



Marine & Offshore  
Division

Certificate number: 44832/A0 BV

File number: FAB 2017/16

Product code: 9065H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**PENNEL & FLIPO**  
MOUSCRON - BELGIUM

*for the type of product*

**PROOFED FABRICS FOR INFLATABLE CRAFTS**  
ORCATHANE 289 M

**Requirements:**  
ISO15372:2000

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 03 Apr 2021**

**For BUREAU VERITAS,**  
At BV ANTWERP, on 03 Apr 2016,  
Nele Appels



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. 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. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division 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 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 :

"ORCATHANE 289 M" is a Coated fabrics for Inflatable rescue boats.

- Base fabric: Polyamide High tenacity **1880 dtex – 1710 deniers**
- Coating: Polyurethane Polyether Double side

### 2. DOCUMENTS AND DRAWINGS :

- Technical Specification

Revision	Date	Description
2	01/12/2015	ORCATHANE 289 M

*No departure from these drawings and specification is permitted without the prior consent of the Society.*

### 3. TEST REPORTS :

As per test report listed in the following document:

Number	Description	Date
C3 100 967	"Essais de résistance à la flexion et de tenue à l'ozone" performed by the "Laboratoire de recherche et de contrôle du caoutchouc et des plastiques"	29 January 2016
UA11673	"Ultraviolet resistance" test by the "ATLAS Material Testing Solutions"	20 January 2016
-----	Type tested by the house laboratory of PENNEL & FLIPO, France, as per "Test report According to Norme ISO 15372:2000"	08 March 2016

### 4. APPLICATION / LIMITATION :

- As per requirements stated on front page of this Certificate.
- The certificate covers the ORCATHANE 289 M range of colors.

### 5. PRODUCTION SURVEY REQUIREMENTS :

The Polyurethane coated fabrics "ORCATHANE 289 M" are to be supplied by PENNEL & FLIPO in compliance with the type described in this certificate.

This type of product is within the category HBV of Bureau Veritas Rule Note NR320. PENNEL & FLIPO has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

PENNEL & FLIPO  
102, Boulevard de l'eurozone  
7700 MOUSRON  
BELGIQUE

### 6. MARKING OF PRODUCT :

The Fabric is to be marked in such a manner as to allow traceability of the fabric Manufacturer and production Lot number, i.e.:

- Trade name
- Serial number
- Date of manufacture
- BV approval.

### 7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the coated Fabric at any time at the Manufacturer's Works and that the Manufacturer will accept the responsibility for informing boat Manufacturers and users of the proper methods of use and general maintenance of the Fabric and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*