Schöck GmbH

Schöckstraße 1

76534 Baden-Baden, Germany

Tel.: +49 (0) 7223 – 967-0

E-mail: presse-de@schoeck.com

BAU 2023.

Press release.

**In-depth competence**

**Design freedom meets durability: Schöck products for underground car parks**

**The days of dilapidated cramped underground car parks are long gone. Underground car parks are increasingly becoming an integral part of the overall architectural concept. Aesthetics, sustainability and cost-efficiency can be ideally combined through intelligent planning and the use of innovative materials. As a counterpart to traditional solutions and to push forward the boundaries of construction possibilities, Schöck has developed the Combar glass-fibre reinforcement and the Sconnex thermal insulation element.**

Load-bearing components are subjected to exceptional loads in underground car parks. These include temperature differences in the ceiling area and chloride ingress due to road salt in floor slabs. Corroded reinforcement is one of the most frequent causes of damage. Water containing chlorides finds its way to the reinforcing steel in the floor which begins to corrode. For the operator, the damage is an expensive and unpleasant issue, because it is not unusual for the underground car park to have to be closed for maintenance.

**Schöck Combar: 100 percent corrosion resistance for 100 years**

Schöck offers a cost-effective and sustainable solution for the reinforcement of floor slabs in underground car parks with the Schöck Combar glass-fibre composite material. It has high strength, is resistant to chemicals and, according to the general building approval of the DIBt, is even 100 percent corrosion-free for a period of 100 years. In DBV bulletin no. 46, Combar is listed as a variant "RUST-FREE: rustproof chloride-resistant reinforcement with general building approval” and can be planned with all design principles (EGS a, b, and c).

Even with minimum concrete cover, no maintenance is necessary for corrosion reasons. This reduces life cycle costs, extends the life of the structure and makes an important contribution to sustainable building.

**Schöck Sconnex: New design freedom in underground car parks**

Sconnex eliminates thermal bridges in reinforced concrete walls and columns by insulating the structural component directly. As a result, conventional flank insulation is not necessary. The result is a high degree of design and planning freedom – even for demanding building geometries: thinner walls and columns can be built and space losses are avoided.

Sconnex enables a continuous thermal insulation plane and a significant reduction in thermal bridges. This product solution contributes to a sustainable building concept, increases energy efficiency and protects the structure from damage.

2,437 characters (incl. spaces)

[www.schoeck.com](http://www.schoeck.com)

**Images**

**[Schoeck\_PM\_Produktloesungen-Tiefgarage\_1]**

Ein Bild, das drinnen, Bett, weiß, Bettwäsche enthält.

Automatisch generierte Beschreibung

*Schöck Combar is a durable and cost-effective solution that prevents reinforcement corrosion in floor slabs. Schöck Sconnex ensures efficient thermal insulation in the ceiling area of underground car parks.*

*Photo: Schöck Bauteile GmbH*

**[Schoeck\_PM\_Produktloesungen-Tiefgarage\_2]**



*Schöck Combar of glass-fibre composite material has high strength, is resistant to chemicals and is 100 percent corrosion-free for a period of 100 years.*

*Photo: Schöck Bauteile GmbH*

**[Schoeck\_PM\_Produktloesungen-Tiefgarage\_3]**

Ein Bild, das Wand, drinnen, Boden, Raum enthält.

Automatisch generierte Beschreibung

*Efficient thermal insulation of reinforced concrete walls and columns: The Schöck Sconnex product family takes design freedom in underground car parks to a new level.*

*Photo: Schöck Bauteile GmbH*

**[Schoeck\_PM\_Produktloesungen-Tiefgarage\_4]**



*100% corrosion resistance was recently required for the reinforcement of an emergency walkway in the motorway tunnel near Tutting, Combar was the obvious choice. Combar was chosen to prevent reinforcement corrosion caused by chloride ingress and to extend the life cycle of the structural component.*

*Photo: Schöck Bauteile GmbH*

**About Schöck:**

Schöck Bauteile GmbH is a company of the international Schöck Group that has more than 1,100 employees and is active in over 40 markets. It has its headquarters in Baden-Baden at the feet of the Black Forest where the company's success story began in 1962. Company founder Eberhard Schöck used his knowledge and experience of building sites to develop products that simplify the construction process and solve the physical problems of construction work. This mission has remained the foundation of the company’s philosophy to this day, a philosophy that has allowed Schöck to become the leading provider of reliable and innovative solutions to reduce thermal bridges and impact sound, for thermally insulating façade connections and reinforcement technology. Schöck products facilitate a more rational approach to construction and safeguard the construction quality over the long term. The focus is on the building-physical benefits and energy efficiency. Schöck is driving the digitalisation of the work flow from planning to the building site to support the construction work of tomorrow.

**For any questions, please contact:**

**Ansel & Möllers GmbH**

Christine Schams

König-Karl-Straße 10

70372 Stuttgart

Tel.: +49 (0) 711 – 92545-284

E-mail: [c.schams@anselmoellers.de](mailto:c.schams@anselmoellers.de)