DNV·GL

Certificate No:
TAE00003CE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
Light fitting S102i,

Issued to
HELLA LIGHTING FINLAND OY
Salo, Finland

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

Application :

Products approved by this certificate 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
Light fitting S102i	**A**	**IP44**	**A**	**230V 50/60 Hz**	**No**

This Certificate is valid until **2024-08-19**.

Issued at **Høvik** on **2019-08-20**
DNV GL local station: **Helsinki** for **DNV GL**

Approval Engineer: **Nicolay Horn**

Trond Sjåvåg
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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Product description

Light fitting S102i,
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 V
Power consuption:	11 W
Housing material:	AlSi10mg, Double painted
Ingress protection:	IP44
Light output:	700 lm
CRI:	90
Cut Out:	102 MM
Colour temperature:	2700 K, 3000 K or 4000 K

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 DNVGL-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