

EC TYPE EXAMINATION (MODULE B) CERTIFICATE



This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No. 1025) did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection equipment requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant)	LG Hausys Ltd
Address	Surface Materials Division Strategy Team One IFC 18F 10 Gukjegeumyung-ro Yeongdeungpo-gu Seoul 150-876 Republic of Korea
Authorised Representative	LG Hausys Europe GmbH
Address	Lyoner Str. 15-60528 Frankfurt am Main Germany
Reference Regulation Item (No & Item designation)	Regulation (EU) 2018/773 MED/3.18a SURFACE MATERIALS & FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS - DECORATIVE VENEERS
USCG Category Number	164.112 - SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS (Interior Finish)
Product Type	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC PRODUCTS OF COMBUSTION
Product Description	Fire Resisting Material - Type: "HI-MACS FR SOLID" Decorative Covering Product Nos S705, S706, S728, S729, S801
Specified Standard	IMO Res. MSC.61(67) - (FTP Code) Annex 1, Part 5 and Annex 2 IMO MSC/Circ 1120 IMO Res. MSC.307(88) - (2010 FTP Code) Section 8 IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1 Part 2 and Part 5

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue	10 December 2018	Expiry date	9 December 2023
Certificate No.	MED 1850157	Signed	 
Sheet No	1 of 3	Name	J. Evans For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

USCG-EU MRA - This product has been assigned a U.S. Coast Guard Module B number: USCG Module B number: XXX.XXX/EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

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DESIGN APPRAISAL DOCUMENT

Date 10 December 2018	Quote this reference on all future communications UKITSO/FIRE/TA/JE/WP33356097
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850157

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

This Certificate is a renewal of Certificate No. MED 1450003/M2.

APPROVAL DOCUMENTATION

Fire Insurer's Laboratories of Korea (FILK), Gyeonggi-Do, Korea; Fire Test Report No. 2008-0317 dated June 2008.
RINA Fire Protection Research Laboratory, Genova, Italy; Fire Test Reports No. 2017CS01435/13 dated 27th June 2018 and No. 2017CS0143514 dated 4th July 2018.

CONDITIONS OF CERTIFICATION

1. When bonded to a non-combustible substrate with an approved adhesive
2. HI-MACS FR-Solid decorative covering for furniture and bulkheads applied to a maximum thickness of 12mm
3. Composition of individual materials to be maintained in production in accordance with originally tested composition formula
4. Smoke and toxicity criteria is satisfied by meeting the total heat release (Q_t) and peak heat release rate (q_p) as stated in IMO Fire Test Procedures Code, Annex 2, Section 2.2
5. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype
6. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place
7. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity"
8. This product has been assigned a **U.S. Coast Guard Module B number USCG Approval Category 164.112/EC0038** to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment".

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements



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PLACE OF PRODUCTION

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Chungcheongbuk-do
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Jessica Evans
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038