



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 | EGGER Kunststoffe GmbH & Co. KG |
| Address | Im Weilandmoor 2 D-38518 Gifhorn Germany |
| Type | MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC PRODUCTS OF COMBUSTION |
| Description | Fire Resisting Material - Decorative Laminate Type: "EGGER Schichtstoff (EGGER laminate)" (0.6mm and 0.8 mm thick) & "EGGER Schichtstoff mit farbigem Kern (EGGER laminate coloured core)" (0.8 mm thick) |
| Specified Standard | IMO Res.MSC.61 (67) - (FTP Code) Annex 1 Part 2 and Part 5 and Annex 2 IMO MSC/Circ.1120 IMO Res. MSC.307(88) - (2010 FTP Code) Part 8 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.

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| Date of issue | 24 September 2018 | Expiry date | 23 September 2023 |
| Certificate No. | SAS F180268 | Signed |   |
| Sheet No | 1 of 3 | 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.



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| Document number | SAS F180268 |
| Issue number | 1 |

DESIGN APPRAISAL DOCUMENT

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| Date | Quote this reference on all future communications |
| 9 October 2018 | UKITSO/SFS/TA/JE/WP33874979 |

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180268

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Exova Warringtonfire, Industriepark Höchst, C369, Frankfurt, Germany, Fire Test Reports No. 2011-1661-1 dated 6th July 2011, No. 2012-1099 dated 31st January 2012, No. 2012-1249 dated 20th March 2012, No. 2013-1033-1 dated 21st January 2013, No. 2015-1346 and No. 2015-1347 both dated 7th May 2015.

CONDITIONS OF CERTIFICATION

1. When bonded to a non-combustible substrate with 'Aerodux 185 + HRP 150' adhesive manufactured by Dynea, or other separately approved adhesive
2. Multilayer laminate (0,8 mm and 0,6 mm thick) consisting of: overlay paper(optional) and decorative paper impregnated with melamin resin, kraft paper impregnated with Phenol melamin resin mix, backing paper or absorbent paper
3. Multilayer laminate (0,8 mm) consisting of: overlay paper(optional) and digital printed paper impregnated with melamin resin, kraft paper impregnated with Phenol melamin resin mix, backing paper or absorbent paper
4. Multilayer laminate (0,8 mm) consisting of: decorative paper impregnated with melamin resin, backing paper or absorbent paper
5. Composition of individual coatings/adhesives to be maintained in production in accordance with originally tested composition formula
6. 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
7. 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



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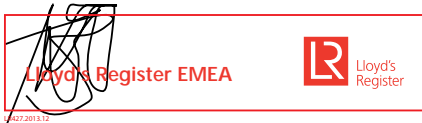
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| Date 9 October 2018 | Quote this reference on all future communications UKITSO/SFS/TA/JE/WP33874979 |
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PLACE OF PRODUCTION

EGGER Kunststoffe GmbH & Co. KG
Im Weilandmoor 2
D-38518 Gifhorn
Germany



Jessica Evans
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I 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).