



**Specific Rules For Certification of Factory Made Mineral Wool Thermal Insulation  
(As per BS EN 13162:2008) Through Factory Assessment  
Dubai Central Laboratory- Inspection And Certification Section**

**Doc. Ref :RD-DP21-2130 (IC)**  
**Issue Date :09/08/2009**

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| Issue Date | Rev. No. | Summary Of Amendments  |
|------------|----------|--|
| 15-07-2006 | 0        | First draft for comments   |
| 22-07-2006 | 0        | Final draft  |
| 25-07-2006 | 1        | Issue for use  |
| 09-08-2009 | 2        | Reviewed with the requirements of the current version of the standard and found to be still suitable.<br>Document reference number and format is changed according to the new IMS, statement for the independent testing plan was changed, and the statement for surveillance was shortened by referring the appropriate procedure, RD-DP21-2096 (IC). |

**Prepared by**

**Authorized by**

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**1. INTRODUCTION**

- 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.
- 1.2 The applicant shall comply with these specific rules, **and** to those already mentioned in the “General Rules for DM Third Party Product Certification System Through Factory Assessment “{RD-DP21-2001 (IC)}.

**2. SCOPE**

- 2.1 This specific rule applies only to factory made mineral wool thermal insulation materials with a minimum thickness required to achieve a U value in accordance with relevant DM Regulation/s.

**3. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE**

- 3.1 Product name: Factory Made Mineral Wool Thermal Insulation
- 3.2 Applicable standard/Normative reference: BS EN 13162:2008 Thermal insulation products for buildings – Factory made mineral wool (MW) products - Specification
- 3.3 Additional reference:
- 3.3.1 ASTM C 518, Thermal transmission properties by heat flow meter
- 3.3.2 ASTM C 177, Thermal transmission properties by guarded hot plate
- 3.3.3 ASTM E 96, Water vapor transmission of materials
- 3.3.4 ISO 9001:2008, Quality Management System – Requirements
- 3.3.5 ISO 19011:2002, Guidelines for Quality and Environmental Management System Auditing

**4. DEFINITION OF TERMS**

The definitions given in EN ISO 9229, BS EN 13162:2008, RD-DP21-2001 (IC) and in addition, the following shall apply:

- 4.1 Independent Testing Laboratory - Dubai Central Laboratory (DCL) or any testing laboratory recognized by the DM Certification Body.
- 4.2 Independent Test – test performed or conducted by an Independent Testing Laboratory
- 4.2 Standard Specification (SS) – BS EN 13162:2008 Thermal Insulation Products for Buildings – Factory Made Mineral Wool (MW) products - Specification
- 4.4 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.
- 4.5 QMS – Quality Management System aligned with the requirements of ISO 9001:2008 Standard

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**5. APPLICATION**

- 5.1 Manufacturer/producer of thermal insulation for buildings – factory made mineral wool products shall apply to Dubai Central Laboratory Department through Certification Unit for the License to use the DCL Conformity Mark.
- 5.2 Application forms shall be filled-up by the applicant-company together with the following documents
- 5.2.1 Trade License
  - 5.2.2 Complete Product Description and specifications
  - 5.2.3 Brief Description of Manufacturing Process
  - 5.2.4 Copy of the Quality Manual (Controlled Copy)
  - 5.2.5 Vicinity Map and Factory Layout
  - 5.2.6 Valid Certification to ISO 9001 (if available)
  - 5.2.7 List of key personnel and their designation

5.3 Separate application shall be submitted for each product type or group of products that refers to a different specific rules.

**6. REQUIREMENTS FOR INITIAL FACTORY ASSESSMENT**

- 6.1 DCL duly authorized representative shall visit the applicant's factory/plant with the aim of ascertaining that the factory's quality management system is in accordance with the requirements of ISO 9001: 2008.
- 6.2 An independent certification to ISO 9001 issued by a QMS certification body recognized by DM shall be considered as having satisfied this requirement; however, the DM Certification Body will still carry out verification audit to confirm that the factory is in compliance with the QMS requirements.
- 6.3 Verification audit shall be conducted by designated audit team based on ISO 19011:2002 – Guidelines for Quality and Environment Management System Auditing

**7. REQUIREMENTS FOR INITIAL TESTING OF THE PRODUCT**

7.1 The manufacturer/applicant shall submit to Dubai Central Laboratory declaration of product specification subject for certification. This shall include but not limited to:

- 7.1.1 Thermal resistance and thermal conductivity
- 7.1.2 Length and width
- 7.1.3 Thickness
- 7.1.4 Compressive strength or compressive stress
- 7.1.5 Tensile strength parallel to faces
- 7.1.6 Water Vapor Transmission
- 7.1.7 Point Load
- 7.1.8 Fire Rating Classification

7.2 Sampling

- 7.2.1 Sample for the initial testing shall be taken randomly by DCL representative from products identified as conforming to the product standard (finished products ready for delivery).

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7.2.2 Three sets of sample 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 shall be sent to Independent Testing Laboratory while the third set will be kept by the manufacturer as reference for future use.

7.1.3 Test sample(s) for independent test shall be packed/sealed and signed in the presence of DCL representative and shall be submitted to an Independent Testing Laboratory by the DCL representative.

**7.3 Testing**

7.3.1 Samples drawn for independent test shall meet the requirements of the Standard Specification (SS) as follows:

7.3.1.1 Thermal Resistance and Thermal Conductivity as per SS clause 4.2.1

Note: 1. Since BS EN 12667, test method for thermal resistance and thermal conductivity, is equivalent to the ASTM C 518, ASTM C 177, ISO 8301 and ISO 8302, the DM Certification Body 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 requirement, that is @ 35°C and 60% Relative Humidity

7.3.1.2 Length and Width as per (SS) clause 4.2.2

7.3.1.3 Thickness as per (SS) clause 4.2.3

7.3.1.4 Squareness as per (SS) clause 4.2.4

7.3.1.5 Flatness as per (SS) clause 4.2.5

7.3.1.6 Dimensional Stability as per (SS) clause 4.2.6

7.3.1.7 Tensile Strength parallel to faces as per (SS) clause 4.2.7

7.3.1.8 Reaction to fire as per (SS) clause 4.2.8

7.3.1.9 Compressive Strength as per (SS) clause 4.3.3

7.3.1.10 Tensile Strength perpendicular to faces as per (SS) 4.3.4

7.3.1.11 Water Absorption as per (SS) 4.3.7

Note: Since BS EN 12086 test method for water vapor transmission, is equivalent to that of the ASTM E 96, the DM Certification Body may opt to use this test method

7.3.1.12 Water Vapor transmission as per (SS) 4.3.8

7.3.1.13 Point Load as per (SS) 4.3.5

7.3.2 Where appropriate, a comparison shall be made between the manufacturer's routine test results, results of witness testing and the results of testing by the independent testing laboratory.

7.3.3 If the result of the test conducted by the independent testing laboratory shows non-conformance to the specified requirements, the provision for rejection specified in the standard shall apply. 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.

7.3.5 If the re-test passed, the initial product assessment is considered conforming to product specification. If not, the manufacturer will be advised to take corrective action.

7.3.6 Only after reassessment and subsequent product compliance shall the manufacturer be allowed to use DCL Conformity Mark on his product.

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**8. COMPLIANCE AND RESPONSIBILITIES OF THE LICENSEE**

**8.1 Compliance**

8.1.1 When the results of the factory and product assessments show conformity to the requirements specified in the general rules and specific rules, the license to use the DCL Mark shall be issued to the manufacturer for the type(s)/model(s)/brand(s) of the product tested.

8.1.2 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. The plan shall consist of (1) an internal product quality assurance, and (2) an independent testing plan

**8.1.2.1 Internal product quality assurance plan**

The factory shall prepare and submit to DM Certification Body for approval an internal product quality assurance plan of the following properties with the minimum product testing frequencies.

|   | INSULATION PROPERTY                         | MINIMUM TESTING FREQUENCIES |
|---|---|-----------------------------|
| 1 | Thermal Resistance and Thermal Conductivity | 1 per 24 h                  |
| 2 | Length and Width                            | 1 per 2 h                   |
| 3 | Thickness                                   | 1 per 2 h                   |
| 4 | Squareness                                  | 1 per 8 h                   |
| 5 | Flatness                                    | 1 per 8 h                   |
| 6 | Compressive Strength                        | 1 per 24 h                  |
| 7 | Tensile strength parallel to faces          | 1 per 24 h                  |
| 8 | Water Absorption                            | 1 per month                 |
| 9 | Water Vapor Transmission                    | 1 per year                  |

*Note: Item No. , 6 and 7 may be reduced to once per month provided that the results show continuing compliance to the declared value.*

**8.1.2.2 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.

**8.2 Responsibilities of the Licensee**

8.2.1 The 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.

8.2.2 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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- 8.2.3 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's quality management system.
- 8.2.4 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.
- 8.2.5 Any infraction stated in the licensing agreement for the use of DCL Conformity Mark shall constitute sufficient grounds for suspension, withdrawal and cancellation of the license against a licensee.
- 8.2.6 Any dispute that may arise in connection with the licensing agreement shall be settled in accordance with the General Rule for DM Third Party Product Certification System through Factory Assessment.

## 9. SURVEILLANCE

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.

## 10. USE OF THE DCL CONFORMITY MARK

- 10.1 The design and use of the DCL Conformity Mark shall be in accordance with the Terms and Conditions for the Use of the DCL Mark of Conformity, RD-DP21-2098 (IC).
- 10.2 The licensee shall submit a product-marking proposal for approval by the DM Certification Body. The proposal shall include drawings and/or diagrams showing the location and size of the marking for each size of the product/product container.
- 10.3 The license to use the DCL Conformity Mark is non-transferable.

## 11. FEE SCHEDULE

- 11.1 The licensee shall pay the applicable fees and charges related to the granting of the license to use the DCL Mark based on the DCL Official Fee Structure, RD-DP21-2097 (IC).
- 11.2 The fees for this certification scheme shall include but not limited to the following
- 11.2.1 Application Fee
  - 11.2.2 Initial Assessment Fee
  - 11.2.3 Certification Fee
  - 11.2.4 Surveillance Fee
  - 11.2.5 Annual Renewal Fee
  - 11.2.6 Testing Fee
  - 11.2.7 Marking Fee

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