thermal Conductivity (for mortars intended to be used in elements subject to thermal requirements)
- Reaction to fire ( if applicable and according to clause 5.2.2 of BS EN 998-1:2016 standard)
- Durability (If applicable )

### 5.3 Product Evaluation and testing

Referring to Table 2 of the Standard Specifications (EN 998-1: 2016) and the Type classification of product to be certified, all applicable tests shall be carried out as per test methods mentioned below:

- 5.3.1 Dry bulk density as per EN 1015-10
- 5.3.2 Compressive strength as per EN 1015-11
- 5.3.3 Adhesion as per BSEN 1015-12
- 5.3.4 Adhesion after weathering cycles as per EN 1015-21
- 5.3.5 Capillary water Absorption (for mortars intended to be used in external elements) as per BS EN1015-18
- 5.3.6 Water penetration after capillary water absorption test (in mm) as per BS EN1015-18
- 5.3.7 Water permeability on relevant substrates after weathering cycles (ml/cm<sup>2</sup> after 48 h) as per BS EN 1015-21.

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- 5.3.8 Water vapour permeability coefficient  $\mu$  (for mortars intended to be used in external elements) as per EN1015-19<sup>a</sup><sub>b</sub>
- 5.3.9 Thermal conductivity mean  $\lambda_{10,dry,mat}$  -values (W/m-°K) c (for mortars intended to be used in elements subject to thermal requirements) According to BS EN 1745:2002, Table A.12
- 5.3.10 Reaction to Fire (Class) according to clause (5.2.2) of BS EN 998-1:2016 standard, if applicable
- 5.3.11 Durability if applicable to be evaluated as per clause [5.2.3] of BS EN 998-1:2016 standard

#### 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-DP21-2074 (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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