

# RESIWOOD® SYSTEM

## ROTAFLEX ROD GFRP

**PRODUCT CODE:** 3703 5 mm Ø      3706 12mm Ø      All sold in 1.250mm lengths  
 3704 8 mm Ø      3705 10 mm Ø      \*Other lengths can be supplied  
 3707 16 mm Ø      3711 20 mm Ø      on request

**DESCRIPTION:** **ROTAFLEX ROD** is supplied as a polyester, vinyl ester or epoxy matrix containing unidirectional glass.

**PACKAGING** Supplied in a range of diameters and as standard 1.250 lengths.

**PREPARATION:** Surface preparation is of paramount importance. The rod should be mechanically abraded followed by a solvent wipe. For specific information consult 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. **ROTAFLEX ROD** may be cut with standard 18 or 24 TPI hacksaw blades or ideally with a diamond bladed mechanical saw.

**PHYSICAL PROPERTIES:**

Heat Deflection Temp "under load"	200 deg C	Martens
Density.	2.0 gm/dm <sup>3</sup>	
Tensile Strength	1000 MPa	DS EN 61-78
Water Absorption	< 0.1%	
Flexural Strength	1000 MPa	DS EN 63
E-modulus (Tensile)	40000 MPa	

**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, and reinforcement in masonry stitching/tying. 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 of 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.

**MATERIAL ESTIMATE** (example for 5mmØ rods only)

Preferred Auger Ø in mm	No. of ROTAFLEX RODS 5 mmØ	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		

**ROTAFLEX ROD** does not present any particular hazard. When the **ROD** is being cut or sawn there is a possibility of fibrous particles becoming airborne. Use wet cutting methods whenever possible. Always use appropriate protective clothing including safety goggles and suitable particulate face mask.

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.**

**RESIWOOD** is a Registered Trade Marks of Rotafix (Northern) Ltd.

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