

# V•ROD 46

## GLASS FIBER REINFORCED POLYMER (GFRP) REBAR

### Product Data Sheet - V•ROD 46

REVISION: APRIL 2017

		#2 (6M)	#3 (10M)	#4 (12M)	#5 (15M)	#6 (20M)	#7 (22M)	#8 (25M)
Guaranteed tensile strength* (ASTM D7205)	MPa	1000	1000	1000	1000	1000	950	850
	ksi	145,0	145,0	145,0	145,0	145,0	137,8	123,3
Minimum tensile modulus (ASTM D7205)	GPa	46						
	ksi	6671,7						
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
	lb/ft	0,049	0,101	0,178	0,271	0,381	0,511	0,680
Effective cross-sectional area (including sand coating)* ** (CSA S806 Annex A)	mm <sup>2</sup>	36,5	71,12	123,9	195,8	277,1	377,2	477,8
	in <sup>2</sup>	0,057	0,110	0,192	0,303	0,430	0,585	0,741
Effective diameter	mm	6,65	9,49	12,56	15,61	18,52	21,71	24,66
	in	0,262	0,374	0,494	0,615	0,729	0,855	0,971
Nominal cross-sectional area (CSA S807 Table 1)	mm <sup>2</sup>	32	71	129	199	284	387	510
	in <sup>2</sup>	0,050	0,110	0,199	0,308	0,440	0,599	0,790

#### COMPLIES WITH THE FOLLOWING STANDARDS

- GRADE I CSA
- GRADE I MTO
- NORME ASTM D30.10

\* 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](http://www.vrod.ca)). For any additional technical results or literature, please contact **Pultrall**.

**PULTRALL**

700, 9<sup>e</sup> Rue Nord, Thetford Mines (Quebec) G6G 6Z5 CANADA  
Telephone: 418 335-3202 | Fax: 418 335-5117 | [www.vrod.ca](http://www.vrod.ca)