



V-ROD BENT BARS Grade III (HM)

Revision: Feb 2013

		#3 GFRP	#4 GFRP	#5 GFRP	#6 GFRP	#7 GFRP	#8 GFRP
		bent bar	bent bar	bent bar	bent bar	bent bar	bent bar
Minimum tensile strength (straight portion) <i>(ASTM D7205)</i>	MPa	1022	1019	1001	1028	1005	992
	ksi	148	148	145	149	146	144
Nominal tensile modulus (straight portion) <i>(ASTM D7205)</i>	GPa	50					
	ksi	7246					
Minimum tensile strength (bent portion) <i>(ACI 440.3R B5)</i>	MPa	460	459	450	463	452	446
	ksi	67	66	65	67	66	65

Glass content <i>(ASTM D3171)</i>	% weight	77,8	78	77,5	78,9	78,4	76,1
Weight	g/m	167	292	443	651	887	1136
	lb/ft	0,112	0,196	0,298	0,437	0,596	0,763
Nominal cross-sectional area	(mm ²)	71,26	126,68	197,93	285,02	387,95	506,71
	inch ²	0,1105	0,1963	0,3068	0,4418	0,6013	0,7854
Effective cross-sectional area <i>(CSA S806 Annex A)</i>	(mm ²)	81,60	145,70	240,29	332,96	439,40	582,72
	inch ²	0,1265	0,2258	0,3725	0,5161	0,6811	0,9032

It is the responsibility of the design engineers to contact the bar manufacturer to get the latest updates of this technical data sheet (also available at www.vrod.ca).