

## S&P C-Sheet 240

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

11/04

<b>Technical data (unidirectional)</b>	<b>640 g/m<sup>2</sup></b>
Elastic modulus [kN/mm <sup>2</sup> ]	240
Tensile strength [N/mm <sup>2</sup> ]	3800
<b>Fibre weight [g/m<sup>2</sup>] (main direction)</b>	<b>640</b>
Weight per unit area of sheet [g/m <sup>2</sup> ]	670
Density [g/cm <sup>3</sup> ]	1.7
Elongation at rupture [%]	1.55
Design thickness (fibre weight/density) [mm]	0.376
Theoretical design cross-section 1000 mm width [mm <sup>2</sup> ]	376
Reduction factor for design (manual lamination/ UD sheet)	1.2 (recommended by S&P)
Tensile force of 1000 mm width ultimate [kN]	$\frac{376 \times 3800}{1.2} = \underline{1'190.70}$
<b>Tensile force of 1000 mm width at 0.6% <math>\epsilon</math> for design [kN]</b>	<b>461</b>
Delivery: (Special sheets upon request)	Width: 300 mm Length roll: 100 m
Application:	<ul style="list-style-type: none"> <li>• Flexural enhancement (low quality of substrate)</li> <li>• Axial load enhancement of columns</li> <li>• Replacement of stirrups in columns</li> </ul>

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



**Germany:**  
S&P Reinforcement GmbH  
Beyerbachstrasse 5, D-65830 Kriftel  
Tel.: +49 6192 96128-30  
Fax: +49 6192 96128-29  
info@sp-reinforcement.de  
www.sp-reinforcement.de

**Switzerland:**  
S&P Clever Reinforcement Company AG  
Dammstrasse 2, CH-6440 Brunnen  
Tel.: +41 41 825 00 70  
Fax: +41 41 825 00 75  
info@sp-reinforcement.ch  
www.reinforcement.ch

**Austria:**  
S&P Reinforcement GmbH  
Industriestrasse 2-8, A-7000 Eisenstadt  
Tel.: +43 26 82 703 307  
Fax: +43 26 82 635 08  
info@sp-reinforcement.ch  
www.frp.at