

CFS 240

Sheet of carbon fibre for dry and wet lay up

Technical data (unidirectional)	200 g/m ²	300 g/m ²	400 g/m ²	600 g/m ²
Elastic modulus [kN/mm ²]	240	240	240	240
Tensile strength [N/mm ²]	3800	3800	3800	3800
Fibre weight [g/m ²] (main direction)	200	300	400	600
Weight per unit area of sheet [g/m ²]	230	330	430	640
Density [g/cm ³]	1.7	1.7	1.7	1.7
Elongation at rupture [%]	1.55	1.55	1.55	1.55
Design thickness (fibre weight/density) [mm]	0.117	0.176	0.234	0.352
Theoretical design cross- section 1000 mm width [mm ²]	117	176	234	352
Reduction factor for design (manual lamination / UD sheet)	1.2 (recommended)	1.2 (recommended)	1.2 (recommended)	1.2 (recommended)
Tensile force of 1000mm width ultimate [kN]	$\frac{117 \times 3800}{1.2} = 370.5$	$\frac{176 \times 3800}{1.2} = 557.3$	$\frac{234 \times 3800}{1.2} = 744.0$	$\frac{352 \times 3800}{1.2} = 1114.6$
Tensile force of 1000mm width at 0.6% ϵ for design [kN]	140	211	282	422
Delivery: (Special sheets upon request)	Width: 300 or 600 mm Length roll: 100 m	Width: 300 or 600 mm Length roll: 100 m	Width: 300 or 600 mm Length roll: 100 m	Width: 300 or 600 mm Length roll: 100 m

Application :

- Flexural enhancement (low quality of substrate)
- Axial load enhancement of columns
- Replacement of stirrups in columns

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