

## Glasspree® E46 round bars and stirrups



**GLASSPREE E46 round bars and shear links are suitable for permanent concrete reinforcing cages. Thanks to its corrosion resistance GLASSPREE gives reinforced concrete structures a longer service life than steel reinforcements.**

### DURGLASS AND GLASSPREE SPECIFICATIONS\*

Density	ASTM D792	1.95 g/cm <sup>3</sup>
Ultimate tensile strength	ASTM D7205	760 - 1000 MPa
Tensile modulus of elasticity	ASTM D7205	46 GPa
Shear strength	ASTM D7617	100 - 200 MPa
Fiber content	ASTM D2584	>65%

\* Based on ASTM International's testing method.

### GLASSPREE® E46 ROUND BARS

Diameter (mm)	Bar designation	Guaranteed tensile strength $f^*_{fu} (=f_{fk})$ - MPa	Ultimate tensile load kN
6	#2	900	28
10	#3	900	63
12	#4	850	106
16	#5	800	158
20	#6	780	244
22	#7	750	290
25	#8	750	380
28	-	700	384
30	#9	600	430
32	#10	580	458
38	#12	580	660
40	#13	580	775



$f^*_{fu}$  = mean tensile strength minus three times standard deviation (ACI 440.1R-2015).

### GLASSPREE® E46 STIRRUPS AND BENT BARS

Diameter (mm)	Bar designation	Bend radius (internal) mm	Tensile strength MPa
12	#4	75	379
16	#5	75	362
20	#6	110	345
25	#8	125	330
35x3 mm ring links		-	750

