Product description

Fiberglass rebars are on demand available in all sizes. The standard sizes in Europe are diameter 16 or 20. With the lenghts 600mm or 800mm. Other sizes are available on demand.

Fiber Dowels rebars / tie-bars are made of epoxy in comparison with fiberglasss. Rebars (short for reinforcing bar), is a fiber glass bar with fiber glass wires on top of it. Concrete is a material that is very strong in compression, but relatively weak in tension. To compensate for this imbalance in concrete's behavior, rebar is cast into it to carry the tensile loads.

Technical details fiberglass rebars

Shear strenght	1000 MPa
E-Modulus	50 – 55 G{a
Metal free	100 %
Diameter tolerance	0,1 mm +/-
Density	1900 - 2000 kg/m3
fiber volume	70% fiber
Components	70% ECR fiberglass with 30% resin
Corrosion resistant	Yes
Weight kg/m3	1900
Higher tensile strenght	600-1600 N/mm2
Chloride resistant	Yes
Conducts radio waves	No
Thermal conductivity	0,25%
Diagmagnetic	yes
Color	beige

Usage

Fiberglass rebars are placed in longitudinal joints. What's important to remember is that the design of the structure is based on having the fiberglass bars in the right place. Incorrect reinforcing placement can led to serious concrete structural failures.

Storage

Can easily stored outside cause the dowels arent sensitive for corrosion.

Scope

Tie bars are typically placed after PCC placement either by hand or using a tie bar inserter attachment. On slipform pavers, tie bars are inserted on slab edges that will become longitudinal joints and, if two lanes at once are being paved, pushed into a mid-slab area (similar to dowel bar insertion) that will later be cut as a longitudinal joint.

Test results

Rebars are completely tested and researched. Results can be sent on demand.

Benefits

- Less weight than steel
- CO_2 friendly, fiber glass can be re-used directly after breaking up concrete
- Higher tensile strength
- Corrosion isnt possbile so longer life span of the concrete

Safety

This rebars are safe in use when used properly and placed 100% horizontally.

FiberDowels

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