



Specific Rules for Batch Certification of Concrete Blocks As Per Local Order 44/1990

Dubai Central Laboratory- Inspection and Certification Section

Doc. Ref :RD-DP20-1104 (IC)

Rev. No.: 4

Issue Date :26-10-2009

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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)

Prepared by

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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" (RD-DP20-1001).

2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 2.1 Product name: Normal weight concrete masonry blocks
Normal weight concrete paving blocks
Normal weight and lightweight filler 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.

3. DEFINITION OF TERMS

The definitions given in Local Order 44/1990, 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.
- 3.3 Lot – is equivalent to 1 batch of product. The lot size shall not exceed 10,100 blocks. This terminology is being used in order to make it consistent with the terminology used in the Standard Specification.

4. GENERAL REQUIREMENTS

- 4.1 The supplier shall have a valid license (issued by Dubai Department of Economic Development) to supply the product.
- 4.2 The supplier 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 shall be registered with the DM Certification Body.

5. REGISTRATION OF THE SUPPLIER

- 5.1 Documents required to be submitted for registration:

-Filled Application Form

- 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
- 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);

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- 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. The DM-Certification Body shall draw random samples from the factory 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. Density (only for Filler blocks)
- d. Chloride

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

5.4 After satisfying the above requirements, the establishment shall be informed officially and shall be included in the list of registered Suppliers for this certification scheme. The establishment can start submitting requests for certification of specific lots.

6. REQUEST FOR CERTIFICATION

6.1 Prior to submitting the request for certification, the supplier 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 shall submit a request for certification for each lot of the product. The request form may be submitted thru fax or through the DM e-services (internet) to Inspection and Certification Unit DCLD 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 subject to certification. The number of specimen (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.

- 7.2.1 Masonry blocks
 - a. Compressive strength
 - b. Dimension

- 7.2.2 Paving blocks
 - a. Compressive strength
 - b. Dimension

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7.2.3 Filler blocks (normal weight)

- a. Dimension
- b. Density

7.2.4 Filler blocks (light weight)

- a. Dimension
- b. Density
- c. Compressive Strength

7.3 Additional test to be carried out every six months

- 7.3.1 Compressive Strength on one sample for normal weight filler blocks only.
- 7.3.2 Chloride on one sample (regardless of block type).

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 tests "FAILED" in additional test (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", a 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", a 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 (clause 7.5) in which case a Certificate of Non-Conformity will 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 shall be applied.

10. FEES

10.1 The DM Certification Body shall charge the following 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 The DM Certification body shall send an Invoice for any certification service rendered to the Supplier. Fees shall be paid to Dubai Central Laboratory Department.

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