

 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 AAC Masonry Blocks as per DMS 1: Part 3 - 2011	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP20-1102 (IC)	رقم الوثيقة :	

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
21/08/2011	7	Aligned with the latest version of DMS 1 Part 3:2011 AAC Masonry Blocks
14/11/2113	8	Updated, the year of the standard is removed
18/06/2017	9	Update to align with the online smart service's (Accela) requirements; in addition to some modifications in initial testing and sampling and testing requirements.
27/03/2019	10	Updated as per new DM template and new DM logo
22/03/2020	11	Adding provisions for printing details of the lot on each bundle per batch/lot & Annex 1 and amending the provision under market monitoring and adding frequency for full testing. Changing font type
04/05/2020	12	Updated to allow printing only on one side of the bundles. Removing the figure for the printing on the opposite side of the bundle.
06/09/2020	13	Adding the option of remote sampling and minor highlighted changes in some clauses and some other editorial changes

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1. INTRODUCTION

- 1.1 This document contains the specific rules for the implementation of the DM Third Party Product Certification Scheme 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 Scheme Through Batch Testing” (**DM-DCLD-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 – 2011 - Specification for pre-cast concrete blocks, Autoclaved aerated concrete masonry units.

3. DEFINITION OF TERMS

The definitions given in DM-DCLD-RD-DP20-1001, DMS 1: Part 3, and, in addition, the following shall apply:

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or independent testing laboratory recognized by DCLD-PCAS.
- 3.2 Standard Specification – DMS 1: Part 3 - 2011
- 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 - 2011
- 3.4 DM Certification Body - Dubai Central Laboratory- Product Conformity Assessment Section- DCLD-PCAS

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

5. REGISTRATION OF THE SUPPLIER/CLIENT

- 5.1 Documents required to be submitted for online registration thru DM- Smart System:
- Completed application form
 - 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;

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- 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) and the proposed marking requirements as per Annex 1).

5.3 DCLD-PCAS shall carry out initial testing of the product. DCLD-PCAS shall draw random samples from the factory and submit the samples at any DCLD-PCAS Approved Independent Testing Laboratory for the following tests (in accordance with the test methods specified in the Standard Specification):

Gross Density
Normalized Compressive strength
Dimension
Chloride and Sulphate
Drying shrinkage
Thermal conductivity (Whenever applicable)

5.4 As per the Standard Specification, the supplier/client shall declare the density in addition to thermal conductivity (for 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/clients for this certification scheme. The establishment can start submitting online requests for certification of specific lots.

5.7 Sampling can be done also remotely based on the decision of DCLD-PCAS management which can be carried out thru video recording, live streaming thru any of the communication IT apps like (MS TEAMS, ZOOM,.....etc.). Records of samplings shall be kept accordingly.

6. REQUEST FOR CERTIFICATION OF SPECIFIC LOTS

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/clients shall submit online request for certification of each lot of the product on the day prior to the proposed sampling date.

6.3 The supplier/clients shall follow the printing requirements on each bundle/per lot as detailed in Annex 1

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 (See also clause 5.7). The number of specimens (blocks) to be collected shall be in accordance with the Standard Specification.

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7.2 The sample shall be submitted for testing at any DCLD-PCAS Approved 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:-

- a Compressive strength
- b Dimension

7.3 Additional tests (Full testing as required under clause 5.3) to be carried on randomly selected AAC Blocks every quarter 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".

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" then clause 8.2 shall be applied.

7.5 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 (7.2) will re-apply.

8. ISSUE OF CERTIFICATE OF CONFORMITY

8.1 If the final results of the routine tests (clause 7.2) are all "PASSED", online 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", online Certificate of Non-Conformity shall be issued for the particular lot.

9. SURVEILLANCE

9.1 DCLD-PCAS shall carry out periodic inspection on the registered block factories/yards and shall coordinate with regulatory bodies to ensure that only certified products are used in construction sites.

9.2 In case of non-compliance found during surveillance, appropriate action shall be taken in accordance with the clause 11 of the General Rules "DM-DCLD-RD-DP20-1001(IC)". The establishment whose registration has been suspended or withdrawn shall not be allowed to submit any product for certification.

10. FEES

10.1 DCLD-PCAS 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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ANNEX 1 – PROVISIONS FOR PRINTING BATCH DETAILS

- All lots available in the factory within Dubai and yards which are intended to be certified shall be arranged in such a way that printing of details of the lots will be implemented at least on one side of each bundle.
- Once online request is created the supplier/factory shall print the following details on at least one side of each bundle within the batch/lot : (Refer to Figure 1):
 - Manufacturer Name
 - Request number (for example : BCE-2020-000088)
 - Lot number
 - Production Date
 - Size
 - Bundle No.
 - Product Code
 - Density
 - Thermal Conductivity
- Blocks stacked on each bundle should be of a height up to 1.5 meters; however the maximum allowed height shall not exceed 1.8 meters (Not including height of pallet or any packing materials).
- If the factory is outside Dubai, then printing the details as mentioned in point 2, shall **only** be implemented after stocking the lot in the yard within Dubai. **It is not allowed to print any details while the lot is still in the factory's location outside Dubai** (Printing can be automated or manual).
- Printing quality shall be clear and visible to naked eyes with suitable font sizes and each letter or number height shall not be less than 2 inches. All letters shall be capital.
- While transporting the certified lots, the printing direction shall be clear and facing the sides of the transporting vehicle for both rows of bundles above the trailer. (Refer to Figure 2)

Figure 1- Example of the printing details

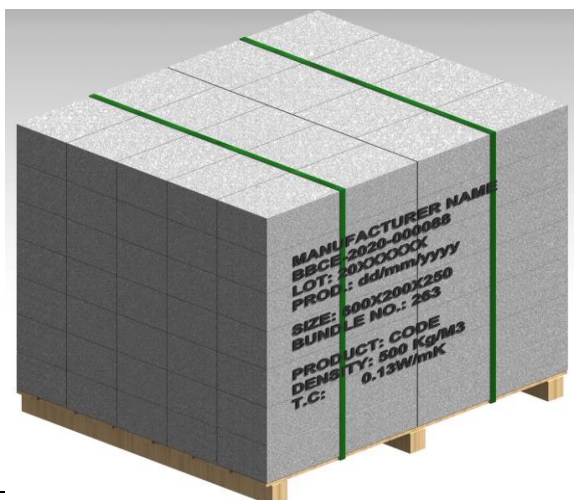


Figure 2 : Printing direction while transferring the Blocks



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