


	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Specific Rules for Type 1 Certification of Glazed Glass as per Clause {501.01B} of the Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5103 (IC)	رقم الوثيقة :	

Issue Date	Rev. No.	Summary Of Amendments
06-07-2011	0	First draft for comments
12-07-2011	0	Final draft
21-07-2011	1	Issue for use
08-08-2011	2	Additional provision for re-sampling
06-08-2015	3	Aligning with ISO/IEC 17067 by changing terminology to Type 1 Adding clause 3 for issuance of the certificate.
04-05-2016	4	Allowing Type 1a certification
25-12-2017	5	Amended to change the validity of the certificate.
01-07-2018	6	Updated the requirements as per 2017 Al Sa'fat Green Building Evaluation System; format updated as per DM unified template
11-04-2019	7	Updated as per new DM logo
12-05-2022	8	Revised to reflect the 2020 version of Al Sa'fat – Dubai Green Building System, Annex A were updated (sections 1 to 6). Updated the certification validity. Format updated with Dubai font. Other updates as highlighted. Alignment with the latest numbering and terminology system in DCLD.

Approved by HOU	Authorized by PCASM
Date of Issue : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 1 of 6

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	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
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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 or 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	Al Sa'fat Clause [501.01 B] Glazed Elements - Fenestration



2.2 Tests 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)
1	Thermal Transmittance	EN 673, ASHRAE or any equivalent test method	As per clause 501.01 B Section 1 to 6 (See Annex A)
2	Shading Coefficient	EN 410 Clause 4.4 or any equivalent test method	
3	Light Transmittance	EN 410 Clause 4.2 & 4.3 or any equivalent test method	

Approved by HOU	Authorized by PCASM
Date of Issue : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 2 of 6

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بيانات مفتوحة / OPEN DATA

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Specific Rules for Type 1 Certification of Glazed Glass as per Clause {501.01B} of the Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5103 (IC)	رقم الوثيقة :	

2.3 Sampling under Type 1a

- 2.3.1 Under Type 1a scheme, the sample(s) to be tested shall be submitted to DCLD or their approved laboratory by the Project Consultant 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.

Approved by HOU	Authorized by PCASM
Date of Issue : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 3 of 6

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

OPEN DATA / بيانات مفتوحة

 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 Glazed Glass as per Clause {501.01B} of the Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5103 (IC)	رقم الوثيقة :	

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 One (1) year.
- 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 : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 4 of 6

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

بيانات مفتوحة / OPEN DATA

 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 Glazed Glass as per Clause {501.01B} of the Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref. DM-DCLD-RD-DP32-5103 (IC)	رقم الوثيقة :	

Annex A

B. Glazed Elements - Fenestration:

1. If window to external wall ratio is less than 40%, then the glazing elements must meet the following performance criteria:

Table (2) 501.01 - Glazing performance criteria for window to external wall ratio less than 40%

	For Silver Sa'fa	For Golden and Platinum Sa'fa
Thermal Transmittance (Summer U-value) in W/m ² K	2.1 (max)	1.9 (max)
Shading Coefficient (SC)	0.4 (max)	0.32 (max)
Light Transmittance	0.25 (min)	0.25 (min)

2. If window to external wall ratio is between 40% and 60%, then the glazing elements must meet the following performance criteria:

Table (3) 501.01 - Glazing performance criteria for window to external wall ratio between 40% and 60%

	For Silver Sa'fa	For Golden and Platinum Sa'fa
Thermal Transmittance (Summer U-value) in W/m ² K	1.9 (max)	1.9 (max)
Shading Coefficient (SC)	0.32 (max)	0.25 (max)
Light Transmittance	0.1 (min)	0.1 (min)

3. If window to external wall ratio is greater than 60%, then the glazing elements must meet the following performance criteria:

Table (4) 501.01 - Glazing performance criteria for window to external wall ratio greater than 60%

	For Silver Sa'fa	For Golden and Platinum Sa'fa
Thermal Transmittance (Summer U-value) in W/m ² K	1.9 (max)	1.7 (max)
Shading Coefficient (SC)	0.25 (max)	0.25 (max)
Light Transmittance	0.1 (min)	0.1 (min)

Approved by HOU	Authorized by PCASM
Date of Issue : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 5 of 6

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

بيانات مفتوحة / OPEN DATA

 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 Glazed Glass as per Clause {501.01B} of the Al Sa'fat Dubai Green Building System	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5103 (IC)	رقم الوثيقة :	

Annex A Cont;

4. For shopfronts and showrooms, other than those at ground floor level, glazing elements must meet the following performance criteria:

Table (5) 501.01 - Glazing performance criteria for shopfronts and showrooms, except ground floor

Thermal Transmittance (Summer U-value) in W/m ² K	1.9 (max)
Shading Coefficient (SC)	0.76 (max)

5. For glazing elements, if the glazing area on the roof is 10% or lower than the total roof area, the following performance criteria must be met:

Table (6) 501.01 - Glazing performance criteria for roof glazing area less than 10% of total roof area

Thermal Transmittance (Summer U-value) in W/m ² K	1.9 (max)
Shading Coefficient (SC)	0.32 (max)
Light Transmittance	0.4 (min)

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Date of Issue : 12-05-2022	Rev. No. 08
General / عام : Level of Confidentiality / درجة السرية	Page 6 of 6

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

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