



solidian

build solid.

CARBON REINFORCEMENT FOR PARKING DECKS

It is quite boring to talk about corrosion of steel reinforcements in parking decks and underground parking.

It is more interesting, that there is a solution to avoid structural damages, high maintenance costs and shortened life-time of parking decks: solidian products are durable, saves resources and enable economic structures.



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📍 Sigmaringer Straße 150
72458 Albstadt
Deutschland - EU

☎ +49 74 3110 3135

✉ info@solidian.com

✉ sales@solidian.com

📍 Dr. Slavka Rozgaja 3
47000 Karlovac
Croatia - EU

☎ +385 47 693 300

✉ sales@solidian.com

✉ info@solidian.com





solidian GRID

solidian GRID

Carbon concrete is the future of building. Our contribution to the future is **solidian GRID**, carbon reinforcement mesh produced by innovative, cutting edge technology. If we compare it with the classic steel reinforcement, **solidian GRID** has many advantages:

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Chloride Resistant
Minimum concrete cover due to corrodible-resistant reinforcement



Minimum maintenance cost & Longer Lifetime
Building operator has minimum maintenance cost by using solidian products as no paint-coatings necessary.



Up to 7x stronger than steel
tensile strength $\geq 4.000 \text{ N/mm}^2$



Less usage of resources
• 20% less concrete
• 20% less weight
• 20% less resources

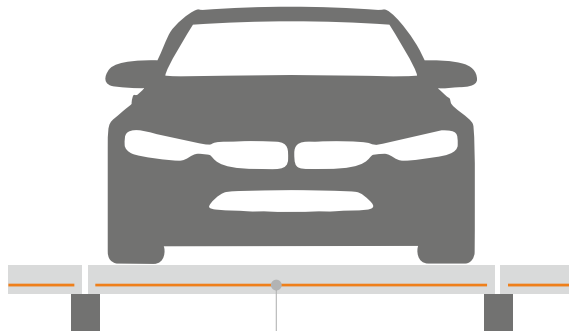


No need of surface protection systems
Which requires a lot of maintenance due to low life-time

Features

- carbon reinforcements in different dimensions
- standard size from 2,30 x 6 m
- maximum mat dimension up to 3.0 x 8.0 m
- more flexibility, depending on cross-section (roll up to 80m)
- improved performance
- tensile strength $\geq 4.000 \text{ N/mm}^2$
- larger eye openings
- carbon reinforcement coating with high-tech materials to reduce cracks
- individual sizes available

Precast Parking deck Application



solidian GRID
Q71/71-CCE-51-E4

solidian REBAR

combine high strength fibers with extreme resistant resins in the production process named pultrusion. Here carbon or glass fibers are oriented extremely straight, impregnated by epoxy resin and hured.

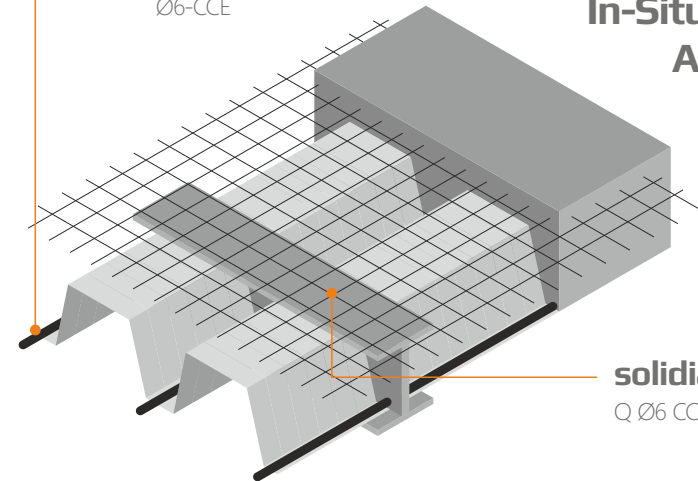
- built for extreme demands
- non-corrosive



solidian REBAR

solidian REBAR carbon
Ø6-CCE

In-Situ Concrete Application



solidian REMAT
Q Ø6 CCE 125

solidian REMAT

solidian REMAT is produced of our non-corrosive and extremely strong **solidian REBAR**. The rebars are attached to each other by durable and solid injection molded crossing points forming the grid mat.

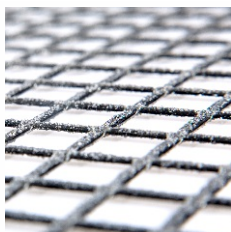
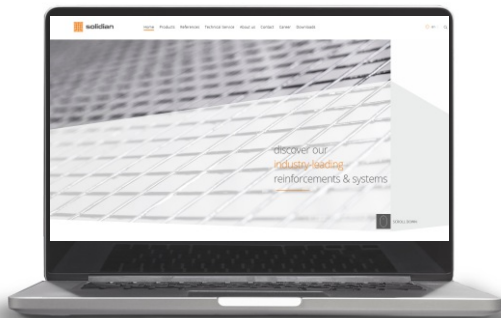
- combine the extreme mechanical properties of **solidian REBAR**
- on **solidian REMAT** you can even walk
- are not corroding



solidian REMAT

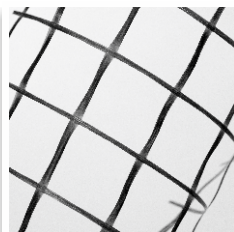
Related Products

check out our website for more related products and innovative reinforcement solutions



solidian ANTICRACK

solidian ANTICRACK is a further development of our carbon reinforcement solidian GRID. It is charged with sand which functions specifically as crack width limiting reinforcement and achieves an even better interlocking with the concrete.



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 SPACER&TIES

is the accessory group for our solidian reinforcements. With our special and patented spacers for our close meshed products such as the solidian GRID, we simplify the application for the architecturally high-quality design of surfaces made of fair-faced concrete.



solidian CONNECTORS

Anchorage, no matter whether they are already embedded in materials or set subsequently, are important devices for e.g. transferring forces or also for connecting elements. At present, new materials and shapes are increasingly replacing classic, metal-oriented solutions. Composites with glass fiber or carbon are modern alternatives here for a wide range of applications.

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