

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 Fine Industries Co., Ltd

Address 405 Cheongneung-daero
Gojan-dong, Namdong Industrial Complex 77B-3L
Namdong-gu
Incheon
Republic of Korea


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

Description Fire-Resisting Material - Type: "INFEEL" PVC Sheet

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 25 November 2015 Expiry date 24 November 2020

Certificate No. SAS F160108 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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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 25 November 2015	Quote this reference on all future communications MTES/SFS/TA/JE/WP25145108
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F160108

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

KOMERI, 435 Haeyang-ro, Youngdo-Gu, Busan 49111, Republic of Korea; Fire Test Report No. KOMERI-0402-15T3708 dated 7th December 2015.

CONDITIONS OF CERTIFICATION

1. When applied to a non-combustible substrate
2. Multilayer laminate (0.88mm thick,) consisting of: 0.7mm steel + 0.05mm transparent PVC + 0.08mm coloured PVC + 0.05mm white PVC adhered using acrylic adhesive manufactured by Burim Chemical
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 coatings including flame retardants 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

Fine Industries Co., Ltd
405 Cheongneung-daero
Gojan-dong, Namdong Industrial Complex 77B-3L
Namdong-gu
Incheon
Republic of Korea



Jessica Evans
Senior Surveyor
Statutory Fire & Safety
Marine Technology and Engineering Services
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).