

 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 VOC of Adhesives and Sealants as per Clause [404.02] Al Sa'fat Dubai Green Building Evaluation System	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5109 (IC)	رقم الوثيقة :	

Issue Date	Rev. No.	Summary Of Amendments
11-06-2012	0	First draft for comments
19-06-2012	0	Final draft
19-06-2012	1	Issue for use
28/04/2014	2	Amended of the Test Method from BS3900-A23 to SCAQMD 304-91
06-08-2015	3	Aligned with ISO/IEC 17067 by changing terminology to Type 1
13-03-2016	4	Added Clause 4 for the limits of VOC as per GBRS Practice Guide
04-05-2016	5	Amended to allow Type 1a
25-12-2017	6	Amended to change the validity of the certificate
01-07-2018	7	Changed the requirements to Al Sa'fat; Updated the format as per unified DM template
11-04-2019	8	Updated format as per new DM logo
12-05-2022	9	Revised to reflect the 2020 version of Al Sa'fat – Dubai Green Building System. Updated the validity of certification. Format updated with Dubai font. Other updates as highlighted. Alignment with the latest numbering and terminology system in DCLD.

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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.

- 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	404.02 Low Emitting Materials: Adhesives and Sealants GBRS Practice Guide Table 404.02 (1)

- 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
1	Volatile Organic Compounds (VOC)	SCAQMD 304-91 or any equivalent test method	As per Clause 404.02 referring to the values given in AL SA'FAT Practice Guide (Annex A)

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### 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.

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

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## Annex A

Table: 404.02 (1) - Maximum VOC Limits of Adhesives and Sealants

Maximum VOC Limits - Grams per litre (g/l) less water			
Architectural Applications		Specialty Applications	
Indoor Carpet Adhesives	50	PVC Welding	510
Carpet Pad Adhesives	50	CPVC Welding	490
Wood Flooring Adhesives	100	ABS Welding	325
Rubber Floor Adhesives	60	Plastic Cement Welding	250
Subfloor Adhesives	50	Adhesive Primer for Plastic	550
Ceramic Tile Adhesives	65	Contact Adhesive	80
VCR & Asphalt Adhesives	50	Special Purpose Contact Adhesive	250
Drywall & Panel Adhesives	50	Structural Wood Member Adhesive	140
Cove Base Adhesives	50	Sheet Applied Rubber Lining Operations	850
Multipurpose Construction Adhesives	70	Top & Trim Adhesive	250
Structural Glazing Adhesives	100		
Substrate Specific Applications		Sealants	
Metal to Metal	30	Architectural	250
Plastic Foams	50	Non-Membrane Roof	300
Porous Materials (except wood)	50	Roadway	250
Wood	30	Single-Ply Roof Membrane	450
Fiberglass	80	Other	420
		Sealant Primers	
		Architectural Non-Porous	250
		Architectural Porous	775
		Other	750

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