DNV·GL

Certificate No:
TAE00003MU

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
Standard Lights 131, 132, 131/G, 132/G, 531, 532, Engine Room Light 174, Small Standard Lights 568, 569, Flat Type Ceiling Lights

Issued to
Karl Dose GmbH
Hamburg, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type	Vibration class	Degree of protection	Temp. class	Voltage (V)	Suitable for Hazardous areas
Standard Lights 131, 132, 131/G, 132/G, 531, 532	**A**	**IP56**	**C**	**up to 250 V**	**n/a**
Engine Room Light 174	**A**	**IP56**	**C**	**up to 250 V**	**n/a**
Small Standard Lights 568, 569	**A**	**IP56**	**C**	**up to 250 V**	**n/a**
Flat Type Ceiling Lights	**A**	**IP56**	**A**	**up to 250 V**	**n/a**

Issued at **Hamburg** on **2020-12-01**
This Certificate is valid until **2025-11-30**.
DNV GL local station: **Hamburg**

Approval Engineer: **Maik Gagern**

for **DNV GL**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-031153-1**
Certificate No: **TAE00003MU**

Product description

Luminaires for technical and outdoor areas
Luminaires for incandescent lamp, surface, without lampholder, max. 2 cable glands, with or without drip-hole

Rated voltage :	up to 250 V
Housing :	cast brass
Degree of protection :	IP 56

Standard lights

131	with structured globe, clear, polycarbonate
132	with structured globe, clear, polycarbonate and brass wire guard
131/G	cylindrical glass, clear
132/G	cylindrical glass, clear and brass wire guard
531	cylindrical glass, clear
532	cylindrical glass, clear and cast brass guard

Engineroom light

174	with structured globe, clear, polycarbonate

Application/Limitation

This Type Approval is valid for installation on ships contracted for construction before 1st of January 2022.
Light bulbs / lamps are not subject of this Type Approval.
Operating instructions of the manufacturer shall be observed.

Type Approval documentation

Tests carried out

DNV GL Class Guideline DNVGL-CG-0339, Edition Dec. 2016
IEC 60529:2001

Marking of product

Maker's trademark
Type designation

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type Approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

End of Certificate