

V•ROD 60

GLASS FIBER REINFORCED POLYMER (GFRP) REBAR

REVISION: January 2023

Product Data Sheet - V•ROD 60

		#2 (6M)	#3 (10M)	#4 (12M)	#5 (15M)	#6 (20M)	#7 (22M)	#8 (25M)	#9 (30M)	#10 (32M)
Guaranteed tensile strength* (ASTM D7205)	MPa	1100	1100	1100	1100	1100	1100	1100	1000	1000
	ksi	159.5	159.5	159.5	159.5	159.5	159.5	159.5	145	145
Minimum tensile modulus (ASTM D7205)	GPa	60								
	ksi	8702.3								
Guaranteed transverse shear capacity (ASTM D7617)	MPa	180								
	ksi	26.1								
Resin		vinylester								
Weight	g/m	78	175	310	442	633	863	1127	1426	1761
	lb/ft	0.052	0.118	0.208	0.297	0.425	0.58	0.757	0.958	1.183
Effective cross-sectional area** (including sand coating) (CSA S806 Annex A)	mm ²	37.2	83.8	145	232.9	326.8	438.2	572.3	724.3	894.2
	in ²	0.058	0.130	0.225	0.361	0.507	0.679	0.887	1.123	1.386
Effective diameter	mm	6.9	10.33	13.59	17.22	20.39	23.6	26.99	30.4	33.7
	in	0.272	0.407	0.535	0.678	0.803	0.929	1.063	1.197	1.327
Nominal cross-sectional area (CSA S807 Table 1)	mm ²	32	71	129	199	284	387	510	645	819
	in ²	0.05	0.110	0.199	0.308	0.440	0.6	0.790	1	1.269

Available Anchor Heads



		#4 GFRP	#5 GFRP	#6 GFRP
Minimum pull-out strength	kN	80	100	100
	kips	18	22	22

Please refer to the V-ROD 60 data sheet for the properties of the bars.

Product homologated for use in TL-5/PL-3 barriers.

COMPLIES WITH THE FOLLOWING STANDARDS:

- GRADE III CSA S807-10
- GRADE III MTO
- ASTM D7957 D7957-17

* 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 **Pultrall** for dowelling applications.

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

The guaranteed value presented in this document is the mean value minus 3 times the standard deviation.

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). For any additional technical results or literature, please contact **Pultrall**.

PULTRALL

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