

MSTIBAR

The Corrosion Solution

MST-BAR® GRADE III GFRP REBAR

MST-BAR®	IMPERIAL	#2 GFRP	#3 GFRP	#4 GFRP	#5 GFRP	#6 GFRP	#7 GFRP	#8 GFRP
	METRIC	6	10	13	16	20	22	25
Tensile Load		33 kN	74 kN	132 kN	202 kN	285 kN	390 kN	499 kN
		7419 lbf	16636 lbf	29675 lbf	45411 lbf	64070 lbf	87675 lbf	112180 lbf
Guaranteed Tensile Strength		1000 MPa						980 MPa
		145 Ksi						142 Ksi
Young's Modulus , E		>70,000 MPa				>68,000 MPa		
		10152 ksi				9827ksi		
Ultimate Strain , ϵ_{fu}		1.56%	1.6%	1.5%	1.5%	1.54%	1.55%	1.40%
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
Glass Transition Temperature, T_g°		125C°						

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MST-BAR® Manufactured by B&B FRP Manufacturing