leading glass. **sedak**

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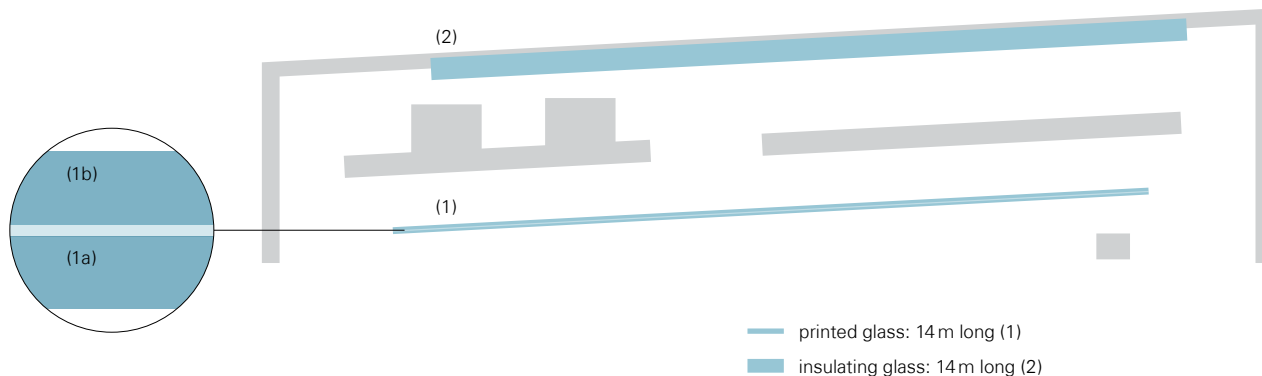www.sedak.com

the fascination of glass
exhibits at BAU 2015

sedak – unmatched glass processing based in gersthofen in southern germany, sees itself as a premium manufacturer of oversize insulating and safety glazing in the very best quality. our maximum formats – up to 3.2 m × 15 m – are not only impressive to look at. the economics are impressive, too. during the BAU 2015 trade fair in munich sedak presents two spectacular exhibits: a pane of laminated glass measuring 3.2 m × 14 m, printed with ceramic inks, and a triple glazing unit measuring 1.1 m × 14 m.

stand of trade fair booth

printed glass: 14 m long (1)

insulating glass: 14 m long (2)

Specification, laminated glass (1)
3,200 mm × 14,000 mm | 2 No. 12 mm Optiwhite™ with SentryGlas®
interlayer | ceramic digital printing

colour options: up to 40,000

**Print motif,
front face of front pane** (1a)
– raster design
– computer-assisted generative
  technique
– ceramic digital printing
  using 3 basic colours
– motif in double vision look

**Print motif,
rear face of front pane** (1b)
– photographic
– project "molded mirror 1",
  Hubertus Hamm, Munich
– ceramic digital printing using
  6 basic colours
– photorealistic printing
– motif in double vision look

Specification, triple glazing unit (2)
1,100 mm × 14,000 mm | 8 mm Optiwhite™ with ipasol neutral 70/39 |
SentryGlas® interlayer, 8 mm Optiwhite™ | 12 mm cavity | 8 mm Optiwhite™ |
12 mm cavity | 8 mm Optiwhite™ with iplus top

light transmission: 66 %
total energy transmittance: 36 %
nominal Ug value: 0,7 W/m²K

printed laminated glass

3.2 m × 14 m a pane of glass, 14 m long, with custom printing in photo quality and a resolution of up to 720 dpi. what sounds like a bold vision is already reality for sedak customers. reproducing parameterised, complex raster designs, seamless repetitive patterns or delicate decoration on glass is no problem for sedak.

Thanks to a thin coating of ink, fluid transitions are possible, or semi-transparent areas such as printed imitations of natural stone for backlighting. Multi-layer printing with the double vision effect enables different designs to be printed on the inner and outer surfaces of the glass. So the glass becomes a blank canvas that can be filled with ideas by the architect.

coated insulating glass

1.1 m × 14 m despite weighing more than 1.2 t, the 1.1 m × 14 m, coated triple glazing unit on the sedak trade fair stand appears weightless. this insulating glass unit consists of four 8 mm thick panes of toughened safety glass, two of which are bonded to form a pane of laminated glass.

At the start of 2015, sedak's production line for large-format insulating glass units goes into operation. This new line enables highly auto-mated, and hence economic, production of large-format insulating glass units with dimensions of up to 3.2 m × 15 m and a maximum thickness of 104 mm. Stepped insulating glass units with max. 700 mm steps are also possible with this new line.

printing glass in unique dimensions

large-format, UV-resistant printing on glass opens up a whole new world of individual façade design.

Made feasible and affordable by sedak. Using the roll printer and the digital flatbed printer, sedak is able to offer customers full-coverage, single-colour printing on panes of glass up to 15 m long using roller-coater and digital printing methods on the basis of ceramic natural stone inks. After applying the ceramic inks, they are fired at temperatures exceeding 600°C in the tempering furnace so that they are permanently bonded to the surface of the glass and thus resistant to UV radiation. The result is brilliant, hardwearing printing.

Ceramic roller-coater printing

max. size	3,210 mm × 15,000 mm / 10 ft 6 in × 49 ft
glass thickness	6 mm – 19 mm / 1/8 – 3/4 in
max. weight	2,822 kg / 6221 lbs

Ceramic digital printing

max. size	3,210 mm × 15,000 mm / 10 ft 6 in × 49 ft
max. thickness	6 mm × 19 mm / 1/8 – 3/4 in
max. weight	2,822 kg / 6221 lbs
type of ink	ceramic, free from heavy metals
ink thickness	6 μm – 80 μm
tolerance for multiple printing	± 0.2 mm
parallelism tolerance for borderless printing	0 – 4,000 mm: max. 1 mm 4,000 – 9,000 mm: max. 2 mm 9,000 – 18,000 mm: max. 3 mm
colours (6 basic colours)	RAL 9005, RAL 9010, RAL 3009, RAL 6001, RAL 5005, RAL 1016
applications	internal / external
image formats	PDF, PS, EPS, AI, TIFF, BMP, JPG
print resolution	max. 720 dpi

Printing options

- translucent printing, opaque printing, multi-layer printing
- blocking layer for better saturation
- colour gradations
- fine lines, concentric circles, dots in different intensities and degrees of coverage
- borderless printing
- printing of serial numbers and barcodes
- suitable for complex, multi-colour raster designs
- inks suitable for side 1 printing
- non-slip ink
- photorealistic printing