

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of AAC Masonry Blocks as per DMS 1: Part 3 - 2020	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP20-1102 (IC)	رقم الوثيقة :	

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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
21-08-2011	7	Aligned with the latest version of DMS 1 Part 3:2011 AAC Masonry Blocks
14-11-2013	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
02-11-2020	14	Updated as per the latest revision of DMS 1 Part 3: 2020 and new added requirements. Updated for the new followed terminology- Clause on handling the failure in non-routine testing is included in the specific rule. Some additional provisions for failure in surveillance testing, among other amendment (highlighted)
04-10-2022	15	Updated new section name and replace HOU by CQPSM. Removal of applicable fines in 9.2
27-03-2023	16	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Additional minor changes (highlighted). Use of New DM Logo

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1. INTRODUCTION AND SCOPE

- 1.1 This document prescribes the specific rule for certification of the product(s) as identified herein, in accordance with the requirements of DM Third Party Product Certification Scheme Through Batch Testing, taking into consideration the applicable normative references and standard specification, in addition to the requirements for conformity evaluation, as stated below.
- 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(IC))**.
- 1.3 This specific rule **is an integral part of the general rule** and both shall always be read together.
- 1.4 This specific rule does not -by itself- permit the use of the below product in the construction sites. However, it does provide the necessary general conformity assessment criteria, which are required for the evaluation and issuance of the certification. Other relevant requirements issued by the regulatory bodies if any; shall always be fulfilled.

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 – 2020 - 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 3-2020, and, in addition, the following shall apply:

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or independent testing laboratory recognized by DCLD-CQPS.
- 3.2 Standard Specification – DMS 1: Part 3 - 2020
- 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 - 2020
- 3.4 DM Certification Body - Dubai Central Laboratory- Certification and Quality Control of Products Section - DCLD-CQPS
- 3.5 The supplier/client : The manufacturer of Autoclaved Aerated Concrete Masonry Blocks

4. GENERAL REQUIREMENTS FOR CERTIFICATION

- 4.1 The process of application, registration of supplier/client and product sampling ,surveillance sand fees shall be in line with the related provisions in the general rule and the standard specifications.

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4.2 Product Evaluation and testing

4.2.1 DCLD-CQPS shall carry out initial product evaluation and testing in accordance with DMS 1 Part 3 requirements. DCLD-CQPS shall draw or arrange drawing samples remotely by any applicable means (like video recording, MS TEAMS, ZOOM ,...etc.) by the factory representative(s)-where applicable- from the factory/yard (refer to clause 4.4). The samples to be submitted to any of DCLD-CQPS approved Independent Testing Laboratory for the following tests (in accordance with the test methods specified in the Standard Specifications):-

- Gross Density
- Normalized Compressive Strength
- Dimension
- Chloride And Sulphate Content
- Drying shrinkage
- Thermal conductivity (Whenever applicable)
- Appearance (Visual Aspects)
- Special Texture (Visual Aspects)
- Durability Aspect

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

4.2.3 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 [4.2.1].

4.2.4 After satisfying the above requirements, the supplier/client 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.

4.3 Request for Certification

4.3.1 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.

4.3.2 The Supplier/client shall submit the request for certification for each lot of the product on the day prior to the proposed sampling date and only upon making the printing on each and all bundles in the yard as per Annex 1.

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

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4.4 Sampling and Testing

- 4.4.1 A representative sample shall be selected in accordance with a random sampling plan from the lot that is subject to certification. The number of specimens (blocks) to be collected shall be in accordance with the Standard Specification.
- 4.4.2 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:
- Compressive strength
 - Dimension
- 4.4.3 Additional tests (Full testing as required under clause 4.2.1) to be carried out on randomly selected AAC Blocks every quarter from each registered supplier/client.
- 4.4.4 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”.
- 4.4.5 If the result of the routine testing (clause 4.4.2) 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”.
- 4.4.6 If any of the results of non-routine tests “FAILED” in the additional tests (clause 4.4.3), that particular test will be shifted to the routine test (clause 4.4.2) for the next lot. This test will remain in the routine test category until the result is “PASSED”, after which, the requirements of (clause 4.4.3) will re-apply.

5. ISSUE OF CERTIFICATE OF CONFORMITY

- 5.1 If the results of the routine tests (clause 4.4.2) are all “PASSED”, a Certificate of Conformity shall be issued for the particular lot where the sample was taken.
- 5.2 If one or more of the final results is “FAILED”, the lot shall be consider as non-conforming lot.
- 5.3 In case of a “FAILED” result in routine test, the client may waive to carry out retest online (clause 4.4.5) in which case a Certificate of Non-Conformity shall be issued.
- 5.4 In case of a “FAILED” result in non-routine test, a Certificate of Non-Conformity shall be issued and the provision under (clause 4.4.6) shall be applied.

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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

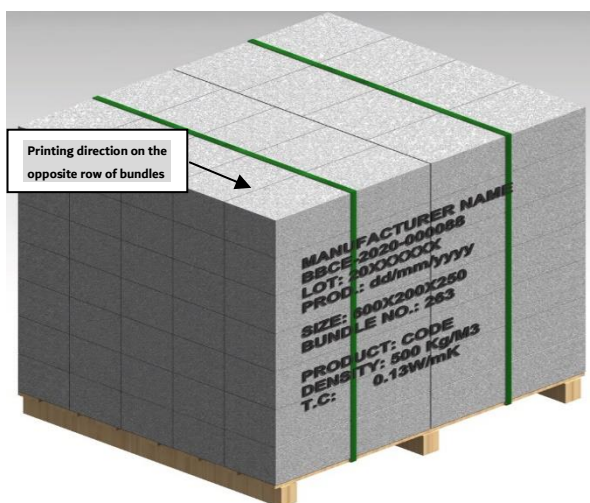


Figure 2: Printing direction while transferring the Blocks



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