

MSTBAR

The Corrosion Solution

Rev:2

Updated on 20.09.2017

MST-BAR® GRADE III GFRP REBAR

MST-BAR®	IMPERIAL	#2	#3	#4	#5	#6	#7	#8
	METRIC	6	10	13	16	20	22	25
Guaranteed Tensile Strength	>1000 Mpa							
	>145 Ksi							
Young's Modulus , E	>60,000 Mpa (60 Gpa)							
	>8702 KSI							
Ultimate Strain , ϵ_{fu}	>1.7%							
Transverse Shear Strength , τ	>220MPa							
	31.9 ksi							
Bond Strength to Concrete	20MPa Minimum							
	2900 Psi Minimum							
Strength of Bend (Straight Portion)	>900 MPa							
Strength of Bend (Bend Portion with Minimum Radius Bend : 4x Diameter of Bar)	>600 MPa							
Young's Modulus , E (Bend Bar)	50 GPa							
Weight (Kg/m)	0.12	0.22	0.35	0.55	0.73	0.99	1.4	
Cross Sectional Area (mm ²)	32	71	132	201	285	387	491	
Glass Transition Temperature, Tg°	125C°							

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MST-BAR® Manufactured by B&B FRP Manufacturing