RESIWOOD® SYSTEM  
ROTAFLEX ROD GFRP

PRODUCT CODE:  
- 3703 5 mm Ø  
- 3704 8 mm Ø  
- 3707 16 mm Ø  
- 3706 12 mm Ø  
- 3705 10 mm Ø  
- 3711 20 mm Ø  
All sold in 1.250 mm lengths  
*Other lengths can be supplied 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 mm 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  
- Density: 2.0 gm/dm³  
- Tensile Strength 1000 MPa  
- Water Absorption < 0.1%  
- Flexural Strength 1000 MPa  
- 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 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)

<table>
<thead>
<tr>
<th>Preferred Auger Ø in mm</th>
<th>No. of ROTAFLEx RODS 5 mmØ</th>
<th>TIMBERSET required</th>
<th>Optimum Grout Tube Size</th>
<th>Figures for 200mm long drilling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>WT.Gm.</td>
<td>Vol.cc</td>
<td>1D mm</td>
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<tr>
<td>10</td>
<td>1</td>
<td>19</td>
<td>12</td>
<td>5 x 8</td>
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<tr>
<td>12</td>
<td>2 or 3</td>
<td>16</td>
<td>10</td>
<td>8 x 11</td>
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<tr>
<td>16</td>
<td>4</td>
<td>37</td>
<td>24</td>
<td>12 x 15</td>
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<tr>
<td>20</td>
<td>7 or 8</td>
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<td>30</td>
<td>16 x 19</td>
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<td>11 or 12</td>
<td>76</td>
<td>49</td>
<td>16 x 19</td>
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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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