

SEDAK

A NEW LANDMARK EMERGES WITH ARTWORK BY ALEXANDER BELESCHENKO

Inspired by the historic coats of arms of the trade guilds, Alexander Beleschenko created his exceptional works of art on the façade of the new London landmark 22 Bishopsgate
Photo: Simon Kennedy

**22 BISHOPSGATE,
LONDON:
GLASS ART
IN THE CONTEXT
OF ARCHITECTURE:
IMPRESSION
RIGHT INTO THE
DETAIL**

Glass canopies consisting of 149 laminates in total, colourfully designed by the artist Alexander Beleschenko, are one of the most characteristic design features of the new London landmark – 22 Bishopsgate. In order to print his designs accurately onto glass, a precise printing technique was necessary, and at the same time the glass itself needed to fulfil high technical demands. Alexander Beleschenko, who lives in England but has Ukrainian roots, found this technical competence in Germany, where sedak (Gersthofen) produces safety glass that met the requirements, both in terms of accurate printing and quality.

In the heart of London, 22 Bishopsgate soars 278 meters into the sky. But one of the most characteristic design features of the building is directly above the heads of passers-by: the glass canopies, which consist of 149 laminates in total, colourfully designed by the artist Alexander Beleschenko.

A STRONG, COLOURFUL COUNTERPOINT TO THE COOL METROPOLITAN STEEL AND GLASS ARCHITECTURE

When you walk along underneath the protruding glass roofs of the new London landmark 22 Bishopsgate you find yourself immersed in a joyful interaction of colour and light. The canopies are filled with blue, yellow, orange, red and green geometric shapes, sometimes opaque, sometimes translucent. Equally colour-intensive patterns, like huge brushstrokes on the glass surfaces, can be found on the glass façade and colourfully designed glass elements decorate some of the ceilings in the entrances, serving as friendly indications of where to go.

The lively design is strengthened by the many different formats of the glass. They vary in size and form: quadratic, trapezoid, triangular, free-form. No two glass elements are the same, each is unique, a highly imaginative work of art.

The glass was designed by the internationally renowned artist Alexander Beleschenko, who has been using this material to set identity-creating architectural accents for many years. For 22 Bish-

Glass is a really powerful medium in the context of architecturally defined space
Alexander Beleschenko, artist.

opsgate he was inspired by the traditional coats of arms of the trade guilds, which were omnipresent in (old) London. He reinterpreted them in a new, abstract way, thereby connecting modern with historic – a phenomenon that is part of everyday life in the British metropolis.



Extremely high accuracy in printing (resolution up to 1,080 dpi) was the technically decisive criterion for the artist in deciding to commission sedak with the printing
Photo: sedak

ALEXANDER BELESCHENKO ART AND WORKS

Alexander Beleschenko knows how to design and realize large-scale art in architecture. Nevertheless, it is still a special moment for him when he sees his art installed for the first time – at this scale there is no possibility to check the complete work before it is finished. This makes the close cooperation between the artist and the glass processor especially important. With artistic vision, a feel for 'the big picture' and know-how in working with the material glass and the possible processing technologies, unique works can be created. If everything is realized perfectly, "in a certain way you see the art rather than the technique," said Beleschenko – the impressive result can now be seen in London at 22 Bishopsgate.

CERAMIC DIGITAL PRINTING: THE TECHNIQUE FOR ART

The glass was created using digital printing with six ceramic base colours – the designs consisted of opaque and transparent elements, colour gradients and overlays. It was especially the overlays that enabled a wide diversity of colour nuances to be created from the base colours – also using different thicknesses of the layers. The software had to work just as efficiently as the printer, the data volumes were huge: every piece of glass is unique. Because many of the glass elements have an individual shape, it was not possible just to put them all into the automated transport chains of the sedak production system; some had to be handled using suction equipment.



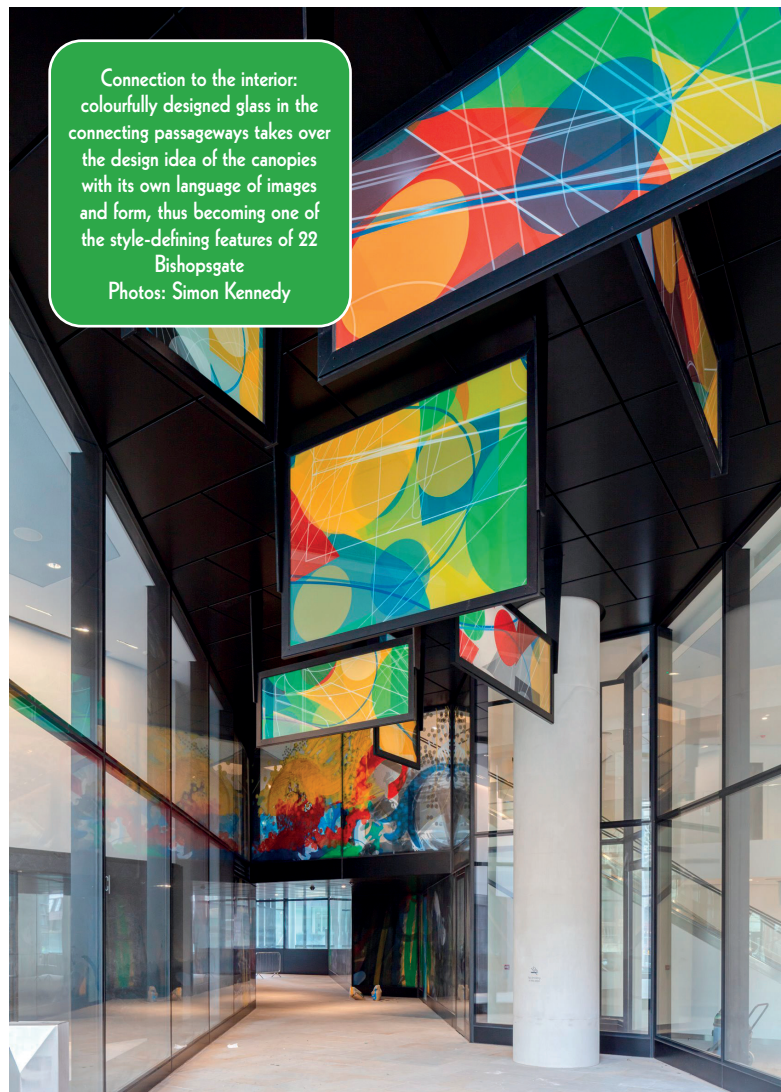
THE SYMBIOSIS OF TRANSPARENCY AND COLOUR

Using glass for roofs already demands high technical standards (e.g. because of the danger of breakage). What makes the glass elements exceptional in this case is the permanently colour-fast and highly precise printing, realized with a ceramic digital process at a resolution of 1,080 dpi. This level of exactness goes way beyond the usual standard – on printed paper such as you may be holding in your hands right now, 300 dpi is the norm. If you are reading this online, you are probably looking at a screen with 140 dpi

resolution (approximately 4K picture quality). Because ceramic colours are especially stable in terms of tone and do not become bleached even under UV radiation, they are ideal for use outdoors. Beleschenko was impressed with the colour stability and especially the extremely high precision: he wanted his space-defining art to have an impact on viewers from a distance as well as up close. This technique enabled him to realize this aim perfectly. The production went really easily for Beleschenko: he sent his (enormous) files directly to the glass processing company sedak. The pane construction:

Connection to the interior:
colourfully designed glass in the
connecting passageways takes over
the design idea of the canopies
with its own language of images
and form, thus becoming one of
the style-defining features of 22

Bishopsgate
Photos: Simon Kennedy



CREDIT BOARDS

Architects: PLP Architecture, London
Owners: 22 Bishopsgate (DEVCO) Ltd, London
Façade construction: Josef Gartner GmbH, Gundelfingen
Glass artwork: Alexander Beleschenko
Glass processor: sedak, Gersthofen (D)



For passers-by it is like walking
through a rain of confetti under the
printed canopies
Photo: Simon Kennedy

“Alexander Beleschenko is very emotional and passionate. He was astounded at how precise a print on glass can be. This was very important for his motifs
Ralf Scheurer, sales, sedak.”



double layer safety glass made from 8 mm low-iron glass (heat-strengthened glass) with digital printing. Artwork in position 2 or 3. As the art extends to the facade, there are also printed insulated glass panes. These are each made from two double laminates (6 mm heat-strengthened glass). They are filled with argon and printed in position 2 or 7. In total, sedak supplied 149 laminates and 370 insulated glass panes.

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SEDAR — 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 sq.m. 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.