Marine & Offshore

Certificate number: 22342/C0 MED
File number: ACI1300/012/013
Item number: MED/3.18a
USCG Module B number: 164.112 / EC2690

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2019/1397 of 06 Aug. 2019

This certificate is issued to:

POLYREY SAS

Lalinde - FRANCE

for the type of product

SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS: DECORATIVE VENEERS

High Pressure Laminates (HPL) 0.6 mm to 1.2 mm:
POLYREY HPL Standard (HGS/VGS) and POLYREY HPL Postformable (HGP/VGP)

Requirements:
SOLAS 74 convention as amended, Regulations II-2/3, II-2/5, II-2/6, II-2/9, X/3
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7
IMO Res. MSC.61(67) -(FTP Code)- with IMO Res MSC.307(88) -(2010 FTP Code)- article 8
IMO MSC/Circ.1120

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 08 Nov 2024

For Bureau Veritas Marine & Offshore Notified Body 2690,
At BV BORDEAUX, on 08 Nov 2019,
Gabriel ZIMMER

This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

High Pressure Laminates (HPL) 0.6 mm to 1.2 mm: POLYREY HPL Standard (HGS/VGS) and POLYREY HPL Postformable (HGP/VGP)

High pressure laminate composed of layers of cellulosic fibrous material impregnated with thermosetting resins and bonded together by high pressure. The decorative layers are impregnated with melamine based resins. The core layers (kraft paper) are impregnated with phenolic based resins.

Density: 1350 kg/m³
Thickness: 0.6 to 1.2 mm

Tested glued by polyvinyl acetate glue "PLY-LOK 3080" from National Starch (application rate 100 to 130 g/m²) to 12 mm thick calcium silicate non-combustible substrate (nominal density 950 kg/m³).

2. DOCUMENTS AND DRAWINGS:

Technical data sheet "POLYREY HPL® - High Pressure Laminate HPL" Edition 09/2018.

3. TEST REPORTS:

3.1 - Test reports N° K011626 - Document DE/1 and N° K011626 - Document DE/3 both dated 19/08/2009, as per IMO FTP Code Annex 1 Part 5 [test standard : IMO Resolution A.653(16)], from LNE, France.

3.2 - Test reports N° K011626 - Document DE/5 and N° K011626 - Document DE/7 both dated 19/08/2009, as per IMO FTP Code Annex 1 Part 2, from LNE, France.

4. APPLICATION / LIMITATION:

4.1 - Approved materials are considered as having low flame spread characteristics and not capable of producing excessive smoke and toxic products.

4.2 - Acceptable for use on any non-combustible / non-metallic substrate (complying with the requirements of MED 2014/90/UE) having:

- a minimum density of at least 712.5 kg/m³, with no condition on the thickness, or,
- a minimum density of at least 400 kg/m³, with a thickness of at least 12 mm.

4.3 - Calorific value to be less than 45 MJ/m² as per ISO 1716, where required.

4.4 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

6. MARKING OF PRODUCT:

6.1 - Reference is made to MED 2014/90/EU chapter 2.
In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

6.2 - In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the product(s) marked as per MED 2014/90/EU may be marked with the USCG conformity marking as authorized by the Notified Body undertaking surveillance module.

7. OTHERS:

7.1 - It is **POLYREY SAS**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes EC Type Examination Certificate N° 22342/B1 EC issued on 19/11/2014 by the Society.

***** END OF CERTIFICATE *****

Fabrication guidelines of Polyrey HPL / PUR METAL for Marine applications

Polyrey laminates are produced from paper fibers; they are sensitive to hygrometric variations. For a proper fabrication, please follow the guidance given hereafter, related to:

SHIPPING AND STORAGE
During handling avoid dragging the decorative faces on one another - lift the sheets instead.
Transport the sheets on palettes of sufficient size and rigidity.
To avoid excessive distortion and facilitate subsequent conditioning, the sheets must be stored in dry premises, under cover. The climatic conditions must be 10°C to 30°C, with 40 - 65 percent relative humidity. Avoid storing for extended periods in proximity to a source of heat.
The sheets should preferably be stored flat, in piles or racks. The last sheet should be turned over and covered by a rigid board.

PRE-CONDITIONING OF SHEETS
Before bonding, the HPL laminates, substrates and adhesive must be stored in premises with the following recommended ambient conditions:
- Temperature: 18 to 22°C.
- Relative humidity: 50 to 65%.
Users are strongly recommended to observe a conditioning period of approximately 10 days before proceeding to any fabrication.
Do not to store film-covered sheets beyond six months. After fabrication, it is essential to strip the film within two months. Never leave a composite panel with the protective film on one side only (flatness problems)

COUNTER VENEERING
The larger the surface to clad, the greater the attention required in compensating the board.
The best results are obtained by using decorative pressure laminates of similar origin, similar color, laid in the same direction (see sanding on rear of sheet), and simultaneously bonded with the same technique on both supporting surfaces.

ANGULAR CLEARANCES, CUTOUTS, DRILLING
Inside corners and notched incisions must always be rounded and have a minimum radius of 5 mm.

BONDING CONDITIONS ACCORDING TO MARINE CERTIFICATION
Work only on flat clean surfaces, at an ambient temperature of 20°C approximately and 50 - 60% relative humidity.
Before starting to work, substrates, adhesives and HPL, have to be pre-conditioned (see above)

Substrate: mineral based boards intended for Marine applications such as “Cape Marine, FIPRO or THERMAX” boards.

Adhesives: PVAC mono component
Manufacturers :

HBFULLER Ref: Rakoll GXL3
PLY-LOK 3080 from National Starch
FOLCO LIT D3 W91 from FOLLMAN GmbH & CO

BONDING PROCEDURE
With this kind of adhesive, and according to the nature of the substrate, the best result is obtained with air-gun application. Quantity of adhesive will be between **100 and 150** g/m².
Pressing at **ambient temperature**, on press mono or multi-daylights.
The pressure will be **2,5 bar with** all finishes except with glossy finish (BRI , BRI HG) **1,5 bar.**
Pressing time depends on temperature and air’s relative humidity of the workshop: minimum **6 hours at 25°C 50% RH.**
Please ask the adhesive manufacturer for more precise advices.

MAINTENANCE & CLEANING (AFNOR T 54325 GUIDELINES)
Light soiling can be removed readily with a soft damp cloth, hot soapy water or using regular cleaning products (not abrasive or alkaline). Stubborn marks are cleaned using suitable organic solvents: alcohol, acetone etc. Never use maintenance wax or polishing product.

All our POLYREY HPL products comply with the requirements of the European standard EN 438, and of the International standard ISO 4586.