

**solidian•kelteks**



solidian-kelteks.com

# **solidian** GRID & FLEX GRID

non-metallic, loadbearing  
reinforcements for  
future generations

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rusty buildings  
should be my  
future?  
no thanks!

build solid.



## & solidian GRID & solidian FLEX GRID

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

Our reinforcements are extremely versatile and can be used in areas where usually only stainless steel reinforcement or structures with increased concrete cover are used. **solidian & kelteks** reinforcements require only the minimum concrete cover and thus contribute to savings in material, transport costs and are reducing CO<sub>2</sub> footprint

**solidian & kelteks** reinforcements are intended for use in **ANTISEISMIC** Systems, FRP Systems, Reinforcements for flooring & ceilings but can also provide valuable services in refurbishment projects. Our reinforcements stands for flexibility and design freedom, because even free shapes are no obstacle. Specially designed coatings, fillers and production technologies ensure superior bonding with matrix.

More powerful  
More economical  
More resource-efficient



## Features **solidian GRID**

- Standardized L-angles made of **solidian GRID**
- Tensile strength up to 4.000 N/mm
- Resource-saving due to relevant savings of cement, water and sand
- Excellent Load-bearing performance
- For high demand concrete installations
- Individual designed shapes & forms are possible on request
- Excellent Tg properties
- Superior mechanical properties
- Standard dimensions: 6,0 m x 2,3 m
- Individual dimensions: max. 8,0 m x 3,0 m possible on request
- Individual shapes: possible on request



Lightweight and easy to install



Up to 7x stronger than steel



Economically and ecologically sustainable



Versatile use in a wide range of applications



More economical due to reduced consumption of materials



Enormous design freedom for architects



Minimum concrete cover due to corrosion-resistant reinforcement



20% less concrete cover  
20% less weight  
20% less resources

## Features **solidian FLEX GRID**

- Flexibility without compromising strength
- Easy installation on site as it comes in roll
- Simple, large-area installation due to common standard dimensions
- Tensile strength up to 6 times higher than steel
- Excellent for restoration application due to flexible and easy installation properties
- High mechanical strength
- Electrically conductive (for monitoring and heating) **solidian eGRID**
- Very high elastic modulus for small deflections in building elements
- Ultra-Lightweight
- Panels optional on request



**solidian FLEX GRID**

## AN INNOVATIVE REINFORCEMENT GETS EVEN BETTER

The new generation of **solidian & kelteks** reinforcements is the result of continuous product development and convinces with numerous advantages that makes constructing with carbon, basalt or AR glass reinforcement even more attractive.

### **solidian GRID & solidian FLEX GRID**

have a wide range of applications:

#### **ANTISEISMIC** systems

- Bridges
- Floors
- Maritime & Hydraulic
- Sewage & Wastewater
- roads
- tunnels
- Walls & Facades
- Design Home and Furniture

Base for different form & shape



**solidian FORM**



**solidian FLEX GRID**

Flexibility without compromising tensile strength

### Rigid or Flexible

Our advanced production technology allows us to fulfill special market demands for both rigid and flexible reinforcements, according to application or customer needs.

### Filler

Our reinforcements are made with specially designed coatings, fillers and technology that allows superior bonding with matrix.

### Various Materials

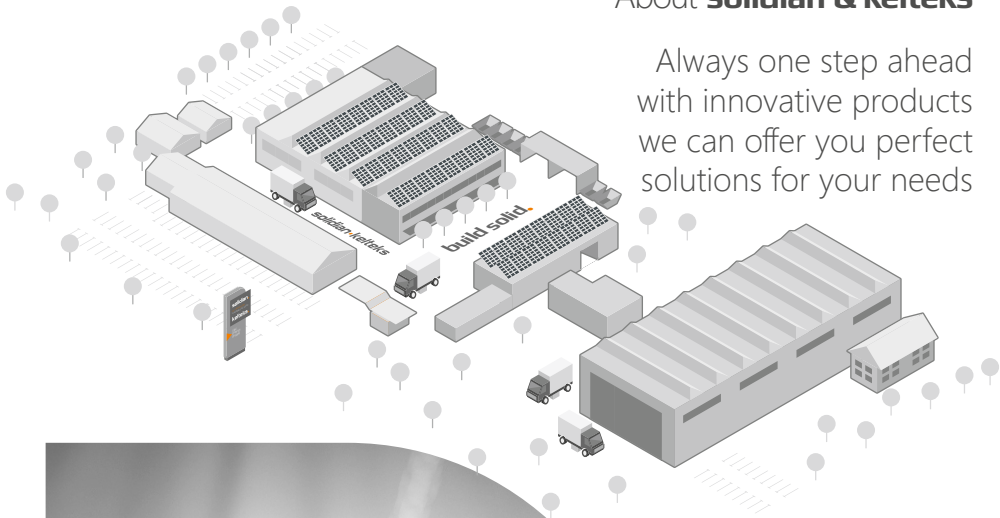
Our long-term knowledge allowed us to produce reinforcements from various materials such as Carbon, AR Glass, Basalt, Natural fibers, etc.

### Form

We developed a special technique & technology for production of many differently shaped reinforcements made from various types of fibers.

## About **solidian & kelteks**

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



solidian & kelteks 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.

**build solid.**



CERTIFIED  
ISO 9001  
ISO 14001



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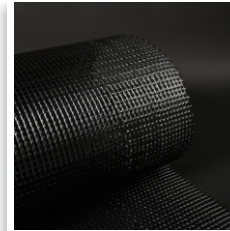
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## Other Products

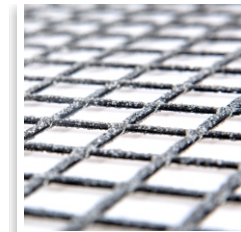


check out our website for more products and innovative solutions



**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 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.



**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 Briksy**

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 REBAR**

The rod-shaped reinforcement solidian **REBAR** is combining high-strength 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.