

MARINE DIVISION

17 bis Place des Reflets - La Défense 2
92400 Courbevoie - France

Tel. 33 1 42 91 52 91
Fax. 33 1 42 91 28 94
www.veristar.com



Certificate number: 19599/A1 BV

File number : FAB 2017/7

Product code : 9065H

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

PENNEL & FLIPO

Roubaix - FRANCE

for the type of product

PROOFED FABRICS FOR INFLATABLE CRAFTS

ORCA 828

Regulations and standards :
ISO 15372/2000

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 of the Regulations and standards mentioned above.

This certificate is valid until : 12 Jun 2012

At Paris la Défense, on : 27 Jun 2007

For BUREAU VERITAS,
By order of the Secretary

L. COURREGELONGUE

Approval office



Local office : BV VALENCIENNES
Surveyor : L. Fratini



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 Division. 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 :

ORCA 828 is a coated fabric intended to be used for Inflatable chambers of inflatable rescue boats.

- Base Fabric: Polyester high tenacity 1100 dtex - 990 deniers.

Coating:

Outside Chlorosulfonated Polyethylene (CSM)/ Polychloroprene (CR)

Inside Polychloroprene (CR)

2. DOCUMENTS AND DRAWINGS :

As per Technical Specification ref. "ORCA® 828" rev.13 dated 26/03/2007.

3. TEST REPORTS :

Type tested by the house laboratory of PENNEL & FLIPO, France, as per "Test report According to Norme ISO 15372:200(E) dated of the 04 May 2007. The laboratory is recognized by the Society for the purpose.

Type tested also for the "resistance to flex cracking" test and "Ozone" test by the "Laboratoire de recherche et de contrôle du caoutchouc et des plastiques" as per test report N° C315-442 dated 20 Arpil 2007 and as per test report N° C313-690 dated 16 April 2004.

4. APPLICATION / LIMITATION :

- The certificate cover the ORCA® 828 range of colors.

5. PRODUCTION SURVEY REQUIREMENTS :

The fabrics are to be manufactured, examined and tested by PENNEL & FLIPO in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end PENNEL & FLIPO has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

PENNEL & FLIPO has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production sites :

PENNEL & FLIPO - 384, rue d'alger - B.P 89 59052 ROUBAIX Cedex

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 ***