## **INFORMATION SHEET**

GLASSPREE ROUND BARS SPECIFICATIONS								
Property	Limit According to ASTM D7957	Test Method						
Mean glass transition temperature	Midpoint temperature >100°C (212°F)	ASTM E 1356						
Mean measured cross-sectional area	Ref Table 3 – ASTM D7597	ASTM D7205/D7205M, subsection 11.2.5.1.						
Mean tensile modulus of elasticity	>44.8 GPa (6.500.000 psi)	ASTM D7205/D7205M						
Mean ultimate tensile strain	>1.1%	ASTM D7205/D7205M						
Guaranteed transverse shear strength	>131 MPa (19.000 psi)	ASTM D7617/D7617 M						
Guaranteed bond strength	>7.6 MPa (1.100 psi)	ASTM D7913/D7913 M						
Mean moisture absorption to saturation	<1.0% to saturation at 50°C (122°F)	ASTM D570, subsection 7.4						
Guaranteed ultimate tensile force of bent	>60% of the values in Table 3	ASTM D7914/D7914 M						
Portion of bar	[ASTM D7957]							

GLASSPREE® E46 ROUND BARS								
Diameter	Bar	Nominal bar	Guaranteed	Tensile	Ultimate	Ultimate tensile		
mm	designation	area	tensile strenght	modulus of	strain	load		
		mm <sup>2</sup>	f*fu (=ffk) - MPa	elasticiy – Ef		kN		
				GPa				
6	#2	32	900	46	1.9%	>27		
10	#3	71	900	46	1.8%	>59		
12	#4	129	850	46	1.6%	>96		
16	#5	199	800	46	1.6%	>130		
20	#6	284	780	46	1.5%	>182		
22	#7	387	750	46	1.4%	>241		
25	#8	510	750	46	1.3%	>297		
30	#9	645	600	46	1.3%	>365		
32	#10	819	580	46	1.2%	>437		
<sub>fu</sub> = mean tensile strength minus three times standard deviation (ACI 440.1R-2015).								



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Glass fiber round bars obtained through a pultrusion process impregnated with vinylester resin, used for permanent concrete reinforcements. Corrosion resistance GLASSPREE bars give reinforced concrete structures a longer service life than steel reinforcements.





Glasspree® E46 round bar



Terms & Conditions can be found <u>here</u> (web page)





## **INFORMATION SHEET**

GLASSPREE® E46 STIRRUPS AND BENT BARS								
Diameter (mm)	Bar designation	Inside bend diameter mm	Nominal bar area mm²	Tensile strength MPa	Elastic modulus GPa	Ultimate load kN		
12	#4	>76	129	379	46	50		
16	#5	>96	198	362	46	75		
20	#6	>114	295	345	46	100		

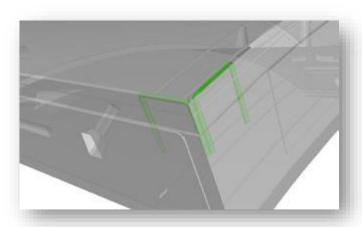


## CUSTOMIZED DESIGN AND DEVELOPMENT

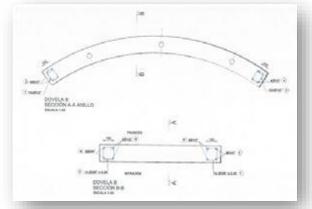
Sireg Geotech designs, develops and tests customized products based on clients' specific requirements.

DURGLASS® and GLASSPREE® products for special applications are developed in close partnership with our clients, with the experience, know-how and quality of Sireg Geotech.

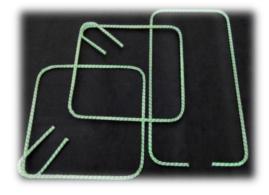
Special application products include GLASSPREE® reinforcements and corner reinforcements for pre-cast concrete segments, micropiles and lattice girders, as well as DURGLASS® TBM launching cradles.



Project for GLASSPREE® reinforcements for concrete cast segments







**Glasspree® E46 stirrups** and bent bars



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