

 GOVERNMENT OF DUBAI	Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title: Specific Rules for Type 1 Certification of SRI of Hardscape Materials as per Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref. DM-DCLD-RD-DP32-5110 (IC)	رقم الوثيقة:	

Issue Date	Rev. No.	Summary Of Amendments
19-06-2012	0	First draft for comments
25-06-2012	0	Final draft
26-06-2012	1	Issue for use
04-05-2016	2	Updated to align with ISO 17067 for Type 1a and Type 1b
25-12-2017	3	Amended to change the validity of the certificate
02-07-2018	4	Updated the GBRS requirement to Al Sa'fat; aligned format as per DM unified template
11-04-2019	5	Updated format as per new DM logo
12-05-2022	6	Updated based on 2020 Al Sa'fat Dubai Green Building System. The Type 1 certification validity. Format updated with Dubai font. Other updates as highlighted.

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1. GENERAL

This document is a Specific Rule for a Type 1a and Type 1b 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 scheme".

- 1.1 Type 1a certification shall be issued based on compliance of the sample tested and does not represent any particular quantity, population, or production. DCLD certification body implements Type 1a certification scheme for specific Dubai construction project. Under this scheme, the certification can be issued based on sample brought in by the Project Consultant.
- 1.2 Type 1b certification shall be issued based on compliance of samples selected by DCLD representative in accordance with the sampling plan. The certification covers the specific quantity (or population) of the product defined in the application and represented by the samples subjected to testing.

2. CERTIFICATION REQUIREMENTS

2.1 Applicable Regulation (REG)

Regulation No.	Not Applicable
Title of Regulation (REG)	2020 Al Sa'fat Dubai Green Building System
Applicable Clause	304.06 Hardscape

2.2 Test(s) to be carried out on each sample (The test shall be carried out at an independent laboratory, preferably at Dubai Central Laboratory Department (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	SRI-HS Class 1 (≥ 29) – "Can be used in 50-100% of the hardscapes of the development" SRI-HS Class 2 (< 29) – "Can be used in 0-50% of the hardscapes of the development"

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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) and in accordance with DCLD guidance for Type 1a sampling.

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 DCLD Certification Body shall prepare a "Sampling and testing plan" that will give details of the number of samples and the tests 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.
- 3.1.3 The certificate shall be applicable only to a particular project and shall identify the project details such as Project Name, Project Number, Project Consultant, Project Contractor, etc.

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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 [2.4.1]. It does not apply to the entire production of the factory.
- 3.2.3 The Type 1b certificate is valid for one year only.
- 3.3 The Type 1 certificate shall be issued upon payment of fees in accordance with DM-DCLD-RD-DP32-5002 (IC).

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Annex A

Results of SRI Test for Hardscape shall be used for classification as:

SRI-HS Class 1 (≥ 29) – “Can be used in 50-100% of the hardscapes of the development”

SRI-HS Class 2 (< 29) – “Can be used in 0-50% of the hardscapes of the development”

Clause 304.06 Hardscape in 2020 Al Sa'fat Dubai Green Building System

304.06 Hardscape

For all new buildings, 50% of the hardscape of the development must achieve at least one of the following:

1. Demonstrate a Solar Reflectance Index (SRI) of at least 29
2. Use an open grid pavement system
3. Be shaded by vegetation
4. Be shaded by materials with an SRI equal to or greater than those specified in Table 304.01 (1)

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