



solidian



solidian REBAR & REMAT

NON-METALLIC, LOADBEARING
REINFORCEMENTS FOR
FUTURE GENERATIONS

build solid.



Rusty buildings should be my future?
No thanks!
build solid.



characteristics

soldian REBAR & soldian REMAT



Thinner, more filigree concrete components



Durable & long service life



Corrosion free, chloride and media resistant



less concrete
less weight
less resources



Extremely high-load capacities



Lightweight and easy to install



solidian REBAR

The bar-shaped reinforcement **solidian REBAR** is combining high-strength carbon or glass fibers with extreme resistant resins and are produced in a pultrusion process.

In this process, the fibers are aligned extremely straight and are impregnated with an epoxy resin. After that they are cured in an oven.

The combination of elongated fibers and large diameters are leading to incredible high load-bearing capacities for the most extreme requirements, which are durable due to the non-corrosive materials.

As such **solidian REBAR** are accessible and walkable on site. They are the ideal non-corrosive substitution for steel reinforcement.

The use of non-metallic reinforcement is particularly useful when the reinforcement can show its advantages. For example, generally for exterior components or structures that have to withstand (dew) salt loads. This is where the corrosion-free properties of glass or carbon reinforcement can be beneficial.



product portfolio

solidian REBAR

	Ø4mm	Ø6mm	Ø8mm	Ø10mm	Ø12mm	Ø14mm	Ø16mm	Ø20mm	Ø25mm	Ø28mm
Carbon	○	○	○	○	○	X	X	X	X	X
Glass	○*	○*	○	○	○	○	○	○	○*	○*

* Optional diameters

Standard length: 6 m

Standard length for order-related productions: 0,5m - 12m

applications

soldian REBAR & soldian REMAT



Structural Engineering



High-voltage & electromagnetic systems



Repair of the Concrete Structures



Concrete slabs



Bridge construction



Tunnel & mining constructions



Maritime applications



Balconies & façades



Parking garages & Underground car parks

solidian REMAT

transfers all the outstanding properties of our bar-shaped reinforcements, the **solidian REBAR**, to the mat format. The result is a robust and walkable mat for more efficient handling on the construction site.

The **solidian REBAR** are attached to each other by durable and solid injection molded crossing points forming the rigid mat.

solidian REMAT is the right choice where ever high-load occurs and components are permanently exposed to aggressive environmental influences such as de-icing salts.

product portfolio solidian REMAT

	Ø4mm	Ø6mm	Ø8mm	Ø10mm	Ø12mm
Carbon	o	o	o	o	o
Glass	x	x	o	o	o

Sustainability & EPD

In concrete with non-metallic reinforcement, the usual steel reinforcement is replaced by grid structures made of carbon or glass fibers. These do not corrode, which is why the concrete cover can be lower, making the concrete components significantly lighter and thinner.

In this way, up to **50% of resources** (cement, sand, water) and up to **30% of CO₂ emissions** can be saved, and in some cases even more, depending on the design. This represents a great potential for how we can better manage our resources and help build more climate neutral for generations to come.



Standard size: 6,0m x 2,3m

Standard grid spacing: 150mm

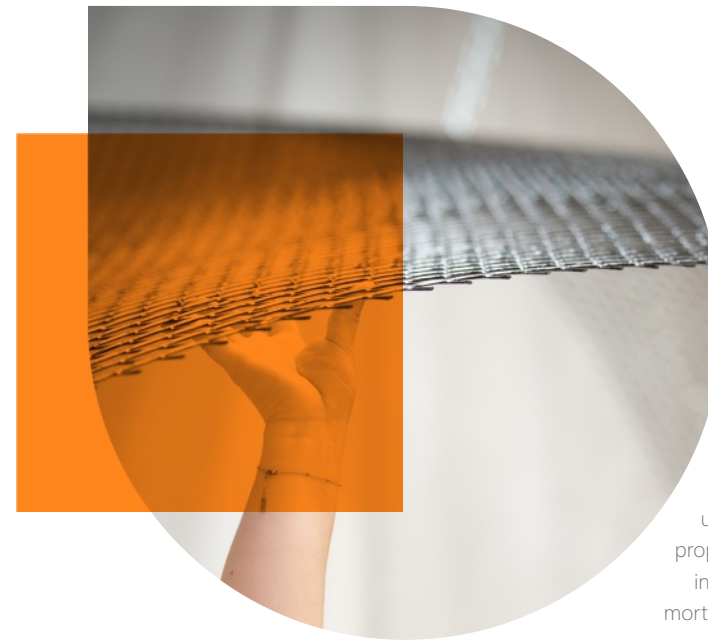
Individual material combination, diameters, grid spacing and mat sizes are possible on request

A certified **EPD** (*Environmental Product Declaration*) is also available for **solidian GRID**, so that sustainability aspects can already be incorporated into the life cycle assessment of the building during the planning stage. It is important here that the complete life cycle is considered and taken as a basis for the calculation.



About solidian

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



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

We made a commitment to clients to 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.

discover our
industry-leading
reinforcements & systems

build solid.

Other Products

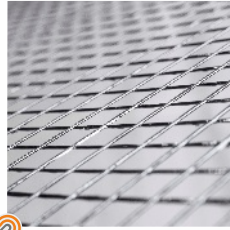


check out our website for more products and innovative solutions



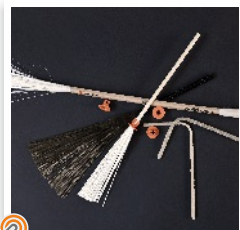
solidian eGRID

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.



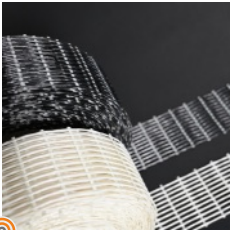
solidian GRID

is textile reinforcements made from various fibers such as carbon, glass, basalt, or hybrid and therefore is ultra-lightweight. Compared to classic steel reinforcement, **solidian** reinforcements have up to 7 times higher tensile strength and do not corrode.



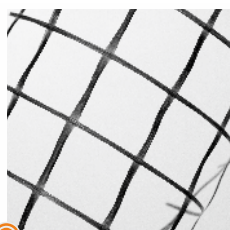
solidian CONNECTOR

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.



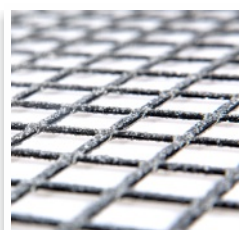
solidian Brisky

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



solidian FLEX GRID

Advanced production technology allows us to fulfill special market demands for both rigid and flexible reinforcements, according to application or customer needs. Hi-tech flexible reinforcements made of Carbon, Basalt or Glass.



solidian Anticrack

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

Contact

+385 47 693 314

sales@solidian.com

Croatia

Dr. Slavka Rozgaja 3
47000 Karlovac
Croatia - EU

Germany

Sigmaringer Straße 150
72458 Albstadt
Deutschland - EU



ISO 9001 - ISO 14001
BUREAU VERITAS
Certification

