EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AVW
Revision no.:
0

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 **Surface materials and floor coverings with low flame-spread characteristics: - decorative veneers**

with type designation(s)
High Pressure Laminates (HPL), type Duropal HPL IMO, Duropal Metallic IMO, Duropal HPL Individual IMO

issued to
Pfleiderer Deutschland GmbH
Neumarkt i.d.OPf., Germany

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.18a** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.1120, SOLAS 74 Reg. II-2/5, SOLAS 74 Reg. II-2/6, SOLAS 74 Reg. X/3

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

Date of issue: **2025-04-10**

Expiry date: **2030-04-09**

DNV local unit:
Augsburg

Approval Engineer:
Meike Grabau

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment, signed February 27th, 2004, and amended by Decision No 1/2023 dated May 26th, 2023.
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"High Pressure Laminates (HPL), type Duropal HPL IMO, Duropal Metallic IMO, Duropal HPL Individual IMO" are melamine surfaced high-pressure decorative laminates.

Duropal HPL IMO, Duropal Metallic IMO:
Substrate: "Vermiculite" silicate board, 19 mm (density 850 kg/m³)
Adhesive: "Weißleim Rakoll 3401/D3" / H.B. Fuller Deutschland (application rate: 70 g/m²)
HPL:
- Core paper "IMO Kernpapiertyp F" from Pfleiderer Deutschland (weight: 280 g/m²)
- Decor impregnation (top layer) "U12000 black" from Pfleiderer Deutschland (weight: 178 g/m²)
Thickness of HPL: 0.6 mm - 1.2 mm
Density of HPL: 1350 kg/m³

Total nominal thickness: 20.2 mm - 21.4 mm

Duropal HPL Individual IMO:
Substrate: "Vermiculite" silicate board, 19 mm (density 750 kg/m³)
HPL:
- 5 x core paper "Kotka Postforming 155" (weight: 5 x 230 g/m²)
- Span paper “Span 140” from Munksjö Germany Holding (weight: 210 g/m²)
- Print basis paper “Druckbasispapier 45” from Glattfelder Gernsbach (weight: 45 g/m²)
- Overlay (top layer) „Overlay ADO 22” from Glattfelder Gernsbach (weight: 107 g/m²)
Thickness of HPL: 0.6 mm - 1.2 mm
Density of HPL: 1350 kg/m³

Total nominal thickness: 20.2 mm - 21.4 mm

Application/Limitation

Approved for use as low flame spread material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use as decorative veneers on non-combustible, non-metallic substrate with a greater thickness than 14.25 mm.

Approved for all colour variations.
Maximum organic content: 98.1 wt%

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 MED Mark of Conformity.

Maximum gross calorific value shall be documented separately where applicable (SOLAS Reg. II-2/5.3.2).

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

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code Part 5 and 2.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable (see first page).