

 GOVERNMENT OF DUBAI	Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title: Specific Rules for Batch Certification of Precast Masonry Blocks as per LO (44)1990 and LO (1) 2012 and DMS 1 Part 1	عنوان الوثيقة:	
	Doc Ref. DM-DCLD-RD-DP20-1104 (IC)	رقم الوثيقة :	

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.

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1. INTRODUCTION

- 1.1 This document contains the specific rules for the implementation of the DM Third Party Product Certification System Through Batch Testing as applied to the specific product(s) identified herein, taking into consideration the applicable normative references (Standard Specification or regulations), as well as the unique characteristics and production method for that product (or group of products).
- 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 System Through Batch Testing” (**DM-DCLD-RD-DP20-1001**).

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.
DMS 1: Part 1 Specification for Precast Concrete Blocks – Part 1: Masonry Blocks

3. DEFINITION OF TERMS

The definitions given in Local Order 44/1990, and as amended by Local Order 1-2012. and, in addition, the following shall apply:

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or any testing laboratory recognized by the DM Certification Body.
- 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 DMS 1: Part 1 Specification for precast concrete 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.
- 3.2 DM Certification Body: Product Conformity Assessment Section/PCAS-DCLD.

4. GENERAL REQUIREMENTS

- 4.1 The supplier/client shall have a valid license (issued by Dubai Department of Economic Development) to supply the product.
- 4.2 The supplier/client shall have a factory/yard within Dubai Emirate wherein products subject to certification will be stored and where sampling shall take place.
- 4.3 The supplier/client shall register as User of the DM SMART SERVICE – Block Batch Certification

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5. REGISTRATION OF THE SUPPLIER/CLIENT

- 5.1 Documents required to be submitted for online registration thru (Accela):
- Forms 1 to 5 of DM Admin Order 108/1990 (Executive Regulation of LO 44/1990) duly signed
 - Valid trade/industrial license issued by the Dubai Department of Economic Development;
 - Quality/operation manual (optional)
 - CV of factory technical representative.
 - Factory/yard lay-out showing location where products subject to certification are stored;
 - Product description (lot size, bundles per lot, and x-y-z layout of bundles);
 - Proposed product labeling and numbering system for traceability of the lots being certified;
 - Proposed product identification mark (only for factories located in Dubai);
 - Copy of the factory/yard register format.

- 5.2 Items to be verified during the initial factory/yard inspection:

- Visual verification of the factory/yard and the lay-out of the blocks in the yard;
- Visual verification of the identification system for the lots (tags or labels on the bundles, and the numbering system for the lots).
- Visual verification of the product identification mark (applied on the blocks).

- 5.3 DM-Certification Body shall carry out initial testing of the product in accordance with DMS 1 P1 requirements. The DM-Certification Body shall draw random samples from the factory/yard and submit the samples at an Independent Testing Laboratory for the following tests (in accordance with the test methods specified in the Standard Specifications):-
- a. Compressive strength
 - b. Dimension
 - c. Net Density (to be declared initially by the manufacturer for each type and configuration of its Masonry blocks)
 - d. Chloride and Sulfate
 - e. Drying Shrinkage
 - f. Thermal conductivity (whenever applicable)

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

- 5.4 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.

6. REQUEST FOR CERTIFICATION

- 6.1 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.
- 6.2 The Supplier/client shall submit online request for certification for each lot of the product on the day prior to the proposed sampling date.

7. SAMPLING AND TESTING

- 7.1 A representative sample shall be selected in accordance with a random sampling plan from the lot that is

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subject to certification. The number of specimens (blocks) to be collected shall be in accordance with the Standard Specification.

- 7.2 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
- 7.3 Additional tests (Full testing as required under clause 5.3) to be carried out every three months on both normal weight and light weight Masonry Blocks from each registered supplier/client.
- 7.4 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".
- 7.5 If the result of the routine testing (clause 7.2) is "FAILED", the client has the option to retest the failed product from the same lot and carrying out the same test where the result is "FAILED".
- 7.6 If any of the results of non-routine tests "FAILED" in the additional tests (clause 7.3), that particular test will be shifted to the routine test (clause 7.2) for the next lot. This test will remain in the routine test category until the result is "PASSED", after which, the requirements of clause (7.3) will re-apply.

8. ISSUE OF CERTIFICATE OF CONFORMITY

- 8.1 If the results of the above-mentioned tests are all "PASSED", an online Certificate of Conformity shall be issued for the particular lot where the sample was taken.
- 8.2 If one or more of the results, after carrying out the retest, is "FAILED", an online Certificate of Non-Conformity shall be issued for the particular lot.
- 8.3 In case of a "FAILED" result in routine test, the client may waive to carry out retest online (clause 7.5) in which case a Certificate of Non-Conformity shall be issued.

9. SURVEILLANCE

- 9.1 DM Certification Body shall carry out surveillance of the certified product by taking samples from factory and construction sites. The samples shall be taken to DCLD laboratory for verification testing to ensure that only certified products are used in the field.
- 9.2 In case of non-compliance, the provisions in the Local Order No. 44 and as amended in LO 1:2012 shall be applied, in addition to the General Rules clause 11 "Suspension and Withdrawal of Registration". A supplier whose registration has been suspended or withdrawn shall not be allowed to submit any product for certification.

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10. FEES

- 10.1 The DM Certification Body shall charge the following online fees in accordance with the fee schedule:
- 10.1.1 Sampling Fee
 - 10.1.2 Travel time fee
 - 10.1.3 Certification fee
- 10.2 Testing fees shall be paid directly by client to the Independent Testing Laboratory that carried out the tests.
- 10.3 Fees shall be paid online by the supplier/client thru the agreed online payment channels.

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