



RESIWOOD® SYSTEM

ROTAFLEX CARBON FIBRE ROD

PRODUCT CODE: 3715 - 3mm Ø x 3.0m
3716 - 5mm Ø x 3.0m

DESCRIPTION: ROTAFLEX CARBON FIBRE ROD is composed of carbon fibre coupled with epoxy resin. The fibres are in a uni-directional orientation. ROTAFLEX ROD has a very high flexural strength.

PACKAGING: Supplied in a range of diameters and lengths.

PREPARATION: Drill holes, remove all swarf, inject selected Rotafix adhesive material. See appropriate Data Sheets for instructions. For specific applications, contact our Technical Department.

CHARACTERISTICS: High strength and rigidity, good flexural stress behaviour, excellent static and dynamic load bearing capacity. Excellent corrosion resistance unaffected by wood tannin and both solvent and aqueous based timber preservatives and treatment

PHYSICAL PROPERTIES:

Density	1.6
fibre content by volume	65%
Coefficient of Linear Thermal Expansion	0.6 x 10.6
Density	1.61
Flexural Modulus	158 – 165 Gpa
Flexural Strength	2400 MPa
Tensile Elongation	Average 1.5%
Inter Laminar Shear Strength	60-65MPa

SPECIFIC USES: ROTAFLEX ROD may be used as a shear connector and reinforcement for timber to timber splice joints. It is also used for timber to TG6 TIMBER GROUT connections, the upgrading of timber beams containing shakes, cracks or fissures. The number of rods and the angle of insertion being separately determined for individual applications. ROTAFLEX ROD may be used solely as in the repair of glue laminated structures or in multiple bundles as required in various hole diameters and configurations. In all cases the bonding medium is one of the RESIWOOD range of adhesives or injection grouts. ROTAFLEX ROD may be cut with standard 18 or 24 TPI hacksaw blades.

MATERIAL ESTIMATE (example for 5mmØ rods only)

Preferred Auger Ø in mm	No. of ROTALEX RODS 5mm Ø	TIMBERSET required		Optimum Grout Tube Size		Figures for 200mm long drilling N.B. No allowance for waste. Increase amount required per hole for extra depth. E.g. 16mm Ø x 400mm drilling requires 48cc TIMBERSET with 4 rods.
		Wt.Gm.	Vol.cc	1D mm	OD mm	
10	1	19	12	5 x 8		
12	2 or 3	16	10	8 x 11		
16	4	37	24	12 x 15		
20	7 or 8	47	30	16 x 19		
25	11 or 12	76	49	16 x 19		

ROTALEX ROD does not present any particular hazard. When the Rod is being cut or sawn there is a possibility of fibrous particles becoming airborne. Therefore, wear appropriate mask as generally used in fibreglass work.

The information in this document is based on practical tests, but given without guarantee inasmuch as methods of use by others is beyond our control. Due to continuing development and improvements, it may be necessary to change without notice the material specification. All goods are sold subject to our Standard Conditions of Sale.

**The requirements for a Rotafix product(s) may be specific for an individual project.
Advice given by Rotafix can only be considered as part of the contract if it is provided in writing.**

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