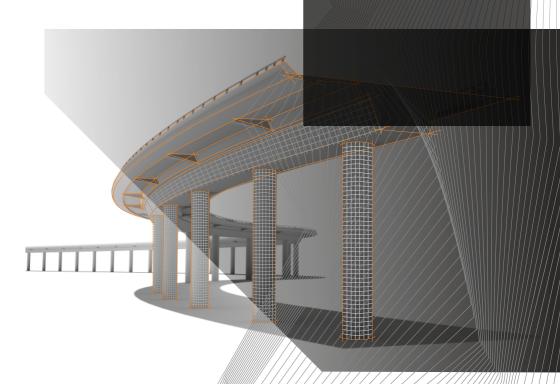
## solidian·kelteks





Bridges for generations
Non-metallic, load-bearing
reinforcements for bridges
without corrosion damages







## **Applications**

Bridge superstructures and bridge caps

Unrivalled for structure refurbishment and strengthening due to light weight and easy handling

For in-situ concrete applications

Prefabricated carbon concrete parts for hybrid and slab bridges

Ideal for new replacement structures

# Product portfolio for bridge constructions

solidian GRID solidian ANTICRACK solidian REBAR solidian REMAT





# Characteristics Why non-metallic reinforcement?



Thinner, filigree components possible



Sophisticated, shaped concrete components



Lightweight and easy to process



Several times higher tensile strength than steel



Conserves resources because less cement, aggregates and water are used



More economical due to lower consumption of materials



Freedom of design for architects and planners



Less concrete, less weight, fewer resources



Corrosion-free, chloride- and media-resistant



Durability and long life cycle



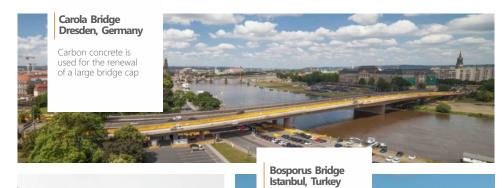
For concrete with non-metallic reinforcement, the usual steel reinforcement is replaced by grid structures made of carbon or glass fibres. These do not corrode, why the concrete cover can be smaller, making the concrete components significantly lighter and thinner. This saves up to 50% of resources (cement, aggregates, water) and up to 30% of CO<sub>2</sub> emissions, sometimes even more depending on the design. This represents huge potential for how we can make better use of our resources and helps us to build in a more climate-neutral way for future generations.







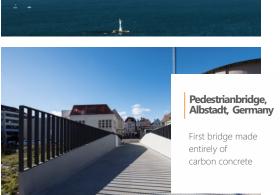




Cladding of bridge pylons at a height

of 320 m







## About solidian&kelteks

Always one step ahead with innovative products we can offer you perfect solutions for your needs



We made a commitment to clients to

solidan&kelteks has made a name for itself as a leading company that provides a wide range of solutions to improve construction structure.

provide them with customer service, technical support and being the leader in providing global innovative fiber material solutions. We use advanced technologies to produce special solutions according to your needs. Our functional grids are used to optimize product and processing properties in a wide variety of applications - including concretes, UHPC, cement-based mortars, adhesives, and dry-mix compounds.



build solid.





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# Other Products



check out our website for more products and innovative solutions



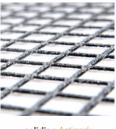
solidian eGRID

Specially developed flexible grids in combination with electro conductive coatings provide high tensile strength and outstanding electro conductive properties. solidian eGRID is now also available with different conductive surface treatments for special applications in which electrical conductivity is important.



solidian Briksv

High-tech, non-Corrosive, AR glass or Carbon fiber reinforcement brick mesh on a roll for efficient crack control specially designed for any



solidian Anticrack

is a further development of our reinforcement solidian GRID, which functions specifically as crackeliminating reinforcement. The carbon reinforcement can be laid close to the surface and thus has a particularly positive influence on crack formation in concrete components.



solidian CONNECTOR

Non-corrosive Carbon, Basalt, or AR-Glass connector with Single or Double Open End suitable for construction reinforcement in masonry, arches and vaults. Perfect for reinforcement of buildings in earthquake-affected areas.



solidian REBAR

The rod-shaped reinforcement solidian REBAR is combining highstrength fibers with extreme resistant resins. solidian REBAR is the right choice where ever high loads occur and components are permanently exposed to aggressive environmental influences



The solidian REMAT transfers all the outstanding properties of our barshaped reinforcements, the solidian REBAR, to the mesh format. The result is robust and walkable mats for more efficient handling on the construction site.