



Specific Rules For Batch Certification Of Factory Made Cellular Glass Thermal Insulation Products For Buildings As Per BS EN 13167:2001

Dubai Central Laboratory- Inspection and Certification Section

Doc. Ref :RD-DP20-1108 (IC)

Rev. No.: 2

Issue Date :12-07-2009

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Issue Date	Rev. No.	Summary Of Amendments
21/02/2006	0	Final draft for comments
08/03/2006	1	Issue for use
12/07/2009	2	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). Application Form-Added.

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 Specifications 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: Factory Made Cellular Glass Thermal Insulation Products for Buildings
- 2.2 Applicable standard/Normative reference: BS EN 13167:2001 Thermal insulation products – Factory made cellular glass (CG) products - Specification
- 2.3 Additional reference: BS EN 13172:2001 Thermal insulating products – Evaluation of conformity.

3. DEFINITION OF TERMS

The definitions given in **RD-DP20-1001**, BS EN 13167: 2001, BS EN 13172:2001 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 – BS EN 13167:2001 Thermal insulation products – Factory made cellular glass (CG) products - Specification

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 ESTABLISHMENT

- 5.1 Documents required to be submitted for registration:
- 5.1.1 Filled Application Form;
- 5.1.2. Valid trade/industrial license issued by the Dubai Department of Economic Development;
- 5.1.3 Factory/yard lay-out showing location where products subject to certification are stored;
- 5.1.4 Product description (batch size, bundles per batch, etc);

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- 5.1.4 Proposed product labeling and numbering system for traceability of the batch being certified;
5.1.5 Proposed product identification mark;

5.2 The applicant shall also submit to Dubai Central Laboratory manufacturer's declaration of product specification as follows (in accordance with the test methods specified in the Standard Specification):

- 5.2.1 Thermal Resistance and thermal Conductivity
5.2.2 Length & Width
5.2.3 Thickness
5.2.4 Flatness
5.2.5 Squareness
5.2.6 Dimensional Stability
5.2.7 Point Load
5.2.8 Density
5.2.9 Water Vapor Transmission

Note: Other relevant to the specific application of the products for certification shall also be declared by the applicant , if required.

5.2 Items to be verified during the initial factory/yard inspection:

- Visual verification of the factory/yard and the lay-out in the yard of the products to be certified;
- Visual verification of the identification system for the batches (tags or labels on the bundles, etc.).
- Visual verification of the product identification mark (applied on the product)

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):

Thermal Resistance and Thermal Conductivity

- Note: 1. Since BS EN 1266, test method for thermal resistance and thermal conductivity, is the same as that of the ASTM C 518, ASTM C 177, ISO 8301 and ISO 8302, DCL may opt to use any of these test methods.*
2. Temperature condition to be used in carrying out this test will be as per Dubai Municipality requirement, that is @ 35°C and 60% Relative Humidity.

- 5.3.1 Length and Width
5.3.2 Thickness
5.3.3 Squareness
5.3.4 Flatness
5.3.5 Dimensional Stability under 70°C temperature and 90% humidity conditions
5.3.6 Point Load
5.3.7 Reaction to fire
5.3.8 Density
5.3.9 Water Vapor Transmission

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

5.4 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 batches.

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6. REQUEST FOR CERTIFICATION

- 6.1 Prior to submitting the request for certification, the supplier shall prepare the batches 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 Section DCLD.
- 6.3 The request for certification shall give details of the batch to be certified, including details of the project where it is going to be used.

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 batch certification.
- 7.2 The sample shall be submitted for testing at the Independent Testing Laboratory. The test to be carried out for each batch (in accordance with the Test Method mentioned in the Standard Specification will be as follows:
- 7.2.1 Length and Width
 - 7.2.2 Thickness
 - 7.2.3 Squareness
 - 7.2.4 Flatness
 - 7.2.5 Density
 - 7.2.6 Thermal Resistance and Thermal Conductivity
- 7.3 Additional tests to be carried out on the initial batch certification and on one batch every six months, thereafter:
- 7.3.1 Reaction to fire
 - 7.3.2 Dimensional Stability
 - 7.3.3 Point Load
 - 7.3.4 Water Vapor Transmission

Note: Properties for specific application (as per clause 4.3 of BS EN 13167) that are not included in the above-mentioned tests has to be carried out based on applicant's declaration.

- 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".

Note: If the initial testing described in section 5.3 was carried out on samples drawn from a defined batch, the result of the initial testing may be used to certify that particular batch.

8. ISSUE OF CERTIFICATE OF CONFORMITY

- 8.1 If the results of the above-mentioned tests are all "PASSED", a Certificate of Conformity shall be issued for the particular batch where the sample was taken.
- 8.2 If one or more of the results is "FAILED", a Certificate of Non-Conformity shall be issued for the particular batch.
- 8.3 The certificate whether Conformity or Non-conformity shall clearly identify the tests that were carried out by the independent testing laboratory.

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8.4 The certificate of Conformity shall identify the Dubai construction project where the particular batch will be used.

9. SURVEILLANCE

9.1 DM Certification Body shall carry out surveillance of the product in the market by taking samples from 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.

11. FEES

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

Sampling Fee
Travel time fee
Certification fee
Marking fee
Note: Testing fee (see clause 11.3)

11.2 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.

11.3 Testing fees shall be paid by the client directly to the Independent Testing Laboratory that carried out the tests.

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