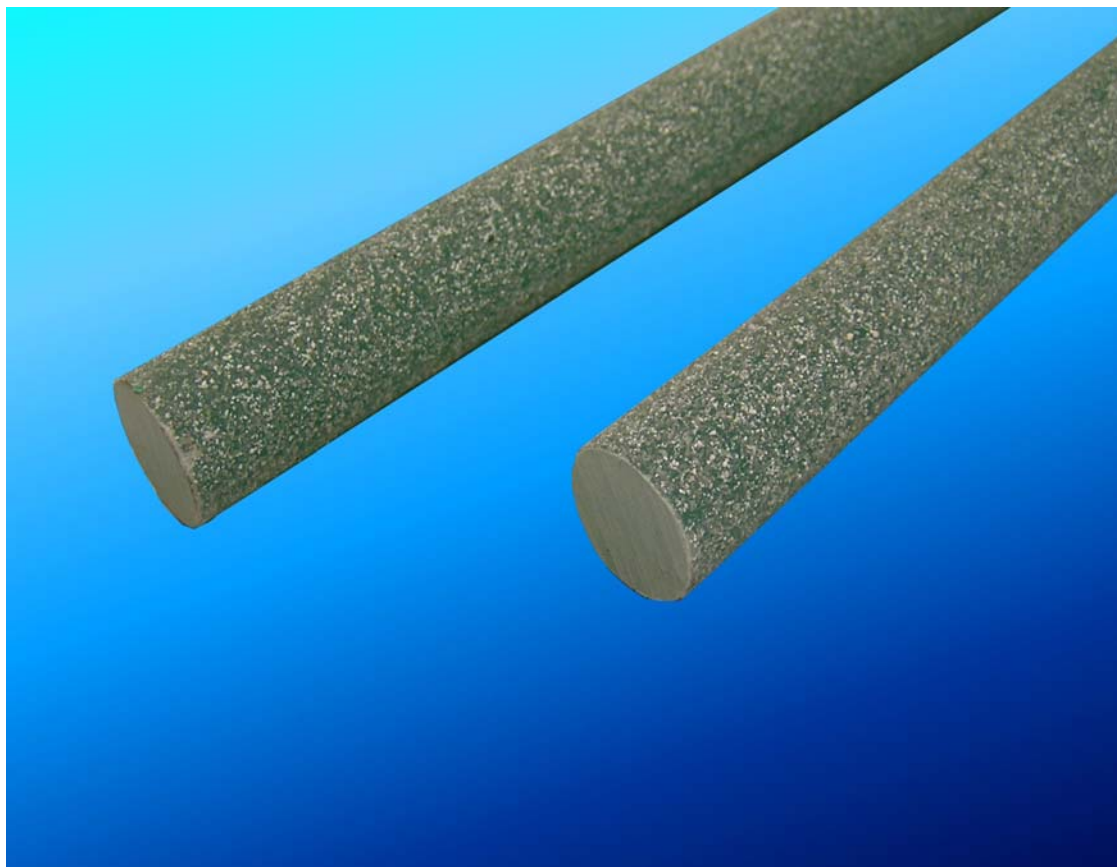


GEOTECHNIC



Technical Data Sheet

Glasspree[®] 12

02 February 2007

Glass Fiber Reinforced Polymer Rod to be used as permanent soil nailing and reinforced concrete. Externally coated with quartz and resin during continuous production process.

Glasspree® 12

02 February 2007

TECHNICAL DATA

DIMENSIONS	DIMENSIONS	DIMENSIONI
<ul style="list-style-type: none"> - External Diameter: 12 mm ± 1 mm - Linear weight: 220 g ± 5 % 	<ul style="list-style-type: none"> - Diamètre: 12 mm ± 1 mm - Poids: 220 g ± 5 % 	<ul style="list-style-type: none"> - Diametro esterno: 12 mm ± 1 mm - Peso Lineare: 220 g ± 5 %
MATERIALS USED	MATERIELS UTILISE	MATERIALI IMPIEGATI
<p>Glass : Direct "E" Roving</p> <ul style="list-style-type: none"> - Density on fibres: 2,55 g/cm³ - Tensile Strength: > 2000 MPa - Breaking elongation: > 4,4 % - Tensile Elastic modulus: > 70 GPa <p>Resin : vynil ester resin</p> <ul style="list-style-type: none"> - Density: 1,15 g/cm³ - Tensile Strength: > 55 MPa - Breaking elongation: > 2 % <p>Sand : Spheroidal natural quartz-Crystal with trigolar structure</p> <ul style="list-style-type: none"> - Density: 2,65 g/cm³ - Composition: SiO₂> 98 % - Grading curve: 0,15/0,3 mm 	<p>Verre : Roving direct verre "E"</p> <ul style="list-style-type: none"> - Densité sur les filaments: 2,55 g/cm³ - Résistance à traction: > 2000 MPa - Allongement de rupture: > 4,4 % - Module d'élasticité à traction: > 70 GPa <p>Résine : Résine vynilester</p> <ul style="list-style-type: none"> - Densité: 1,15 g/cm³ - Résistance à traction: > 55 MPa - Allongement de rupture: > 2 % <p>Sable : Quartz sphéroïdal natural. Cristal à structure trigonal</p> <ul style="list-style-type: none"> - Densité: 2,65 g/cm³ - Composition: SiO₂> 98 % - Granulométrie : 0,15/0,3 mm 	<p>Vetro : Roving Diretto "E"</p> <ul style="list-style-type: none"> - Densità delle fibre: 2,55 g/cm³ - Resistenza a trazione: > 2000 MPa - Allungamento a rottura: > 4,4 % - Modulo elastico a trazione: > 70 GPa <p>Resina : resina vinilestere</p> <ul style="list-style-type: none"> - Densità: 1,15 g/cm³ - Resistenza a trazione: > 55 MPa - Allungamento a rottura: > 2 % <p>Sabbia: Quarzo sferoidale naturale a struttura trigonale</p> <ul style="list-style-type: none"> - Densità: 2,65 g/cm³ - Composizione: SiO₂> 98 % - Granulometria : 0,15/0,3 mm
TECHNICAL CHARACTERISTICS	CARACTERISTIQUES TECHNIQUES	CARATTERISTICHE TECNICHE
<ul style="list-style-type: none"> - Density: 1,9 g/cm³ - Glass content: ≅ 70% - Tensile Strength: ≅ 1000 MPa - Tensile Elastic modulus: ≅ 40 GPa - Ultimate load: ≅ 11 tons 	<ul style="list-style-type: none"> - Densité: 1,9 g/cm³ - Contenu en verre: ≅ 70% - Résistance à traction : ≅ 1000 MPa - Module d'élasticité à traction: ≅ 40 GPa - Charge ultime à traction: ≅ 11 tonnes 	<ul style="list-style-type: none"> - Densità: 1,9 g/cm³ - Contenuto di vetro: ≅ 70% - Resistenza a trazione: ≅ 1000 MPa - Modulo elastico a trazione ≅ 40 GPa - Carico ultimo a trazione: ≅ 11 tons