

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00000BM
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

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 / Duropal-HPL Metallic IMO

Issued to

Pfleiderer Arnsberg GmbH
Arnsberg, Nordrhein-Westfalen, Germany

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

Regulation **(EU) 2019/1397,**

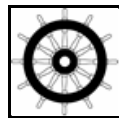
**item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000
HSC Code 7 and IMO 2010 FTP Code**

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

This Certificate is valid until **2024-12-10.**

Issued at **Høvik** on **2019-12-11**

DNV GL local station:
Essen



for **DNV GL AS**

Approval Engineer:
Tessa Bieber

Notified Body
No.: **0575**

Roald Vårheim
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-004052-6**
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Product description

"Duropal-HPL IMO / Duropal-HPL Metallic IMO" 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

Substrate: ThermaxSN / Fibro AG
Nominal thickness: 19 mm
Nominal density: 750 kg/m³ (+/- 5%)

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

Total thickness: 20.6 mm
Nominal density: 750 kg/m³
Nominal area density: 17.6 kg/m²
Max. organic content: 10 %

Application/Limitation

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

Approved for all colour variations.

The products may be applied to any metallic base and non-metallic base.

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.


Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2

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

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



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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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).