

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b>	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	<b>Document Title:</b>	<b>Specific Rules for Type 1 Certification of SRI of Roofing Surfaces as per Al Sa'fat Dubai Green Building Evaluation System</b>	عنوان الوثيقة:	
	<b>Doc Ref.</b>	<b>DM-DCLD-RD-DP32-5111 (IC)</b>	رقم الوثيقة :	

Issue Date	Rev. No.	Summary Of Amendments
27-09-2012	0	First draft for comments
10-10-2012	0	Final draft for comments
14-10-2012	1	Issue for use
04-05-2016	2	Aligning with the requirements of ISO 17067 and allowing Type 1a
25-12-2017	3	Amended to change the validity of the certificate
02-07-2018	4	Updated the requirements from GBRS to Al Sa'fat; updated the format as per DM unified template.
11-04-2019	5	Updated format as per new DM logo

Approved by HOU	Authorized by PCASM
Date of Issue : 11/04/2019	Rev. No. : 05
General / عام : Level of Confidentiality / درجة السرية	Page 1 of 4

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 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b>	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
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## 1. GENERAL

This document is a Specific Rule for a Type 1 certification of the product covered by the Standard Specification/Regulation defined herewith. The Type 1 certification system is in accordance with ISO/IEC 17067 and described in DM-DCLD-RD-DP32-5001 (IC) General rules for Type 1 product certification.

## 2. CERTIFICATION REQUIREMENTS

### 2.1 Regulation (REG)

Regulation No.	Not Applicable
Title of Regulation (REG)	2017 Al Sa'fat Dubai Green Building Evaluation System
Applicable Clause	304.01 Urban Heat Island Effect – Roof Solar Reflective Index of Opaque External Roofing Surfaces

### 2.2 Test(s) to be carried out on each sample (The test shall be carried out at an independent laboratory, preferably at DCLD):

S/N	Properties to be Determined	Test Method	Requirements as per REG For Classification Only (See Annex A)	
1	Solar Reflective Index	ASTM E1980-01	Steep Sloped Roofs (Slope steeper than 1:6)	$\geq 29$
			Flat and Low Sloped Roofs	$\geq 78$

### 2.3 Sampling under Type 1a

2.3.1 Under Type 1a, the sample(s) to be tested shall be submitted by the applicant or his designated representative.

2.3.2 The quantity of sample to be submitted shall be in accordance with the requirements of the applicable test method(s).

### 2.4 Sampling under Type 1b

2.4.1 The population of the product (batch) shall be defined prior to sampling. The members of the batch shall be of uniform physical description (i.e. same size shape, dimensions, etc.) and shall be distinctly identified by any appropriate means (For example: by batch number, quantity, location, heat number, markings, dimensions, etc. or a combination of them).

2.4.2 Based on the defined batch and the tests to be carried out as per clause [2.2], the Certification Body shall prepare a "Sampling and testing plan" that will give details of the number of samples and the tests

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Date of Issue : 11/04/2019	Rev. No. : 05
General / عام : Level of Confidentiality / درجة السرية	Page 2 of 4

**Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version Online**

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
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	<b>Doc Ref.</b> DM-DCLD-RD-DP32-5111 (IC)	رقم الوثيقة :	

to be carried out on each selected sample. The applicant for certification shall agree to the sampling and testing plan.

2.4.3 The sampling and testing plan shall take guidance from DM-DCLD-RD-DP32-5003 (IC) "Guidance for preparing sampling and testing plan"; and shall be prepared in such manner that will provide highest confidence that the sample represents the entire population of product being certified.

2.4.4 In case the sample fails to meet the requirements, the applicant may request for re-sampling and re-testing from the same batch of product/s, in accordance with the agreed sampling plan. If the new sample again fails to meet the requirements, the product shall be considered non-conforming and no certificate shall be issued.

### 3. ISSUANCE OF TYPE 1 CERTIFICATE

#### 3.1 Type 1a Certificate of Conformity

3.1.1 The Type 1a certificate shall be issued only when results are meeting the applicable requirements as mentioned in clause [2.2].

3.1.2 The certificate is applicable only to the product that was subjected to testing. It does not represent any quantity, batch or lot or any subsequent production.

#### 3.2 Type 1b Certificate of Conformity

3.2.1 The Type 1b certificate shall be issued only when results are meeting the applicable requirements as mentioned in clause [2.2].

3.2.2 The certificate is applicable only to the quantity of product defined and identified as per clause [2.3.1]. It does not apply to the entire production of the factory.

3.2.3 The Type 1b certificate is valid for 3 months only.

3.3 The Type 1b certificate shall be issued upon payment of fees in accordance with DM-DCLD-RD-DP32-5002 (IC).

Approved by HOU	Authorized by PCASM
Date of Issue : 11/04/2019	Rev. No. : 05
General / عام : Level of Confidentiality / درجة السرية	Page 3 of 4

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## Annex A

Results of SRI Test for Roofing Surface shall be used for classification as:

SRI Class 1 ( $\geq 78$ ) – “Can be Used in 75 - 100% of surface to be coated – Sloped or Flat Roof”

SRI Class 2 ( $29 < 78$ ) - “Can be Used in 75 - 100% of surface to be coated – Sloped Roof”

SRI Class 3 ( $< 29$ ) – “Can be Used in 0 – 25% of surface to be coated – Sloped or Flat Roof”

### 304.01 Urban Heat Island Effect

For all new buildings:

All opaque external roofing surfaces must comply with a minimum Roof Solar Reflective Index (SRI) value according to Table 304.01(1) for a minimum of seventy five percent (75%) of the roof area:

Table 304.01 (1) – Roof SRI Requirements

Type of Roof	Minimum Roof SRI
Steep Sloped Roofs (slopes steeper than 1:6)	$\geq 29$
Flat and Low Sloped Roofs	$\geq 78$

Approved by HOU	Authorized by PCASM
Date of Issue : 11/04/2019	Rev. No. : 05
General / عام : Level of Confidentiality / درجة السرية	Page 4 of 4

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