

## S&P C-Sheet 640

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

09/03

<b>Technical data (unidirectional)</b>	<b>400 g/m<sup>2</sup></b>
Elastic modulus [kN/mm <sup>2</sup> ]	640
Tensile strength [N/mm <sup>2</sup> ]	2650
<b>Fibre weight [g/m<sup>2</sup>] (main direction)</b>	<b>400</b>
Weight per unit area of sheet [g/m <sup>2</sup> ]	430
Density [g/cm <sup>3</sup> ]	2.1
Elongation at rupture [%]	0.4
Design thickness (fibre weight/density) [mm]	0.190
Theoretical design cross-section 1000 mm width [mm <sup>2</sup> ]	190
Reduction factor for design (manual lamination/ UD sheet)	1.2 (recommended by S&P)
Tensile force of 1000 mm width ultimate [kN]	$\frac{190 \cdot 2650}{1.2} = \underline{\underline{419.6}}$
<b>Tensile force of 1000 mm width at 0.2% ε for design [kN]</b>	<b>203</b>
Delivery: (Special sheets upon request)	With: 300 mm Length roll: 50 m
Application:	<ul style="list-style-type: none"> <li>• External shear strengthening</li> <li>• End anchoring of the S&amp;P laminate CFK</li> </ul>



**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