


 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Polyisocyanurate Thermal Insulation Board as per ASTM C 1289 -2017	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2207 (IC)	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
20/05/2018	0	First draft for comments
10/09/2018	1	Issue for use
04/11/2018	2	Aligning the fire safety requirements to the new version of UAE Fire and Safety Code of Practice 2018
04/03/2019	3	Removal of the fire safety requirements for Polyisocyanurate Thermal Insulation Board
25/03/2019	4	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.
27/08/2020	5	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	6	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.3.3), 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	7	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.3.3
27/03/2023	8	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 only the faced thermal insulation boards composed of Rigid Cellular Polyisocyanurate surfaced with other materials intended for non-structural panels useful in Building Construction.
- 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: Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- 3.2 Applicable standard/Normative reference: ASTM C 1289-17 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- 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 ASTM C 1289-17 and DM-DCLD-RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification ASTM C 1289-2017 – Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board

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:

- Length, width, thickness
- Squareness and flatness
- Density

5.3 Company Declaration: The client shall submit to DCLD-CQPS declaration of the following:

- classification of specification of the products subject for certification as specified in Section 4 of ASTM C 1289 standard.
- Apparent density of the Polyisocyanurate insulation foam.



5.4 Product Evaluation and testing

5.4.1 The tests to be carried out shall be in accordance with the Test Method mentioned in section 11 of the Standard Specification as follows;

- Dimensional Tolerances as per ASTM C303
- Edge Squareness as per ASTM C550
- Edge Trueness as per ASTM C550
- Face Trueness as per ASTM C550
- Thermal Resistance as per ASTM C518
- Compressive Strength as per ASTM D1621
- Dimensional Stability as per ASTM D2126
- Flexural Strength as per ASTM C203
- Tensile Strength perpendicular to Board Surface as per ASTM C209

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5.4.1.10 Water Absorption as per ASTM D2126

5.4.1.11 Water Vapor Permeance as per ASTM D2126

5.4.1.12 Apparent Density as per ASTM C303

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

5.5.1 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.

5.5.2 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-DP21-2097 (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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