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01/17-02

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## U-value up to 0.23 W/m<sup>2</sup>K New IGU product line “isomax” by sedak

# Insulation – only out of glass

**At BAU 2017, sedak presents a trade fair highlight: the new IGU product line “sedak isomax” with a U-value up to 0.23 W/m<sup>2</sup>K. The double and triple insulating glass units are available in up to 3.2m x 16m, dimensions typical of the manufacturer. The product line is combinable with all common façade systems. Therefore, glass façades with minimal thermal loss can be realized easily.**

sedak product manager Ralf Scheurer calls the new IGU product line a “quantum leap in insulation technology”. Using a newly developed vacuum insulation panel, the glass units reach insulation values up to 0.23 W/m<sup>2</sup>K. “Compared to conventional IGUs, that results in a considerable improvement,” says Mr. Scheurer at the trade fair. The innovative technology allows for a unit structure that is not thicker than before. Thus, the insulating glass can be combined with any common façade system.

## **Insulates like a wall**

The vacuum insulation panel in the cavity has an extremely low thermal conductivity. The core material is vacuum-sealed into a high gas barrier film. The gas pressure and therefore the functionality of the insulation can be checked anytime by a patented quality control system. Due to the low insulation

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value, a glass façade attains the level of a solid wall<sup>1</sup>. The glass manufacturer produces sedak isomax IGUs up to 3.2m x 15m fully automated and thus, remains a pioneer for oversize glass.

Depending on the requirements imposed on the insulation value, transparent and opaque areas can be combined and positioned freely. The insulation panel is only used for opaque areas. Additionally, there are almost no limits set to the design. The opaque areas are printed with ceramic inks making the print particularly scratch-resistant and permanently UV-durable. With a resolution of 1024 dpi, even photorealistic pictures reach an extremely high brilliance. “Our new IGU product line strengthens our position as glass innovation leader,” says Mr. Scheurer.

*34 lines / approx. 1,600 characters*

## Picture Captions

[17-02-BAU-2017\_isomax\_unit]

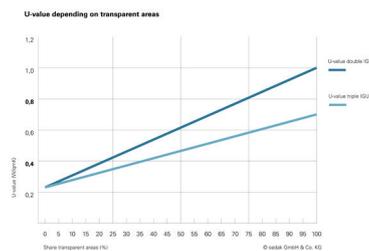
*Minimal insulation value, maximum format: The new product line „sedak isomax“ is available as double or triple units in dimensions up to 3.2m x 16m and with a U-value up to 0.23 W/m<sup>2</sup>K.*



Photo: sedak GmbH & Co. KG

[17-02-BAU-2017\_isomax\_graph]

*The bigger the area insulated with vacuum insulation panels (opaque area), the better the overall insulation value of the sedak isomax IGU.*



Graph: sedak GmbH & Co. KG

1) Example: A 30cm thick solid wall out of bricks with a Lambda-value of 0.08 W/mK and plastered with lightweight plaster reaches a U-value of about 0.25 W/m<sup>2</sup>K.

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### **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