

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of Concrete-Thermal Sandwich Masonry Blocks as per TG 01 Part 5: 2024	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2174 (IC)	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
05-10-2006	0	First draft for comments
07-07-2010	0	Final draft for comments
08-07-2010	1	Issue for use
16/02/2011	2	Inclusion of the types of sandwich masonry blocks samples n in section 2.4.1
18/08/2011	3	Distribution of tests for the different types of sandwich block samples in section 2.4.2 Reviewed with the requirements of the current version of the standard (2011) and found to be still suitable
17/03/2019	4	Updated format as per new DM template and new DM logo
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 following 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 2.4.1.4), 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.
04/10/2022	7	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager)
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
15/08/2024	9	Changing the logo of the Government of Dubai with the latest design and added clause 6.2.
11/09/2024	10	Revised due to changing the name of the standard specification from Dubai Municipality Standard (DMS) 1 Part 5 to Technical Guide (TG) 01 Part 5 and reviewed as per the new version.

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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 Rules covers the requirements for the certification of concrete-polystyrene sandwich masonry blocks that will be used in the Emirate of Dubai..
- 2.2 The types of sandwich block samples are classified into
1. Normal Weight Sandwich Block
  2. Light Weight Sandwich Block
- 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: Concrete-Polystyrene Sandwich Masonry Blocks
- 3.2 Applicable standard/Normative reference: TG 01-2024 Technical Guide for Blocks used in Construction Sites in the Emirate of Dubai Part 5: Concrete-Thermal Sandwich Masonry Blocks
- 3.3 Additional reference:
- ISO 9001 Quality Management System – Requirements
- ISO 19011 Guidelines for Auditing Management Systems

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#### 4 DEFINITION OF TERMS

4.1 In addition to the definitions given in TG 01 - 2024 and the General Rule of the scheme [DM-DCLD-RD-DP21-2001 (IC)], the following shall apply:-

2.1.1 Standard Specification – TG 01-2024 Technical Guide for Blocks used in Construction Sites in the Emirate of Dubai Part 5: Concrete-Thermal Sandwich Masonry Blocks.

#### 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:
- Compressive testing machine
  - Dimensional measuring instruments
- 5.3 Factory Production Control System (Internal Product Quality Assurance Plan)  
The factory shall have an internal product quality assurance plan giving details of the tests to be carried out at the factory, which shall conform to DM-DCLD-RD-DP21-2090 (IC).

#### 5.4 Product Evaluation and testing

5.4.1 Samples collected as per Annex G (Paving) of the Standard Specification shall be subjected to in-plant and independent tests for the following properties:

- Shape and Appearance
- Dimensional tolerances
- Shell Thickness (whenever applicable)
- Compressive Strength
- Chloride and sulphate content (In-plant test is optional)
- Thermal Conductivity (In-plant test is optional)

5.4.2 If the factory is outsourcing the routine tests to an accredited laboratory, in-plant tests may be waived, if records of routine tests are available and in-line with the frequency of testing as per DM-DCLD-RD-DP21-2090 (IC).

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5.4.3 Durability and visual aspects shall be met as per clauses 5.4 and 5.5 of the standard specification respectively.

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

## 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-DP21-2069 (IC).
- 6.3 Fees shall be as per DM-DCLD-RD-DP21-2089 (IC) 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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