

V•ROD 46

GLASS FIBER REINFORCED POLYMER (GFRP) REBAR

REVISION: DEC. 2019

Product Data Sheet – V•ROD 46

		#2 (6M)	#3 (10M)	#4 (12M)	#5 (15M)	#6 (20M)	#7 (22M)	#8 (25M)	#9 (30M)	#10 (32M)
Guaranteed tensile strength* [ASTM D7205]	MPa	1000	1000	1000	1000	1000	950	850	800	800
	ksi	145.0	145.0	145.0	145.0	145.0	137.8	123.3	116	116
Minimum tensile modulus [ASTM D7205]	GPa	46								
	ksi	6800								
Guaranteed transverse shear capacity [ASTM D7617]	MPa	160								
	ksi	23.2								
Resin		vinylester								
Weight	g/m	73.4	150.8	264.5	403.7	567.4	760.5	1012.6	1281.6	1582.2
	lb/ft	0.049	0.101	0.178	0.271	0.381	0.511	0.680	0.861	1.063
Effective cross-sectional area (including sand coating)** [CSA S806 Annex A]	mm ²	36.5	71.12	123.9	195.8	277.1	377.2	477.8	604.7	746.6
	in ²	0.057	0.110	0.192	0.303	0.430	0.585	0.741	0.937	1.157
Effective diameter	mm ²	6.65	9.49	12.56	15.61	18.52	21.71	24.66	27.7	30.8
	in ²	0.262	0.374	0.494	0.615	0.729	0.855	0.971	1.091	1.213
Nominal cross-sectional area [CSA S807 Table 1]	mm ²	32	71	129	199	284	387	510	645	819
	in ²	0.050	0.110	0.199	0.308	0.440	0.599	0.790	1	1.269

COMPLIES WITH THE FOLLOWING STANDARDS:

- **GRADE I CSA** S807-10
- **GRADE I 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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