

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Mineral Fiber Blanket Insulation as per ASTM C 553-13	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2109 (IC)	رقم الوثيقة :	

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Date of Issue : 27/03/2023	Rev. No. : 12
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Issue Date	Rev. No.	Summary Of Amendments
02-07-2005	0	First draft for comments
09-07-2005	0	Final draft
06-08-2005	1	Issue for use
19/11/2008	2	Reviewed with the requirements of the current version of the standard (2008) and found to be still suitable.
09-08-2009	3	Document reference number and format is changed according to the new IMS, statement for the independent testing plan was changed, and the statement for surveillance was shortened by referring the appropriate procedure, RD-DP21-2096 (IC).
03-07-2011	4	Reviewed with the requirements of the current version of the standard (2011) and found to be still suitable.
06/04/2014	5	Reviewed with the requirements of the current version of the standard (ASTM C533-13) and found to be still suitable
13/07/2017	6	Revised to align with the fire test requirements of the UAE Fire & Life Safety Code of Practice. 2016; Removed version of ISO 9001 Standard for QMS requirements
05/11/2018	7	Reviewed as per the fire test requirements with the UAE Fire and Life Safety Code of Practice 2018, and found to be still the same. Change the format of documents.
21/03/2019	8	Revision of Scope to reflect that the DCL Certification of above subject product does not cover compliance to the requirements of UAE Fire & Life Safety Code of Practice 2018.
06/09/2020	9	Revised to 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	10	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.2.4), 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	11	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager).
27/03/2023	12	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Adding reference to SA'AFAT relevant section under additional references. 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 a form of blanket, with or without facings intended for commercial and industrial application.
- 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: Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications
- 3.2 Applicable standard/Normative reference: ASTM C 553-13 Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Application.
- 3.3 Additional reference:
- ISO 9001 Quality Management System – Requirements
- ISO 19011 Guidelines for Auditing Management Systems
- Al Sa'fat – Dubai Green Building System-2nd edition, January 2023 – Section 701.01 (Thermal and Acoustical Insulation Materials).

4 DEFINITION OF TERMS

- 4.1 In addition to the definitions given in ASTM C 168, ASTM C 553 and the General Rule of the scheme [DM-DCLD-RD-DP21-2001 (IC)], the following shall apply:-

4.1.1 Standard Specification – ASTM C 553-13 Standard Specification for Mineral Fiber Blanket Thermal

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Insulation for Commercial and Industrial Application.

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:
 - a. Weighing Scale.
 - b. Dimensional measuring instruments.
- 5.3 Product Evaluation and testing
 - 5.3.1 Physical Properties - The product/s shall conform to the requirements specified in the standard specification as per ASTM C 553
 - 5.3.2 Workmanship - The product/s shall not have defects that will adversely affect installation or service quality
 - 5.3.3 The test to be carried out shall be in accordance with the test method mentioned in the standard specification as follows;
 - 5.3.3.1 Maximum Density and Dimension as per ASTM C 167
 - 5.3.3.2 Shots Content of Inorganic Fibrous Thermal Insulation as per ASTM C1335
 - 5.3.3.3 Apparent Thermal Conductivity as per ASTM C 177, ASTM C 518, ASTM C 1114
 - 5.3.3.4 Maximum Use Temperature and Exothermic Temperature Rise as per ASTM C 411, ASTM C 447
 - 5.3.3.5 Odor Emission as per ASTM C 1304
 - 5.3.3.6 Corrosion to Steel as per ASTM C 665
 - 5.3.3.7 Flexibility and Rigidity as per ASTM C 1101/ C 1101M
 - 5.3.3.8 Water Vapor Sorption as per ASTM C 1104 / C 1104M
 - 5.3.4 The results of testing must comply with the standard specification requirements.

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-DP21-2097 (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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