

**PRODUCT NAME
ROTAFLEX GFRP ROD**

3703-3710, 5mm, 8mm, 10mm, 12mm, 16mm and 20mm in diameter x 1.25m length

Product Description

Rotaflex GFRP Rod is a pultruded glass fibre reinforced polymer (GFRP) laminate with a circular cross section, designed for strengthening timber and masonry.

Rotafix has a range of adhesives that can be used for overhead and horizontal applications. The rods can also be used for anchoring where positive attachment to timber is required, as well as for the repair to movement cracks in masonry walls/floors.

Uses

Rotaflex GFRP Rods are used to improve, increase or repair the performance and resistance of structures for:

- Increased load carrying capacity
- Damage to structural elements
- Change of the structural system
- Use as connecting dowels for the Rotafix Timber Resin Splice® system (TRS Unit)

Characteristics/Advantages

Non-corroding, high strength, invisible once installed, lightweight and very easy to install

Colours

Glass fibre reinforced polymer with a polyester, vinyl ester or epoxy matrix, standard colour is white

Packaging
Supplied in 1.25 m lengths as standard. May also be supplied in lengths up to 5m lengths (Special order only.)

Storage conditions

Unlimited, provided there is no exposure to direct sunlight (UV), stored in dry conditions at temperatures not in excess of 50°C

Chemical Base

Rotaflex GFRP Rods are made from unilateral pultruded glass fibres in a polymer matrix of either vinyl-ester or epoxy liquids.

Rod performance Information

Tensile Strength	1000 Mpa
Flexural Modulus	14000 - 40000 Mpa
Compressive Strength	150-300 Mpa
Shear Strength	20-40 Mpa
Heat Distortion Temp	180 °C
Elongation at Break	1-2%
Density	1.5gm/cc

Rod sizes

Rotaflex GFRP Rods are supplied in the 1.25m lengths and the diameters indicated below:

6mmø, 8mmø, 10mmø, 12mmø, 16mmø and 20mmø

Application Instructions

Cutting

Rotaflex GFRP Rods may be cut with a diamond saw blade or hand hack saw

Substrate Quality

The substrate surface (all types) must be clean, dry and free from contaminants such as dust, dirt, oil, grease, pre-existing surface treatments, e.g. coatings.

All pre-drilled holes are to be clean of all wood dust and shavings before the fitting of the chosen Rotafix adhesive and the appropriate diameter rod

Cleaning of Tools

All tools and application equipment should be cleaned immediately after use with proprietary cleaning wipes. Cured material may require mechanical means of removal from tools and/or containers.

Health and Safety

Store in cool, dry conditions, out of reach of children and apart from food, drink and animal feeding stuffs. Avoid the accumulation and generation of dusts. Avoid spills. Do not eat drink or smoke when handling product or packaging. Wash hands and exposed skin before meals, after work or when using the toilet. Wash contaminated clothing before re-use

Precautions for safe handling:

At all times wear suitable gloves and eye/face protection when handling rods and adhesive.

NOTICE TO ROTAFIX ORIGINAL PURCHASE CUSTOMER: PLEASE ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THE MATERIAL SAFETY DATA SHEET (MSDS) PRIOR TO THE PRODUCT'S USE. KEEP THE MSDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE USE. READ THE MSDS IN CONJUNCTION WITH ANY LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER. DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT. THE MSDS RELATES ONLY TO THE PRODUCT SPECIFIED. COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.

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.

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