



Marine & Offshore

Certificate number: 02166/G0 BV

File number: COMP 985/01

Product code: 9031H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

CHOMARAT Textiles Industries
LE CHEYLARD - FRANCE

for the type of product

GLASS FIBRE PRODUCTS
Fibre Reinforcements for Composites :
COMBINED FABRICS

Requirements:

Bureau Veritas "Hull in Composite and Plywood, Material Approval, Design Principles, Construction and Survey" NR546 as amended

This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 19 Oct 2023

For Bureau Veritas Marine & Offshore,

At BV LYON, on 19 Oct 2018,

Yann Krempelwicz



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. 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Designation: ROVIMAT
 Application: Fibre Reinforcements for composite
 Material description: Glass fiber composed fabrics (non woven and woven assembled together by stitching)

Products	Nominal weight of Woven Roving (gr/m ²)	Weaving	heddling	Reservation for cutting	Nominal weight of Mat (gr/m ²)	Manufacturer's Technical Specification
790P2/1/300	790	Basket	Single	without	300	RT015
790P2/1/300L	790	Basket	Single	without	300	RT283
790P2/1/450	790	Basket	Single	without	450	RT019
790T/1/300	790	Twill 2.2	Single	without	300	RT018
790T/1/450	790	Twill 2.2	Single	without	450	RT070
790T/1/600	790	Twill 2.2	Single	without	600	RT021
1020P2/300	1020	Basket	NA	without	300	RT025
505P2/450	505	Basket	NA	without	450	RT006
505T/300	505	Twill 2.2	NA	without	300	RT014
505T/450	505	Twill 2.2	NA	without	450	RT013
600P2/450	600	Basket	NA	without	450	RT011
505P/300	505	Plain	NA	without	300	RT522
505P(17)/300(16)	505	Plain	NA	without	300	RT091
530T/R/300	530	Twill 2.2	NA	with	300	RT507
530T/R/450	530	Twill 2.2	NA	with	450	RT360
840T/1/R/300	840	Twill 2.2	Single	with	300	RT413
840T/1/R/450	840	Twill 2.2	Single	with	450	RT472
1500T3/300L	1500	Twill 3.1	NA	without	300	RT292

L : stand for a specific binding type
 (16) and (17) : stand for use of specific glass fiber
 NA : stand for Not Applicable

2. DOCUMENTS AND DRAWINGS :

As per Manufacturer 's Technical Specifications above.

3. TEST REPORTS :

Products	Test Reports
790P2/1/300	09102007/13
790P2/1/300L	20062008/12
790P2/1/450	38-RT 10386
790T/1/300	175-RT 10791
790T/1/450	231-RT 30792
790T/1/600	232-RT 40792
800S/700	175-RT 10791
900T2/450	17-RT 100782
1020P2/300	09102007/11
505P2/450	4 BIS-RT 31281
505T/300	52 BIS-RT 30587
505T/450	257-RT 20393
600P2/450	20-RT 130782
505P/300	see CR E18-181
505P(17)/300(16)	CR E 18-181
530T/R/300	CR E18-181
530T/R/450	see CR E18-181
840T/1/R/300	see CR E18-181
840T/1/R/450	CR E18-181
1500T3/300L	24012007/1

4. APPLICATION / LIMITATION :

- Use : Structural reinforcement for the construction of composite vessels built under survey of the Society.
- Compatibility with resins: polyester, vinylester and epoxy resins.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The ROVIMAT are to be supplied by **CHOMARAT** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **CHOMARAT** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **CHOMARAT** has declared to Bureau Veritas the following production site:
CHOMARAT - 07160 LE CHEYLARD - FRANCE

6. MARKING OF PRODUCT:

The product shall be marked with manufacturer's name: CHOMARAT, type designation , density and production site.

7. OTHERS:

Nil

*** END OF CERTIFICATE ***