



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

19-RJ1913908-PDA
04-Nov-2019
03-Nov-2024
Rio de Janeiro Engineering -
Machinery

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

HUBBELL-KILLARK

located at

**2112 FENTON LOGISTICS PARK BLVD, FENTON, MO, United
States, 63026**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Lighting Fixtures

Model Series L1L

This Product Design Assessment (PDA) Certificate remains valid until 03/Nov/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Tim Kimble, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

HUBBELL-KILLARK

2112 FENTON LOGISTICS PARK BLVD

FENTON MO

United States 63026

Telephone: 314-678-7203

Fax:

Email: tmichals@hep.hubbell.com

Web: www.hubbell.com/killark/en

Tier: 2 - PDA Issued

Product: Lighting Fixtures**Model:** Series L1L**Intended Service:**

Marine & Offshore Application - Suitable for on Deck of Marine Vessels & Offshore Platforms, Mobile Offshore Drilling Units.

Description:

L1L Series luminaires consist of aluminum ballast housing, utilizing a tube shaped tempered glass lens and a fixture housing mounting.

Rating:

Voltage: 120 - 480 VAC, 60/50 Hz and 125 - 250 VDC

Rated Ambient Temperature: 40°C or 55°C Max:

Power: 125 W Max;

Enclosure Type: NEMA 3, 4 and 4X, IP66;

Available certification for Hazardous Area Classification:

Class I, Div. 1, Groups B, C and D

Class I, Zone 1, Groups IIA, IIB

Class II, Div. 1, Groups E, F & G

Class III, Div. 1 & 2

See attached file for detailed specification.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 70170694_Report_70184989_Project, CSA Certificate of Compliance

Drawing No. HKSB-L1L 08-18, L1L Series Catalog and Spec

Terms of Validity:

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STANDARDS**ABS Rules:**

2019 Rules for Conditions of Classification, Part 1 - 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2019 Steel Vessels: 4-8-3/1.3, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17.1, 4-8-3/13.1, 4-8-4/1.3, 4-8-4/27.5.1;

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2019 Marine Vessels: 4-8-3/1.3, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17.1, 4-8-3/13.1, 4-4-8-4/1.3, 4-8-4/27.5.1;

2019 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2019 Mobile Offshore Drilling Units: 4-3-1/11, 4-3-1/15, 4-3-1/17.1, 4-3-3/9.1.2;

2019 Mobile Offshore Units: 4-3-1/11, 4-3-1/15, 4-3-1/17.1, 4-3-3/9.1.2

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA