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Certificate No:
MED-MB-1297-19
MED Item No. : MED/3.18 (a)

This consists of 3 pages.
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EC CERTIFICATE OF CONFORMITY

as per Module B
of European Council Directive 2014/90/EU on Marine Equipment (MED)

THIS IS TO CERTIFY that KR Hellas Ltd., designated by the Hellenic Republic as Notified Body according to Council Directive 2014/90/EU on Marine Equipment, did undertake the EC Type Examination procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU:

Manufacturer Name : Lotte Chemical Advanced Materials Yeosu Complex
Address : 334-27, Yeosusandan-ro, Yeosu-si, Jeollanam-do, Korea

Authorised Representative Name : Lotte Chemical Deutschland GmbH
Address : Kölner Str. 12, 65760 Eschborn, Germany

Regulation Item (No & item designation) : Surface materials and floor coverings with low flame-spread characteristics - decorative veneers

Product Types : Staron Pharos

Specified Standards [(EU)2019/1397] : SOLAS 74 Reg. II-2/3, II-2/5, II-2/6, X/3,
IMO Res.MSC.36(63)-(1994 HSC Code) 7,
IMO Res.MSC.97(73)-(2000 HSC Code) 7,
IMO MSC/Circ.1120,
IMO Res.MSC.307(88)-(2010 FTP Code) as amended.

Date of issue : 6th December 2019

Date of reissue(If applicable) : 28th February 2020

Expiration Date : 5th December 2024

Issued at Athens, under the authority of the Hellenic Republic by **KR Hellas Ltd.**



Notified Body No.2198



A blue ink signature of Dr. Nikos Katiforis.

Dr. Nikos Katiforis

Quality Manager of KR Hellas Ltd.

Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.



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Attachment to EC Type Examination Certificate(1/2)

Product description:

1. Staron Pharos consists of Poly Methyl Metacrylate, Aluminum Tri-hydrate, Pigments, additives and 0.06 mm thick Pressure self-adhesive.
2. Max. Thickness : 12 mm
3. Color : White (slightly yellowish white)

Application/Limitations of Use:


1. Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.
2. Approved for use as decorative veneer on a non combustible substrate.
3. 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.
4. Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.
5. Each product is to be supplied with its manual for installation and use.
6. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Test reports:

Tested according to IMO FTP Code Annex 1 Part 2 & 5

Report No.	Title of Report	Inspection & Test Institutes	Date
A2019-0808	Test for Smoke and toxicity	FILK	06.11.2019
A2019-0807	Test for Surface flammability		15.10.2019

Marking of product:

1. Marking of product for identification
The product is to be marked with name of manufacturer, type designation and USCG approval number if applicable.
2. Mark of Conformity
The manufacturer is allowed to affix the Mark of Conformity  according to Chapter 2, Article 9, 10 of the Council Directive 2014/90/EU on marine equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex II of the directive is fully complied with.





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Attachment to EC Type Examination Certificate (2/2)

Conditions of the validity:

1. The products are to be manufactured in accordance with the approved production quality assurance system (Module D) or approved product assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 2014/90/EU on Marine Equipment.
2. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid.
3. The Manufacturer must inform the "Notified Body" of all modifications which may affect compliance with the requirements.
4. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

Place of production:

1. Name : Lotte Chemical Advanced Materials Yeosu Complex
2. Address : 334-27, Yeosusandan-ro, Yeosu-si, Jeollanam-do, Korea

Remark

1. Reissued on 28th February 2020.
 - Change the name of manufacturer from "Lotte Advanced Materials" to "Lotte Chemical Advanced Materials Yeosu Complex"

End of Certificate

