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06/20-03 #sedak
#leadingglass
#printedglass
#goldonglass

Regal gloss in digital printing: sedak presents its new technology

Gold from the printer

With its new digital printing technology, sedak can now put precious metals onto glass. The interplay between glass, gold and silver creates glass panes with fascinating optical effects – as insulating and safety glass, even curved. Especially impressive: the printing process allows for extremely fine details and filigree structures. Complex design ideas can be realized with high precision.

Two materials that have fascinated mankind for centuries are gold and glass. The elegant radiance of the precious metal and the high value associated with it combined with the bright transparency of the fragile material glass results in a unique and very unusual effect. Sedak (Gersthofen) has made this splendid symbiosis a reality and now prints glass panes of up to 3.30 x 18 meters with genuine gold and silver – with the highest precision and a resolution of up to 1024 dpi.

The printing takes place on float glass. For the printing process the gold or silver particles are bound in a special solution and applied to the glass extremely finely in a digital procedure. In the tempering process that follows the valuable metal bonds permanently to the glass.

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In order to protect the printed design from environmental influences and mechanical damage such as scratches, the printed side is placed on the inside of the laminate towards the film interlayer and is thus protected by the glass. "After three years of research and development we have now extended the spectrum of our digital printing to include the possibility to design glass panes with the majestic shine of real gold and silver – even in oversized formats", Ulrich Theisen, Sales Manager at sedak, is pleased to report. "There is a fascinating interaction between the transparency of the glass and the brilliance of the precious metals, which captivates the observer." Sedak uses the glass panes printed with genuine precious metals to produce insulating and security glass, including curved glass.

Digital printing: fast, flexible, creative

Digital printing of precious metals offers numerous advantages compared with other procedures. Whereas with coating only full-surface application of the metal layer is possible, with digital printing even the most intricate designs can be printed: fine dots, complex patterns and even color gradients can be achieved. There are hardly any limits to creativity: "The digital gold and silver printing can also be combined with ceramic color printing", explained Theisen. A further advantage of digital printing is the economical application of the material – a cost advantage, especially with precious metals.

Gold and silver are timeless classics and exude luxurious radiance as optical highlights. Extravagant concepts for interiors and façades can be realized with the high-quality materials. Sedak's new printing technique will be used for the first time in a large project in Asia.

51 lines / around 2600 characters

Pictures

[20-03_Edelmetall-Druck_01]

With a digital printing process, sedak prints panes of up to 3.30 x 18 meters with real gold and silver.



Photo: sedak

[20-03_Edelmetall-Druck_02]

Shining results: precious metal printing allows even complex designs and filigree details to be realized - with a resolution of up to 1024 dpi.

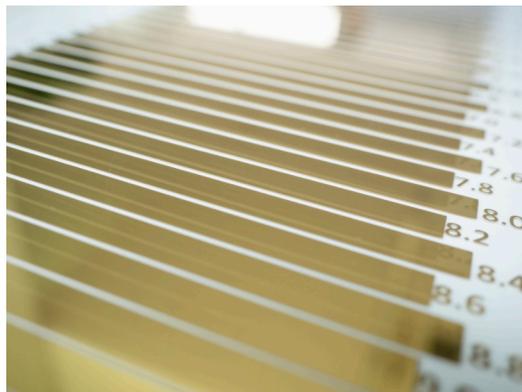


Photo: sedak

Bildunterschriften

[20-03_Edelmetall-Druck_03]

Unlimited creativity: the printed glass can be processed further into insulating and safety glass, and can even be curved.

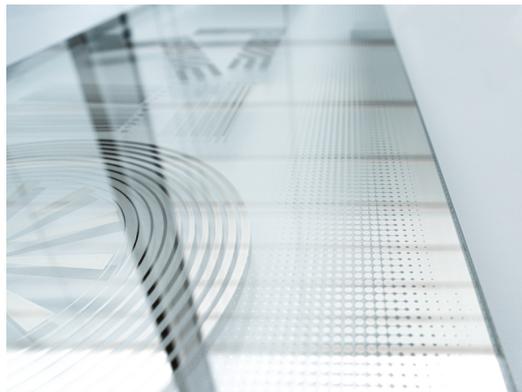
Photo: sedak



[20-03_Edelmetall-Druck_04]

Richly adorned: the precious metal print in gold and silver is processed into a laminate and is thus protected from mechanical influences, keeping its characteristic shine.

Photo: sedak



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Reprint free of charge, copy requested to: pr neu - gedacht, Braunschweig

Leading glass

Since its founding in 2007, Germany-based company sedak has used its pioneering spirit to establish itself as a premium manufacturer of large-format insulated and safety glass. sedak has evolved their glass as a construction material for all-glass facades and roofs. Iconic facades and buildings are created with an unprecedented degree of transparency thanks to superior quality of innovative products. sedak manufactures single-pane glass units, multi-layer glazing and functional insulated glass units in formats up to 3.6 x 20 meters in an efficient, highly automated system. Raw glass is treated, strengthened, laminated, printed, lamination-curved and assembled into insulated glass with a unique set of machinery that spreads over a production area measuring 35,000 qm. Since integrating Italian-based Sunglass Industry srl, who are the specialist in curved glass, sedak's core expertise also now includes hot bending glass. The specialist also supplies exceptional solutions for luxury yachts with optimized glass for use on the high seas. The glass fabricator particularly demonstrates its solution-oriented expertise in special designs. Thanks to its research and development spirit, new technologies and the expertise of its 190 employees, sedak is constantly advancing innovations in glass finishing and sees itself as a partner to architects, developers, facade builders and metalwork companies. As a specialist in oversized and extremely heavy glass, the company develops future-oriented solutions to implement customers visions with a flexible approach. The glass fabricator acts as a full-service supplier – from the initial order to final delivery. Sedak thus helps advance tomorrow's visionary architecture today.

Exceptional reference projects provide proof of impressive expertise. These include: Lakhta Center, St. Petersburg / House of European History, Brussels / Faculty of Medicine, Montpellier / Torre Europa, Madrid / Iconsiam, Bangkok / Apple Park, Cupertino / Apple Cube, New York / Experimenta, Heilbronn / Numerous premium flagship stores.

Areas of use

- Glass facades
- Glass roofs
- Glass stairways
- Glass balustrades
- Yacht glazing
- Pool glazing
- Safety glazing
- All-glass structures
- Interior design
- Special designs