EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000080R

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the C class Divisions

with type designation(s)
Larcore® CPL

Issued to
ALUCOIL, S.A.
Miranda de Ebro, Burgos, **Spain**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
item No. MED/3.64. SOLAS 74 as amended, Regulation II-2/3.10,3.33 & 2/9 and IMO 2010 FTP Code and IMO Res. MSC/Circ.1120

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-03-24**.

Issued at **Hamburg** on **2022-03-25**

DNV local station:
Area NB/CMC Iberia

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of Notified Body

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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

Larcore® CPL consists of an aluminium honeycomb core sandwiched between aluminium sheets. One or both faces were laminated with CPL laminate by thermoplastic adhesive film from COVESTRO.

The CPL laminate consists of a balancer paper on the back, an impregnated sodium kraft paper, an impregnated decor paper and an overlay on top.

Thickness	5.5 mm – 40 mm
Area weight	3.37 kg/m² - 7.71 kg/m²
Thickness of cover sheets	0.5 mm (at 5.5 mm) – 1 mm (at 40 mm)
Panel: moisture content	0%
Panel: organic content	0%
CLP thickness	0.4 mm
CLP density	1.35 g/cm³
CLP organic content	60%
Colour	Wood optic (depends on the decor paper)

For further details refer to the documentation listed below under “Type Examination documentation”.

Application/Limitation

Approved for use as non-combustible C-class division.

Max. panel size: 1300 mm x 3500 mm

Any surface material used have to be approved for smoke and toxicity and low flame characteristic (IMO 2010 FTP Code parts2 and 5) when required according to relevant rules.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code Part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Additional surface materials have to be approved for low flame-spread characteristics and smoke and toxicity (IMO 2010 FTP Code, Annex 1, Parts 2 and 5). Total volume of combustible material shall satisfy SOLAS Chapter II-2, Reg 5.3.2.3.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test report No. 20/22867-1531 dated 2020-09-22 from LGAI Technological Center, S.A. (APPLUS), Barcelona, Spain.
Test report No. ICL/H22/14844 dated 2022-02-27 and No. ICL/H22/14846 dated 2022-02-25 from Interscience Fire Laboratory, Hampshire, United Kingdom.

Technical data sheet Panel Lacore® CPL from manufacturer.
Technical Leaflet “Comparison between CPL and HPL” from manufacturer.
Adhesive product Information from Covestro Deutschland AG, Bomlitz, Germany.

Tests carried out

Honeycomb panel:
Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 1.

Surface material:
Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 5 and Annex 2 item 2.2 and 2.3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, storage/use temperature, production date and the MED Mark of Conformity.