



Marine & Offshore

Certificate number: 09569/F0 MED

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This certificate is not valid when presented without the full attached schedule
composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2024/1975 of 19 July 2024

This certificate is issued to:

Orafol Americas Inc.

120 Darling Drive, 06001, Avon, CT, UNITED STATES OF AMERICA

for the type of product

RETRO-REFLECTIVE MATERIALS

Oralite FD1403-1545

(3155-0015-000-0762)

Requirements:

Row 2 of 2 of Regulation (EU) 2024/1975:

SOLAS 74 Convention as amended, Regulations III/4, III/34 and X/3

IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93), MSC.425(98), MSC.459(101) and MSC.485(103) I

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8,

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8

IMO Res. MSC.481(102)

IMO MSC.1/Circ.1628 Rev. 1

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 27 Apr 2030

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV PORT EVERGLADES CENTRE, on 19 Jun 2025,

Flavio Rosas

This certificate was created electronically and is valid without signature



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

"Oralite FD1403-1545" (3155-0015-000-0762) retro-reflective material consists of microprisms enclosed in a transparent film. The product is acrylated polyester/metallized and the material is provided with acrylic pressure sensitive adhesive, for tape and sheeting application to Life-Saving Appliances, to assist in their detection.

The tapes or sheeting do not require an additional primer when fitted to painted wood, metallic surfaces or glass fibre. A suitable primer should be used when the tape is fitted to the following substrates:

PU coated fabrics	PVC coated fabrics	PE coated fabrics	Rubber
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2. DOCUMENTS AND DRAWINGS :

- Drawings and specifications:

Number	Title	Version	Date
Oralite FD 1403	Technical Data Sheet	---	04/2022
Oralite FD1403/FD1404	Application instructions	---	2015/27
FCD-00669	FD1403-1545 - Technical Construction Drawing	2.0	05/20/2025

- Manual(s) for installation use and maintenance.

No departure from these documents is permitted without the prior consent of the Society.

3. TEST REPORTS :

Test Report		
Number	Description	Date
N°95-DG-222/2-TO	Type tested by REGISTRO ITALIANO NAVALE (RINA)	18/12/1996

4. APPLICATION / LIMITATION :

- As per requirements stated on front page of this certificate.
- Type II: Highly weather-resistant material for continuous outdoor exposure.
- Adhesive Strength test has been performed on Painted Wood / Painted Fibreglass / Aluminium.
- Additional adhesion tests are needed on Rubber / Lifejacket / Liferaft's fabrics / Lifebuoy's raw material.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - The manufacturer shall institute a quality control procedure to ensure that the retro-reflective material is produced to the same standard as the approved prototype and shall keep records of any production tests carried out.

5.3 - The retro-reflective material shall be supplied with its Manual(s) for Installation, use & maintenance.

5.4 - For information concerning the production phase modules, **ORAFOL Americas Inc.** has declared the following manufacturing site(s):

Addresses:

ORAFOL Americas Inc. (Designer and Manufacturer of base material/Films/Conversion into finished products) 120 Darling DR. Avon, CT 06001 - USA	ORAFOL Europe GmbH, Reflective Solutions Ireland (Conversion into finished products) Unit 5 - Cleaboy Business Park - Old Kilmeaden Rd Waterford, Ireland
ORAFOL Europe GmbH (Manufacturer of base material/Films) OrafolstraBe 1, D-16515 Oranienburg, Germany	

6. MARKING OF PRODUCT :

- Maker's name or trademark
- SOLAS
- Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS :

It is **Orafol Americas Inc.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This Certificate supersedes the previous Type Examination Certificate No 09569/E2 MED issued on 14/01/2025 by the Society.

*** END OF CERTIFICATE ***