

Technical Reinforcements for

Marine Applications

Saint-Gobain Technical Fabrics produce a range of technical reinforcements to meet all the needs of the boat-builder, from the volume polyester boat moulder to the one-off carbon epoxy builder.

Woven Cloths

Lightweight woven yarn cloths for epoxy coating, or for thin sandwich skins.

Woven Roving

Woven roving and woven tapes for open mould polyester boat production. Normally used in single-skin laminates with CSM.

Woven Combinations

As with the WR above, these are normally used in single-skin open-mould polyester applications. WR/CSM combinations are ideal for fast build-up of the laminate, minimizing labour.

Stitched 0°/90°/CSM combinations

All the advantages of the WR/CSM combinations and in similar applications, but with the added properties of non-crimped fibres.

Multiaxials

A full range of multiaxial products, including combinations. Multiaxials are ideal for sandwich construction, where an optimized tensile skin is required. Biaxial $\pm 45^\circ$ & $\pm 45^\circ$ /CSM fabrics in both full width and tapes compliment the WR & 0°/90° combinations in single skin laminates for secondary bonding, and over internal framework.

Unidirectionals

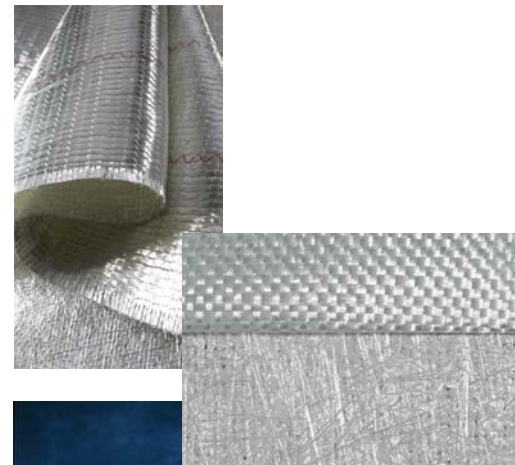
Both woven and stitched UD fabrics are available in full width and tape form. Heavyweight tapes are ideal for capping internal framework.

Carbons

We offer the full range of cost-effective carbon fibre reinforcements – multiaxials, woven fabrics and unidirectional tapes.

Closed-mould products

With the popularity of closed-mould applications, we can now offer our family of one-shot 3D reinforcements – Multimat, Multimat-Lite, Multicore and Multifilo.



Reinforcements for Marine Applications

Some typical products for boatbuilding

Product	Description	Fabric weight g/m ²	CSM weight g/m ²	Total weight g/m ²
Woven Roving				
RT 500	WR plain	500	-	500
RS 580	WR Twill	580	-	580
RT 600	WR plain	600	-	600
RT800	WR plain	800	-	800
Woven Combinations				
RT500/S450	WR/CSM	500	450	950
RT600/S300	WR/CSM	600	300	900
RT800/S300	WR/CSM	800	300	1100
RT800/S450	WR/CSM	800	450	1250
RE1500/S300	WR/CSM	1500	300	1800
Stitched 0°/90°/CSM				
ELTM 600/300	0°/90°/CSM	566	300	866
ELTM 850/300	0°/90°/CSM	850	300	1150
ELTM 850/450	0°/90°/CSM	850	450	1300
ELTM 1700/300	0°/90°/CSM	1700	300	2000
Multiaxials				
EBX 446	±45°	446	-	446
EBX 602	±45°	602	-	602
EBXM 602/225	±45°/CSM	602	225	827
EBXM 602/300	±45°/CSM	602	300	902
EBX 936	±45°	936	-	936
EBXM 936/100	±45°/CSM	936	100	1036
ETLX 1169	0°±45°	1169	-	1169
EQX 1168	0°/-45°/90°/+45°	1168	-	1168
ELT 850	0°/90°	850	-	850
Unidirectionals				
U1140/r17/50/S50	UD tape	1200	50	1250
Carbons				
CBX 400 12k	±45°	400	-	400
CBX 600 24k	±45°	600	-	600
CR 630 24k	2x2 twill	630	-	630
CUD 1000	UD tape	1000	-	1000
Closed Mould				
Multimat	CSM / knitted glass core / CSM	Thicknesses		2 to 7 mm
Multimat-Lite	CSM / knitted glass/PE / CSM	Thicknesses		2 to 5 mm
Multicore	CSM / Ppveil (/CSM)	Thicknesses		2 to 7 mm
Multifilo	CSM / Unifilo® CFM core / CSM	Thicknesses		2 to 4 mm
For more information, please request the Closed Mould Product info sheet.				

The above represent only a small proportion of our standard product range. Many other weights and variations are available – please contact us for more details. 05/05