

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Mortar for Masonry as per BS EN 998-2:2016)	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2206 (IC)	رقم الوثيقة:	

Table of Contents

REVISION HISTORY	2
INTRODUCTION	3
SCOPE.....	3
PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE	3
DEFINITION OF TERMS	4
REQUIREMENTS FOR INITIAL CERTIFICATION	4
GRANTING OF THE DCL CERTIFICATION AND FEES	6

Approved by CQPSM	Authorized by CQPSM
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General / عام : Level of Confidentiality / درجة السرية	Page 1 of 6

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 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
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Issue Date	Rev. No.	Summary Of Amendments
09/05/2018	0	First draft for comments
11/07/2018	1	Issue for use
26/03/2019	2	Updated format as per new DM logo
04/08/2020	3	Add the options for initial audit by the approved CAB and remotely by CQPS. 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 2.4.2.3), 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	5	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager)
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

Approved by CQPSM	Authorized by CQPSM
Date of Issue : 27/03/2023	Rev. No. : 06
General / عام : Level of Confidentiality / درجة السرية	Page 2 of 6

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 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
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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 masonry mortars (bedding, jointing and pointing) for use in concrete walls, columns and partitions (e.g. facing and rendered masonry, load bearing or non-loading bearing masonry structure for buildings and civil engineering works).
- 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: Masonry Mortar
- 3.2 Applicable standard/Normative reference: BS EN 998-2:2016 Specification for Mortar for Masonry
- 3.3 Additional reference:
- ISO 9001 - Quality Management System – Requirements
- ISO 19011 - Guidelines for Auditing Management System.

Approved by CQPSM	Authorized by CQPSM
Date of Issue : 27/03/2023	Rev. No. : 06
General / عام : Level of Confidentiality / درجة السرية	Page 3 of 6

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بيانات مفتوحة / OPEN DATA

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:
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	Doc Ref.	DM-DCLD-RD-DP21-2206 (IC)	رقم الوثيقة:
			

4 DEFINITION OF TERMS

4.1 In addition to the definitions given in BS EN 998-2:2016 and DM-DCLD-RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS EN 998-2:2016 Specification for Mortar for Masonry

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:

For fresh mortar :

- Workable life accordance to EN 1015-9
- Chloride content accordance to EN 1015-17 (maximum 0,1%)
- Air content accordance to EN 1015-7

For Hardened Mortar :

- Compressive strength accordance to EN 1015-11
- Shear bond strength accordance to EN 1052-3
- Flexural bond strength accordance to EN 1052-5
- Water absorption accordance to EN 1015-18
- Water vapor permeability shall be declared according to EN 1745:2012 table A.12
- Density (dry hardened mortar) accordance to EN 1015-10
- Thermal Conductivity shall be declared according to EN 1745:2012 table A.12 for Normal weight and for light weight will be according to EN 1745:2012 clause 4.2.2 .
- Reaction to fire (if applicable and according to clause 5.4.8 of BS EN 998-2:2016 standard)
- Durability (If applicable).

5.3 Proportion of constituents :

For prescribed mortars, the mix proportions by volume or by weight of all the constituents shall be declared by the manufacture as per relevant standard requirements.

5.4 Designation of Masonry mortar shall be accordance to clause 6 of this standard

Approved by CQPSM	Authorized by CQPSM
Date of Issue : 27/03/2023	Rev. No. : 06
General / عام : Level of Confidentiality / درجة السرية	Page 4 of 6

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	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:
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5.5 Product Evaluation and testing

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

For fresh mortar :

- Workable life accordance to EN 1015-9
- Chloride content accordance to EN 1015-17 (maximum 0,1%)
- Air content accordance to EN 1015-7

For Hardened Mortar :

- Compressive strength accordance to EN 1015-11
- Shear bond strength accordance to EN 1052-3
- Flexural bond strength accordance to EN 1052-5
- Water absorption accordance to EN 1015-18
- Water vapor permeability shall be declared according to EN 1745:2012 table A.12
- Density (dry hardened mortar) accordance to EN 1015-10
- Thermal Conductivity shall be declared according to EN 1745:2012 table A.12 for Normal weight and for light weight will be according to EN 1745:2012 clause 4.2.2.
- Reaction to fire (if applicable and according to clause 5.4.8 of BS EN 998-2:2016 standard)
- Durability (If applicable)

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

5.6.1 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

5.6.2 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

Approved by CQPSM	Authorized by CQPSM
Date of Issue : 27/03/2023	Rev. No. : 06
General / عام : Level of Confidentiality / درجة السرية	Page 5 of 6

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OPEN DATA / بيانات مفتوحة

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
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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.

Approved by CQPSM	Authorized by CQPSM
Date of Issue : 27/03/2023	Rev. No. : 06
General / عام : Level of Confidentiality / درجة السرية	Page 6 of 6

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