

CONSTRUCTION TECHNOLOGY

FRP REBAR

PROPERTIES

- Does not react to salt, chemical products or the alkalinity of the concrete.
- Does not rust, even in the toughest conditions.
- Cut-able by standard earth removal equipment and Tunnel Boring Machines (TBMs).
- Regbar FRP reinforced structures exposed to de-icing salt, sea water or chemical products have significantly longer life-expectancy
- 4 times lighter compared to steel while offering up to 3 times the tensile strength of steel bar



- No metal is contained in it; thus, it will not interfere with strong magnetic fields or sensitive electronic instruments.
- Standardized product range with short delivery times, standard items are available from stock
- Available in sizes 10 mm 26 mm



Regbar FRP Rebar is a concrete reinforcement that has higher strength than steel, is lighter, tested and approved, non-corrosive, usable in different areas. Regbar designs and manufactures innovative structural solutions based on high-tensile FRP (Fiber Reinforced Polymer) bars and profiles. Those solutions can be either made Glass-Fiber based (GFRP) or Carbon-Fiber based (CFRP). Regbar offers both GFRP and CFRP bars according to your needs.

Regbar FRP reinforcing bars are covered by various Design Guides and Design Codes, including:

CAN/CSA S806 ACI 440.1R FIB Task Group 9.3 – Bulletin 40 CNR DT 203

AASHTO LRFD

HEADQUARTERS

Caferağa Mah. Albay Faik Sözdener Cad. No:7/23 Kadıkoy- Istanbul / TURKEY Phone : +90 216 405 21 55 / PBX info@regbar.com

PLANT

Sanayi Mah. İzmit Sanayi Sitesi 13. Cadde 318 Blok Apt. No:318/132 No:9 İzmit-Kocaeli / TURKEY Mobile: +90 541 932 3751 RUSSIA BRANCH: Lesnaya Plaza 4, 4th, Lesnoy Pereulok No:24/8125047 Moscow / RUSSIA W: +7 (495) 641 37 64









It is ideal in hospitals for MRI machine pads, research facilities, aluminum smelters, industrial facilities, underground electrical enclosures, switchyards, toll roads, monorail tracks, etc.

Also it is widely used in TBM soft-eyes, diaphragm walls, drilled pile walls, formwork anchors, temporary structures, rock anchors, soil nails.







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DIMENSIONS

Product Code		GFRP10	GFRP12	GFRP16	GFRP20	GFRP26	GFRP32
Bar Size	Metric	10	12	16	20	26	32
	US	#3	#4	#5	#6	#8	#10
	Canada	-	10M	15M	20M	25M	25M
Min Tensile Strength	[MPa]	880	1000	940	940	960	960
	[ksi]	128	145	136	136	139	139
Nominal Tensile Modulus	[GPa]	42.5 ± 2.5					
	[ksi]	6159 ± 363					
Tensile Strain	[%]	2.07	2.35	2.21	2.21	2.26	1.68
Nominal Bond Strength	[MPa]	12.5					
	[psi]	1812					
Bond Dependent Coefficient	[-]	0.8					
Longitudinal Coefficient of Thermal Expansion	[E-6/C]	6.1					
	[E-6/F]	3.3					
Moisture Absorption	%	0.38	0.36	0.36	0.44	0.30	0.29
Glass Content	% vol	65					
	% weight	83					
Weight	[g/m]	135	232	380	606	925	2488
	[lb/ft]	0.091	0.156	0.255	0.407	0.622	1.672
Nominal Cross Sectional Area	[mm²]	71.3	126.7	197.9	285.0	506.7	791.7
	[inch ²]	0.1104	0.1963	0.3068	0.4418	0.7854	1.2272

NOTES

• Dimensions shown in chart are typical.

Regbar Construction Construction Technology http://tiny.cc/regbarct



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