



Maritime &
Coastguard
Agency

Approved Body authorised by the MCA

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Certificate No: LR2402731UKMB

Issue Date: 09/01/2024

Expiry Date: 08/01/2029

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Lloyd's Register Marine Limited (LRM Ltd) did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

Manufacturer	Solarglide Limited
Address	Unit 8, The Stottie Shed, 5 Bakers Yard, Christon Road, NEWCASTLE UPON TYNE, NE3 1XD, United Kingdom
Reference	MSN1874 Amendment 7
Regulation Item (No. & Item Designation)	UK/3.19 - Draperies, curtains and other suspended textile materials and films
Product Type	Draperies, Curtains & Other Suspended Textile Materials and Films
Product Description	Fire Restricting Material – “Karellis 11301” PVC Free 100% Polyester Blackout Roller Blind fabric
Trade Name	Karellis 11301
Specified Standard	IMO RES MSC.307(88) - (2010 FTP CODE) Annex 1, Part 7 IMO MSC.1/Circ.1456

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate is issued under the authority of the MCA. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

Lloyd's Register Marine Limited (Reg. no. 13281335) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.
A member of Lloyd's Register group.

Bruce McDonald

Global Fire & Safety Manager
For and on behalf of Lloyd's Register Marine Ltd. (8512)

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UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

The "UK Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an Approved Body.

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ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2402731UKMB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and the Merchant Shipping (Marine Equipment) Regulations 2016, as amended for the UK Type Examination of marine equipment for use on UK ships

This Design Appraisal Document forms part of the Certificate.

APPROVAL/EXAMINED DOCUMENTATION

TEST REPORTS

Shirley Technologies Limited (BTTG); Wira House, West Park Ring Road, Leeds, LS16 6QL, UK; Fire Test Report No. 23/61136/06/23, dated 29th June 2023.

CONDITIONS OF CERTIFICATION

1. Fire Restricting Vertically supported material consisting of PVC free coated 100% polyester fabric at a mass per unit of 290g/m² with a total thickness of 0.35mm.
2. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance System (Module D), a Product-Quality Assurance System (Module E) or a Product Verification Process (Module F), as applicable. The UK Conformity Mark cannot be affixed to the product until a conformity assessment module is in place.
3. Each item, batch or lot of the subject equipment is to be issued with a "UK Declaration of Conformity" and have the "UK Conformity Mark" affixed after a conformity assessment module is in place.
4. 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 as applicable and are designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.
5. Should a change of Place of Production from that stated below be required i.e., where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.
6. The manufacturer must keep a copy of the UK type-examination certificate, its annexes, and additions together with the technical documentation at the disposal of the national authorities for a period of at least 10 years after the UK Conformity Mark has been affixed on the last product manufactured and, in no case for a period shorter than the expected life of the marine equipment concerned.

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UKITSO/FIRE/TA/JG/BM/WP51588707/PRJ11100422419

ATTACHMENT TO UK TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2402731UKMB

PLACE OF PRODUCTION

MERMET SAS

58 chemin du Mont Maurin
38630
Les Avenieres Veyrins-Thuellin
France

Bruce McDonald
Global Fire & Safety Manager
Lloyd's Register Americas
**For and on behalf of Lloyd's Register Marine Ltd.
(LRM Ltd) - UK Approved Body 8512**

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ATTACHMENT TO UK MODULE B CERTIFICATE - DAD Template v.0 dated 29.03.2023.

TEST CERTIFICATE

No. F20322/1

Testing in Accordance with Part 7 of the 2010 FTP Code
Fire Test Procedures for Determining the Resistance to Flame of Vertically Supported Textiles and Films

SAMPLE INFORMATION

Client **Solarglide Limited**
Unit 8, The Stottie Shed, Bakers Yard, Christon Road, Gosforth, Newcastle Upon Tyne, NE3 1XD

Sample type **Fabric**
Details supplied by the client **Dart Blackout**
Mass per unit area: 407 g/m² Thickness: 0.25mm-0.33mm,
Colour and tone: Not Given, FR treatment: None,
Composition: 75% PVC, 25% Fibreglass
Yarn density: Not Given, Yarn number count: Not Given

Fabric weight **Approximately 407 g/m²**
Dimensions **100cm by 148cm (Full width)**
Date Received **9/9/2020**
Pre-treatment **None - the fabric was stated to be inherently flame retardant**
Conditioning **Not less than 24 hrs at 20 +/- 5C and 65 +/- 5% RH**

TESTING

Following the pre-treatment indicated above, the material was conditioned and tested in a draft-free room, otherwise according to testing to Part 7 of the 2010 FTP Code. Testing was carried out on the face side of the fabric.

Initial testing of the material has determined that the samples were tested with a 15 second flame applied to the edge of the sample.

	WARP					WEFT				
Specimen number	1	2	3	4	5	1	2	3	4	5
Duration of flaming (sec)	0	0	0	0	0	0	0	0	0	0
Flaming debris separated	No	No	No	No	No	No	No	No	No	No
Flame reached edge	No	No	No	No	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No	No	No	No	No
Surface flash	No	No	No	No	No	No	No	No	No	No
SF propagation length	-	-	-	-	-	-	-	-	-	-
Char length (mm)	18	14	17	19	18	17	22	19	17	19

The test results relate only to the behaviour of the test specimens of a product under the particular condition of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

CONCLUSION

The sample, as received, meets the requirements of Part 7 of the 2010 FTP Code
Fire Test Procedures for Determining the Resistance to Flame of Vertically Supported Textiles and Films

The fabric may be labelled "IMO FTPC Part 7".



U or UU indicates a test result within our estimate of uncertainty of the specification limit - see the report appendix for more information.
#=Subcontracted to a UKAS accredited Test House. The results on this test report only relate to the specimens tested above.



The Sidings Business Park, SKIPTON, North Yorkshire, BD23 1TB
Phone or Fax 01756 792525

Office: 30 Alexandra Crescent, ILKLEY, West Yorkshire, LS29 9ER, Phone or Fax 01943 603459
Reg. No. 3168606, VAT No. 659 9604 77



Mr J Firth
Technical Manager
END OF REPORT

TEST CERTIFICATE

No. F20322/2

Test n ti Aggoa di g1 a tsw hds P o7swl 20f 0 FTh Cor 1
Ftcl T1eshoog1r ucle 7oc D1slanti ti n swl R1etesdi g1 so Fldm1 o7V1csdgly Suppocs1r T1xst1e di r
Ftlme

SAMPLE INFORMATION

Client Soldn1tr 1 Ltmts1r
Ui ts8, Twl Ssoat1 Sw1r, Bdk1ae Ydcr, Cwdesoi Rodr, Goe7ocsw, N1a gdes1 Upoi
Tyi 1, NE3 fXD
Sample type Fdbdtg
Details supplied Cdd t: dl Bldgkous
by the client Mdee p1cui tsdc1d45-0 n/m² Twtgki 1ee4NosGt: 1i
Coloucdi r soi 14ui ki oa i, FR sc1dsn1i s4Noi 1
Compoetsoi 4f 00v holy1es1c
Ydd r 1i etsy4NosGt: 1i, Ydd i umb1cgoui s4NosGt: 1i
Fabric weight Appcoxtrmsd1ly 5-0 n/m²
Dimensions f 00gm by f 58gm %Full a tr swl
Date Received) / / 2020
Pre-treatment Noi 1 9swl 7dbdtg a de esds1r so b1 ti w1c1i sly 7dm1 c1sdr di s
Conditioning Nos1lee swdi 25 wae ds20 +/9- C di r 6- +/9- v RH

TESTING

Following the pre-treatment indicated above, the material was conditioned and tested in a draft-free room, otherwise according to testing to Part 7 of the 2010 FTP Code. Testing was carried out on the face side of the fabric.

Initial testing of the material has determined that the samples were tested with a 15 second flame applied to the edge of the sample.

	WARh					WEFT				
Sp1gtm1i i umb1c	f	2	3	5	-	f	2	3	5	-
Duration of flaming (sec)	0	0	0	0	0	0	0	0	0	0
Flaming debris separated	No	No	No	No	No	No	No	No	No	No
Flame reached edge	No	No	No	No	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No	No	No	No	No
Surface flash	No	No	No	No	No	No	No	No	No	No
SF propagation length	-	-	-	-	-	-	-	-	-	-
Char length (mm)	31	40	36	34	39	48	39	48	43	47

The test results relate only to the behaviour of the test specimens of a product under the particular condition of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

CONCLUSION

Twl edmpl1, de c1g1t: 1r, m11se swl c1qutclm1i se o7hds P o7swl 20f 0 FTh Cor 1
Ftcl T1eshoog1r ucle 7oc D1slanti ti n swl R1etesdi g1 so Fldm1 o7V1csdgly Suppocs1r T1xst1e di r
Ftlme

Twl 7dbdtg mdy b1 ldb1ll1r "IMO FThC hds P".





The Sidings Business Park, SKIPTON, North Yorkshire, BD23 1TB
Phone or Fax 01756 792525

Office: 30 Alexandra Crescent, ILKLEY, West Yorkshire, LS29 9ER, Phone or Fax 01943 603459
Reg. No. 3168606, VAT No. 659 9604 77



Mr J Firth
T1gwi tgdl Mdi dn1c
END OF REhORT