

# TYPE APPROVAL CERTIFICATE

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

with type designation(s)

**CQX; Quadraxial Carbon Fibre Fabrics (0°/±45°/90°) (140-1600 g/m<sup>2</sup>)**

Issued to

**SELCOM S.R.L.****Fregona, TV, Italy**

is found to comply with

**DNV GL class programme DNVGL-CP-0434 – Type approval – Uni- and multi-axial multi-ply fabrics made of carbon fibres****Application :****Manufacturing of FRP laminates.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2022-02-04**.Issued at **Høvik** on **2019-10-24**DNV GL local station: **Venice**Approval Engineer: **Gisle Hersvik**for **DNV GL**

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**Rikard Törnqvist**  
**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: **262.1-023229-2**  
Certificate No: **TAK00000NX**  
Revision No: **1**

## Product description

**CQX**; Quadraxial carbon fibre fabrics

Fibre material: PAN Carbon Fibre

Layer structure: CQX (0°/-45°/90°/+45°)

Mass per unit area: 140-1600 g/m<sup>2</sup>

## Application/Limitations

Manufacture of FRP components for applications including marine vessels - and rotor blades within wind energy (ref. DNVGL-ST-0376).

The fabric complies with the applicable requirements of DNV GL and is compatible to the laminating resin.

Any significant changes in design and / or quality of the material will render the approval invalid.

## Type Approval documentation

1. Assessment Report from DNV GL Venice of 2016-12-15.
2. TDS; CQX800 (24K).
3. Fabric Quality Controls.
4. Linset & Co. S.r.l. Test Report (ASTM D3039, ASTM D695, ASTM D790) of 2016-11-03.
5. Linset & Co. S.r.l. Test Report No. 462-16 of 2016-11-07.

## Marking of product

Product/package shall be marked with *manufacturer's name*; **SELCOM S.R.L.**, *type designation, dimensions, batch no. and storage instructions*.

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 assessments (for Certificate Retention and Certificate Renewal) shall be performed according to DNVGL-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnvgl.com>

END OF CERTIFICATE