



**Specific Rules for Batch Certification of Normal-Weight and Light-Weight Precast Concrete-Polystyrene Sandwich Masonry Blocks As Per DMS 1: Part 5: 2010**

**Dubai Central Laboratory- Inspection and Certification Section**

Doc. Ref : RD-DP20-1106 (IC)

Rev. No.: 5

Issue Date :28-10-2010

Page 1 of 4

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.

Prepared by

Authorized by

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Page 2 of 4

**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 and Light-Weight Precast concrete-Polystyrene Sandwich Masonry Blocks
- 2.2 Applicable standard/Normative reference: DMS 1: Part 5: 2010 Specification for Precast concrete Blocks. Concrete-polystyrene sandwich masonry blocks

**3. DEFINITION OF TERMS**

The definitions given in **RD-DP20-1001**, **DMS 1: Part 5: 2010**, 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 – DMS 1: Part 5: 2010 Specification for Precast Concrete Blocks. Concrete-Polystyrene Sandwich Masonry Blocks
- 3.3 Lot – is equivalent to 1 batch of product.

**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
  - 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;
  - Proposed product identification mark;(only for factories located in Dubai)
  - Copy of the factory/yard register format.
- 5.2 DM Certification Body shall carry out initial factory/yard inspection in order to verify the following:

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**Rev. No.: 5**  
**Page 3 of 4**

- 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).
- Visual verification of the presence of DCL Conformity Mark or Certificate of Conformity for the polystyrene thermal insulation core.

5.3 DM-Certification Body shall carry out initial testing of the product to verify its conformity with the Standard Specifications. Prior to initial testing, the supplier shall declare the thermal conductivity of the block.

5.4 The DM-Certification Body shall draw random samples from the factory and submit the samples to an Independent Testing Laboratory for the following tests(in accordance with the test methods specified in the Standard Specification):

- 5.3.1 Compressive Strength
- 5.3.2 Dimensions
- 5.3.3 Chloride and Sulphate Content
- 5.3.4 Thermal Conductivity

Sampling and test methods shall be in accordance with those mentioned in the Standard Specifications, and the results of testing shall meet the requirements as stated therein. For thermal conductivity, the results shall not exceed the declared value.

5.5 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 OF SPECIFIC LOTS**

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 section 8 of the standard specification.

7.2 DM Representative shall confirm that the polystyrene thermal insulation core is certified by Dubai Municipality 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.

7.3 The sample shall be submitted for testing at the Independent Testing Laboratory. Tests to be carried out for each sample (in accordance with the test methods specified in the Standard Specification) are as follows:-

- 7.3.1 Routine certification testing, to be carried out for each lot
  - 7.3.1.1 Compressive strength

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Page 4 of 4

7.3.1.2 Dimensions

7.3.2 Surveillance testing to be carried out every six months samples taken from the factory or from the construction sites in Dubai.

7.3.2.1 Chloride and Sulphate

- 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 any of the results in the routine testing (clause 7.3.1) 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".
- 7.6 If any of the results of tests "FAILED" in surveillance testing (clause 7.3.2), that particular test will be shifted to the routine test (clause 7.3.1) for the next lot. This test will remain in the routine test category until the result is "PASSED", after which, the requirements of clause (7.3.2) will re-apply.

**8. ISSUE OF CERTIFICATE OF CONFORMITY**

- 8.1 If the final results of the routine tests (clause 7.3.1) 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 results, after carrying out the retest, is "FAILED", a Certificate of Non-Conformity shall be issued for the particular lot.

**9. SURVEILLANCE**

- 9.1 DM Certification Body shall carry out a planned surveillance of the product in the market by taking samples from construction sites where the certified products are being used. The samples shall be taken to an Independent Testing Laboratory for verification testing to ensure that only certified products are used in the field.
- 9.2 In case of non-compliance found during surveillance, appropriate action shall be taken in accordance with 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.

**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 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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