



Specific Rules for Batch Certification of AAC Masonry Blocks As Per DMS 1 Part 3: 2006

Dubai Central Laboratory- Inspection and Certification Section

Doc. Ref :RD-DP20-1102 (IC)

Rev. No.: 6

Issue Date :03-11-2010

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Issue Date	Rev. No.	Summary Of Amendments
18/01/2004	0	Draft for comments
27/01/2004	0	2 nd Draft for comments
05/02/2004	0	Final draft
09/02/2004	1	Issue for use
10/07/2004	2	Issue of Revision 2: To accommodate amendments in DMS 1: Part 3: 2004
23/05/2006	3	Reference to DMS 1 Part 3 has been updated to remove the year (always refer to latest edition).
12-07-2009	4	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	5	Surveillance testing frequency is revised to 3 months for all tests(clause 7.2.2).
03-11-2010	6	Updated

Prepared by

Authorized 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: Autoclaved aerated concrete masonry blocks
- 2.2 Applicable standard/Normative reference: **DMS 1: Part 3: 2006 Specification for pre-cast concrete units, Autoclaved aerated concrete masonry units.**

3. DEFINITION OF TERMS

The definitions given in **RD-DP20-1001**, **DMS 1: Part3: 2006**, and, in addition, the following shall apply:

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or independent testing laboratory recognized by the DM Certification Body.
- 3.2 Standard Specification – **DMS 1: Part 3: 2006**
- 3.3 Lot – is equivalent to 1 batch of product. This terminology is being used in order to make it consistent with the terminology used in the **DMS 1: Part 3: 2006**

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. In exceptional cases, the DM-Certification Body may carry out sampling from location outside Dubai.
- 4.3 The supplier shall be registered with the DM-Certification Body.

5. REGISTRATION OF THE ESTABLISHMENT

- 5.1 Documents required to be submitted for registration:
- Filled application form
 - Valid trade/industrial license issued by the Dubai Department of Economic Development;
 - 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;
 - Copy of the factory/yard register format.

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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 Specification):

Density
Compressive strength
Dimension
Chloride and Sulphate
Drying shrinkage
Thermal conductivity

5.4 As per the Standard Specification, the supplier shall declare the density and thermal conductivity of blocks intended to be used for thermal insulation, prior to the initial testing as per [5.3].

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

5.6 After satisfying the above requirements, the establishment 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 shall be filled up and faxed 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. The sample shall be tested at the Independent Testing Laboratory.

7.2 Testing shall be carried out under two categories as follows:

7.2.1 Routine certification testing, to be carried out for each lot:

- a Compressive strength
- b Dimension

7.2.2 Surveillance testing to be carried out every three months on samples taken from the factory or from the construction sites in Dubai,

- a. Density
- b. Thermal conductivity

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- c. Chloride and Sulphate
- d. Drying shrinkage

7.3 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".

If the result 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". If the retest sample is "PASSED", then the final result is considered as "PASSED" otherwise, if it is "FAILED", the final result will be considered as "FAILED".

7.4 If any of the final results of tests "FAILED" in surveillance testing (clause 7.2.2), that particular test will be shifted to the routine test (clause 7.2.1) for the next lot. This test will remain in the routine test category until the result is "PASSED", after which, the requirements of clause (7.2.2) will re-apply.

8. ISSUE OF CERTIFICATE OF CONFORMITY

8.1 If the final results of the routine tests (clause 7.2.1) 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 final results is "FAILED", a Certificate of Non-Conformity shall be issued for the particular lot.

9. MARKET MONITORING

9.1 DM Certification Body shall carry out inspection of construction sites to ensure that only certified products are used.

9.2 In case of non-compliance, appropriate action shall be taken in accordance with the General Rules clause on "Suspension and Withdrawal of Registration". A supplier whose registration has been suspended or withdrawn shall not be allowed to submit any product for certification.

10. FEES

10.1 The fees shall cover both routine testing and surveillance testing activities as mentioned in clause 7.

10.1 The DM Certification Body shall charge the following fees in accordance with the fee schedule:

- Sampling Fee
- Travel time fee
- Certification fee

10.2 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.

10.3 The client shall pay the testing fees directly to the Independent Testing Laboratory that carried out the tests.

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