

S&P G-Sheet E 90/10 A

S&P G-Sheet AR 90/10 A

Sheet of E-or AR-glass fibre for dry lay up

07/07

Technical data of fibre (main direction)	E-glass	AR-glass
Elastic modulus (kN/mm ²)	73	65
Tensile strength (virgin filament) (N/mm ²)	3400	3000
Sheet weight (total 440 g/m ²) (g/m ²)	400 in main direction	400 in main direction
Density (g/cm ³)	2.6	2.68
Elongation at rupture (%)	4.5	4.3
Design thickness (fibre weight/density) (mm)	0.154	0.149
Theoretical design cross-section 1000 mm width (mm ²)	154 (fibre area only/ main direction)	149 (fibre area only/ main direction)
Reduction factor for design (manual lamination / UD sheet)	1.4 (recommended by S&P)	1.4 (recommended by S&P)
Tensile force of 1000 mm width for design (kN)	$\frac{154 \times 3400}{1.4} = \mathbf{374.0}$ main direction	$\frac{149 \times 3000}{1.4} = \mathbf{319.3}$ main direction
Cross direction	10 % of the equal fibre is used in the weft (cross section)	
Delivery: (Special sheets upon request)	Width: 670 mm Length roll: 50 m	
Application:	<ul style="list-style-type: none"> Seismic retrofitting of supporting elements using dry lay up 	

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.