

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00000BM
Revision No:
3

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)
Duropal-HPL IMO

issued to

Pfleiderer Deutschland GmbH
Neumarkt i.d.OPf., Bayern, Germany

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

Regulation **(EU) 2024/1975**,

item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

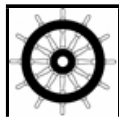
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-12-10**.

Issued at **Hamburg** on **2024-12-11**

DNV local unit:
Essen

Approval Engineer:
Meike Grabau



Notified Body
No.: **0098**



for **DNV SE**

Digitally Signed By:
Christine Mydlak-Röder
Location: DNV Hamburg,
Germany

Mydlak-Röder, Christine
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) 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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

"Duropal-HPL IMO"

is a high-pressure laminate consisting of:

- Melamine impregnated decorative paper (top layer)
- Phenol impregnated core paper
- Water based polyvinyl acetate adhesive
- Substrate (centre layer)

Top layer: Melamine impregnated decorative paper
 Nominal thickness: 0.5 – 0.8 mm (+/- 0.1 mm)
 Nominal density: 1.540 kg/m³

Core paper: Rohpapier Kapstone or Rohpapier Kapstone + Nordic Paper
 Nominal thickness: 0.5 mm
 Weight: 60 – 195 g/m²

Adhesive: Rakoll GXL-3 (water based polyvinyl acetate) / H.B. Fuller Deutschland GmbH
 Application rate: 95 g/m²

Substrate: ThermaxSN / Fibro AG
 Nominal thickness: 19 mm
 Nominal density: 750 kg/m³ (+/- 10%)

Total thickness: 20.6 mm
 Nominal density: 750 kg/m³
 Nominal area density: 17.6 kg/m²

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 any metallic base or non-combustible base.

Approved for all colour variations.
 Maximum organic content: 100 %

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

Test reports all from DMT-Test laboratory for Fire Protection, Dortmund, Germany:

Product name	Test report no.	Dated	IMO 2010 FPT Code part
Duropal-HPL IMO (0.8 mm)	20645132-10c	2014-08-08	5
Duropal-HPL IMO (0.8 mm)	20645132-20c	2014-08-11	2
Duropal-HPL Metallic IMO (0.8 mm)	20645132-10a	2014-08-08	5
Duropal-HPL Metallic IMO (0.8 mm)	20645132-20a	2014-08-11	2
Duropal-HPL IMO (Etagenpresse 0.5 mm)	20654141-10a	2015-08-12	5
Duropal-HPL IMO (Etagenpresse 0.5 mm)	20654141-20a	2015-08-13	2
Duropal-HPL IMO (Contipresse 0.5 mm)	20654141-10b	2015-08-12	5
Duropal-HPL IMO (Contipresse 0.5 mm)	20654141-20b	2015-08-13	2

Tests carried out

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



Job ID: **344.1-004052-12**
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Marking of product

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