

CFS 640

Sheet of carbon fibre for dry and wet lay up

Technical data (unidirectional)	400 g/m ²
Elastic modulus [kN/mm ²]	640
Tensile strength [N/mm ²]	2650
Fibre weight [g/m ²] (main direction)	400
Weight per unit area of sheet [g/m ²]	430
Density [g/cm ³]	2.1
Elongation at rupture [%]	0.4
Design thickness (fibre weight/density) [mm]	0.190
Theoretical design cross-section 1000 mm width [mm ²]	190
Reduction factor for design (manual lamination / UD sheet)	1.2 (recommended)
Tensile force of 1000mm width ultimate [kN]	$\frac{190 \times 2650}{1.2} = 419.6$
Tensile force of 1000mm width at 0.2% ϵ for design [kN]	203
Delivery: (Special sheets upon request)	Width: 300 mm Length roll: 50 m

Application :

- External shear strengthening
- End anchoring of the SINIT laminate CFL

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