

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 Dubai Municipality
	Document Title:	Certification of Plastic Piping System (PCV-U) as per BS EN 1401-1: 2009	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5114 (IC)	رقم الوثيقة :	

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Issue Date	Rev. No.	Summary Of Amendments
18-09-2013	0	First draft for comments
28-10-2013	0	Final draft
11-11-2013	1	Issue for use
25-12-2017	2	Amended to change validity of the certificate and section's name.
09-04-2019	3	Updated format as per new DM template and logo
07-10-2022	4	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager) Change system to scheme
18-04-2023	5	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and re-arrange, document title has been revised accordingly. Additional minor changes (highlighted). Use of New DM Logo

1. INTRODUCTION AND SCOPE

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- 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 Type 1B , 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 shall comply with these specific rules, and with those already mentioned in the “**General Rules for Type1 Product Certification Scheme**” (DM-DCLD-RD-DP32-5001(IC)).

2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 2.1 Product name: Plastic piping systems (PCV-U)
- 2.2 Applicable standard/Normative reference: BSEN 1401-1:2009 Standard Specifications for Plastic Piping systems for non-pressure underground drainage and sewerage – Unplasticized poly (vinyl chloride) (PCV-U) Part1 – Specifications for pipes, fittings and the system

3. DEFINITION OF TERMS

The definitions given in DM-DCLD-RD-DP32-5001 shall apply.

4. GENERAL REQUIREMENTS FOR CERTIFICATION

4.1 The process of application of applicant/client, product sampling, fees and condition for issuance of the Type 1B certificate of conformity shall be in line with the related provisions in the general rule and the standard specifications.


4.2 Sampling and Testing

- 4.2.1 For detailed sampling procedure - Refer to related provisions in the general rules of the scheme.
- 4.2.2 One sample shall be collected and tested for every 60 tons of the product as per standard dimension ratio (SDR) per diameter.
- 4.2.3 Based on the defined batch and the tests to be carried out as per clause [4.2.4], a “Sampling and testing plan” shall be prepared 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.
- 4.2.4 Tests to be carried out on each sample as per below table (The test shall be carried out at an independent laboratory, preferably at DCLD):

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S/ N	Properties to be Determined	Test Method	Requirements (Pass/Fail Criteria) as per the SS
1	Material		
	Pipe resistance to internal pressure	EN ISO 1167-1	As per Table 1
	Fitting resistance to internal pressure	EN ISO 1167-1	As per Table 2
2	General Characteristics		
	Appearance (pipes & fittings)	Visual	Clause 5.1
	Color (pipes & fittings)	Visual/ Reference Swatch	Clause 5.2
3	Geometric Characteristics	EN ISO 3126	
	Dimensions of pipe		As per Table 3
	Outside diameter (pipes & fittings)		As per Table 3
	Length (pipes & fittings)		Not less than the manufacturer's declaration
	Chamfering (pipes)		15° ~ 45° to the pipe axis
	Wall Thickness (pipes & fittings)		As per Table 4
	Diameter & length (sockets & spigots)		As per Table 5
	Wall Thickness (sockets)		As per Table 6
4	Mechanical Characteristics		
	Impact Resistance (pipes)	EN 744	As per Table 9
	Mechanical Strength or Flexibility (fittings)	EN 12256	As per Table 11
	Impact Strength (fittings)	EN 12061	As per Table 11
5	Physical Characteristics		
	Vicat softening temperature (pipes)	EN 727	As per Table 12
	Longitudinal reversion (pipes)	EN ISO 2505	As per Table 12
	Resistance to dichloromethane (pipes)	EN 580	As per Table 12
	Vicat softening temperature (fittings)	EN 727	As per Table 13
	Effects of heating (fittings)	EN ISO 580	As per Table 13
	Water tightness (fabricated fittings)	EN 1053	As per Table 14
6	Performance Requirements		
	Tightness of elastomeric seal ring joint	EN 1277	As per Table 15
7	Marking		
	Pipe's markings	Visual	As per Table 16
	Fitting's marking	Visual	As per Table 17

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5. ISSUANCE OF TYPE 1B CERTIFICATE OF CONFORMITY

5.1 The COC shall be issued based on the related provisions in the general rules.

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