
 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Ventilation for buildings – Non Metallic ducts – Ductwork made from Insulation Duct Boards as per BS EN 13403: 2003	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2216 (IC)	رقم الوثيقة:	



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Issue Date	Rev. No.	Summary Of Amendments
11/06/2020	0	First draft for comments
25/10/2020	0	Second draft for comment
29/12/2020	1	Issue for Use
26/09/2021	2	Revised to reflect the Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.2.1b), 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	3	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.2.1b
27/03/2023	4	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 basic requirements and characteristics for ductwork made of insulation duct boards and used in ventilation and air conditioning systems of buildings, subject to human occupancy.
- 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: Non-metallic ducts made from insulation duct boards used as ventilation for buildings
- 3.2 Applicable standard/Normative reference: BS EN 13403: 2003 – Ventilation for buildings – Non-metallic ducts – Ductwork made from insulation duct boards
- 3.3 Additional reference:
ISO 9001 - Quality Management System – Requirements
ISO 19011 - Guidelines for Auditing Management System.
Al Sa’fat – Dubai Green Building System-2nd edition, January 2023 – Section 701.01 (Thermal and Acoustical Insulation Materials).

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4 DEFINITION OF TERMS

4.1 In addition to the definitions given in BS EN 13403: 2003 and DM-DCLD RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS EN 13403: 2003 – Ventilation for buildings – Non-metallic ducts – Ductwork made from insulation duct boards

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. Dimensional test equipment

5.3 Product Evaluation and testing

5.3.1 DCLD-CQPS shall accept available valid test reports conducted by an approved DCLD-CQPS independent laboratory within three years from the date of the initial/surveillance 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.

5.3.2 Declaration/Requirements/Testing

5.3.2.1 The applicant/client shall submit to DCLD-CQPS product declaration as follows:

- Maximum air speed
- Maximum positive pressure
- Air tightness class
- Board stiffness
- Water absorption class
- Acoustical absorption class
- Thermal conductivity @ 35°C & 60% Relative Humidity



5.3.2.2 Duct board, sealants, and adhesives used in the fabrication of Non-metallic ducts made from insulation duct boards used as ventilation for buildings shall be DCLD Certified. Ductwork shall comply with the application restriction as per the requirements mentioned in SS clause 5.

5.3.2.3 Duct work samples drawn for independent test shall meet the requirements of the Standard Specification

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(SS) as follows:

- Erosion and emission of particles as per SS clause 4.1
- Resistance against pressure (without reinforcement) as per SS clause 4.2
- Air leakage factor and air tightness class as per SS clause 4.3
- Bulging and/or craving, air leakage as per SS clause 4.4
- Supports and hangers as per SS clause 4.5
- Facilities for cleaning as per SS clause 4.6

5.3.2.4 Duct boards samples drawn for independent test shall meet the requirements of the SS as follows:

- Health and safety as per SS clause 4.7.1
- Microbial growth as per SS clause 4.7.2
- Board stiffness as per SS clause 4.7.3
- Water vapour resistance as per SS clause 4.7.4
- Dimensional tolerances as per SS clause 4.7.5
- Dimensional stability (optional) as per SS clause 4.7.6
- Weighted acoustical absorption
- Thermal conductivity @35°C & 60%RH
- Reaction to Fire shall have values of max 25 for Flame Spread Index of (FSI) & max 50 for Smoke Develop Index (SDI) in accordance with the requirements of 2018 UAE Fire Life and Safety Code of Practice



5.3.2.5 Marking, labelling and packaging shall be as per the requirements mentioned in SS clause 8 shall be clearly marked, either on the product or a label with the following information as follows:

- Name or identifying mark of the manufacturer and plant
- Product identity (trade name)
- Designation code of the insulation product as given in the respective CEN standard
- Year of manufacture (the last two digits)
- Lot or shift or time of manufacture
- Dimensions and number of pieces in the package

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

5.3.2.6.1 The client shall prepare and submit to DCLD-CQPS for approval of an internal product quality assurance plan.

5.3.2.6.2 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 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).

5.3.2.6.3 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-DP21-2074 (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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