



## 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.

<b>Manufacturer</b>	<b>SOLARGLIDE LTD.</b>
<b>Address</b>	Unit 8, The Stottie Shed, 5 Bakers Yard, Christon Road, Newcastle upon Tyne, NE3 1XD, United Kingdom (UK)
<b>Type</b>	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS AND NOT CAPABLE OF PRODUCING EXCESSIVE SMOKE & TOXIC PRODUCTS OF COMBUSTION
<b>Description</b>	Fire Resisting Surface Finish Material – Type: “Low Mirror Reflective Silver Solar Film
<b>Trade Name</b>	“Low Mirror Reflective Silver Solar Film”
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 2 and Part 5

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

**Keith Taylor**

Team Lead Fire & Safety to Lloyd's Register  
EMEA  
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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 '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.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2394855SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

1. Interscience Fire Laboratory; Building 63, Haslar Marine Technology Park, Haslar Road, Gosport, Hampshire, PO12 2AG, United Kingdom (UK); Fire Test Report No: ICL/H22/15559 dated 17th January 2023 (FTP Code Part 2) & Fire Test Report No: ICL/H2/15558 dated 17th January 2023 (FTP Code Part 5).

**CONDITIONS OF CERTIFICATION**

1. To be applied on a non-combustible substrate.
2. Surface finish material "Low Mirror Reflective Silver Adhesive Solar Film" consisting of: polyester based solar film, 35 microns (0.035mm) thick and 10kg/m<sup>2</sup> weight per unit area. The film shall be bonded to substrate using adhesive type 'Ball Styccobond F66 solvent free contact adhesive' produced by F.Ball and Co. Ltd.
3. Maximum film thickness 35 microns (0.035mm).
4. Product may be supplied in as-tested reflective silver colour or lighter colour shades. Any darker colour shade of the product than the tested should be separately approved in accordance with 2010 FTP Code, Annex 1, Part 5, Appendix 4, Paragraph 2.6.
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. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and Lloyd's Register Class Rules as applicable and designed, manufactured, and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2394855SF**

---

**PLACE OF PRODUCTION**

Supplier A (Details held in Lloyd's Register confidential technical file)

Keith Taylor  
Team Lead, Fire & Safety  
Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
Lloyd's Register

**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)*

---

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 '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.



## 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.

<b>Manufacturer</b>	<b>SOLARGLIDE LTD.</b>
<b>Address</b>	Unit 8, The Stottie Shed, 5 Bakers Yard, Christon Road, Newcastle upon Tyne, NE3 1XD, United Kingdom (UK)
<b>Type</b>	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE SMOKE & TOXIC PRODUCTS OF COMBUSTION
<b>Description</b>	Surface Finish Material – Type: “Low Mirror Neutral Grey Adhesive Solar Film” solar film (maximum 35microns thick) for application on internal locations with adhesive
<b>Trade Name</b>	“Low Mirror Neutral Grey Adhesive Solar Film”
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 2 and Part 5

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

**Keith Taylor**

Team Lead Fire & Safety to Lloyd's Register  
EMEA  
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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 '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.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR22351746SF-01**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Design Appraisal Document forms part of the Certificate.

This Certificate Supersedes and is an Amendment of Certificate Number: LR22351746SF

**APPROVAL DOCUMENTATION**

**TEST REPORTS**

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, United Kingdom; Fire Test Reports No: ICL/H21/14549 Rev 1 and ICL/H21/14550 Rev 1 both dated 11<sup>th</sup> January 2022.

**CONDITIONS OF CERTIFICATION**

1. To be applied on a non-combustible substrate.
2. Surface finish material "Low Mirror Neutral Grey Adhesive Solar Film" consisted of: polyester based solar film, 35microns thick and 109.6g/m<sup>2</sup> weight per unit area, attached to an aluminium substrate using adhesive type 'Ball Stycobond F66 solvent free contact adhesive' manufactured by F.Ball and Co. Ltd., applied on the corners of the film.
3. Maximum thickness is 35microns (0.035mm).
4. Product may be supplied in as-tested grey or lighter colour shades. Any darker colour shade of the product than the tested should be separately approved in accordance with 2010 FTP Code Annex 1 Part 5 Appendix 4 Paragraph 2.6.
5. Composition of all product components shall be maintained in production as per the originally tested formula. Their method of application/installation onboard must be in full compliance with manufacturer's instructions, to ensure the final product assembly is of the same specification and capable of providing at least the same fire performance as the tested and approved prototype.
6. 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.
7. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR22351746SF-01**

8. The Place(s) of Production have not been identified on the certificate, but details have been provided and agreed by Lloyd's Register (LR) and they are held in LR's confidential technical files. The client must notify LR of any changes to these facilities (i.e. the facilities for the product design, manufacture, inspection, testing, storage) for LR's agreement well in advance of the change, in order for the certificate to remain valid.

**PLACE OF PRODUCTION**

**Supplier A (Details held in Lloyd's Register confidential technical file)**

Keith Taylor  
Team Lead, Fire & Safety  
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)*