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	Document Title:	Specific Rules for Certification of Cellular Glass Thermal Insulation (as per BS EN 13167:2012 + A1-2015) Through Factory Assessment	عنوان الوثيقة:	
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Issue Date	Rev. No.	Summary Of Amendments
27-02-2005	0	First draft for comments
12-04-2005	0	Final draft
18-04-2005	1	Issue for use
09-08-2009	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, statement for the independent testing plan was changed, and the statement for surveillance was shortened by referring the appropriate procedure, RD-DP21-2096 (IC).
27-05-2014	3	Reviewed with the requirements of the current version of the standard and made some amendments, including the format.
16-07-2017	4	Amendment to align the fire test requirement with the UAE Fire and Life Safety Code of Practice 2016, Provision for once every 3 years fire test in the Factory Production Control System (Internal Product Quality Assurance Plan), Revised Format according to the latest template.
08-11-2018	5	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	6	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.
26-04-2020	7	Revised with the requirements of the current updated version of the standard. Added sound absorption requirements (if declared). In addition to some editorial changes as per the new numbering system and terminologies.
06-09-2020	8	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.

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1. GENERAL

1.1 INTRODUCTION

1.1.1 This document prescribes the specific rules for the implementation of the DM Third Party Product Certification Scheme through factory assessment as applied to the specific product(s) identified herein, taking into consideration the applicable normative references and standard specifications.

1.1.2 The applicant shall comply with these specific rules, and with those already mentioned in the “General Rules for DM Third Party Product Certification Scheme Through Factory Assessment, DM-DCLD-RD-DP21-2001 (IC).

1.2 SCOPE

1.2.1 This specific rule covers the requirements for factory made cellular glass products, with or without facing, which are used for the thermal insulation of buildings. The products are manufactured in the form of slabs or boards.

1.2.2 This specific rule does not cover compliance to the requirements of UAE Fire & Life Safety Code of Practice 2018.

1.2.3 For certification of Cellular Glass Thermal Insulation compliance to the requirements of UAE Fire & Life Safe Code of Practice 2018, the Specific Rules DM-DCLD-RD-DP21-2210 (IC) shall apply.

1.3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

1.3.1 Product Name: Thermal Insulation Products for Buildings – Factory Made Cellular Glass (CG) Products

1.3.2 Applicable standard/Normative reference: BS EN 13167:2012 + A1-2015 Thermal insulation products for Buildings – Factory made cellular glass (CG) products - Specification

1.3.3 Additional references:

1.3.3.1 ASTM C 518, Thermal transmission properties by heat flow meter

1.3.3.2 ASTM E 96, Water vapor transmission of materials

1.3.3.3 ISO 9001 - Quality Management System –Requirements

1.3.3.4 ISO 19011- Guidelines for Auditing Management Systems

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1.4 DEFINITION OF TERMS

In addition to the definitions given in EN ISO 9229, BS EN 13167:2012 +A1-2015, DM-DCLD-RD-DP21-2001 (IC) and other reference standards, the following shall also apply:

- 1.4.1 Independent Testing Laboratory - Dubai Central Laboratory Department or any testing laboratory recognized by DCLD-PCAS.
- 1.4.2 Independent Test - test performed or conducted by the recognized Independent Testing Laboratory
- 1.4.3 Standard Specification (SS) – BS EN 13167:2012+A1-2015 Thermal insulation products for Buildings – Factory made cellular glass (CG) products - Specification
- 1.4.4 QMS – Quality Management System aligned with the requirements of ISO 9001 Standard
- 1.4.5 Product Quality Assurance Plan – a document being agreed upon both by the certified client and the certification body being used to ensure continuous compliance of the certified product.
- 1.4.6 Client : Manufacturer/producer of factory made Cellular glass thermal insulation for buildings
- 1.4.7 DM Certification Body – Products Conformity Assessment Section- Dubai Central Laboratory (DCLD-PCAS)
- 1.4.8 Authorized auditor : is any approved auditor by DCLD-PCAS either internal within DCLD or external (Approved CAB's auditor or approved auditor based on a signed contract)

2. REQUIREMENTS FOR CERTIFICATION

2.1 APPLICATION

- 2.1.1 The client shall apply to DCLD-PCAS for the certification and authorization to use of DCL Conformity Mark.
- 2.1.2 Application form shall be submitted to DCLD-PCAS together with the following documents
 - a. Trade License
 - b. Complete product description and specifications
 - c. Brief Description of Manufacturing Process
 - d. Copy of the Quality Manual (Controlled Copy)- If available

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- e. Vicinity Map and Factory Layout
- f. Valid Certification to ISO 9001 (If available)
- g. List of personnel and their designation
- h. Total number of effective personnel involved in manufacture of the product (technical, managerial and support personnel)
- i. List of available testing equipment and tests conducted internally
- j. Others

2.1.3 Separate application shall be submitted for each product type or group of products that refers to a different specifications / specific rules.

2.2 FACTORY OPERATION

2.2.1 Quality Management System

The client shall have a Quality Management System that is aligned to the requirements of ISO 9001 standard.

NOTE: Having a certificate of ISO 9001 is not a mandatory requirement; however the structure of the manufacturer's QMS shall be in line with its requirements.

2.2.2 Laboratory

The client shall have a quality assurance laboratory to carry out factory production control testing to ensure that the cellular glass thermal insulation comply with the requirements of the standard specification.

The laboratory can be part of the factory facilities, or, can be through a documented agreement with an accredited external laboratory. As a minimum requirement, the laboratory shall have the following testing equipment::

- a. Length, width, thickness
- b. Squareness and flatness
- c. Density

2.3 INITIAL FACTORY AUDIT

2.3.1 Initial factory audit will be carried out by duly authorized auditor(s) which will cover auditing of the quality management system to verify its compliance with the requirements of ISO 9001, in addition to verify the implementation of DCLD-PCAS certification's requirements. Where possible; the audit can be carried out remotely as per (DM-DCLD-RD-DP21-2098 (IC) Guidelines for Remote Audit) or as per the related approved guidelines which are followed by the approved outsourced CAB.

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NOTE: An independent certification to ISO 9001 issued by a QMS certification body recognized by DCLD-PCAS may be considered as having satisfied this requirement; however, DCLD-PCAS reserves the right to carry out verification audit to confirm that the factory is in compliance with the QMS requirements, in addition to the requirements of DCLD certification schemes and rules.

2.3.2 Factory audit shall be conducted by designated audit team in accordance with ISO 19011 – Guidelines for Auditing Management Systems.

2.4 PRODUCT EVALUATION

2.4.1 Company Declaration

2.4.1.1 The manufacturer/applicant shall submit to Dubai Central Laboratory declaration of product specification subject for certification and the designation code as per (SS) clause 6. This shall include but not limited to:

Thermal resistance and thermal conductivity

- Length and width
- Thickness
- Dimensional Stability
- Compressive strength or compressive stress
- Bending Strength
- Point Load
- Tensile strength parallel to faces
- Tensile strength perpendicular to faces
- Water Vapor Transmission
- Density
- Sound Absorption (if declared or if DCL Attestation is applied/issued)

2.4.2 Sampling

2.4.2.1 Sampling for initial testing shall be taken randomly by the authorized auditor from the products to be certified (sizes and quantities to be determined) either from production lines or the factory warehouse, in accordance with the requirements of the standard specification.

2.4.2.2 Three sets of sample per product per type shall be subjected to testing; the first set, where possible, will be tested in the plant witnessed by a duly authorized auditor, the second set will be sent to DCLD-PCAS approved Independent Testing Laboratory. The third set will be kept by the client as reference for future use.

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2.4.2.3 Sample(s) for independent test shall be packed/sealed and signed in the presence of the authorized auditor and shall be submitted to DCLD-PCAS approved lab.

2.4.3 Product Evaluation and Testing

2.4.3.1 Samples drawn for independent test shall meet the requirements of the Standard Specification (SS) as follows:

2.4.3.1.1 Thermal Resistance and Thermal Conductivity as per (SS) clause 4.2.1

Note: 1. Since BS EN 12667 or BS EN 12939 (for thick products), test method for thermal resistance and thermal conductivity, is equivalent to the ASTM C 518, ASTM C 177, ISO 8301 and ISO 8302, the DM Certification Body may opt to use any of these test methods.

2. Temperature condition to be used in carrying out this test will be as per Dubai requirement, that is @ 35°C and 60% Relative Humidity and the reference mean temperature is 35°C

2.4.3.1.2 Length and Width as per (SS) clause 4.2.2

2.4.3.1.3 Thickness as per (SS) clause 4.2.3

2.4.3.1.4 Squareness as per (SS) clause 4.2.4

2.4.3.1.5 Flatness as per (SS) clause 4.2.5

2.4.3.1.6 Dimensional Stability as per (SS) clause 4.3.2

2.4.3.1.7 Compressive Strength as per (SS) clause 4.3.3

2.4.3.1.8 Bending Strength as per (SS) clause 4.3.4

2.4.3.1.9 Point Load as per (SS) clause 4.3.5

2.4.3.1.10 Tensile Strength parallel to faces as per (SS) clause 4.3.6

2.4.3.1.11 Tensile Strength perpendicular to faces as per (SS) clause 4.3.7

2.4.3.1.12 Water Absorption as per (SS) clause 4.3.9

2.4.3.1.13 Water Vapor transmission as per (SS) clause 4.3.10

Note: Since BS EN 12086 test method for water vapor transmission, is equivalent to that of the ASTM E 96, the DM Certification Body may opt to use this test method.

2.4.3.1.14 Sound Absorption as per (SS) clause 4.3.11 (if declared)

Note: If DCL attestation is applied/issued, or if there is a test report (validity of 3 years from issue date) issued by other accredited and DCLD-PCAS recognized testing laboratory and sampled by accredited/DCLD-PCAS recognized CAB, then no need to conduct the test.

2.4.3.2 Where appropriate, a comparison shall be made between the manufacturer's routine test results, results

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of witness testing and the results of testing by the independent testing laboratory.

2.4.3.3 If facing are applied, faced boards shall only be tested for dimensions, squareness, flatness, compressive strength, and thermal conductivity test as per clause 2.4.3.1.

2.4.3.4 The results of testing must meet the requirements as per the standard specification.

2.4.3.5 Independent test shall only be conducted if the result of the in-plant test shows satisfactory results. DCLD-PCAS may opt to accept available valid test reports conducted by an approved DCLD-PCAS independent laboratory within one year from the date of the initial assessment , in line with the internal quality control testing plan of the factory. In such case, the testing of that particular parameter(s) shall be waived accordingly.

2.4.3.6 If the result of the test conducted by the DCLD-PCAS approved independent testing laboratory shows non-conformance to the specified requirements, the provision for rejection specified in the standard shall apply. The retest shall be carried out on the reference sample kept by the client or on new samples collected by the authorized auditor on which full testing shall be carried out, if necessary.

2.4.3.7 If the re-test passed, the initial product assessment is considered conforming to product specification. If not, the client will be advised to take corrective action.

2.4.3.8 Only after reassessment and subsequent product compliance shall the client be allowed to use DCL Conformity Mark on his product(s) that have been tested and found complying with the certification Requirements.

3. GRANTING OF THE DCL CERTIFICATION

3.1 CONDITIONS FOR GRANTING THE DCL PRODUCT CONFORMITY CERTIFICATE

3.1.1 When the results of the factory audit (clause 2.3) and product evaluation (clause 2.4) show conformity to the requirements specified in the general rule and specific rule, the Certificate of Conformity and authorization to use the DCL Conformity Mark shall be issued to the client for the type(s)/model(s)/brand(s) of the product covered by the assessment.

3.1.2 The client shall agree with DCLD-PCAS for the preparation and implementation of a product quality assurance plan /mechanism to ensure continuing compliance with the Standard Specifications and the requirements of this

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certification scheme. It shall consist of (1) an internal product quality assurance plan, and (2) an independent testing plan.

3.1.3 Internal Product Quality Assurance Plan

The client shall have 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.

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; it shall consist and comply with the requirements as per below:

SR/N	INSULATION PROPERTY	MINIMUM TESTING FREQUENCIES
1	Thermal Resistance and Thermal Conductivity	1 per 24 h
2	Length and Width	1 per 4 h
3	Thickness	1 per 4 h
4	Squareness	1 per 4 h
5	Flatness	1 per 4 h
6	Dimensional Stability	1 per 5 years
7	Compressive Strength	1 per 8 h
8	Tensile strength parallel to faces	1 per 5 years
9	Tensile strength perpendicular to faces	1 per 5 years
10	Bending Strength	1 per year
11	Point Load	1 per 8 h
12	Water Absorption	1 per 5 years
13	Water Vapor Transmission	1 per 5 years
14	Sound Absorption (if declared)	1 per 5 years

Note: Item No.1 and 7 may be reduced to once per month provided that the results show continuing compliance to the declared value.

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3.1.4 Independent testing plan

The client shall agree to an independent testing plan to be carried out on samples which are collected in accordance with DM-DCLD-RD-DP21-2096 (IC) – Surveillance of Certified Clients under the Factory Assessment Scheme, and implemented by the DCLD-PCAS.

3.2 ISSUANCE OF DCL CERTIFICATE OF PRODUCT CONFORMITY

If the conditions mentioned in clause 3.1 above have been complied, the client shall be issued a DCL Certificate of Conformity and a Scope of Certification that covers the type(s) and size(s) of the products that are certified and will be authorized to use the DCL Conformity Mark on the certified products.

3.3 RESPONSIBILITIES OF THE CERTIFIED CLIENT

- 3.3.1 The client shall ensure that his product, for which a certificate of conformity has been issued, conforms at all times to the requirements of the General Rule and Specific Rules and shall maintain to the satisfaction of DCL, a system of quality control including inspection and testing.
- 3.3.2 The client shall give the duly authorized auditor(s) by DCLD-PCAS, access during working hours, without prior notification, to the premises of the factory where certified product is manufactured, for the purpose of evaluating the materials, production processes, finished products, quality assurance facilities, records and others in accordance with the requirements of the scheme.
- 3.3.3 The client shall inform DCLD-PCAS in writing of any change of management, transfer of plant site, modification in the product, manufacturing process or factory's quality management system.
- 3.3.4 Upon transfer of plant site, the certificate of conformity shall be deemed valid only after factory and product audit at the new site has been satisfactorily completed.
- 3.3.5 Any infraction stated in the terms and conditions of the certification scheme and the use of DCL Conformity Mark shall constitute sufficient grounds for suspension, withdrawal and termination of certification in accordance with DM-DCLD-IMS-RD-07.
- 3.3.6 Any dispute that may arise in connection with the Terms and Conditions of the certification scheme shall be settled in accordance with DM-DCLD-IMS-RD-08 Appeals, Disputes, and Complaints Procedure.
- 3.3.7 The client shall pay all applicable fees related to the certification process.

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3.4 USE OF THE DCL CONFORMITY MARK

- 3.4.1 The design and use of the DCL Conformity Mark shall be in accordance with the Terms and Conditions for the Use of the DCL Conformity Mark, DM-DCLD-IMS-RD-13.
- 3.4.2 The client shall submit a product-marking proposal for approval by the DCLD-PCAS. The proposal shall include Drawings and/or diagrams showing the location and size of the marking for each size of the product/product package, where applicable.
- 3.4.3 The Certificate of Conformity and the authorization to use the DCL Conformity Mark is non-transferable.

4. SURVEILLANCE

- 4.1 DCLD-PCAS or their approved CAB shall carry out periodic surveillance to ensure consistent compliance with the requirements of this certification scheme as per DM-DCLD-RD-DP21-2096 (IC) – Surveillance of Certified Clients under the Factory Assessment Scheme.
- 4.2 Testing as part of the surveillance shall be in accordance with the Independent Testing Plan (clause 3.1.4) that has been agreed between DCLD-PCAS - and the client.

5. FEE SCHEDULE

- 5.1. The client shall pay the applicable fees and charges related to the granting of the certificate of conformity and the authorization to use the DCL Conformity Mark based on the DCL Official Fee Structure, DM-DCLD RD-DP21-2097 (IC).
- 5.2 The fees for this certification scheme shall include but not limited to the following;
- 5.2.1 Application Fee
 - 5.2.2 Initial Assessment Fee
 - 5.2.3 Certification Fee
 - 5.2.4 Marking Fee
 - 5.2.5 Surveillance Fee
 - 5.2.6 Annual Renewal Fee
 - 5.2.7 Testing Fee
 - 5.2.8 Outsource Activity Fee , where applicable

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