



EC TYPE EXAMINATION (MODULE B) CERTIFICATE

No.	01-014973/0111389
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THIS IS TO CERTIFY:

That Croatian Register of Shipping did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto.

TYPE AND DESCRIPTION OF PRODUCT

MEGALUX 100 EXTRA and MEGALUX 100R EXTRA

NUMBER AND ITEM DESIGNATION (in accordance with Annex of Regulation (EU) 2021/1158)

MED/3.40
Low-location lighting systems (components only)

MANUFACTURER:

C.A.I.M. srl
Via Dino Col 6R
16149 GENOVA
Italy

Place of production (if different from above):

REGULATIONS AND STANDARDS (in accordance with Annex of Regulation (EU) 2021/1158)

SOLAS 74, Reg. II-2/13
IMO Res. A.752(18)
IMO Res. MSC.98(73) - (FSS Code) 11
ISO 15370:2010

NOTICE:

- Further details of the product and conditions for certification are given overleaf.
- This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.
- Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.
- The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Annex II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
- In case limitations of use apply, these should be indicated of in the Schedule of Approval.

Issued by Croatian Register of Shipping, notified body number 2489.

This certificate is valid until: 2025-12-20

Place and date: 2021-12-21

Seal

Signature

Marinko Popović, dipl.ing.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Photoluminescent lighting systems

Type MEGALUX 100 EXTRA is a high intensity phosphorescent vinyl film, not radioactive, cadmium-free, coated with permanent acrylic based pressure-sensitive adhesive. The adhesive is protected by a highly stable 135 gsm kraft paper.

Total thickness (film + adhesive): 0,360 mm

Weight per unit area: approx. 510 g/m²

Type MEGALUX 100R EXTRA is a high intensity phosphorescent PVC sheet, not radioactive, cadmium-free, coated with permanent acrylic based pressure-sensitive adhesive. The adhesive is protected by a highly stable 135 gsm kraft paper.

Total thickness (film + adhesive): 1,2 mm

Weight per unit area: approx. 1576 g/m²

2. APPLICATION/LIMITATION OF USE

- Approved for use as low-location lighting system, escape route signs and fire equipment location marking.

- Photoluminescent strips should not be less than 75 mm wide. PL having a width less than 75 mm should be used only if their luminance is increased proportionally to compensate for their width in accordance with Ch. 7.1 of IMO Res. A.752(18) or Ch. 4.2.2 and Annex D of ISO 15370:2010.

- The low-location lighting systems onboard shall be approved by the Administration based on the guidelines developed by the IMO Res.A.752(18) or ISO 15370:2010.

3. DESIGN DRAWINGS AND SPECIFICATIONS

MEGALUX 100 EXTRA – technical data sheet

MEGALUX 100R EXTRA – technical data sheet

4. TYPE TEST RECORDS/LABORATORY RECOGNITION STATUS

Type MEGALUX 100 EXTRA

Test report No.1738.0C0161/211 and No.1738.0C0162/211 dated 2021-11-19 in accordance with IEC 60092-101:2018, from LAPI S.p.A., Italy

Test report No.100-6280-1 dated 2019-12-16 in accordance with ISO 15370:2010, from VTEC Laboratories Inc., USA.

Test report No.100-6280-3 dated 2019-12-06 in accordance with ISO 16069:2004, from VTEC Laboratories Inc., USA.

Type MEGALUX 100R EXTRA

Test reports No.2595.0C0161/18 and No.2595.0C0162/18 dated 2018-12-04 in accordance with IEC 60092-101:1994-10 + (A1+Ec):1996-11, from LAPI S.p.A., Italy.

Test report No.100-6280-2 dated 2019-12-16 in accordance with ISO 15370:2010, from VTEC Laboratories Inc., USA.

Test report No.100-6280-4 dated 2019-12-06 in accordance with ISO 16069:2004, from VTEC Laboratories Inc., USA.

5. MATERIALS OR COMPONENTS REQUIRED TO BE TYPE APPROVED OR TYPE TESTED

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6. OTHER MATERIALS AND/OR COMPONENT

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7. PRODUCTION SURVEY REQUIREMENTS

The manufacturer is allowed to affix the Mark of Conformity to equipment referred and to issue a Declaration of Conformity as long as either of the following is fulfilled:

Module D - The quality system for production and testing shall be approved by the Notified Body or,

Module E - The quality system for inspection and testing shall be approved by the Notified Body or,

Module F - Compliance of the products in this EC Type-Examination Certificate is to be verified by the Notified Body who shall also issue a Certificate of Conformity.

8. ONBOARD INSTALLATION AND MAINTENANCE REQUIREMENTS

Each product is to be supplied with its instructions for installation, use and maintenance.

9. MARKING AND IDENTIFICATION



Subject to compliance with the conditions in this Schedule of Approval which forms part of certificate, and those of Articles 9, 10 and 15 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

xxxx/yy

xxxx - the number of the Notified Body undertaking surveillance module (2489 in case of CRS)

yy - the last two digits of year mark affixed

10. OTHER

- END OF CERTIFICATE -