

Glass fibre reinforced epoxy pipes in geothermal applications


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Keywords: GRE/Epoxy/Glass fibre reinforced plastic



**"Glass fibre reinforced epoxy pipes
in geothermal applications"**

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- 1 For more than 30 years we have been a reliable supplier to the most important companies worldwide.
- 2 FPI is the world's leading provider of comprehensive fiberglass piping solutions.
- 3 We have the world's largest portfolio of fiberglass piping solutions.



RELEVANT FACTS



4

Accreditations



FPI certifies its products and services from major independent international organizations in the areas of safety, quality and environmental protection.



7

Standards



FPI follows the most important international standards to produce products of the highest quality. Customer requirements based on the company's own standards are also met



7



Usual Application & Nomenclature

<p>GRUP Glass Fiber Reinforced Unsaturated Polyester</p> <p>Temp.- limit 60°C</p> <p>Mainly used for water application</p> <p>Good mech. properties</p> <p>Limited corrosion resistance</p>	<p>GRV Glass Fiber Reinforced Vinylester</p> <p>Standard Temp.- limit < 85 °C</p> <p>Mainly used for water and chemical application</p> <p>Good mech. Properties</p> <p>Excellent corrosion resistance against certain mediums</p>	<p>GRE Glass Fiber Reinforced Epoxy</p> <p>Temp.- limit 121°C</p> <p>Mainly used for Oil/Water and chemical and application</p> <p>Excellent mech. properties</p> <p>Excellent corrosion resistance against certain mediums</p>
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Usual Application & Nomenclature

<p>GRE Glass Fiber Reinforced Epoxy</p> <p>Temp.- limit 121°C</p> <p>Mainly used for Oil and corrosive water application</p> <p>Excellent mech. properties</p> <p>Excellent corrosion resistance to aggressive media</p>

Products for geothermal application



WAVISTRONG™

Lamination connection
&
Adhesive bonded connection

DN80 – DN300
Limited for 100 bar with an
operating time of 50 years



41

Products for geothermal application



Red Box

Threaded connection

NPS 2" to 24"
Up to 241 bar (3500psi)
Temperature up to 121°C



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Corrosion resistance

Steel



Wavistrong & Red Box



41

“Glass fibre reinforced epoxy pipes”

What makes the difference compared to other materials?



LIGHTWEIGHT CONSTRUCTION

A very good strength-to-weight ratio offers lower installation costs (lifting equipment) compared to steel.

Fiberglass is lightweight and robust



EFFICIENT

Provides better hydraulic performance than steel, no scaling and significantly reduces operating costs.

Fiberglass is cost effective.



LONGEVITY

Increased lifetime significantly extends the life cycle of the system beyond what other alternative materials can offer.

Fiberglass is cost-efficient



VERSATILITY

Due to its ability to withstand high pressures, temperatures and loads as well as intense chemical attack, fiberglass offers a variety of mounting options and complex designs.

Fiberglass is versatile



SUSTAINABILITY

The smooth inner surface of our tubes requires less energy for liquid transport and therefore lower costs for pumps.

Fiberglass helps you to save costs



RESISTANCE

Offers excellent resistance to corrosive media such as hot deep water.

Fiberglass lasts longer.



37

Thank you.



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