



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED051720CS

***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) 2019/1397.

<i>MED Item N°</i>	<b>MED/3.18a</b>
<i>USCG Category N°</i>	<b>164.112</b>
<i>Description</i>	<b>Surface materials and floor coverings with low flame-spread characteristics: (a) decorative veneers</b>
<i>Type</i>	<b>HPL LAMINATE</b>
<i>Applicant</i>	<b>GREENLAM INDUSTRIES LIMITED</b> VILL-PATERH BHONKU.P.O. PANJEHRA. TEHSIL-NALAGARH DISTT-SOLAN (HP) 174101 Himachal Pradesh (Himachal Pradesh-2) INDIA
<i>Testing standards</i>	<b>IMO Res. MSC.307(88)-(2010 FTP Code)</b>
<i>Reference standards</i>	<b>Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment</b>
<i>Issued in Genoa on</i> May 15, 2020	<i>This Certificate is valid until</i> May 14, 2025

*This Certificate consists of this sheet plus an attachment*

**Enrico Cabella**  
RINA Services S.p.A.

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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*

Giovanni Iurza  
Via Mascagni, 14 - 20020 - Lainate  
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 ( $\text{g/m}^2$ ) from  $1030 \pm 15$  to  $18330 \pm 50$
- Thickness range (mm) from  $0.75 \pm 0,05$  to  $13 \pm 0,40$

**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  $45 \text{ MJ/m}^2$  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.

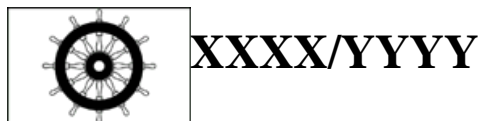
**Tests carried out**

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

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*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*



**"WHEELMARK FORMAT"**

XXXX      *Notified Body number undertaking surveillance module*

YY          *Last two digits of year mark affixed*

**USCG Approval**

This product has been assigned a U.S. Coast Guard module B number (*USCG number: 164.112/EC0474*) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval 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" as amended by Decision N. 1/2018 signed on 18th February 2019.

The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

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***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 no 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 reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



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**Enrico Cabella**

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