



CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer LG Hausys

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

Type MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT
CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC
PRODUCTS OF COMBUSTION

Description Fire-Resisting Material – Type “LG Hausys Interior Film”

Specified Standard IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 5 and Annex 2

The attached Design Appraisal Document forms part of this certificate.

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

Date of issue 31 December 2017

Expiry date 30 December 2022

Certificate No. SAS F180056

Signed

Sheet No 1 of 2

Name

J. M. Evans
Surveyor to Lloyd's Register EMEA
A Member of the Lloyd's Register Group

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 Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

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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 CERTIFICATE OF TYPE APPROVAL No. SAS F180056

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

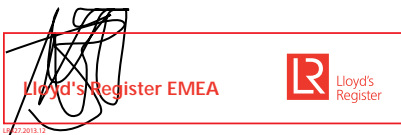
Fire Insurers Laboratories of Korea (FILK), 1030 Gyeongchung-daero, Ganam-eup, Yeosu-si, Gyeonggi-Do, 469-881, Korea, Test Report No. G2015-0092E dated March 2015.

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 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

PLACE OF PRODUCTION

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



Jessica Evans
Senior Surveyor
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).