

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of Precast Masonry Blocks as per LO (44)1990 and LO (1) 2012 and TG 01-2024 Part 1	عنوان الوثيقة:	
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Issue Date	Rev. No.	Summary Of Amendments
14-03-2005	0	Draft for comments
26-04-2005	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). Application form -added.
26-10-2009	4	Frequency of testing revised to six months (clause 7.3)
14-11-2013	5	Updated including new Local Order 1-2012
18-06-2017	6	Update to align with DM standard; and with the online smart service's (Accela) requirements; in addition to some modifications in initial testing and sampling and testing requirements.
16-07-2020	7	Updated as per the latest revision of DMS 1 Part 1: 2020) and new followed terminology Further clarifications on failure in non-routine testing among other clauses (highlighted) and adding remote sampling. Adding visual aspects requirements
04-10-2022	8	Updated new section name and replace HOU by CQPSM. Removal of [Forms 1 to 5 of DM Admin Order 108/1990 (Executive Regulation of LO 44/1990)] and [Proposed product identification mark] under 5.1 and its visual verification in 5.2. Removal of applicable fines in 9.2
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. Additional minor changes (highlighted). Use of New DM Logo
06-06-2024	10	Changing the logo of the Government of Dubai with the latest design.
16-09-2024	11	Revised due to changing the name of the standard specification from Dubai Municipality Standard (DMS) 1 Part 1 to Technical Guide (TG) 01 Part 1 and reviewed as per the new version.

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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 concrete masonry blocks
Light weight concrete masonry blocks
- 2.2 Applicable standard/Normative reference: Local Order 44/1990 on Specifications for Concrete Blocks Used in the Emirate of Dubai and its related Administrative Orders, and as amended by Local Order 1-2012.
TG 01-2024 Technical Guide for Blocks used in Construction Sites in the Emirate of Dubai Part 1: 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.

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- 3.2 Standard Specification – Local Order 44/1990 Specifications for Concrete Blocks Used in the Emirate of Dubai and as amended by Local Order 1-2012, and TG 01-2024 Technical Guide for Blocks used in Construction Sites in the Emirate of Dubai Part 1: Masonry Blocks.
- 3.3 Lot – is equivalent to 1 batch of product. The lot size shall not exceed 10,100 blocks for normal weight concrete masonry blocks and 20,100 blocks for light weight concrete masonry blocks. This terminology is being used in order to make it consistent with the terminology used in the Standard Specification.
- 3.4 DM Certification Body: Certification and Quality Control of Products Section-DCLD-CQPS.
- 3.5 The supplier /client : The manufacturer of Precast Masonry Blocks

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 1 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
 - Dimension
 - Net Density (to be declared initially by the manufacturer for each type and configuration of its Masonry blocks)
 - Chloride and Sulfate
 - Drying Shrinkage
 - Appearance (Visual Aspects)
 - Special Texture (Visual Aspects)
 - Thermal conductivity (whenever applicable)
- 4.2.2 The results of testing shall meet the requirements as per the Standard Specification.
- 4.2.3 After satisfying the above requirements, the supplier/client 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.

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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 specimens (blocks) to be collected shall be in accordance with the Standard Specification.

4.4.2 The sample shall be submitted for testing at the 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
- Dimension

4.4.3 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 Masonry Blocks from each registered supplier/client.

4.4.4 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".

4.4.5 If the result of the routine testing (clause 4.4.2) is "FAILED", the client has the option to retest the failed product from the same lot and carry out the same test where the result is "FAILED".

4.4.6 If any of the results of non-routine tests "FAILED" in the additional tests (clause 4.4.3), that particular test will be shifted to the routine test (clause 4.4.2) for the next lot. This test will remain in the routine test category until the result is "PASSED", after which, the requirements of (clause 4.4.3) will re-apply.

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5. ISSUE OF CERTIFICATE OF CONFORMITY

- 5.1 If the results of the routine tests (clause 4.42) 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 4.4.5) 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 4.4.6) shall be applied.

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