

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Glass Fibre Products**

with type designation(s)

**G-PLY™: Quadri-axial Q (0°/±45°/90°) (300 – 3000 g/m²)
with or without CSM (100 - 600 g/m²)**

Issued to

**CHOMARAT TEXTILES INDUSTRIES
LE CHEYLARD, France**

is found to comply with

**DNV GL class programme DNVGL-CP-0467 – Type approval – Uni- and multi-axial multi-ply
fabrics made of glass fibres
DNV GL rules for classification – High speed and light craft
DNV GL standard DNVGL-ST-0342 – Craft
Det Norske Veritas' Standards for Certification No. 2.20, Lifeboats and Rescue Boats, 2007****Application :****For use in marine vessels according to stated Rules/Standards.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.**This Certificate is valid until **2019-09-13**.Issued at **Høvik** on **2016-10-12**DNV GL local station: **Marseille**Approval Engineer: **Gisle Hersvik**for **DNV GL****Martin Strande
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.

Job Id: **262.1-018699-3**
Certificate No: **TAK0000034**
Revision No: **1**

Product description

G-PLY™: Quadri-axial Q (0°/±45°/90°) (300 – 3000 g/m²) with or without CSM (100 - 600 g/m²); Glass Fibre Quadri-axials

Fibre: Roving 600 tex

Manufactured by

CHOMARAT Textiles Industries, 39 avenue Chabannes, 07160 Le Cheylard, France

DNV GL local station: Marseille

CHOMARAT Engineered Textiles (Taicang) Co., Ltd., 36 Qingdao East Road, Taicang 215400, Jiangsu Province, China

DNV GL local station: Shanghai

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

The Type Approval is valid for the above-mentioned nominal weight range.

Type Approval documentation

1. Assessment Report from DNV GL Shanghai of 2016-09-02.
2. Assessment Report from DNV GL Marseille of 2015-06-05 (audit date 2015-03-31).
3. Application for Type Approval of 2015-03-31.
4. Material Declaration – Asbestos of 2015-04-10.
5. POLYLITE® 506-647 (DCPD Based Infusion Resin) Product Bulletin (Reichhold).
6. Chomarats Test Report for Q850 [0°/±45°/90°, Roving 600 tex].
7. Product Information: G-PLY™Q850 T4 (860 g/m²).

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product


Product/package shall be marked with *manufacturer's name, place of production and type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical Assessment to be performed after two (2) years (Certificate Retention) and at renewal after four (4) years (Certificate Renewal).



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The main elements of the Periodical Assessment are to:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE