

EC TYPE EXAMINATION (MODULE B) CERTIFICATE


This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU and 2012/32/EU subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	LG Hausys Ltd
Address	Surface Materials Division Strategy Team One IFC 18F 10 Gookjegeumyoong_Ro, Yeongdeungpo_Gu, Seoul, 150-876 Republic of Korea
Annex A1 Item	A.1/3.18a 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)
Type	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC PRODUCTS OF COMBUSTION
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

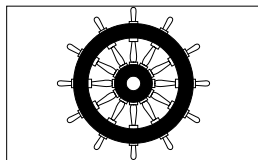
The attached Design Appraisal Document (schedule) forms part of this certificate.

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 2013	Expiry date	9 December 2018
Certificate No.	MED 1450003/M1	Signed	
Sheet No	1 of 3	Name	B. McDonald For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

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.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy = Last two digits of year mark affixed.

This product has been assigned a U.S. Coast Guard Module B number:

USCG Module B number: 164.112/EC0038

USCG-EU MRA

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."

This certificate is issued under the authority of the MCA.

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Lloyd's
Register

Lloyd's Register Verification Limited

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Document number MED 1450003/M1
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 10 December 2013	Quote this reference on all future communications MTES/TA/SFS/JE/BM/WP16182701
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1450003/M1

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 DOCUMENTATION

Fire Insurer's Laboratories of Korea (FILK), Gyeonggi-Do, Korea; Fire Test Report No. 2008-0317 dated June 2008.

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 are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive.
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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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1450003/M1

PLACE OF PRODUCTION

LG Hausys Ltd
Surface Materials Production Team
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Bruce McDonald
Technical Manager
Statutory Fire and Safety
Marine Technology and Engineering Services
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038