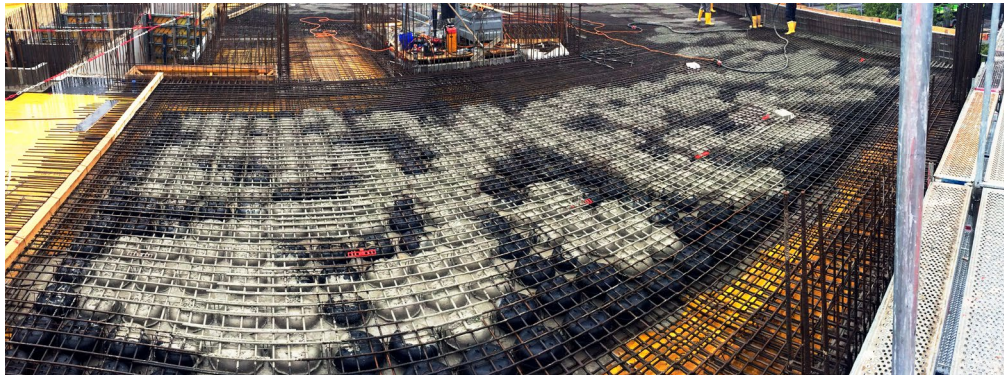

An upcoming Cobiax SL reinforced concrete slab during the first concrete casting process.

Cobiax CLS ready laid and awaiting upper reinforcement.

DEUTSCHER MATERIAL EFFIZIENZ PREIS

UMWELTPREIS SCHWEIZ PRIX SUISSE ENVIRONNEMENT

THIRD-PARTY VERIFIED EPD ISO 14025 and EN 15804 Institut Bauen und Umwelt e.V.

DGNB NAVIGATOR Registrierungs-Code LHWTZN www.dgnb-navigator.de

Deutscher Nachhaltigkeitspreis

Architects' Darling Awards 2016 Bronze Heinze

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Germany

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cobiax.com

cobiax wider scopes

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The essentials in a nutshell.

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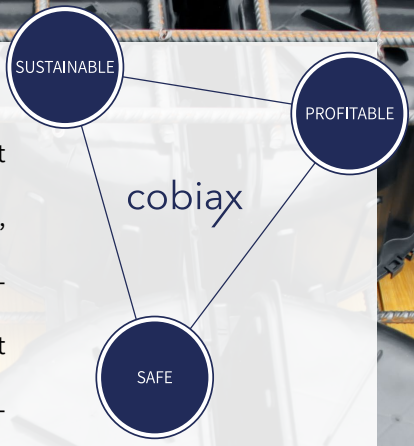
More cavities. More creativity.

For more than 20 years Cobiax stands for the advantage in voided slab technology.

Cobiax was one of the first technologies that was not only theoretically superior to solid construction, but also demonstrated many of its advantages in terms of safety, sustainability and profitability in practice: More than 14 million square meters of voided concrete slabs based on Cobiax technology have already been produced worldwide.

This saved two million tons of concrete; the environment is relieved by 180,000 tonnes of CO_2. Cobiax technology not only saves valuable building materials and energy, but also offers a variety of static advantages: With Cobiax void formers, larger spans can be designed with the same slab thickness or thinner slabs with the same span width compared to solid slab construction. Less load has to be transferred and the weight of the overall complex is significantly reduced.

The Cobiax Trinity.



Safe

Cobiax voided flat slab constructions fulfil the most stringent international standards. By reducing the weight of the slabs, the risk of a possible collapse of the structure, such as in earthquakes, is reduced. The Cobiax quality assurance guidelines set standards for plastic-based building materials; they ensure permanent stability for many generations to come.

Sustainable

The use of plastic and voiding material replaces at least 25 – 30% of the concrete used for conventional building methods. This reduces the CO_2 emissions, even during the production; the amount of building sand required is also reduced. The void formers themselves are made of 100% recycled plastic; the construction remains stable over several decades and centuries.

Profitable

The economic advantages: The required volume of concrete that needs to be transported, drops by about 30%. The bearing components of the construction can be made lighter and more elegant, due to the reduction of the load to be carried; this reduces the costs even further. Thanks to the lighter design of the building itself, the available net space also increases; this in turn, leads to an increase in the possible returns.

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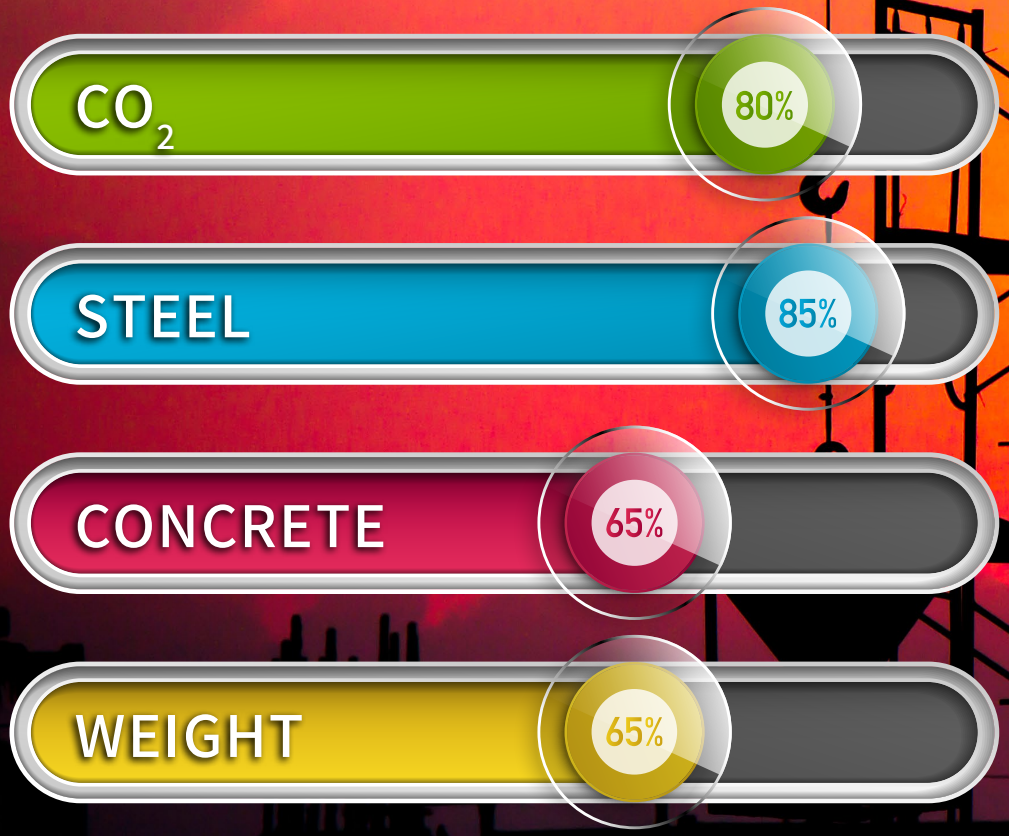
Continue to build like yesterday?

Building with Cobiax is contemporary building.

In literally every benchmark, the Cobiax technology leaves a conventional construction way behind and scores with a holistic concept.



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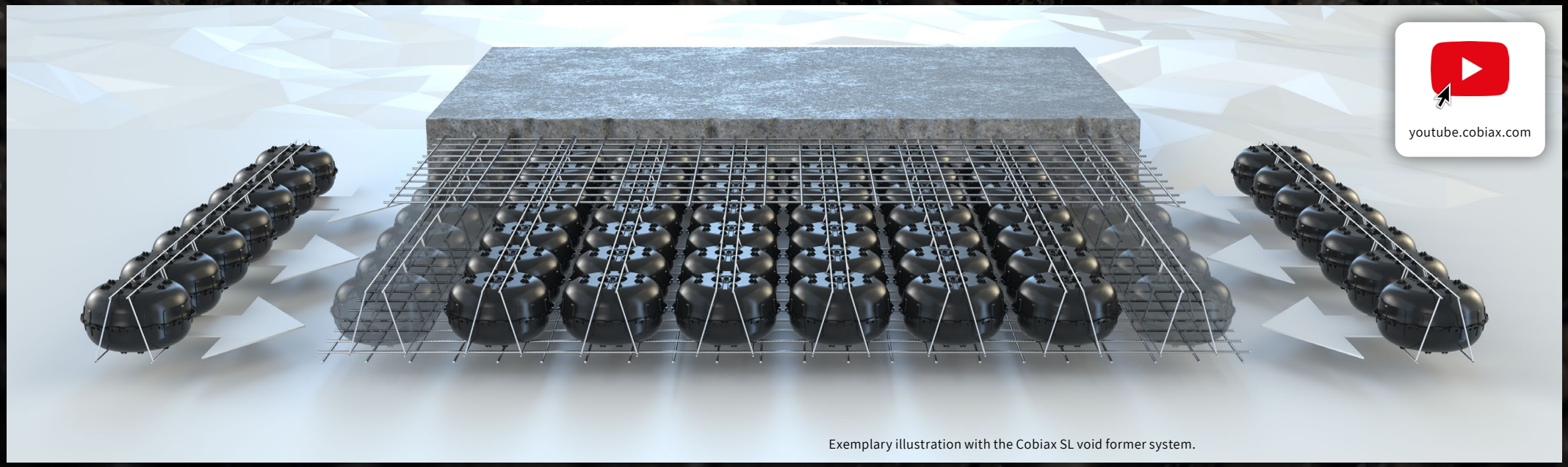
Omit where it is not needed.

Effective principle

At the centre of the Cobiax system is a void former made from plastic, which takes the place of the solid concrete within the reinforced slab. This not only reduces the weight and the amount of concrete used, but also makes it possible to construct buildings using thinner slabs and boasting significantly larger span lengths. The Cobiax system also enables a load transfer in two directions, meaning that the static performance and the external appearance of our Cobiax voided flat slabs remain fully preserved. As less material is used, there is also a cost reduction for the entire support structure of a building. As a result of their reduced weight and improved level of efficiency, Cobiax voided flat slabs also enable the dimensions for the load-bearing elements of a building to be lowered, making them the ideal solution for use in optimizing the initial foundation, in the event of a poor substructure and for the economical renovation and restoration of existing buildings. Furthermore, the environment is protected, as our void formers use less material and are made entirely from recycled plastics.



Exemplary illustration with the Cobiax SL void former system.

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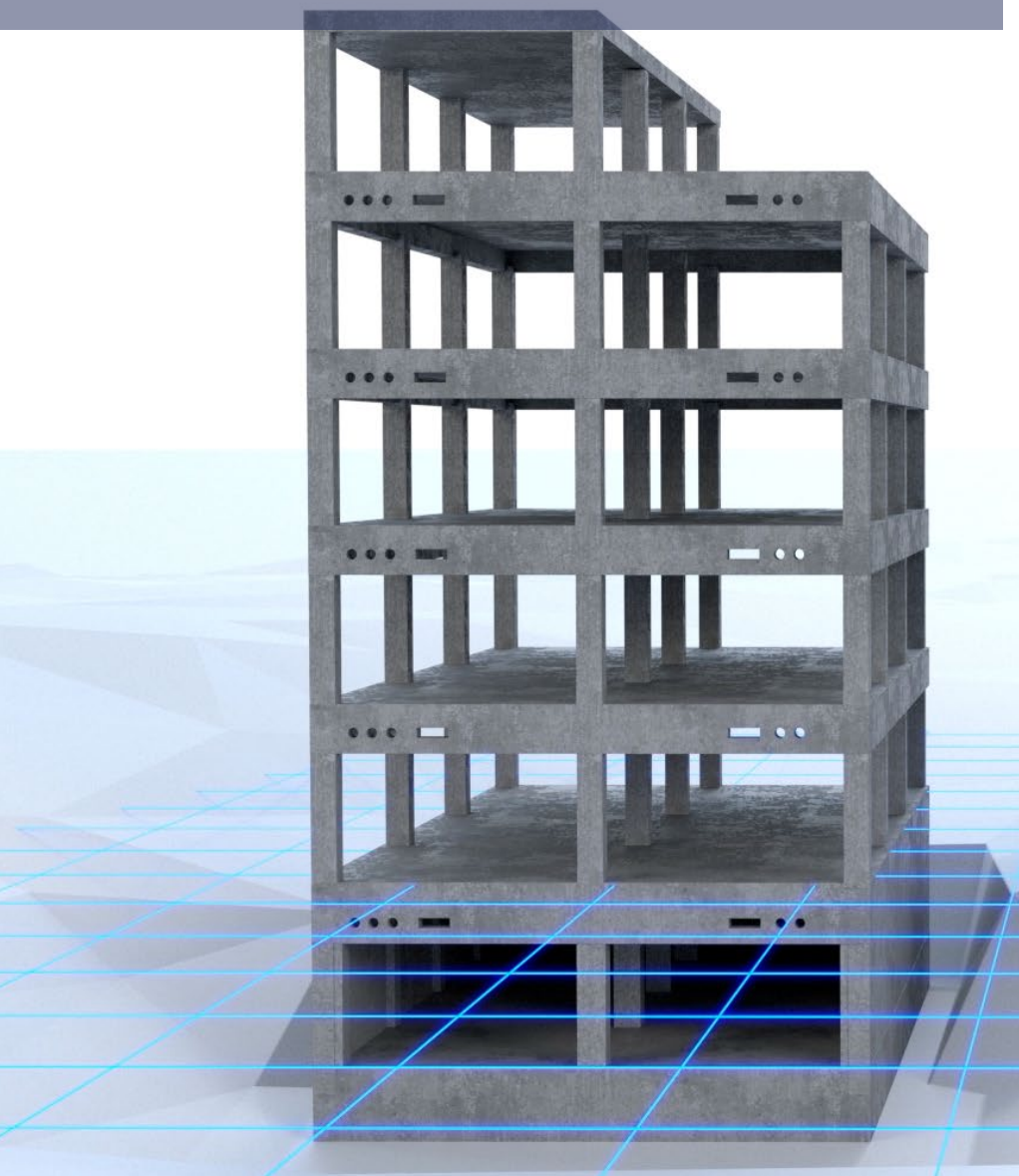
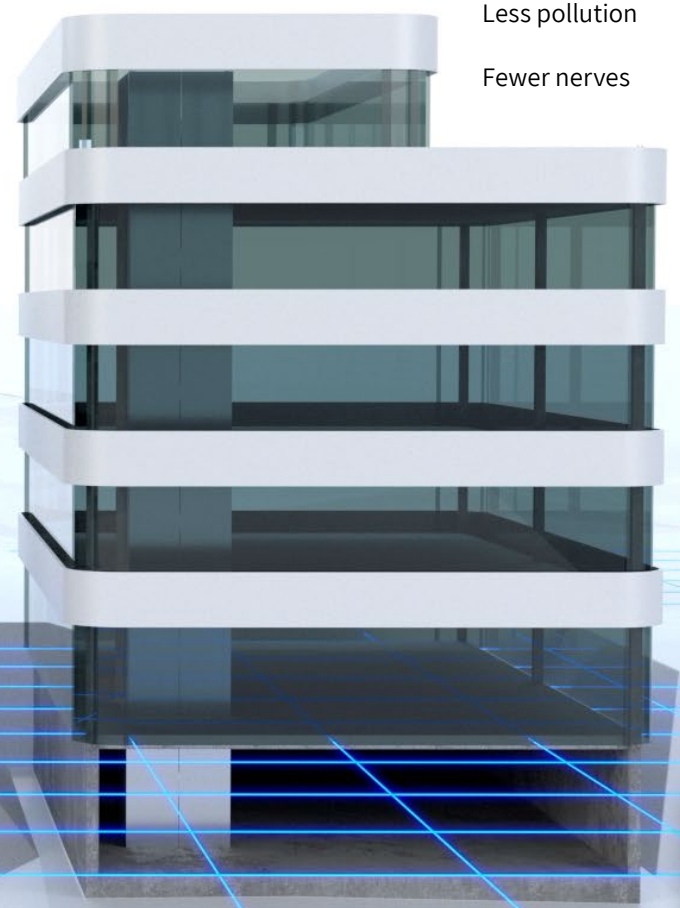
Conventional vs. Cobiax-optimized





A use of Cobiax products. That means in particular:

- Less excavation
- Less concrete
- Fewer columns
- Less weight
- Less construction time
- Less costs
- Less pollution
- Fewer nerves

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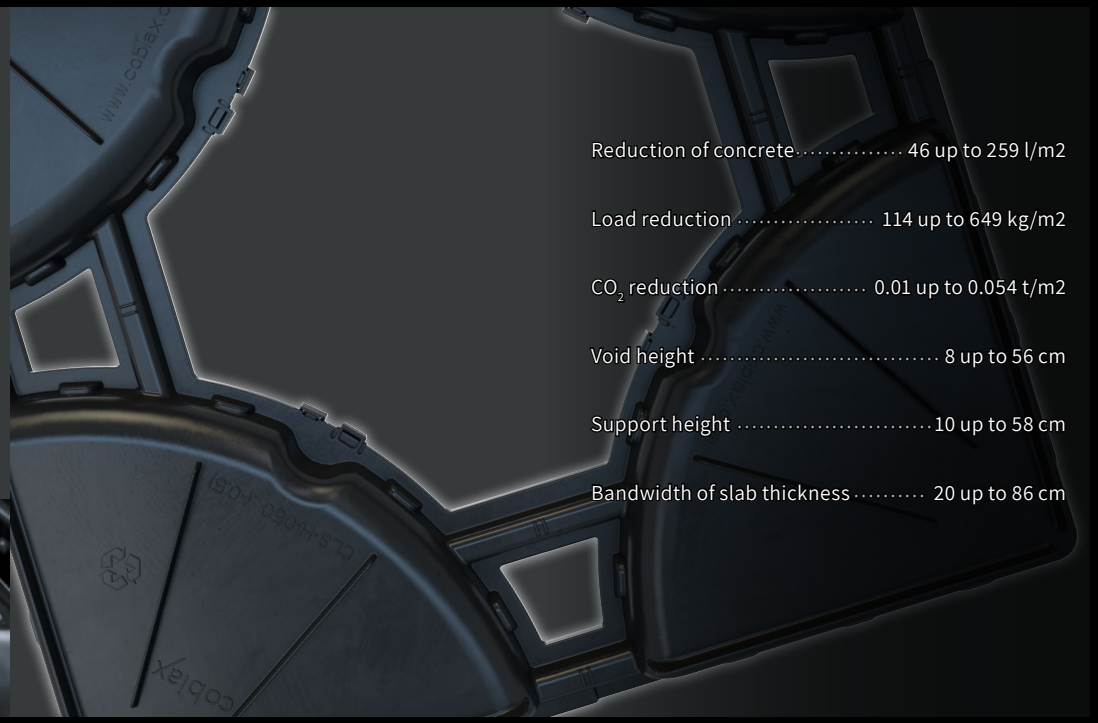
A new Sheriff is in town.

COBIAX CLS

For wider scopes with all kinds of slabs.

- Uncomplicated assembly
- Very easy installation (laying close to each other)
- Robustness
- Safety
- Approved by building authorities
- 7 half-shell sizes are combined to 19 void formers



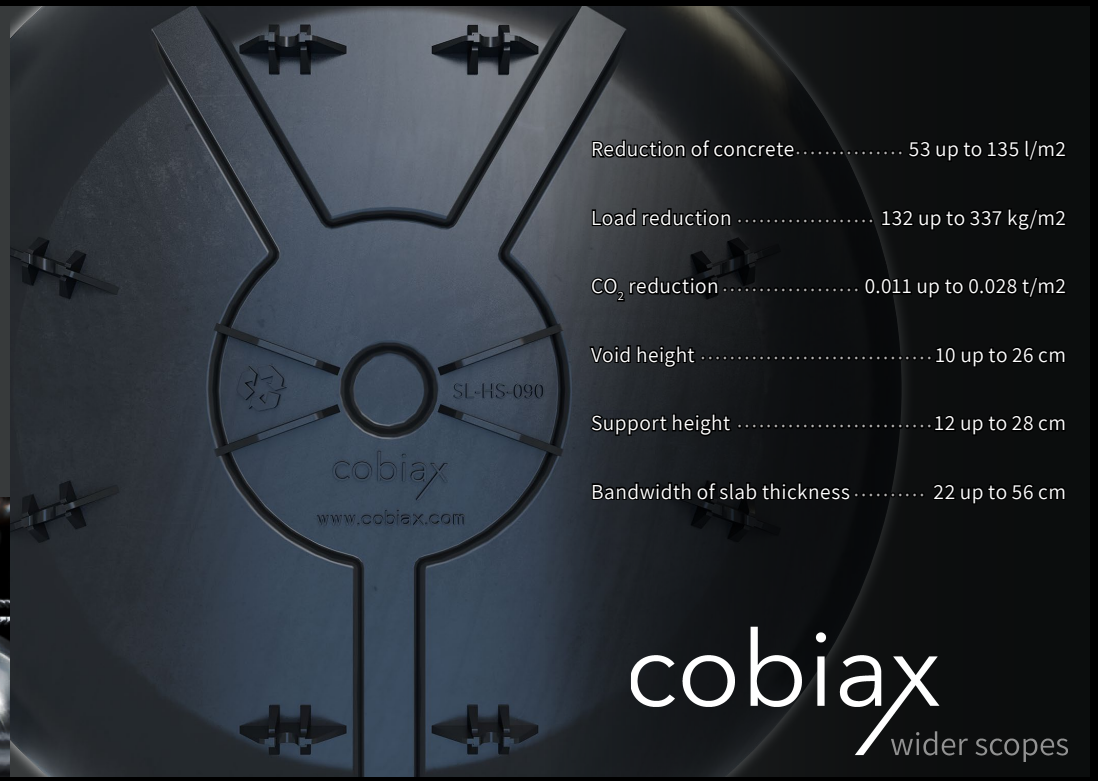
Reduction of concrete	46 up to 259 l/m2
Load reduction	114 up to 649 kg/m2
CO_2 reduction	0.01 up to 0.054 t/m2
Void height	8 up to 56 cm
Support height	10 up to 58 cm
Bandwidth of slab thickness	20 up to 86 cm

The versatile one

COBIAX SL

For wider scopes with thinner slabs.

- Increased support height possible
- Bonding reinforcement is included in the product
- Bonding reinforcement available in 2 variants (.6 and .6E)
- Available as ready-to-install modules or as individual components



Reduction of concrete	53 up to 135 l/m2
Load reduction	132 up to 337 kg/m2
CO_2 reduction	0.011 up to 0.028 t/m2
Void height	10 up to 26 cm
Support height	12 up to 28 cm
Bandwidth of slab thickness	22 up to 56 cm

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wider scopes