



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00002AB**  
Revision No:  
**4**

## This is to certify:

That the Light Fitting

with type designation(s)  
**LED Floodlight 5000**

Issued to

**WISKA Hoppmann GmbH**  
**Kaltenkirchen, Germany**

is found to comply with

**DNV 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.

Vibration class	A
Degree of protection	IP 66/67
Temp. class	D
Voltage (V)	100-240V AC, 24V DC
Suitable for Hazardous areas	No

Issued at **Høvik** on **2022-10-12**

This Certificate is valid until **2027-10-11**.

for **DNV**

DNV local station: **Hamburg**

Approval Engineer: **Maik Gagern**

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**Marta Alonso Pontes**  
**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

LED Floodlight 5000:	5000- 1x40, 2x40, 3x40, 4x40
Rated voltage:	100-240V AC; 24V DC
Rated power:	40 W / module
Frequency:	50/60 Hz
Degree of protection:	Floodlight IP 66/67, Module IP 66/68
Class:	I
Suitable for open deck:	Yes
Ambient temperature:	-30°C up to 55°C
Material:	Thermal plastic and stainless steel Corrosion-free, vibration-proof saltwater and UV-resistant
Luminous flux:	4000 lm / module
Light colour:	5.600 K, optional other colours

## Application/Limitation

Installation instruction of the manufacturer to be followed.

Location classes:

Temperature class:	D
Humidity class:	B
Vibration class:	A
EMC class:	B
Enclosure class:	C

## Type Approval documentation

### Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, August 2021.

Applicable tests according to Class Program CP-0398, September 2021

IEC 60598-1: 2014, IEC 60598-2-5: 2015

## Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number
- Power supply ratings
- Degree of protection

## 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:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample test and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the 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