

QUALITY materials for a wide range of applications



VERGNET WIND TURBINES - KAFEATE (NC)



ALTMODULO S.R.L.



SUPERBUS - TU DELFT



COMPOBUS - NABI

Because of its unquestionable reputation for quality and service earned over years of supply, **SELCOM S.R.L.** is involved in ambitious projects that integrate the design and performance and manufacturing benefits of advanced composites materials.

INNOVATIVE Composite Fabric Solutions MADE IN ITALY

SELCOM service the following markets:

- BOATBUILDING
 - DEFENCE/AEROSPACE
 - ENERGY
 - INFRASTRUCTURE
 - OFFSHORE
 - SPORTS
 - TRANSPORTATION
- AND OTHER INDUSTRIAL APPLICATIONS



SELCOM is sponsor member of ASSOCOMPOSITI, the Italian Industry Association for Composite Materials



SELCOM's Quality Management System Certificate no: 616/97/5



SELCOM is partner of an integrated Project for SMEs: POLYTECT - Polyfunctional Technical Textiles against Natural Hazards EC Contract number NMP2-CT-2006-026789

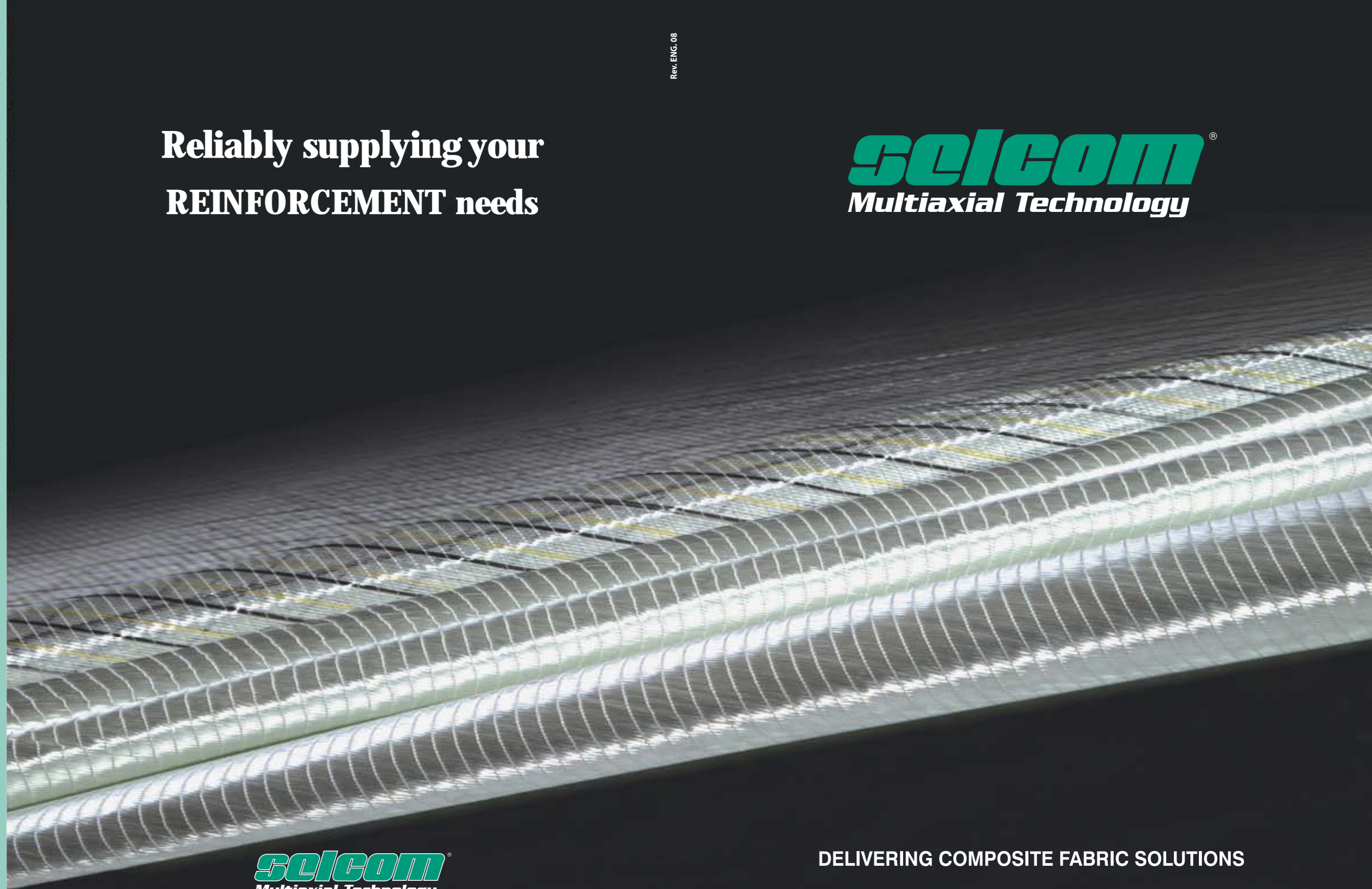


DNV Type Approval Certificates N° K-2792 K-2793 K-2794 K-2795

Reliably supplying your REINFORCEMENT needs

SELCOM[®]
Multiaxial Technology

Rev. ENG. 08



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DELIVERING COMPOSITE FABRIC SOLUTIONS



SELCOM SRL, based in Italy near Venice, was established in 1992 as manufacturing company to meet the growing international demand of Multi-axial reinforcements (NCF=Non Crimp Fabrics) for the Composites Industry.

Since then, SELCOM has developed and supplied engineered fabrics using high performance fibres (glass, carbon, aramid, etc.) to satisfy even the most sophisticated and demanding clientele.

Thanks to years of experience, know-how, skilled staff and with the contribution of its technical/commercial partners, the company can guarantee a steady development of composite solutions through improved current products and the creation of new systems.

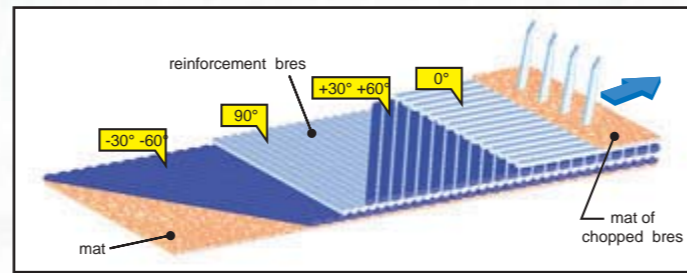
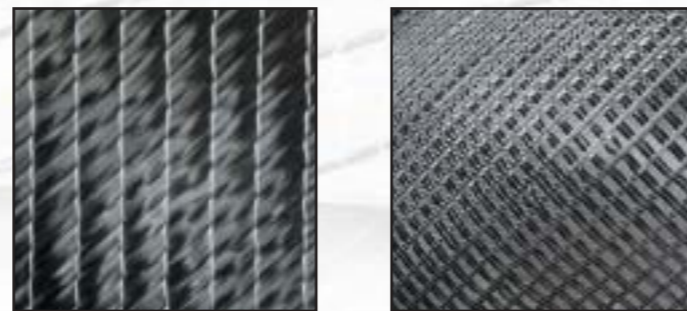
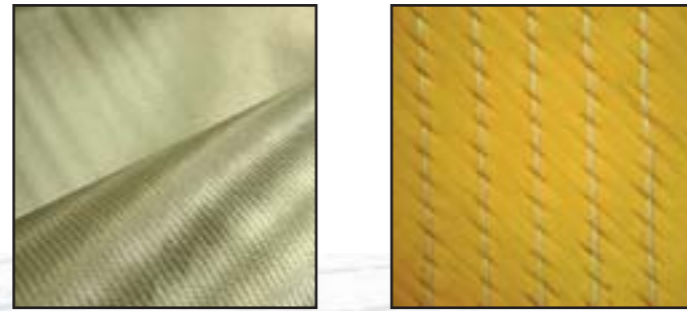
SELCOM multi-axial fabrics are the ideal textile structure for reinforced composites. Parallel fibres are laid in different orientations (as defined by the application), layer-by-layer.

Chopped fibres, non-wovens and/or other materials can be added on the outer surfaces or in between the single plies. The whole reinforcement is then fixed by a stitching system to form a single layer.

Due to the stitched nature of the multi-axial construction, the crimp effect associated with woven fabric is not present. Thus the tensile strength is maximised and risk of delamination minimised.



SELCOM REINFORCEMENT FABRICS



Using SELCOM reinforcement fabrics in Hand Lay Up, Vacuum Infusion Process, SCRIMP®, VARTM, RTM, Prepregs, Pultrusion..., means greater productivity, for the following reasons:

- **Lower resin consumption:** there are no resin rich areas being NCF.
- **Better wet-out:** the laminar structure of the NCF increases the flow of resin.
- **Improved interlayer wet-out:** construction and the special soft binding allows resin to penetrate through various layers.
- **Better mechanical properties (flexural and tensile).**
- **Better handling:** it is possible to cut the NCF without fibres falling apart whilst handling or laminating.

- **Excellent drapeability:** adjustable stitching patterns according to end use.
- **Less Print-through:** the surface quality is improved respect to wovens.
- **Shorter Process Cycles:** multi-layer fabrics (up to 3.5 kg/m² areal density) are available.



SELCOM supply a wide range of products in various weights and widths. Fibre orientation per single layer, apart from the longitudinal (0°) direction, can range from +30° to +150°.

We are delighted to develop highly individual solutions for special applications in close cooperation with our customers.



The IDEAL solution to REINFORCE your projects

