

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document Title:	Certification of Plastic Piping System as per BS EN 13476-1:2018+A1:2020 and 2: 2018	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP21-2194 (IC)	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
28/07/2016	0	First draft for comments
03/08/2016	0	Final draft
09/08/2016	1	Issue for use
25/03/2019	2	Updated format as per new DM template and new DM logo
21/07/2020	3	Add the options for initial audit by the approved CAB and remotely by PCAS. Adding definition for authorized auditor. Update for the new numbering system and followed terminologies. Add provision for accepting valid test reports
26/09/2021	4	Removal of the documents in clause 2.1.2, in addition to further amendment in the provision for accepting valid test reports (clause 2.4.2.3), in line with DM 30% reduction of requirements (both service and specialized). Modifications in the auditing part for the factories already certified against ISO 9001 to opt for auditing only the areas of production and monitoring stages of product realization, quality control and final product testing and evaluation.
27/01/2022	5	Revised to include both the requirements of Part 1 & Part 2 of the BS EN 13476.
04/10/2022	6	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager). Adding surveillance in 2.4.2.3
27/03/2023	7	Full re-structuring and transfer of common provisions to the general rule. Clauses are re-numbered and document title has been revised accordingly. Use of New DM Logo

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1. INTRODUCTION

- 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 Factory Assessment, 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/client shall comply with this specific rule, and to all provisions under the “**General Rule for DM Third Party Product Certification Scheme Through Factory Assessment**”**DM-DCLD-RD-DP21-2001 (IC)**.
- 1.3 This specific rule **is an integral part of the general rule** and both shall always be read together.

2. SCOPE

- 2.1 This specific rule specifies the requirements for certifying plastic piping system for non-pressure underground drainage and sewerage application.
- 2.2 This specific rule does not -by itself- permit the use of the below product in the construction sites. However, it does provide the necessary general conformity assessment criteria, which are required for the evaluation and issuance of the certification and the authorization of the use of the DCLD Conformity Mark. Other relevant requirements issued by the regulatory bodies if any; shall always be fulfilled.

3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 3.1 Product name: Plastic piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE)
- 3.2 Applicable standard/Normative reference: BS EN 13476-1 & 2: 2018 Plastic piping system for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) –
Part 1: General requirements and performance characteristics
Part 2: Specifications for pipes and fittings with smooth internal and external surface and the system, Type A
- 3.3 Additional reference:
ISO 9001 - Quality Management System – Requirements
ISO 19011 - Guidelines for Auditing Management System.

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4 DEFINITION OF TERMS

4.1 In addition to the definitions given in BS EN 13476-1 & 2: 2018 and DM-DCLD-RD-DP21-2001 (IC), the following shall also apply:

4.1.1 Standard Specification – BS EN 13476-1 & 2

5 REQUIREMENTS FOR INITIAL CERTIFICATION

5.1 The process of application, initial assessment and product sampling shall be in line with the related provisions in the general rule and the standard specifications.

5.2 The factory shall have a laboratory with the following testing equipment as a minimum:

- Geometrical characteristics
- Physical characteristics
- Mechanical characteristics
- Performance requirements

5.3 Product Evaluation and testing

5.3.1 Material:

The material shall be one of the materials specified in the relevant Annex of the EN 13476-2 and when tested in accordance with Standard Specifications Clause [4], the product shall comply with the applicable requirements in Tables 1, 2, 3, or 4.

5.3.1.1 Designation of wall construction – as per clause 5 of the Standard Specification

5.3.1.2 Appearance and color – When viewed without magnification and examined visually, appearance and color shall comply with the applicable requirements of Standard Specifications clause [6].

5.3.1.3 Geometrical characteristics – Geometrical characteristics shall comply with the applicable requirements of Standard Specifications clause [7]; Table 1 of Part 1 and Tables 5, 6 & 7 of Part 2 of the Standard Specifications.

5.3.1.4 Types of fittings – refer to clause 8 of the Part 1 of Standard Specification

5.3.1.5 System performance related test methods and characteristics - refer to clause 9 of Part 1 of the Standard Specification

5.3.1.6 Physical characteristics – When tested in accordance with clause 8 of Part 2 of the Standard Specifications, the product shall comply with the applicable requirements in Tables 8, 9, 10, 11, 12, or 13.

5.3.1.7 Mechanical characteristics – When tested in accordance with the clause 9 of Part 2 of the Standard Specifications, the product shall comply with the applicable requirements in Tables 14, 15, or 16.

5.3.1.8 Performance requirements – When tested in accordance with clause 10 of Part 2 of the Standard Specifications, the product shall comply with the applicable requirements in Table 17.

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5.3.1.9 The product shall comply with the applicable marking requirements as per Standard Specifications clause 10 (Part 1) & 11 (Part 2).

5.4 Factory Production Control System (Internal Product Quality Assurance Plan)

5.4.1 The client shall prepare and submit to DCLD-CQPS for approval of an internal product quality assurance plan giving details of the tests to be carried out at the factory. This will include as a minimum, the following details: (1) location of sampling; (2) frequency of sampling; (3) quantities of samples; (4) tests to be carried out; (5) results acceptance criteria; and (6) responsible person to carry out the activity

5.4.2 The plan shall take into consideration the production process, the volume of production, the criticality of the test to be specified, and other relevant factors

6 GRANTING OF THE DCLD CERTIFICATION

6.1 The DCLD product conformity certificate and the authorization to use the DCLD conformity mark shall be granted upon conformance with all related provisions in the general rule.

6.2 Fees shall be as per DM-DCLD-RD-DP21-2074 (IC) and other relevant provisions in the general rule.

6.3 DCLD-CQPS shall carry out surveillance of certified clients based on the approved periodic plans and related provisions in the general rule.

6.4 Appeals, disputes and complaints shall be in line with the relevant provisions in the General Rule.

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