

S&P C-Sheet 240

 Sheet of carbon fibre for **dry and wet lay up**

05/08

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/m²] (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 by S&P)	1.2 (recommended by S&P)	1.2 (recommended by S&P)	1.2 (recommended by S&P)
Tensile force of 1000 mm width ultimate [kN]	$\frac{117 \times 3800}{1.2} = \underline{370.5}$	$\frac{176 \times 3800}{1.2} = \underline{557.3}$	$\frac{234 \times 3800}{1.2} = \underline{744.0}$	$\frac{352 \times 3800}{1.2} = \underline{1114.6}$
Tensile force of 1000 mm 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 mm Length roll: 100 m

Application:

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

Note: Different weight of S&P C-Sheet 240 upon request.

As of all other technical indications and information provided by us, the only purpose of this data sheet is to describe the nature of this product, as well as its possible applications and fields of use. However, it does not guarantee certain properties of this product or its suitability for a determined purpose of application; furthermore, the directions for use given in this data sheet are not complete. Since this data sheet is subject to modification, it is the duty of our clients to ensure that they refer to the latest version. The updated data sheets can be obtained at all times from all our locations. In addition, the current general terms of business are applicable.