



**Specific Rules For Certification of Precast Concrete Masonry Blocks
(as per DMS 1: Part 1:2011) Through Factory Assessment
Dubai Central Laboratory- Inspection And Certification Section**

Doc. Ref :RD-DP21-2169(IC)
Issue Date : 18/08/2011

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Issue Date	Rev. No.	Summary Of Amendments
06-08-2009	0	First draft for comments
23-02-2010	0	Second draft for comments
24-02-2010	0	Final draft (TC Meeting 2010-02)
03-03-2010	1	Issue for use
05-04-2010	2	Revised to align with the amended DMS, and the guidelines for the factory production control system.
28/06/2010	3	Amended the reference document for the fee structure of block factories in section 5.1
16/02/2011	4	Inclusion of the types of masonry blocks samples n in section 2.4.1 Distribution of tests for the different types of masonry block samples in section 2.4.2
18/08/2011	5	Reviewed with the requirements of the current version of the standard (2011) and found to be still suitable

Prepared by

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1. GENERAL

1.1 INTRODUCTION

- 1.1.1 This document prescribes the Specific Rules for the implementation of the DM Third Party Product Certification System through factory assessment as applied to the specific product(s) identified herein, taking into consideration the applicable normative references and standard specifications.
- 1.1.2 The applicant shall comply with these specific rules, and with those already mentioned in the "General Rules for DM Third Party Product Certification Through Factory Assessment", RD-DP21-2001 (IC).

1.2 SCOPE

This Specific Rules covers the requirements for the certification of precast normal weight and lightweight concrete masonry blocks that will be used in the Emirate of Dubai.

1.3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 1.3.1 Product Name: Precast Concrete Masonry Blocks
- 1.3.2 Applicable Standard/Normative Reference: **DMS 1: Part 1: 2011** Specification for precast concrete blocks Part 1: Masonry blocks
- 1.3.3 Additional References:

ISO 9001 - Quality Management System –Requirements
ISO 19011 - Guidelines for Quality and Environmental Management System Auditing

1.4 DEFINITION OF TERMS

In addition to the definitions given in **DMS 1: Part 1:2011** and RD-DP21-2001(IC) the following shall also apply:

- 1.4.1 Independent Testing Laboratory - Dubai Central Laboratory (DCL) or any testing laboratory recognized by the DM Certification Body.
- 1.4.2 Independent Test – test performed or conducted by an Independent Testing Laboratory
- 1.4.3 Standard Specification - **DMS 1 Part 1:2011** Specification for precast concrete blocks Part 1: Masonry blocks
- 1.4.4 Factory Production Control System (Product Quality Assurance Plan) - a document being agreed upon both by the licensee and the certification body being used to ensure continuous compliance of the certified product (RD-DP21-2090 (IC)).
- 1.4.5 QMS - Quality Management System aligned with the requirements of ISO 9001 Standard

2. REQUIREMENTS FOR CERTIFICATION

2.1 APPLICATION

- 2.2.1 Manufacturers of precast concrete masonry blocks shall apply to Dubai Central Laboratory Department (DCLD) for the certification license to use the DCL Product Conformity Mark.

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2.2.2 Application forms shall be filled-up by the applicant-company and submitted to DCLD together with the following documents

- a. Trade License
- b. Complete product description and specifications
- c. Brief Description of Manufacturing Process
- d. Copy of the Quality Manual (Controlled Copy)
- e. Vicinity Map and Factory Layout
- f. Valid Certification to ISO 9001 (If available)
- g. List of personnel and their designation

2.2 FACTORY OPERATION

2.2.1 Quality Management System

Manufacturer of precast masonry concrete blocks shall have a Quality Management System that is aligned to the requirements of ISO 9001 standard. NOTE: Certification to ISO 9001 is not a mandatory requirement.

2.2.2 Laboratory

Manufacturer of precast concrete masonry blocks shall have a quality assurance laboratory to carry out factory production control testing to ensure that the blocks comply with the requirements of the standard specification.

The laboratory can be part of the factory facilities, or, can be through a documented agreement with an accredited external laboratory. As a minimum requirement, the laboratory shall have the following testing equipment:

- a. Compressive testing machine for masonry blocks
- b. Dimensional measuring instruments

2.2.3 Unique Factory Identification Mark

The manufacturer of precast masonry concrete blocks shall submit to DCLD a unique factory identification mark for their products for approval. The DCLD approved mark shall be applied to the products covered by the certification.

2.3 INITIAL FACTORY AUDIT

2.3.1 DCL duly authorized representative shall conduct an audit of the factory quality management system to verify its compliance with the requirements of ISO 9001.

NOTE: An independent certification to ISO 9001 issued by a QMS certification body recognized by DM may be considered as having satisfied this requirement; however, the DM Certification Body reserves the right to carry out verification audit to confirm that the factory is in compliance with the QMS requirements.

2.3.2 Verification audit shall be conducted by designated audit team based on ISO 19011 – Guidelines for Quality and Environment Management System Auditing

2.4 PRODUCT EVALUATION

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2.4.1 Sampling Testing

2.4.1.1 Sampling for tests shall be carried out in accordance with the requirements specified in Clause 7 of the Standard Specification.

2.4.1.2 Three sets of sample per type shall be subjected to testing; the first set, if applicable, will be tested in the plant witnessed by a duly authorized DCL representative, the second set will be sent to independent testing laboratory. The third set will be kept by the manufacturer as reference.

The types of masonry block samples are classified into

1. Hollow/Cellular (Normal Weight) Masonry Block
2. Hollow/Cellular (Light Weight) Masonry Block
3. Solid (Normal Weight) Masonry Block
4. Solid (Light Weight) Masonry Block

2.4.1.3 Test sample(s) for independent test shall be identified and signed in the presence of DCL representative and shall be submitted to an independent testing laboratory.

2.4.2 Product Evaluation

2.4.2.1 Samples collected as per Clause 7 of the Standard Specification shall be subjected to in plant and independent test for the following properties:

For all types of masonry blocks samples [in-plant (mandatory) + independent]

- 2.4.2.1.1 Dimensional tolerance
- 2.4.2.2.2 Compressive strength
- 2.4.2.2.3 Shape

For all types of Hollow/Cellular Masonry Blocks samples [in-plant (mandatory) + independent]

- 2.4.2.2.4 External shell and web thickness

For any type of normal and light masonry block sample regardless of whether it is solid or hollow [in-plant (optional) + independent]

- 2.4.2.2.5 Chloride and sulphate content
- 2.4.2.2.6 Drying Shrinkage
- 2.4.2.2.7 Thermal conductivity
- 2.4.2.2.8 Net Density

2.4.2.2 If the factory is outsourcing the routine tests to an accredited laboratory, in-plant tests may be waived, provided that records of routine tests are available and in-line with the frequency of testing as per RD-DP21-2090 (IC).

2.4.2.3 Results of both the in plant and independent tests shall comply with clause 5 of the Standard Specification.

2.4.2.4 If the result of the test conducted by the independent testing laboratory shows non-conformance,

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the retest shall be carried out on the reference sample kept by the manufacturer or on new samples collected by DM Certification Body , on which full testing shall be carried out, if necessary.

2.4.2.5 If the retest passed, the initial product assessment is considered conforming to product specification. If not, the manufacturer will be advised to take corrective action.

3. GRANTING OF THE DCL LICENSE

3.1 CONDITIONS FOR GRANTING THE DCL LICENSE

3.1.1 When the results of the factory audit (clause 2.3) and product evaluation (clause 2.4) show conformity to the requirements specified in the General Rule and Specific Rule, the license to use the DCL Conformity Mark shall be issued to the manufacturer for the type(s) and size of the product tested.

3.1.2 The factory shall agree with the DM Certification Body for the preparation and implementation of a product quality assurance plan to ensure continuing compliance with the Standard Specifications and the requirements of this certification scheme. It shall consist of (1) an internal product quality assurance plan, and (2) an independent testing plan.

3.1.3 Factory Production Control System (Internal Product Quality Assurance Plan)

The factory shall prepare and submit to DM Certification Body for approval a factory production control system (internal product quality assurance plan) which shall conform to RD-DP21-2090 (IC)

The plan shall take into consideration the production process, the volume of production, the criticality of the test to be specified, and other relevant factors.

3.1.4 Independent Testing Plan

The factory shall agree to an independent testing plan to be carried out on samples which are collected in accordance with RD-DP21-2096 (IC) – Surveillance of Licensed Establishments under the Factory Assessment Scheme, and implemented by the DM Certification Body. The cost of testing under the independent testing plan shall be borne by the factory.

3.2 ISSUANCE OF DCL LICENSE

If the conditions mentioned in clause 3.1 above have been complied, the manufacturer of precast concrete masonry blocks shall be issued a DCL Certification License and a Scope of Certification that covers the type(s) and size of the products that are certified.

3.2 RESPONSIBILITIES OF THE LICENSEE

3.2.1 Every licensee shall ensure that his product, for which a license has been issued, conforms at all times to the requirements of the General Rule and Specific Rules and shall maintain to the satisfaction of DCL, a system of quality control including inspection and testing.

3.2.2 The licensee shall give the duly authorized representative(s) of DCL, access during working hours, without prior notification, to the premises of the factory where certified product is manufactured, for the purpose of evaluating the materials, production processes, finished products, quality assurance facilities, records and others in accordance with the requirements of the scheme.

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- 3.3.3 The licensee shall inform the DM Certification Body in writing of any change of management, transfer of plant site, modification in the product, manufacturing process or factory quality management system.
- 3.3.4 Upon transfer of plant site, the license shall be deemed valid only after factory and product audit at the new site has been satisfactorily completed.
- 3.3.5 Any infraction stated in the Terms and Conditions for the use of DCL Conformity Mark shall constitute sufficient grounds for suspension, withdrawal and cancellation of the license against a licensee.
- 3.3.6 Any dispute that may arise in connection with the Terms and Conditions of the DCL Mark shall be settled in accordance with RD-IC-0005 Appeals, Disputes, and Complaints Procedure.
- 3.3.7 The licensee shall pay all applicable fees related to the certification process.

3.4 USE OF THE DCL CONFORMITY MARK

- 3.4.1 The design and use of the DCL Conformity Mark shall be in accordance with the Terms and Conditions for the Use of the DCL Conformity Mark, RD-DP21-2098 (IC)
- 3.4.2 The licensee shall submit samples of tag showing the DCL Conformity Mark, for approval by the DM Certification Body.
- 3.4.3 The license to use the DCL Certification Mark is non-transferable.

4. SURVEILLANCE

- 4.1 DM Certification Body shall carry out periodic surveillance to ensure consistent compliance with the requirements of this certification scheme as per RD-DP21-2096 (IC) – Surveillance of Licensed Establishments under the Factory Assessment Scheme.
- 4.2 The surveillance shall be in accordance with the Independent Testing Plan (clause 3.1.4) that has been agreed between the DCLD and the factory.

5. FEE SCHEDULE

- 5.1 The licensee shall pay the applicable fees and charges related to the granting of the license to use the DCL Conformity Mark based on the Fee Structure for Factory Assessment of Block Factories, RD-DP21-2089 (IC).
- 5.2 The fees for this certification scheme shall include but not limited to the following;
- 5.2.1 Application Fee
 - 5.2.2 Initial Assessment Fee
 - 5.2.3 Marking Fee
 - 5.2.4 Surveillance Fee
 - 5.2.5 Annual Renewal Fee
 - 5.2.6 Testing Fee

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