

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of Precast Concrete- Thermal Sandwich Masonry Blocks as per TG 01-2024 Part 5	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP20-1106 (IC)	رقم الوثيقة:	

Table of Contents

REVISION HISTORY .....

INTRODUCTION AND SCOPE .....

PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE .....

DEFINITION OF TERMS .....

GENERAL REQUIREMENTS FOR CERTIFICATION.....

ISSUE OF CERTIFICATE OF CONFORMITY .....

2

3

3

3

4

5

Approved by CQPSM	Authorized by CQPSM
Date of Issue: 16/09/2024	Rev. No.: 13
General / عام : Level of Confidentiality / درجة السرية	Page 1 of 5

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of Precast Concrete- Thermal Sandwich Masonry Blocks as per TG 01-2024 Part 5	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP20-1106 (IC)	رقم الوثيقة:	

Issue Date	Rev. No.	Summary Of Amendments
27-02-2005	0	Draft for comments
08-03-2005	0	Final draft
14-03-2005	1	Issue for use
04-05-2008	2	Updating of signatories and format.
12-07-2009	3	Document reference number and format is changed according to the new IMS. Test methods are removed, (in accordance with the test methods specified in the Standard Specifications).
26-10-2009	4	The frequency of testing is revised under clause 7.3.2 from three to six months. and the thermal conductivity test is omitted.
28-10-2010	5	Updated to align with the new standard.
21-08-2011	6	Updated to align with the new standard DMS 1 Part 5:2011.
18-06-2017	7	Update to align with the online smart service's (Accela) requirements, in addition to some modifications in initial testing and sampling and testing requirements.
27-03-2019	8	Updated format as per new DM template and logo
06-09-2020	9	Adding the option of remote sampling and minor highlighted changes in some clauses and some other editorial changes. Changing font type
04-10-2022	10	Updated new section name and replace HOU by CQPSM. Removal of Proposed product identification mark under 5.1 and its visual verification in 5.2.
27-03-2023	11	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Additional minor changes (highlighted). Use of New DM Logo
06-06-2024	12	Changing the logo of the Government of Dubai with the latest design.
16-09-2024	13	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.

Approved by CQPSM	Authorized by CQPSM
Date of Issue: 16/09/2024	Rev. No.: 13
General / عام / Level of Confidentiality / درجة السرية	Page 2 of 5

Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version 'Online

بيانات مفتوحة / OPEN DATA

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of Precast Concrete-Thermal Sandwich Masonry Blocks as per TG 01-2024 Part 5	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP20-1106 (IC)	رقم الوثيقة:	

## 1. INTRODUCTION AND SCOPE

- 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 Batch Testing, 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 shall comply with these specific rules, and with those already mentioned in the “General Rules for DM Third Party Product Certification Scheme Through Batch Testing” (DM-DCLD-RD-DP20-1001(IC)).
- 1.3 This specific rule is an integral part of the general rule, and both shall always be read together.
- 1.4 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. Other relevant requirements issued by the regulatory bodies if any; shall always be fulfilled.

## 2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 2.1 Product name: Normal-Weight and Light-Weight Precast Concrete-Thermal Sandwich Masonry Blocks
- 2.2 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. DEFINITION OF TERMS

The definitions given in DM-DCLD-RD-DP20-1001, TG 01-2024, and, in addition, the following shall apply:

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or any testing laboratory recognized by DCLD-CQPS.
- 3.2 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
- 3.3 Lot – is equivalent to 1 batch of product.
- 3.4 DM Certification Body – Certification and Quality Control of Products Section / DCLD-CQPS.
- 3.5 The supplier /client: The manufacturer of Precast Concrete-Thermal Sandwich Masonry Blocks.

Approved by CQPSM	Authorized by CQPSM
Date of Issue: 16/09/2024	Rev. No.: 13
General / عام: Level of Confidentiality / درجة السرية	Page 3 of 5

Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version 'Online

بيانات مفتوحة / OPEN DATA

	<b>Organization/Unit:</b>	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	<b>Document Title:</b>	Certification of Precast Concrete- Thermal Sandwich Masonry Blocks as per TG 01-2024 Part 5	عنوان الوثيقة:	
	<b>Doc Ref.</b>	DM-DCLD-RD-DP20-1106 (IC)	رقم الوثيقة:	

#### 4. GENERAL REQUIREMENTS FOR CERTIFICATION

4.1 The process of application, registration of supplier/client and product sampling ,surveillance sand fees shall be in line with the related provisions in the general rule and the standard specifications.

#### 4.2 Product Evaluation and testing

4.2.1 DCLD-CQPS shall carry out initial product evaluation and testing in accordance with TG 01-2024 Part 5 requirements. DCLD-CQPS shall draw or arrange drawing samples remotely by any applicable means (like video recording, MS TEAMS. ZOOM ,...etc.) by the factory representative(s)-where applicable- from the factory/yard (refer to clause 4.4). The samples to be submitted to any of DCLD-CQPS approved Independent Testing Laboratory for the following tests (in accordance with the test methods specified in the Standard Specifications):

- Compressive Strength
- Dimensions
- Chloride and Sulphate Content
- Thermal Conductivity

4.2.2 Sampling and test methods shall be in accordance with those mentioned in the Standard Specifications, For thermal conductivity, the results shall not exceed the declared value by the supplier of the blocks.

4.2.3 The results of testing shall meet the requirements as per the Standard Specification.

4.2.4 After satisfying the above requirements, the establishment shall be included in the list of registered suppliers/clients for this certification scheme. The establishment can start submitting online requests for certification of specific lots.

#### 4.3 Request for Certification

4.3.1 Prior to submitting the request for certification, the supplier/client shall prepare the lots in the yard in accordance with the approved product description, and identified in accordance with the product labeling and numbering system.

4.3.2 The Supplier/client shall submit online request for certification for each lot of the product on the day prior to the proposed sampling date.

#### 4.4 Sampling and Testing

4.4.1 A representative sample shall be selected in accordance with a random sampling plan from the lot that is subject to certification. The number of specimen (blocks) to be collected shall be in accordance with the standard specification.

Approved by CQPSM	Authorized by CQPSM
Date of Issue: 16/09/2024	Rev. No.: 13
General / عام : Level of Confidentiality / درجة السرية	Page 4 of 5

Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version 'Online

بيانات مفتوحة / OPEN DATA

	<b>Organization/Unit:</b>	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	<b>Document Title:</b>	Certification of Precast Concrete- Thermal Sandwich Masonry Blocks as per TG 01-2024 Part 5	عنوان الوثيقة:	
	<b>Doc Ref.</b>	DM-DCLD-RD-DP20-1106 (IC)	رقم الوثيقة:	

- 4.4.2 DCLD-CQPS authorized representative shall confirm that the polystyrene (or other type) thermal insulation core is certified by DCLD-CQPS by checking the DCL Conformity Mark on the product/s or its certificate of conformity. The absence of a mark or certificate of conformity may be grounds for rejecting the lot.
- 4.4.3 The sample shall be submitted for testing at any DCLD-CQPS Approved Independent Testing Laboratory. Routine tests to be carried out for each sample (in accordance with the test methods specified in the Standard Specification) are as follows:-
- Compressive strength
  - Dimensions
- 4.4.4 Additional tests (Full testing as required under clause 4.2.1) to be carried out every three months on both normal weight and light weight Sandwich Blocks from each registered supplier/client.
- 4.4.5 The result of a particular test is considered “PASSED” if it meets the requirements as given in the Standard Specification. If not, it is considered as “FAILED”.
- 4.4.6 If any of the results in the routine testing (clause 4.4.3) is “FAILED”, the client is given one chance for a retest by taking another sample from the same lot and carrying out the same test where the result is “FAILED”.
- 4.4.7 If any of the results of non-routine tests “FAILED” in the additional tests (clause 7.4), that particular test will be shifted to the routine test (clause 4.4.3) for the next lot. This test will remain in the routine test category until the result is “PASSED”, after which, the requirements of (clause 4.4.4) will re-apply.

## 5. ISSUE OF CERTIFICATE OF CONFORMITY

- 5.1 If the results of the routine tests (clause 4.4.3) are all “PASSED”, a Certificate of Conformity shall be issued for the particular lot where the sample was taken.
- 5.2 If one or more of the results, after carrying out the retest, is “FAILED”, a Certificate of Non-Conformity shall be issued for the particular lot.
- 5.3 In case of a “FAILED” result in routine test, the client may waive to carry out retest (clause 4.4.6) in which case a Certificate of Non-Conformity shall be issued.
- 5.4 In case of a “FAILED” result in non-routine test, a Certificate of Non-Conformity shall be issued and the provision under (clause 4.4.7) shall be applied.

Approved by CQPSM	Authorized by CQPSM
Date of Issue: 16/09/2024	Rev. No.: 13
General / عام: Level of Confidentiality / درجة السرية	Page 5 of 5

Note: Printed copy of this document shall be treated as ‘Uncontrolled’. Always refer the controlled version ‘Online

بيانات مفتوحة / OPEN DATA