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| | Document Title: Specific Rules for FA Certification of Roof, Deck and Balcony Drains as per ASME A112.6.4 | عنوان الوثيقة: | |
| | Doc Ref. DM-DCLD-RD-DP21-2182 (IC) | رقم الوثيقة : | |

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| 17-03-2019 | 2 | Updating format as per new DM template and new DM logo |

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| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| General / عام : Level of Confidentiality / درجة السرية | Page 1 of 6 |

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| | | | |
|--|--|---|--|
|  GOVERNMENT OF DUBAI | Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: الوحدة التنظيمية: |  بلدية دبي DUBAI MUNICIPALITY |
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1. GENERAL

1.1 INTRODUCTION

1.1.1 This document prescribes the specific rules for the implementation of the DM Third Party Product Certification System Through Factory Assessment as applied to the specific product(s) identified herein, taking into consideration the applicable normative references and standard specifications.

1.1.2 The applicant shall comply with these specific rules, and to those already mentioned in the "General Rules for DM Third Party Product Certification System Through Factory Assessment" DM-DCLD-RD-DP21- 2001 (IC).

1.2 SCOPE

1.2.1 This specific rule covers requirements for roof, deck, and balcony drains. It covers the application types: general purpose roof drain, gutter or cornice roof drain, parapet roof drain, and promenade or deck roof drain that convey rainwater from the roof area of building structures. Likewise, the material type (body type & top shape), outlet type, outlet connection, and top loading classification of roof, deck, and balcony drains are covered in this specific rule.

1.3 PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

1.3.1 Product Name: Roof, Deck, and Balcony Drains

1.3.2 Applicable standard/Normative reference: ASME A112.6.4: 2003 – Roof, Deck, and Balcony Drains

1.3.3 Additional References:

ISO 9001 - Quality Management System – Requirements

ISO 19011 - Guidelines for Quality and Environmental Management System Auditing.

1.4 DEFINITION OF TERMS

In addition to the definitions given in **ASME A112.6.4: 2003, DM-DCLD RD-DP21-2001 (IC)**, the following shall also apply:

1.4.1 Independent Testing Laboratory - Dubai Central Laboratory (DCL) or any testing laboratory recognized by the DM Certification Body.

1.4.2 Independent Test – test performed or conducted by an Independent Testing Laboratory

1.4.3 Standard Specification – **ASME A112.6.4: 2003**– Roof, Deck, and Balcony Drains

1.4.5 QMS – Quality Management System aligned with the requirements of ISO 9001 Standard.

2. REQUIREMENTS FOR CERTIFICATION

2.1 APPLICATION

2.1.1 Manufacturers of roof, deck, and balcony drains shall apply to Dubai Central Laboratory through

| | |
|---|---------------------|
| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| General / عام : Level of Confidentiality / درجة السرية | Page 2 of 6 |

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| | | | |
|--|--|--------------------------------|--|
|  GOVERNMENT OF DUBAI | Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: التنظيمية |  بلدية دبي DUBAI MUNICIPALITY |
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| | Doc Ref. DM-DCLD-RD-DP21-2182 (IC) | رقم الوثيقة : الوثيقة | |

Products Conformity Assessment Section for the certification and authorization to use the DCL Conformity Mark.

2.1.2 Application forms shall be filled-up by the applicant-company and submitted to DCLD together with the following documents:

- a. Industrial Trade License
- b. Complete product description and specifications
- c. Brief Description of Manufacturing Process
- d. Copy of the Quality Manual (Controlled Copy)
- e. Vicinity Map and Factory Layout
- f. Valid Certification to ISO 9001 (If available)
- g. List of personnel and their designation
- h. Total Number of effective personnel involved in the manufacture of the product (technical, managerial, and support personnel)
- i. List of available testing equipment and tests conducted internally
- j. Others

2.2 FACTORY OPERATION

2.2.1 Quality Management System

Manufacturer of roof, deck, and balcony drains shall have a Quality Management System that is aligned to the requirements of ISO 9001 standard. NOTE: Certification to ISO 9001 is not a mandatory requirement.

2.2.2 Laboratory

Manufacturer of roof, deck, and balcony drains shall have a quality assurance laboratory to carry out factory production control testing to ensure that the roof, deck, and balcony drains comply with the requirements of the standard specification.

As a minimum requirement, the laboratory shall have the following testing equipment:

- a. Calipers and other linear measuring test equipments
- b. Loading test for grate and top rims

2.3 INITIAL FACTORY AUDIT

2.3.1 DCL duly authorized representatives shall conduct an audit of the factory quality management system to verify its compliance with the requirements of ISO 9001.

NOTE: An independent certification to ISO 9001 issued by a QMS certification body recognized by DM may be considered as having satisfied this requirement; however, the DM Certification Body reserves the right to carry out verification audit to confirm that the factory is in compliance with the QMS requirements.

2.3.2 Verification audit shall be conducted by designated audit team based on ISO 19011 – Guidelines for Quality and Environment Management System Auditing.

2.4 PRODUCT EVALUATION

| | |
|--|---------------------|
| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| 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

| | | | |
|--|--|--------------------------------|--|
|  GOVERNMENT OF DUBAI | Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: التنظيمية |  بلدية دبي DUBAI MUNICIPALITY |
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| | Doc Ref. DM-DCLD-RD-DP21-2182 (IC) | رقم الوثيقة : الوثيقة | |

2.4.1 Sampling Testing

2.4.1.1 Three sets of samples per application type shall be taken randomly either on the production or warehouse. The first set shall be tested in the plant supervised by a duly authorized DCLD-PCAS representative, the second set will be sent to independent testing laboratory. The third set will be kept by the manufacturer as reference samples for future use.

2.4.1.2 Test sample(s) for independent test shall be identified and signed in the presence of DCL auditors and shall be submitted to an independent testing laboratory.

2.4.2 Product Evaluation

2.4.2.1 Material

2.4.2.1.1 The manufacturer shall clearly specify what type of materials the roof, deck, and balcony drains shall be made of and it shall comply with the requirements specified under section 5.1 of standard specification.

2.4.2.2 Finished Product

2.4.2.2.1 Samples of the finished product drawn shall be subjected to the following tests and shall meet the requirements specified in clauses 2 through 5 of the standard specification.

2.4.2.2.2 Loading Test (for grates only) – as per paragraph 4.2 of the standard specification.

2.4.2.2.3 Visual inspection for casting quality - as per paragraph 5.1 of the standard specification.

2.4.2.2.4 Visual inspection for the features and accessories.

2.4.2.2.5 Measurement of

- Outlet connection – as per tables 1 through 3 of the standard specification.
- Top size (Free Area) – as per tables 4 through 7 of the standard specification.
- Thickness of the casting – as per paragraph 5.1.

2.4.2.3 Markings

2.4.2.3.1 The marking on Roof, Deck, and Balcony Drains shall be clear, durable and visible and shall be in accordance with the requirements specified under clause 8 of the standard specification.

2.4.3 Independent test shall only be conducted if the result of the in-plant test shows satisfactory result.

2.4.4 If the result of the test conducted by the independent testing laboratory shows non- conformance, the recheck shall be carried out on the reference sample kept by the manufacturer or re test on new samples collected by DM Certification Body , on which full testing shall be carried out, if necessary.

2.4.5 If the retest passed, the initial product assessment is considered conforming to product specification. If not, the manufacturer will be advised to take corrective action.

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|--|---------------------|
| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| General / عام : Level of Confidentiality / درجة السرية | Page 4 of 6 |

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| | | | |
|--|--|-------------------|--|
|  GOVERNMENT OF DUBAI | Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: |  بلدية دبي DUBAI MUNICIPALITY |
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| | Doc Ref. DM-DCLD-RD-DP21-2182 (IC) | رقم الوثيقة : | |

3. GRANTING OF THE DCL CERTIFICATE OF CONFORMITY

3.1 CONDITIONS FOR GRANTING THE DCL CERTIFICATE OF CONFORMITY

- 3.1.1 When the results of the factory audit (clause 2.3) and product evaluation (clause 2.4) show conformity to the requirements specified in the General Rule and Specific Rule, the certificate of conformity to use the DCL Conformity Mark shall be issued to the manufacturer for the type(s) and size range of the product tested.
- 3.1.2 The factory shall agree with the DM Certification Body for the preparation and implementation of a product quality assurance plan to ensure continuing compliance with the Standard Specifications and the requirements of this certification scheme. It shall consist of (1) an internal product quality assurance plan, and (2) an independent testing plan.

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

The factory shall prepare and submit to DM Certification Body for approval a factory production control system (internal product quality assurance plan).

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

3.1.4 Independent Testing Plan

The factory shall agree to an independent testing plan to be carried out on samples which are collected in accordance with RD-DP21-2096 (IC) – Surveillance of Certified Establishments under the Factory Assessment Scheme, and implemented by the DM Certification Body. The cost of testing under the independent testing plan shall be borne by the factory.

3.2 ISSUANCE OF DCL CERTIFICATE OF CONFORMITY

If the conditions mentioned in clause 3.1 above have been complied, the manufacturer of Roof, Deck, and Balcony Drains shall be issued a DCL Certification and a Scope of Certification that covers the type(s) and size of the products that are certified.

3.3 RESPONSIBILITIES OF THE CERTIFIED CLIENT

- 3.3.1 Every certified client shall ensure that his product, for which a Certificate of Conformity has been issued, conforms at all times to the requirements of the General Rule and Specific Rules and shall maintain to the satisfaction of DCL, a system of quality control including inspection and testing.
- 3.3.2 The certified client shall give the duly authorized representative(s) of DCL, access during working hours, without prior notification, to the premises of the factory where certified product is manufactured, for the purpose of evaluating the materials, production processes, finished products, quality assurance facilities, records and others in accordance with the requirements of the scheme.
- 3.3.3 The certified client shall inform the DM Certification Body in writing of any change of management, transfer of plant site, modification in the product, manufacturing process or factory quality management system.
- 3.3.4 Upon transfer of plant site, the Certificate of Conformity shall be deemed valid only after factory and product audit at the new site has been satisfactorily completed.

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|---|---------------------|
| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| General / عام / Level of Confidentiality / درجة السرية | Page 5 of 6 |

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| | | | |
|--|---|-------------------|--|
|  GOVERNMENT OF DUBAI | Organization/Unit: إدارة مختبر دبي المركزي Dubai Central Laboratory Department | الوحدة التنظيمية: |  بلدية دبي DUBAI MUNICIPALITY |
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| | Doc Ref. DM-DCLD-RD-DP21-2182 (IC) | رقم الوثيقة : | |

3.3.5 Any infraction stated in the Terms and Conditions for the use of DCL Conformity Mark shall constitute sufficient grounds for suspension, withdrawal and cancellation of the certificate of conformity against a certified client.

3.3.6 Any dispute that may arise in connection with the Terms and Conditions of the DCL Mark shall be settled in accordance with DM-DCLD-IMS-RD-08 Appeals, Disputes, and Complaints Procedure.

3.3.7 The certified client shall pay all applicable fees related to the certification process.

4. SURVEILLANCE

4.1 DM Certification Body shall carry out periodic surveillance to ensure consistent compliance with the requirements of this certification scheme as per DM-DCLD-RD-DP21-2096 (IC) – Surveillance of Certified Establishments under the Factory Assessment Scheme.

4.2 The surveillance shall be in accordance with the Independent Testing Plan (clause 3.1.4) that has been agreed between the DCLD and the factory.

5. FEE SCHEDULE

5.1 The certified client shall pay the applicable fees and charges related to the granting of the certification and authorization to use the DCL Mark based on the DCL Official Fee Structure, DM-DCLD-RD-DP21-2074 (IC).

5.2 The fees for this certification scheme shall include but not limited to the following

- 5.2.1 Application Fee
- 5.2.2 Initial Assessment Fee
- 5.2.3 Certification Fee
- 5.2.4 Marking Fee
- 5.2.5 Surveillance Fee
- 5.2.6 Annual Renewal Fee
- 5.2.7 Testing Fee

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|--|---------------------|
| Approved by HOU | Authorized by PCASM |
| Date of Issue : 17/03/2019 | Rev. No. : 02 |
| General / عام : Level of Confidentiality / درجة السرية | Page 6 of 6 |

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