

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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)
Luxboard D

Issued to

Luxpanel International GmbH
Bitburg, Rheinland-Pfalz, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2020/1170,**

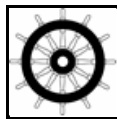
item No. MED/3.64. SOLAS 74 as amended, Regulation II-2/3.10,3.33 & 2/9 and IMO 2010 FTP Code and IMO Res. MSC/Circ.1120

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

This Certificate is valid until **2026-01-11.**

Issued at **Hamburg** on **2021-01-12**

DNV GL local station:
Essen



for **DNV GL SE**

Approval Engineer:
Pavel Golyshev

Notified Body
No.: **0098**

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **344.1-011217-1**
Certificate No: **MEDB000077T**

Product description

Luxboard D is an aluminium panel of type Luxboard A with laminated surface coating adhered to each side.

The laminate coating has maximum thickness of 0.4 mm, consists of paper bound with a phenol resin and is glued to the underlying aluminium honeycomb panel by means of the approved adhesive thermoplastic film (surface weight of 50 g/m²).

Nominal product thickness: approx. 15.5 mm and may have thickness between 3.0 mm and 49.5 mm for the honeycomb core and between 0.25 mm and 1.5 mm for aluminium sheets.

Panel width up to 1600 mm.
Panel length up to 15000 mm.

For further details see Type Examination documentation below.

Application/Limitation

Approved as non-combustible C-class division. The panel surface with laminate coating is approved for low flame spread characteristics and not generating excessive quantities of smoke nor toxic products in fire.

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).

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.

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

Type Examination documentation

Test report nos.:
20670140-20b dated 5th of May 2017,
8115395634-10, APS4-Hau/Wa dated 31st of January 2018 and
8116853070-10 and 8116853070-30 both dated 22nd of May 2019.

All test reports are issued by DMT GmbH & Co. KG (DMT-Test Laboratory for Fire Protection – Test Body for Fire Protection), Germany.

Tests carried out

Honeycomb core tested in accordance with the IMO 2010 FTP Code (IMO Resolution MSC.307(88)) Annex 1, Part 1.

Panel surface with laminate coating tested in accordance with the IMO 2010 FTP Code (IMO Resolution MSC.307(88)) Annex 1, Part 5 and Part 2 for materials not generating excessive quantities of smoke nor toxic products in fire.

Marking of product

The product is to be marked with name and address of the manufacturer, type designation, fire technical rating and MED Mark of Conformity.