



Certificate No:
TAE00004MS

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
S104

Issued to

HELLA GmbH & Co. KGaA
Lippstadt, Nordrhein-Westfalen, 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	IP56
Temp. class	A
Voltage (V)	230V 50/60Hz
Suitable for Hazardous areas	no

Issued at **Høvik** on **2023-01-17**

This Certificate is valid until **2028-01-16**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Uwe Supke**

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

Light fitting S104,
 Recessed marine / offshore Living Quarter lighting for accommodation dry space use, including passageway, office, meeting room, entertaining room, state room, galley, etc.

Operating voltage:	230 VAC
Power consumption:	14 W
Housing material:	AlSi10mg, Double painted
Ingress protection:	IP56
Light output:	1150 lm
CRI:	90
Cut Out:	102 mm
Colour temperature:	2700 K, 3000 K or 4000 K

Place of production:

Hella Romania S.R.L, Str. Tapiei, Nr. 53-55, RO- 305500 Lugoj, Romania

Application/Limitation

End user is responsible for correct ingress protection wrt. location.

Environmental Classes:

Vibration: A
 Temperature: A
 Humidity: B

Type Approval documentation

Tests carried out

Environmental tests in accordance with DNV-CG-0339. Type tests in accordance with IEC 60598-2-2:2011 / IEC 60598-1:2014+A1:2017.

Marking of product

Manufacturer – Type – Model number- Voltage – Output power – IP class.

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 periodical 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