

# GEOTECHNICS

TDS 121-11



**Technical Data Sheet**

## Glasspree® 8mm

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® 8mm

COD: FL8\*V  
TDS 121-11

This Technical Data Sheet is valid for all SIREG S.p.A. products with code starting as stated at the top of this pages. The remaining part of the code (visible on other documents e.g. Invoice) represents additional information not concerning technical performance of the product.

Issue date : 01/2011  
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## TECHNICAL DATA

DIMENSIONS	DIMENSIONS	DIMENSIONI
<ul style="list-style-type: none"><li>- External Diameter: 8 mm + 1 mm</li><li>- Linear weight: 98 g ± 5%</li></ul>	<ul style="list-style-type: none"><li>- Diamètre: 8 mm + 1 mm</li><li>- Poids: 98 g ± 5%</li></ul>	<ul style="list-style-type: none"><li>- Diametro: 8 mm + 1 mm</li><li>- Peso lineare: 98 g ± 5%</li></ul>
MATERIALS USED	MATERIAUX UTILISES	MATERIALI IMPIEGATI
<p><b>Glass:</b> Direct "E" Roving</p> <ul style="list-style-type: none"><li>- Density of fibres: 2.5 ± 0.1 g/cm<sup>3</sup></li><li>- Tensile Strength: ≥ 2000 MPa</li><li>- Elongation: ≥ 4.0 %</li><li>- Elastic modulus: ≥ 70 Gpa</li></ul> <p><b>Vynil-ester resin</b></p> <ul style="list-style-type: none"><li>- Density: 1.1 ± 0.1 g/cm<sup>3</sup></li><li>- Tensile Strength: ≥ 50 MPa</li><li>- Breaking elongation: ≥ 2.0%</li></ul> <p><b>Sand:</b> Spheroidal natural quartz-Crystal</p> <ul style="list-style-type: none"><li>- Density: 2.65 ± 0.10 g/cm<sup>3</sup></li><li>- Composition: SiO<sub>2</sub> ≥ 99.00%</li><li>- Grading curve: 0.125/0.5 mm</li></ul>	<p><b>Verre:</b> Roving direct verre "E"</p> <ul style="list-style-type: none"><li>- Densité sur les filaments: 2.5 ± 0.1 g/cm<sup>3</sup></li><li>- Résistance à traction: ≥ 2000 MPa</li><li>- Allongement: ≥ 4.0 %</li><li>- Module d'élasticité: ≥ 70 GPa</li></ul> <p><b>Résine vynilester</b></p> <ul style="list-style-type: none"><li>- Densité: 1.1 ± 0.1 g/cm<sup>3</sup></li><li>- Résistance à traction: ≥ 50 MPa</li><li>- Allongement à rupture: ≥ 2.0%</li></ul> <p><b>Sable:</b> Quartz sphéroidal naturel</p> <ul style="list-style-type: none"><li>- Densité: 2.65 ± 0.10 g/cm<sup>3</sup></li><li>- Composition: SiO<sub>2</sub> ≥ 99.00%</li><li>- Granulométrie: 0.125/0.5 mm</li></ul>	<p><b>Vetro:</b> Roving Diretto "E"</p> <ul style="list-style-type: none"><li>- Densità delle fibre: 2.5 ± 0.1 g/cm<sup>3</sup></li><li>- Resistenza a trazione: ≥ 2000 MPa</li><li>- Allungamento: ≥ 4.0 %</li><li>- Modulo elastico: ≥ 70 GPa</li></ul> <p><b>Resina vinilestere</b></p> <ul style="list-style-type: none"><li>- Densità: 1.1 ± 0.1 g/cm<sup>3</sup></li><li>- Resistenza a trazione: ≥ 50 MPa</li><li>- Allungamento a trazione: ≥ 2.0%</li></ul> <p><b>Sabbia:</b> Quarzo sferoidale naturale</p> <ul style="list-style-type: none"><li>- Densità: 2.65 ± 0.10 g/cm<sup>3</sup></li><li>- Composizione: SiO<sub>2</sub> ≥ 99.00%</li><li>- Granulometria: 0.125/0.5 mm</li></ul>
TECHNICAL CHARACTERISTICS	CARACTERISTIQUES TECHNIQUES	CARATTERISTICHE TECNICHE
<ul style="list-style-type: none"><li>- Density: 1.9 ± 0.1 g/cm<sup>3</sup></li><li>- Glass Content: ≥ 70%</li><li>- Tensile Strength: ≥ 1000MPa</li><li>- Tensile Elastic Modulus: ≥ 40 GPa</li><li>- Ultimate load: ≥ 50 kN</li></ul>	<ul style="list-style-type: none"><li>- Densité: 1.9 ± 0.1 g/cm<sup>3</sup></li><li>- Contenu en verre: ≥ 70%</li><li>- Résistance à traction: ≥ 1000MPa</li><li>- Module d'élasticité à traction: ≥ 40 Gpa</li><li>- Charge ultime à traction: ≥ 50 kN</li></ul>	<ul style="list-style-type: none"><li>- Peso specifico: 1.9 ± 0.1 g/cm<sup>3</sup></li><li>- Contenuto di vetro: ≥ 70%</li><li>- Resistenza alla trazione: ≥ 1000MPa</li><li>- Modulo elastico a trazione: ≥ 40 Gpa</li><li>- Carico ultimo a trazione: ≥ 50 kN</li></ul>

As of all other technical indications and information provided by us, the only purpose of this data sheet is to describe the nature of this product, as well as its possible applications and fields of use. However, it does not guarantee certain properties of this product or its suitability for a determined purpose of application; furthermore, the directions for use given in this data sheet are not complete. Since this data sheet is subject to modification, it is the duty of our clients to ensure that they refer to the latest version. The updated data sheets can be obtained at all times from all our locations. In addition, the current general terms of business are applicable.