



## 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) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer (Applicant)</b>	LG Hausys
<b>Address</b>	275 Deongmang-ro Onyang-eup Ulju-gun Ulsan 689-901 Republic of Korea
<b>Authorised Representative</b>	LG Hausys Europe GMBH
<b>Address</b>	Lyoner Str Atricom C6 D/60528 Frankfurt am Main Germany
<b>Reference Regulation Item (No &amp; Item designation) USCG Category Number</b>	<b>Regulation 2017/306 MED/3.18a SURFACE MATERIALS &amp; FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS - DECORATIVE VENEERS 164.112 - SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME SPREAD CCHARACTERISTICS (Interior Finish)</b>
<b>Product Type</b>	<b>MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS &amp; NOT CAPABLE OF PRODUCING EXCESSIVE SMOKE &amp; TOXIC PRODUCTS OF COMBUSTION</b>
<b>Product Description</b>	Fire-Resisting Material - Type "LG Hausys Interior Film "
<b>Specified Standard</b>	IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1 Part 5 and Annex 2

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	31 December 2017	Expiry date	30 December 2022
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Certificate No.	MED 1850026
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Signed	
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Name	J. M. Evans
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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: 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."

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**Lloyd's Register Verification Limited**

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Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 12 February 2018	Quote this reference on all future communications SOUTSO/SFS/TA/JE/WP31259807
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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850026**

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.

**APPROVAL/EXAMINED DOCUMENTATION**

Fire Insurers Laboratories of Korea (FILK), 1030 Gyeongchung-daero, Ganam-eup, Yeosu-si, Gyeonggi-Do, 469-881, Korea, Test Report No. G2015-0092E dated March 2015.

**CONDITIONS OF CERTIFICATION**

1. When bonded to a metallic substrate
2. Self adhesive PVC film consisting from fire exposed side of: clear PVC film, printed PVC film (combined thickness 0.18mm) and adhesive (0.4mm thick). Maximum total thickness 0.23mm
3. Smoke and toxicity criteria is satisfied by meeting the total heat release (Qt) and peak heat release rate (qp) as stated in IMO Fire Test Procedures Code, Annex 2, Section 2.2
4. Composition of individual components to be maintained in production in accordance with originally tested composition formula
5. 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
6. 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

7. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place



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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850026

##### PLACE OF PRODUCTION

LG Hausys  
275 Deongmang-ro  
Onyang-eup  
Ulju-gun  
Ulsan 689-901  
Republic of Korea



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**