

This text can be downloaded at [www.sedak.com](http://www.sedak.com) and [www.pr-nord.de](http://www.pr-nord.de)

09/16-07

BAU 2017: sedak presents capabilities for safety and insulating glass / hall C2, stand 100

## Big in Detail

**sedak stands for oversize insulating and safety glass up to 16m in premium quality. Since „big” is not only a question of dimensions, the glass manufacturer from Gersthofen focuses on perfection in detail at the BAU 2017. What that means for glass, sedak shows with four large exhibits in hall C2, stand 100: an insulating glass unit with a unique quality of the edge seal produced in a fully automated way, a high-resolution ceramic-ink digital print with a back-lit image, a part of a glass-fin façade with just a few connection elements, and finally a cold-bent triple laminate. The latter was produced for the shipbuilding sector and has already been installed e.g. as a 10-layer laminate. The triple unit caught a lot of attention at this year’s glasstec. With those exhibits in special size, sedak impressively underlines its pioneering role arising from a ten-year experience in glass technology for oversize and special glass.**

sedak, the leading innovator for oversize formats and customized solutions, has established a high level of know-how in manufacturing large glass. In many cases, that competence can be seen in details. Only if you find path-breaking solutions for the small things, the big things will work. To prove that, sedak exhibits glass at the BAU 2017 according to the motto “Big in Detail” using four exhibits to explain the know-how behind it.

sedak GmbH & Co. KG  
Einsteinring 1  
86368 Gersthofen

Tatjana Vinkovic  
Telefon +49 821 2494 - 823  
Telefax +49 821 2494 - 777

[www.sedak.com](http://www.sedak.com)  
[tatjana.vinkovic@sedak.com](mailto:tatjana.vinkovic@sedak.com)

Weitere Presseinformationen  
finden Sie unter  
[www.pr-nord.de](http://www.pr-nord.de)

pr nord. neue kommunikation.  
Reichsstraße 3  
D-38100 Braunschweig

Telefon +49 531 70101-0  
Telefax +49 531 70101-50

[sedak@pr-nord.de](mailto:sedak@pr-nord.de)  
[www.pr-nord.de](http://www.pr-nord.de)

### **Glass in a key position**

Maximum transparency can be achieved as soon as the façade's supporting structure is out of glass. Exemplarily, sedak shows this modern architecture with two façade elements connected to a glass fin. Both the 6m high fin and the glass panes are fascinating multiple laminates fabricated with an edge quality characteristic for sedak. The toggle system with its minimalistic connection elements, is of technical brilliance. The parts have been laminated between the laminates' layers in a highly precise way so that the elements are almost invisible. This unique technology opens new ways of designing facades. sedak has used that technique e.g. for the Apple Cube in New York, the Skywalk in Dubai as well as for several glass-fin façades of premium stores. The glass manufacturer produces the supporting glass fins with fixing elements like metal shoes. That allows for a simple installation at the site.

### **Large print with high level of detail**

With a 5.5m long and 2.6m high glass pane, sedak shows not only its motto „Big in Detail” but also its printing capability. Since 2014, sedak has operated a ceramic-ink digital printer for 16m long glass with a resolution of 720 dpi. That enables sedak to demonstrate a back-lit, printed glass that impresses with excellent color brilliance and a very high level of detail. By firing the colors in the tempering furnace, they are permanently bonded to the surface and the print is extremely resistant. The glass produced for the BAU 2017 has been printed with a photo

showing how an insulating glass unit is being siliconized on the world's largest insulating glass line in sedak's production hall.

### **Curved with precision**

Cold-bending during lamination enables sedak to produce curved glass of very high quality. During the lamination process in the autoclave, only the foils between the glass layers melt. After the cooling the glass therefore appears in perfect quality without any roller waves or other defects.

Cold-bent multiple laminates redefine the possibilities of glass processing. The fabrication requires an absolute precision and dimensional accuracy. sedak exemplarily presents a 20mm thick triple laminate in the dimensions 1.28m x 3.68m just as it has been installed in a mega yacht. The bending line with a rise of 120mm is diagonal so that the glass pane nestles perfectly against the ship's spherically shaped hull. Besides the high demand for precision, the glass panes have to pass leak tests for the usage under water. But the architectural sector also benefits from cold-bent glass since it allows for diverse designing possibilities.

### **Automated perfection up to 15m**

sedak produces double and triple insulating glass units with a length up to 15m on the fully automated insulating glass line. The industrial manufacture ensures that all details are executed correctly. An exact positioning of the spacer and a

precise siliconizing is guaranteed even with non-rectangular glass. Furthermore, the IGU line has reduced the production time significantly so that large formats are now fabricated more economically. As an example of a highly precise production of oversize glass units, sedak showcases a 2.800mm wide, 4.000mm high, and 600mm thick triple insulating glass unit that also consists a laminate. For the highest quality requirements and a uniform and exact appearance, the coated glass pane has a printed edge.

### **Innovation leadership – forward thinking**

sedak does not only show big formats but also that its big in quality. In particular with special constructions, the glass manufacturer demonstrates its solution-oriented competence – always with automated precision. For its self-conception as a leading innovator, sedak has pushed the production automation further with new technologies and machines during the last two years. And also the logistic has been developed. sedak now has the world's largest inloader that transports glass up to 16m including the glass rack. Due to its refined interior concept, no escort vehicle is required. A crane or a glass vacuum lifter for a time-consuming unloading is not necessary anymore.

*99 lines / approx. 4.700 characters*

### Picture Captions

„Big in Detail“ is sedak’s motto at the BAU 2017. The cold-bent, multiple laminate shows the lamination capabilities of the glass manufacturer.



Photo: sedak GmbH & Co. KG

### For more information please contact:

#### **sedak GmbH & Co. KG**

Tatjana Vinkovic

Phone: +49-821-2494-823

Fax: +49-821-2494-777

Email: [tatjana.vinkovic@sedak.com](mailto:tatjana.vinkovic@sedak.com)

#### **pr nord. neue kommunikation.**

Kerstin Ahlburg

Phone: +49-531-7-01-01-0

Fax: +49-531-7-01-01-50

Email: [k.ahlburg@pr-nord.de](mailto:k.ahlburg@pr-nord.de)

Reprint free of charge, copy requested to:  
pr nord. neue kommunikation. Braunschweig

sedak GmbH & Co. KG

### **Leading glass**

sedak, the glass manufacturer in Gersthofen, Germany, was founded in 2007. With its 150 employees, the world's leading glass fabricator produces insulating and safety glass in dimensions up to 3.2m x 16m: processed, tempered, laminated, printed, coated, and cold bent. The core capabilities are the lamination of glass, edging, and the company's know-how of producing glass components with additional functional and decorative elements. sedak's production has been optimized for extraordinary glass sizes; the level of automation for such glass dimensions is unique. All finishing steps are handled in-house e.g. with the new, fully automated insulating glass line. As a full supplier for large-size glass units, sedak sees itself as a partner for architects, designers, and façade constructors. Outstanding references are for example the Apple Cube and the Lincoln Center Canopies in New York, the Städel Museum in Frankfurt, and the Tottenham Court Road Station in London.

### **Applications**

- glass façades
- glass roofs
- glass stairs
- glass balustrades
- ship building
- safety glazing
- all-glass constructions
- interior design
- custom-made glass units