

V•ROD 46

COMPLIES WITH ICC-ES

GLASS FIBER REINFORCED POLYMER (GFRP) REBAR

REVISION: February, 2025

Product Data Sheet - V•ROD 46

		6M	10M	12M	15M	20M	22M	25M	30M	32M
Guaranteed tensile strength* (ASTM D7205)	MPa	1 000	1 000	1 000	1 000	1 000	950	850	800	800
Minimum tensile modulus (ASTM D7205)	GPa	46								
Guaranteed transverse shear capacity (ASTM D7617)	MPa	160								
Resin		vinylester								
Weight	g/m	73.4	150.8	264.5	403.7	567.4	760.5	1012.6	1281.6	1582.2
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
Effective diameter	mm	6.65	9.49	12.56	15.61	18.52	21.71	24.66	27.7	30.8
Nominal cross-sectional area (CSA S807 Table 1)	mm ²	32	71	129	199	284	387	510	645	819

COMPLIES WITH THE FOLLOWING STANDARDS:

- CSA S807-19
- GRADE I MTO
- ASTM D7957-22

* 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 us 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).

For any additional technical results or literature, please contact us.



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