

# V•ROD 50

## GLASS FIBER REINFORCED POLYMER (GFRP) REBAR

REVISION: MAY 2021

### Product Data Sheet – V•ROD 50

		#2 (6 M)	#3 (10 M)	#4 (12 M)	#5 (15 M)	#6 (20 M)	#7 (22 M)	#8 (25 M)	#9 (30 M)	#10 (32 M)	#12 (38 M)
Guaranteed tensile strength* (ASTM D7205)	MPa	1000	1000	1000	1000	1000	1000	900	800	800	800
	ksi	145	145	145	145	145	145	130.5	116	116	116
Minimum tensile modulus (ASTM D7205)	GPa	50									
	ksi	7252									
Guaranteed transverse shear capacity (ASTM D7617)	MPa	170									
	ksi	24.7									
Resin		vinylester									
Weight	g/m	77	157	278	431	619	867	1122	1420	1862	2425
	lb/ft	0.052	0.105	0.187	0.290	0.416	0.583	0.754	0.954	1.251	1.621
Effective cross-sectional area (including sand coating)** (CSA S806 Annex A)	mm <sup>2</sup>	41	81	139	214	309	397	529	670	825	1230
	in <sup>2</sup>	0.063	0.126	0.215	0.332	0.479	0.615	0.820	1.039	1.279	1.91
Effective diameter	mm	7.2	10.2	13.3	16.5	19.8	22.5	26.0	29.2	32.3	39.6
	in	0.284	0.400	0.523	0.650	0.781	0.885	1.022	1.15	1.271	1.56
Nominal cross-sectional area (CSA S807 Table 1) [Not applicable for #12 (38M)]	mm <sup>2</sup>	32	71	129	199	284	387	510	645	819	1140
	in <sup>2</sup>	0.050	0.110	0.199	0.308	0.440	0.599	0.790	1	1.269	1.76

#### COMPLIES WITH THE FOLLOWING STANDARDS:

- GRADE II CSA S807-10
- GRADE II 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.fiberglassrebar.com](http://www.fiberglassrebar.com)). For any additional technical results or literature, please contact **Pultrall**.

627-C Graves Street , Kernersville, NC 27284  
Phone: 336-993-2461 | [www.fiberglassrebar.com](http://www.fiberglassrebar.com)

**V•ROD**  
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