



## BAU 2019:

# CLS given enthusiastic reception!

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The response from trade visitors to BAU 2019 was overwhelming: „The new CLS line is phenomenally practical. The benefits of voided-slab technology can be seen in this innovative product, which has been thought through down to the smallest detail, even during installation and transport. It’s becoming the new standard.“ That is the unanimous verdict from insiders, who should know.

We presented our new product Cobiax CLS - *Concrete Lightweight Structures* - to visitors to the Munich trade fair BAU 2019. As part of a keynote address, our Managing Directors Dr. Karsten Pfeffer and Volkmar Wanninger presented the patented structural formers for reinforced concrete slabs and outlined the new features.

The CLS elements differ from our previous models Cobiax EL (Eco-Line) and Cobiax SL (Slim-Line) in having a square footprint, 60 x 60 cm, with a quarter void at each corner. The innovative structural former half parts are available in seven different sizes from 50 mm to 290 mm tall, meaning a total of

19 different combinations of slab thickness can be achieved, from 20 cm to over 80 cm.

The clever design of our latest development has huge benefits for logistics and assembly, as well as for the environment. This has already led to countless enquiries and interesting technical discussions at the trade fair, especially after our Managing Director, Dr. Pfeffer, explained during the presentation: „We want to reduce CO<sub>2</sub> emissions from reinforced concrete construction by a total of 1 million tonnes over the next 5 years, using our CLS structural formers in order to carry forward the rethinking of sustainable



The Cobiax team explained in detailed discussions at BAU 2019, that Cobiax voided-slab technology is not only a problem-solving technique, but also makes modern, sustainable construction possible.

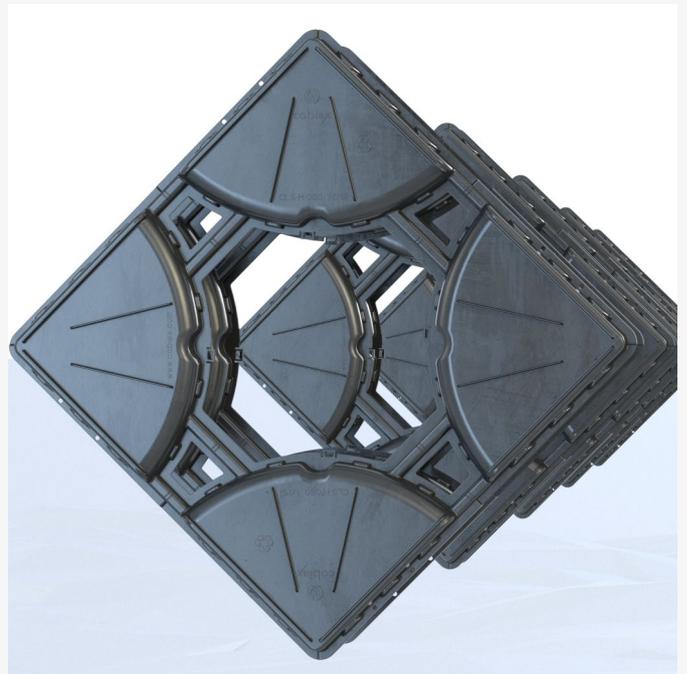
construction through our products“. That provided plenty of opportunity for various discussions. However, as we have already produced more than 14 million m<sup>2</sup> of Cobiax voided flat slabs, corresponding to 2 million tonnes of concrete saved and a CO<sub>2</sub> reduction of 180,000 tonnes, we remain committed to our objective.

„Like all our products, CLS structural formers are made from 100 percent recycled plastic, and make it possible to use up to 35 percent less concrete compared with solid slabs. We can increase the CO<sub>2</sub> reduction resulting from this even further, as the CLS structural former’s square design enables these elements to stack together in order to save space during transport. The structural formers are only put together once at the construction site“, explained his fellow Managing Director, Volkmar Wanninger.

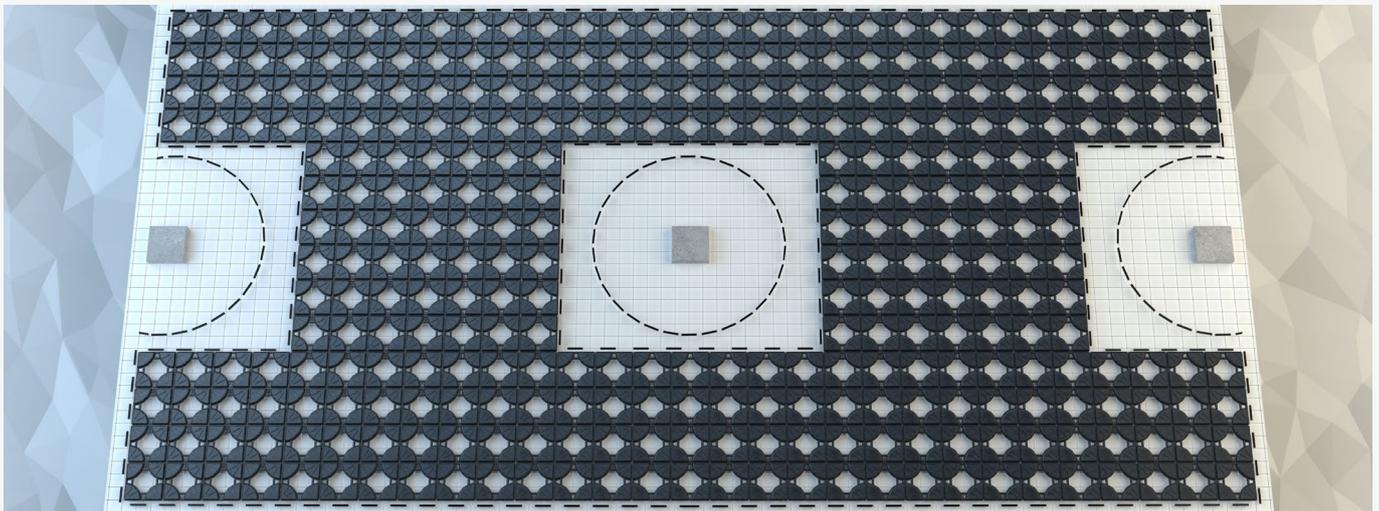
Our eco-friendly and economical technology replaces concrete in slabs with voids wherever the structural design allows. Areas having sufficient concrete for load-bearing capacity are an integral part of the innovative CLS structural formers. These can be laid in a row quickly and easily without gaps, so that no time-consuming lining-up is needed. Depending on slab construction, they can be used for covering 60 to 80 percent of the total slab area.

## Using sustainable building materials reduces CO<sub>2</sub> emissions

With Cobiax, solid concrete slabs are also needed in some areas which have to be determined within the structural design process, to ensure the required load bearing capacity. However, up to 80 percent of the total area can be created with enclosed voids using our products. The amount of concrete needed can therefore be reduced by up to 35 percent - along with some 20 percent saving in reinforcement steel at the same time. As a result, environmentally-harmful CO<sub>2</sub> emissions have been reduced demonstrably, by up to 20 percent. We are contributing in this way to optimising the ecological balance sheet for buildings. The sustainability of our products is evidenced through a type III Environmental Product Declaration (EPD), and additionally the resource and energy-efficient use of materials through positive ratings from sustainability certification such as DGNB, LEED and BREEAM, thereby increasing property value. A Cobiax slab with CLS structural formers can be planned and measured out by any structural engineer following usual standards, as well as expert and test reports. The procedure here is similar to our existing products, Cobiax EL and Cobiax SL. We have already applied for technical



The new CLS structural formers are optimised for simple installation and space- and energy-saving transport. This reduces costs in several ways, and makes the CLS product line the new standard in voided-slab technology. Find product and other videos on the [Cobiax Youtube Channel](#)



The new CLS product line uses square plastic elements having a 60 x 60 cm surface area. The CLS structural formers have a quarter void at each corner. All seven available half parts can be put together in modular form, in this way enabling up to 19 different slab thicknesses from 20 up to more than 80 cm. These can be quickly and easily laid in a row without gaps, no time-consuming lining-up is needed.

approval for the new Cobiax CLS product line, and the required verifications are underway.

It is possible to select the appropriate Cobiax product for the desired slab thickness using an innovative tool on our new homepage. In discussions with structural engineers and architects, who visited our stand, there was a lot of positive feedback and everyone we spoke to was visibly impres-



„Over the next 5 years we want to reduce CO<sub>2</sub> emissions from reinforced steel construction by a total of 1 million tonnes, using our CLS structural formers“, explained Dr. Karsten Pfeffer, Managing Director of Heinze Cobiax Deutschland GmbH.

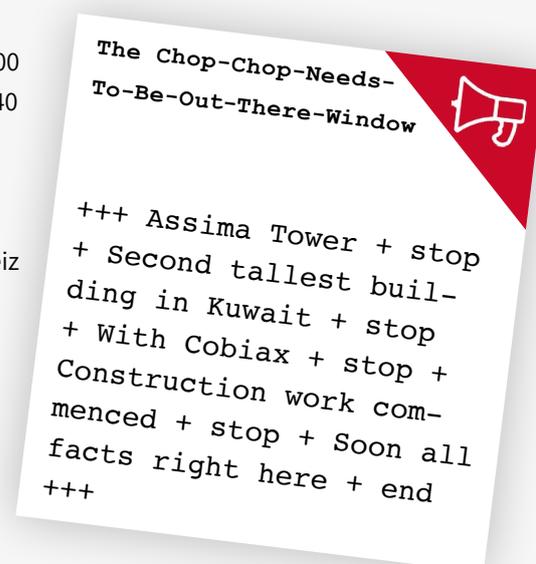
sed by the possibilities and intuitive handling of the new Cobiax design, as well as the online tool. „We received many interesting enquiries about our innovative CLS product from trade fair visitors from all over the world“ said a satisfied Dr. Pfeffer, summing up once the trade fair ended.

We would like to sincerely thank all guests and partners who visited our stand, and who made our Cobiax CLS presentation a great experience. Thank you also for the numerous constructional technical discussions and comments about CLS, as well as the praise that has come our way from many sides.

#### Further informations

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