
 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials using a Combination of Polyester and Glass Fiber Reinforcements as per ASTM D6162/D6162M	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2217 (IC)	رقم الوثيقة:	



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Issue Date	Rev. No.	Summary Of Amendments
01-04-2021	0	First draft for comments
04-04-2021	0	Second draft for comments
21-11-2021	1	Issue for use
07-10-2022	2	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager), also addition of surveillance in the clause 2.4.3.2
27/03/2023	3	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Use of New DM Logo

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1. INTRODUCTION

- 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 Factory Assessment or Attestation, 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/client shall comply with this specific rule, and to all provisions under the “General Rule for DM Third Party Product Certification Scheme Through Factory Assessment” DM-DCLD-RD-DP21-2001 (IC) for Type 5 or DM-DCLD-RD-DP33-6001 (IC) “General Rules for Verification and Attestation Service” for Type N, where applicable.
- 1.3 This specific rule **is an integral part of the relevant general rules** and both shall always be read together.

2. SCOPE



- 2.1 This specific rule specifies the requirements of prefabricated modified bituminous sheet materials reinforced with a combination of polyester fabric and glass fiber, with or without granules, which use styrene butadiene styrene (SBS) thermoplastic elastomer as the primary modifier and are intended for use in the fabrication of multiple ply roofing and waterproofing membranes.
- 2.2 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 and the authorization of the use of the DCLD Conformity Mark. Other relevant requirements issued by the regulatory bodies if any; shall always be fulfilled.
- 2.3 This specific rule covers the material specification only. Issues regarding the suitability of the specific roof constructions or application techniques are not covered in the scope.

3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 3.1 Product name: Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials using a Combination of Polyester and Glass Fiber Reinforcements
- 3.2 Applicable standard/Normative reference: ASTM D6162/D6162M: 2016 – Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

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3.3 Additional reference:

ISO 9001 - Quality Management System – Requirements

ISO 19011 - Guidelines for Auditing Management System.

4 DEFINITION OF TERMS

4.1 In addition to the definitions given in ASTM D6162/D6162M: 2016, DM-DCLD-RD-DP21-2001 (IC) and DM-DCLD-RD-DP33-6001 (IC), the following shall also apply:

4.1.1 Standard Specification – ASTM D6162/D6162M: 2016 – Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

5 REQUIREMENTS FOR INITIAL CERTIFICATION

5.1 The process of application, initial assessment and product sampling shall be in line with the related provisions in the general rule and the standard specifications.

5.2 The client shall have a quality assurance laboratory to carry out factory production control testing to ensure that the raw materials and finished product comply with the requirements of the standard specification. As a minimum requirement, the laboratory shall have the following calibrated testing equipment:

- Dimensional test equipment for thickness, length and width of the rolls
- Mass measurements apparatus
- Bottom coating measurements apparatus
- Elongation measuring apparatus
- Peak load measuring apparatus

5.3 Classification shall be as per clause 4 of the standard specifications.



5.4 Material and manufacture shall be in line with clause 5 of the standard specifications.

5.5 If the application is received under type N, then Then Type N scheme's rules and processes shall be followed

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5.6 Product Evaluation and testing – Type 5

5.6.1 Company Declaration for Type 5

The Client shall submit to Dubai Central Laboratory declaration of the following:

- Classification of the products subject for certification as specified in Section 4 of the standard specification for versus types; (Type I, Type II or Type III).
- Grade to describe the material surfacing: (Grade G-Granule surfaced or Grade S-Smooth surfaced).

5.6.2 The tests to be carried out shall be in accordance with the Test Method mentioned in the related sections of the Standard Specification as follows;

5.6.2.1 Physical properties shall conform to the minimum requirements stated in clause 6 and Table 2 of the standard specifications as follows:

- Peak load at $23 \pm 2^{\circ}\text{C}$, before and after heat conditioning
- Elongation at $23 \pm 2^{\circ}\text{C}$, before and after heat conditioning
- Ultimate elongation $23 \pm 2^{\circ}\text{C}$, as manufactured and after heat conditioning
- Tear strength at $23 \pm 2^{\circ}\text{C}$
- Low temperature flexibility, before and after heat conditioning
- Dimensional stability
- Compound stability at 107°C
- Compound stability at 91°C
- Granule embedment, *applicable for Grade G only.*

5.6.2.2 Dimensions (width, area of the roll and selvage width) shall be as per section 7 of the standard specifications.

5.6.2.3 Thickness and mass of the finished product shall be as prescribed in Table 1 of the standard specifications

5.6.2.4 The minimum bottom coating shall be as prescribed in Table 1 of the standard specifications for sheets materials intended for application by heat welding (torching)

5.6.2.5 Workmanship, finish and appearance shall be as per section 8 of the standard specifications.

5.6.2.6 Packaging and packing marking shall be as per section 10 of the standard specifications.



5.7 Factory Production Control System (Internal Product Quality Assurance Plan) - Type 5

5.7.1 The client shall prepare and submit to DCLD-CQPS for approval of an internal product quality assurance plan giving details of the tests to be carried out at the factory. This will include as a minimum, the following details: (1) location of sampling; (2) frequency of sampling; (3) quantities of samples; (4) tests to be carried out; (5) results acceptance criteria; and (6) responsible person to carry out the activity

5.7.2 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.

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6 GRANTING OF THE DCLD CERTIFICATION

- 6.1 The DCLD product conformity certificate and the authorization to use the DCLD conformity mark shall be granted upon conformance with all related provisions in the general rule for Type 5.
- 6.2 Fees shall be as per DM-DCLD-RD-DP21-2074 (IC) for Type 5 and as per DM-DCLD-RD-DP33-6002 (IC) for Type N and other relevant provisions in the relevant general rule.
- 6.3 DCLD-CQPS shall carry out surveillance of certified clients for Type 5 based on the approved periodic plans and related provisions in the general rule.
- 6.4 Appeals, disputes and complaints shall be in line with the relevant provisions in the General Rule.
- 6.5 For Type N, when the results of verification and attestation show conformity to the requirements specified in the General Rule for the attestation and verification service, the attestation of conformity shall be issued to the applicant for the reference standard specification reflected in the certificate of conformity issued by the recognized and approved body as per the attestation scheme's rules and requirements.
- 6.6 Type N client shall notify DCLD-CQPS without delay if the third party certificate against which DCL attestation of conformity was issued, has been suspended, terminated or withdrawn or has been amended during the validity of the attestation certificate

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