

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Exterior Solar Radiation Control Coatings as per ASTM C1483-04	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2118 (IC)	رقم الوثيقة :	

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Issue Date	Rev. No.	Summary Of Amendments
07/12/2005	0	Final draft for comments
01/04/2006	1	Issue for use
14/06/2010	2	Reviewed with the requirements of the current version of the standard and found to be still suitable. Document reference number and format is changed according to the new IMS.
25/03/2019	3	Updated format as new DM template and new DM logo
09/08/2020	4	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	5	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.2.3), 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.
07/10/2022	6	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.2.3
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 mineral wool thermal insulation products in the form of blanket, with or without facings intended for light frame construction and manufactured housing.
- 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: Exterior Solar Radiation Control Coating
- 3.2 Applicable standard/Normative reference: ASTM C 1483-04 Standard Specification for Exterior Solar Radiation Control Coatings on Buildings
- 3.3 Additional reference:
ISO 9001 Quality Management System – Requirements
ISO 19011 Guidelines for Auditing Management Systems

4 DEFINITION OF TERMS

- 4.1 In addition to the definitions given in ASTM C 168, ASTM C 1483, ASTM E 349 and the General Rule of the scheme [DM-DCLD-RD-DP21-2001 (IC)], the following shall apply:-
- 4.1.1 Standard Specification – ASTM C 1483-04 Standard Specification for Exterior Solar Radiation Control Coatings on Buildings.

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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:
- Weighing Scale.
 - Dimensional measuring instrument
- 5.3 Product Evaluation and testing
- 5.3.1 The tests to be carried out shall be in accordance with the Test Methods mentioned in section 8 of the Standard Specification as follows, when applicable;
- 5.3.1.1 Total Solids (by weight) as per ASTM C 461
 - 5.3.1.2 Solids Volume as per ASTM D 2697
 - 5.3.1.3 Solar Reflectance as per ASTM E 903 or ASTM E 1175
 - 5.3.1.4 Total Hemispherical Emittance as per ASTM C 1371
 - 5.3.1.5 Elongation as per ASTM D 2370 and ASTM G 155
 - 5.3.1.6 Adhesion as per ASTM D 903
 - 5.3.1.7 Water Vapor Permeance as per ASTM E 96
 - 5.3.1.8 Flammability as per ASTM E 84
 - 5.3.1.9 Fungi Resistance as per ASTM D 3274
 - 5.3.1.10 Water Absorption as per ASTM D 471
 - 5.3.1.11 Cured Samples Thickness as per ASTM G 419
 - 5.3.1.12 Outdoor Durability as per ASTM G 26
- 5.4 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-DP21-2074 (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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