V-ROD
Composite Rebar for Concrete Structures

Glass Fiber Reinforced Polymer (GFRP) Rebar - Product Data Sheet - VRODXXVVD-60

		#3 (10M)	#4 (12M)	#5 (15M)	#6 (20M)	#8 (25M)
Nominal Cross-Sectional Area *(CSA S807 Table 1)*	mm	71	129	199	284	510
	in	0.11	0.199	0.308	0.44	0.79
Resin		vinylester	vinylester	vinylester	vinylester	vinylester
Nominal guaranteed tensile strength*	MPa	1315.4	1281.5	1262.9	1273.4	1262.8
(ASTM D7205)	ksi	190.8	185.9	183.2	184.7	183.2
Nominal tensile modulus	GPa	62.5	61.32	61.46	60.69	61.41
(ASTM D7205)	ksi	9064.9	8893.7	8914.0	8802.3	8906.8
Transverse shear capacity	MPa	266.6	240.1	228.3	218.6	209.4
(ACI 440.3R B3)	ksi	38.7	34.8	33.1	31.7	30.4
Weight	g/m	175	310	442	633	1127
	lb/ft	0.118	0.208	0.297	0.425	0.757
Effective cross-sectional area *(including sand coating)***	mm^2	83.8	145	232.9	326.8	572.3
(CSA S806 Annex A)	in^2	0.130	0.225	0.361	0.507	0.887
Effective cross-sectional diameter	mm	10.33	13.59	17.22	20.39	26.99
	in	0.407	0.535	0.678	0.803	1.063

* The nominal guaranteed tensile strength must not be used to calculate the strength of the bent portion of a bent bar. Instead use the minimum guaranteed tensile strength found in the technical data sheet of bent V-ROD bars.

** Please contact manufacturer for dowelling applications

Development and splice length are available upon request but should be determined by the design engineer.

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)

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