# EC TYPE EXAMINATION (MODULE B)

# CERTIFICATE No. MED233220CS

***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.*

| | |
|---|---|
| *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* | **Hi-Macs (R) Solid M Color Range** |
| *Applicant* | **LG HAUSYS LTD Seoul Station Bldg.**<br>21F 98, Huam-Ro, Jung-gu<br>04637 Seoul<br>REPUBLIC OF KOREA |
| *Testing standards* | **IMO Res. MSC.307(88)-(2010 FTP Code)** |
| *Reference standards* | **Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment** |

*Issued in Genoa on*
August 24, 2020

*This Certificate is valid until*
July 11, 2023

*This Certificate consists of this sheet plus an attachment*

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

***This document is a copy of a digitally signed file available on Rina Web Site: http://www.rina.org***

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova - Italia
Tel. +39 010 53851
Fax. +39 010 5351000

# ATTACHMENT TO CERTIFICATE No. MED233220CS



*Manufacturer*
**LG HAUSYS LTD**

*Place of Manufacturer*
9,Oksan Sandan 3-Ro Hungduk Gu Cheongju-si (Chungcheongbuk-do)
REPUBLIC OF KOREA

*Name & place of Authorised Representative*
LG Hausys Europe GmbH
Lyoner Str. 15, Atricom C6, D-60528 Frankfurt am Main, Federal Republic of Germany
GERMANY

## Product description

Inorganic modified acrylic solid surface material.

- Mass per area range (kg/m$^2$) 20.6 ± 0.8
- Thickness range (mm) 12 ± 0.5

## 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.

Where applicable the requirement of Chapter II-2/34 of SOLAS 1974 relevant to the calorific potential for surface unit should not exceed the maximum value of 45 MJ/m$^2$, the product having thickness of 12 mm may be applied on a limited surface; the use of the product on the whole surface is limited to maximum thickness of 4.1 mm.

## Tests carried out

-Tests of material HI-MACS FR SOLID S728M - Alpine White as per RINA Test Laboratory reports No. 2017CS01435/13 dated 27 June 2018 and No. 2017CS01435/14 and 2017CS01435/15 dated 4 July 2018 issued according to:

- IMO 2010 FTP Code Part 2
- IMO 2010 FTP Code Part 5
- ISO 1716: 2010

-Tests of material HI-MACS FR SOLID S722M - Black as per RINA Test Laboratory reports No. 2019CS011672/2 and No. 2019CS011672/4 dated 22 May 2019 issued according to:

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

This certificate annuls and replaces the certificate No. MED043517CS dated 07/12/2018 due to extension of color range on the basis of new tests.

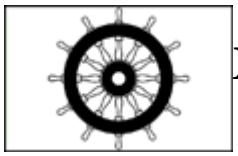
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*The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YYYY**

*"WHEELMARK FORMAT"*

*XXXX* *Notified Body number undertaking surveillance module*

*YY* *Last two digits of year mark affixed*

**US CG 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 reapproved 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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