

 حكومة دبي GOVERNMENT OF DUBAI	Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title: Certification of Factory-Made Phenolic Foam Thermal Insulation as per BS EN 13166: 2012 + A2:2016	عنوان الوثيقة:	
	Doc Ref. DM-DCLD-RD-CQP-2186	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
28-06-2015	0	First draft for comments
05-07-2015	0	Final draft
26-07-2015	1	Issue for use
17-07-2017	2	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	3	Amendment to align the fire test requirement with the UAE Fire and Life Safety Code of Practice 2018 edition.
21-03-2019	4	Revision of Scope to reflect that the DCL Certification of phenolic thermal insulation material does not cover compliance to the requirements of UAE Fire & Life Safety Code of Practice 2018.
20-04-2020	5	Amendment to align with the new BS EN 13166:2012+A2:2016 standard specification In addition to some editorial changes as per the new numbering system and terminologies
06-09-2020	6	Add the options for initial audit by the approved CAB and remotely by DCLD-PCAS Adding definition for authorized auditor. Update for the terminologies. Add provision for accepting valid test reports.
26-09-2021	7	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.1.4), 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.
4-10-2022	8	Changing section name as per the new organizational structure and replace HOU by CQPSM (Section's Manager). Adding surveillance in 2.4.1.4
27-03-2023	9	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
15-08-2024	10	Changing the logo of the Government of Dubai with the latest design and added clause 6.2.
18-09-2026	11	Restructured to align with the new internal formatting and numbering of all documents

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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-CQP-2001.**
- 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 applies only to factory made phenolic foam (PF) thermal insulation products used as wall and roof insulation with a minimum thickness required to achieve a U value in accordance with DM Regulation.
- 2.2 For certification of pipe and duct insulation for HVAC systems, the Specific Rule DM-DCLD-RD-CQP-2185 “Specific Rules for Certification of Pipe and Duct Insulation as per Al Sa’fat Green Building System” shall apply.
- 2.3 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: Thermal Insulation Products for Buildings – Factory made phenolic foam (PF) products
- 3.2 Applicable standard/Normative reference: BS EN 13166: 2012+A2: 2016 Thermal Insulation Products for Buildings – Factory made phenolic foam (PF) products - Specification
- 3.3 Additional reference:
- ISO 9001 Quality Management System – Requirements
- ISO 19011 Guidelines for Auditing Management Systems
- ASTM C 518 Thermal transmission properties by heat flow meter
- ASTM E 96 Water vapor transmission of materials.

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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 EN ISO 9229, BS EN 13166 and the General Rule of the scheme [DM-DCLD-RD-CQP-2001], the following shall apply:-

4.1.1 Standard Specification – BS EN 13166: 2012+A2: 2016 Thermal Insulation Products for Buildings – Factory made phenolic foam (PF) products - Specification

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 Product Evaluation and testing

5.3.1 The client shall submit to Dubai Central Laboratory a declaration of product specification subject for certification. This shall include but not limited to:

5.3.1.1 Thermal Resistance and Thermal Conductivity (*initial and the aged value*)

5.3.1.2 Dimensions (Length, Width)

5.3.1.3 Thickness

5.3.1.4 Flatness

5.3.1.5 Squareness

5.3.1.6 Dimensional Stability

5.3.1.7 Compressive Strength

Note: For structural applications, declared compressive strength shall be not less than 100 kPa

5.3.1.8 Water Vapor Transmission

5.3.1.9 Density

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

5.4.1 Thermal Resistance and Thermal Conductivity as per SS clause 4.2.1

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Note 1: Since BS EN 12667, test method for thermal resistance and thermal conductivity, is equivalent to the ASTM C 518, ASTM C 177, ISO 8301 and ISO 8302, DCLD-CQPS may opt to use any of these test methods.

Note 2 : Conditioning and temperature 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

5.4.2 Length and Width as per (SS) clause 4.2.2

5.4.3 Thickness as per (SS) clause 4.2.3

5.4.4 Squareness as per (SS) clause 4.2.4

5.4.5 Flatness as per (SS) clause 4.2.6

5.4.6 Compressive Strength as per (SS) clause 4.3.3

5.4.7 Water Vapor Transmission as per (SS) clause 4.3.8

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

5.4.8 Dimensional Stability under specified temperature and RH per (SS) clause 4.3.2

5.4.9 Apparent Density as per (SS) clause 4.3.9

5.3.2 The results of testing must comply with the standard specification requirements.

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

The client shall have an internal product quality assurance plan. It shall cover all inspections carried out thru out the whole manufacturing process, i.e. (raw materials – production lines- finished product testing and evaluation as per Standard Specifications – final packing). It shall consist of and comply with the minimum requirement as per below:

SR/N	INSULATION PROPERTY	MINIMUM TESTING FREQUENCIES
1	Thermal Resistance and Thermal Conductivity	1 per 24 h (initial value) 1 per 2 years (aged value)
2	Length and Width	1 per 4 h
3	Thickness	1 per 4 h
4	Apparent Density	1 per 24 h
5	Squareness	1 per 4 h
6	Flatness	1 per 4 h
7	Compressive Strength	1 per 24 h

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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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 Use of the DCL Conformity Mark shall be as per DM-DCLD-RD-CQP-2069.
- 6.3 Fees shall be as per DM-DCLD-RD-CQP-2097 and other relevant provisions in the general rule.
- 6.4 DCLD-CQPS shall carry out surveillance of certified clients based on the approved periodic plans and related provisions in the general rule.
- 6.5 Appeals, disputes and complaints shall be in line with the relevant provisions in the General Rule.

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