



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00000XY
Revision No:
1

This is to certify:

That the Antiglare Sunscreens

with type designation(s)
SOLASAFE, SOLAROLA

Issued to

Solar Solve Marine
South Shields, Tyne and Wear, United Kingdom

is found to comply with

ISO 8468:2007 Ships and marine technology – Ship's bridge layout and associated equipment – Requirements and guidelines
DNV rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2021-09-10**

for **DNV**

This Certificate is valid until **2026-09-09**.

DNV local station: **Newcastle-upon-Tyne**

Approval Engineer: **Steinar Kristensen**

Marta Alonso Pontes
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

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SOLASAFE® and SOLAROLA® anti-glare roller screen films;

- a) with constant tension spring double pulley bottom rail operation
- b) with constant tension spring centre pull operation
- c) with side chain operation
- d) with self lock spring operation
- e) with cable support system
- f) with side guide channels
- g) with inverted operation

	Film Colour			
	Silver RS10G	Grey RS10G/G	Gold RS10G/GO	Bronze RS10B/B
Visible Light Transmission	6,6	7,9	6,1	14,2
Glare Reduction	92,6	91,2	93,2	84,1
Total Energy Rejection	77,8	65,7	87,2	67,6
UV Transmission	2,6	1,4	0,7	1,5

Application/Limitation

Electric motorized screens are not embraced by this type approval.

Type Approval documentation

- DNV Initial Survey Report for Type Approval, DNV Report No. S1200063
- DNV Type Approval Test Report, Sheet 1- 11, Id. No. DNVTR2V15a
- Introduction and Requirement for DNV Type Approval, Id. No. DNVSPEC2V15A

Tests carried out

Functional tests including :

- Testing of colour distortion, true colour rendition, examination of glare and reflection.
- Examination demonstrating fitness for purpose for both screens and mountings when installed, including adaptability of the screens.
- Endurance tests highlighting screen and mounting robustness.
- Witnessing of working practises and procedures.

Marking of product

The product or its packaging is to be marked with type designation SOLASAFE® or SOLAROLA® and the name of the manufacturer.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://www.dnv.com/approvalfinder>

Only valid for official SOLASAFE products which have been manufactured in the UK