

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title:	Type 1B Certification Specific Rules for BS EN 1401-1: 2009	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5114 (IC)	رقم الوثيقة :	

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

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1. GENERAL

This document is a Specific Rule for a Type 1B certification of the product covered by the Standard Specification defined herewith. The Type 1 certification system is described in DM-DCLD-RD-DP32-5001 (IC).

2. CERTIFICATION REQUIREMENTS

2.1 Standard Specification (SS)

Standard Specification No.	BSEN 1401-1:2009
Title of Standard Specification	Plastic piping systems for non-pressure underground drainage and sewerage – Unplasticized poly (vinyl chloride) (PCV-U) Part 1 – Specifications for pipes, fittings and the system

2.2 Tests to be carried out on each sample (The tests shall be carried out at the DCLD approved laboratory):

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

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	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

2.3 Sampling

- 2.3.1 The population of the product (batch or lot) shall be defined prior to sampling. The members of the batch shall be of uniform physical description (i.e. wall thickness or SDR, diameter) and shall be distinctly identified by any appropriate means (For example: by production batch number, quantity, production date or code, or a combination of them).
- 2.3.2 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 to be carried out on each selected sample. The tests to be conducted shall cover all the tests mentioned in [2.2]. The applicant for certification shall agree to the sampling and testing plan.
- 2.3.3 The preparation of the sampling plan shall be generally in accordance with DM-DCLD-RD-DP32-5003 (IC). The sampling and testing plan shall be prepared shall provide highest confidence that the sample represents the entire population of product being certified.
- 2.3.4 Based on this guideline, for this product, one sample shall be collected and tested for every 60 tons of the products per SDR per diameter.
- 2.3.5 In case the sample fails to meet the requirements, the applicant may request for re-sampling and re-testing from the same batch of products, 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 The Type 1 certificate shall be issued only when all results are meeting all the requirements as mentioned in clause [2.2].
- 3.2 The certificate is applicable only to the lot of product defined and identified as per clause [2.3.1]. It does not apply to the entire production of the factory.
- 3.2 The Type 1 certificate is valid for 3 months 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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