



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED328225CS

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2024/1975.

MED Item N°

MED/3.18a

USCG Category N°

164.112

Description

Surface materials and floor coverings with low flame-spread characteristics: (a) decorative veneers

Type

PAPER BASED HPL - High pressure laminates

Applicant

GREENLAM DECOLAN SA

Corso San Gottardo 32

6830 Chiasso

SWITZERLAND

Testing standards

IMO Res. MSC.307(88)-(2010 FTP Code), as amended.

Reference standards

SOLAS 74 Reg. II-2/3, SOLAS 74 Reg. II-2/5, SOLAS 74 Reg. II-2/6, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.1120.

Issued in Genoa on
July 4, 2025

This Certificate is valid until
May 13, 2030

This Certificate consists of this sheet plus an attachment

This document is electronically signed by

Enrico Cabella

RINA Services S.p.A.



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CERTIFICATE No. MED328225CS**

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Manufacturer

GREENLAM INDUSTRIES LIMITED

Place of Manufacturer

VILL-PATERH BHONKU.P.O. PANJEHRA. TEHSIL-NALAGARH DISTT-SOLAN (HP)
174101 Himachal Pradesh (Himachal Pradesh-2)
INDIA

Name & place of Authorised Representative

GREENLAM DECOLAN SA - Mr. Giovanni Iurza
Via del Sempione 269/a - 20028 - San Vittore Olona (MI)
ITALY

Product description

Multilayered laminate panel composed of:

- a core composed of fibrous material (kraft paper) impregnated with non-halogenated thermosetting resin (phenolic based resin)
- a decorative layer consisting of fibrous material (décor paper) impregnated with non-halogenated amino plastic thermosetting resin (melamine based resin).

The core is composed of a number of layers from a minimum of 3 (for the product 0.75 mm thick) up to a maximum of 57 (for the product 13 mm thick).

The decorative layer is applied on the upper side of the core for the product with thickness from 0.75 mm up to 2.5 mm; the decorative layer is applied on both sides of the core for the product with thickness from 3 mm up to 13 mm.

- Mass per area range (g/m^2) from 1030 ± 15 to 18330 ± 50
- Thickness range (mm) from 0.75 ± 0.05 to 13 ± 0.40

The material may also be produced by:

- Greenlam Ltd Menakuru Village, Naidupeta Manda Tirupati Dist., Andhra Pradesh - 524421, India
- Greenlam Industries Ltd Plot No. E-176 To 179, SP-02, RIICO Industrial Area, Phase-II, Behror, Alwar - 301701 Rajasthan, India

Field of application

As finishing material for all exposed interior and concealed or inaccessible surfaces.

The product may be applied to any metallic support or non-combustible material, if the product would not need any adhesive or combustible material layer.

On the basis of the value of the total heat release (Q_t) and on the basis of the value of the peak heat release (q_p) the material is deemed not generating excessive quantities of smoke nor toxic products in fire according to Annex 2 IMO 2010 FTP Code.

In case of use on surfaces and linings as specified in paragraph 3.2.1 of SOLAS 1974 Chapter II-2 Reg. 5, where the calorific value shall not exceed 45 MJ/m^2 for the thickness used as required in paragraph 3.2.2, the use of the certified product is limited to the following conditions:

- maximum thickness not exceeding 1.6 mm.



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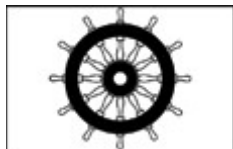
Tests carried out

Tests as per RINA Test Laboratory reports No. 2020CS01517/1, 2020CS01517/2, 2020CS01517/3 and 2020CS01517/4 dated 14 May 2020 issued according to:

- IMO 2010 FTP Code Part 2
- ISO 1716: 2010

This certificate annuls and replaces the certificate No. MED051720CS dated 05/15/2020 due to renewal.

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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*

YY *Last two digits of year mark affixed*

USCG Approval marking

This equipment is covered by the scope of 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. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category **164.112**.

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 MED.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

This document is electronically signed by

Enrico Cabella

RINA Services S.p.A.