

This text can be downloaded at www.sedak.com and www.pr-nord.de

04/17-04

sedak GmbH & Co. KG
Einsteinring 1
86368 Gersthofen

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

www.sedak.com
tatjana.vinkovic@sedak.com

sedak: Large glass for UNO building in Geneva

13m High Glass Under Protection

The renovation of the UNO building „United Nations Conference on Trade and Development“ in Geneva shows how today's production technology makes monumental protection possible also for buildings with glass façades. The 13m high insulating glass units, which in 1971 had been fabricated manually and during an effortful process, had now to be replaced. sedak delivered tempered double IGUs produced fully automatically. The dimensions are still impressive.

It was a spectacular exchange: In 2016, parts of the glass façade of the UNO building „United Nations Conference on Trade and Development“ in Geneva (second headquarters of the United Nations) were replaced. The about 45-year-old glazing had become foggy; some of the glass units had cracked; the bonding of the support structure of the glass façade had aged. Due to monumental protection, the new glass units had to be true to the original, i.e. of the same oversize dimensions. Additionally, the special supporting structure of the building was supposed to be maintained.

The dimensions of the glass units were exceptional for the year 1971. They were manufactured manually out of non-tempered glass and were said to be perhaps the largest units that had been produced by then. Today, sedak provides tempered insulating glass up to 15m manufactured fully automatically.

Weitere Presseinformationen
finden Sie unter
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
www.pr-nord.de

“To be able to install the glass in 1971, the building envelope was realized as a hanging façade. That principle had to be kept in mind,” says Ralf Scheurer, who was the sedak responsible for the project. It took the metal constructors (Metallover SA, Carouge/ Switzerland) about four months to check whether the project is possible at all.

Also the color had to fulfill specific requirements: For the UNO building, it was only allowed to use standard float glass (green glass) which cannot be procured as fast as low-iron glass. “We were able to offset the longer delivery time of the raw material with the quick production at sedak,” says Scheurer. The insulating glass units had been manufactured within just a few weeks.

sedak produced a total of nine double IGUs out of 12mm thick basic glass (dimensions: three units in 2.29m x 7.84m, six units in 2.29m x 13.10m). The single glass panes had been produced as heat-strengthened safety glass to guarantee a higher break resistance.

The metal blocks of the old façade were replaced by glass blocks that were attached to the IGUs with a special adhesive. “Before replacing the metal blocks, the contracted metal engineering company had run special material test series in Lausanne. In the end, glass turned out to be the best material for the bonding. That shows once again how versatile glass is,” explains Scheurer.

Logistics and installation

sedak packed the insulating glass units in specially fabricated boxes which were adjusted to the dimensions of the formats and corresponded to the safety requirements with a supporting structure.

A low-bed trailer transported the glass units to Geneva where they were installed with a truck crane and a glass vacuum lifter. In September 2016, the installation was completed.

Construction Board:

Façade renovation of the UNO building “United Nations Conference on Trade and Development” in Geneva

Client: UNO

Executing façade engineering company: Metallover SA,
Carouge/ Switzerland

Glass delivery: sedak, Gersthofen

Architect: Frédéric Jörg, Switzerland

60 lines / approx. 3.100 characters

Pictures:

[17-04-UNOGeneva-12]

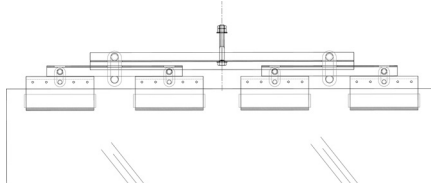
The completed façade of the building “United Nations Conference on Trade and Development”.



Photo: Organisation internationale Genève

[17-04-UNOGeneva-support structure_hanging_façade]

The technical drawing demonstrates how the glass façade was realized as a “hanging façade”: front of glass



unit, the green rectangles show the bonded glass blocks, eight blocks per unit (4 at the front, 4 at the back). Metal fastening claws grab the glass blocks from above and thus, connect the glass units with the supporting structure.

Drawing: Metallover SA, Carouge/Schweiz

[17-04-UNOGeneva-2] & [17-04-UNOGeneva-8] &
[17-04-UNOGenf-7]

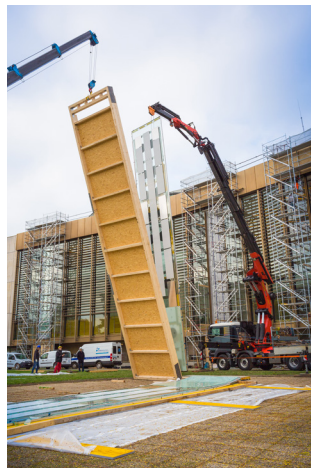
*A truck crane with a vacuum
lifter handles the glass.*

*The largest units have dimensions
of 2.29m x 13.10m and weigh
#1.9 tons. The design and the
construction now correspond to
the original of 1971.*



All Photos:

Organisation internationale Genève



[17-04-UNOGeneva-10]

Installation of the 13m long IGUs



[17-04-UNOGeneva-13]

The glass façade has shone in new splendor since the completion in September 2016.



All Photo: Organisation internationale Genève

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

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

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. The company and its 150 employees have developed into the world's technology and innovation leader for large insulating and safety glass. With a ten-year experience of manufacturing oversize glass and after having increased the level of automation continuously, sedak is regarded as a specialist in this know-how intensive segment. The glass units reach dimensions up to 3.2m x 16.5m - processed, tempered, laminated, printed, coated, and cold bent. The core capabilities are the lamination of glass, edging, and the company's special knowledge of producing glass components with additional functional and decorative elements. sedak's production has been optimized for extraordinary glass sizes and weights; all finishing steps are highly automated and handled in-house. As a full supplier for oversize glass units, sedak sees itself as a partner for architects, designers, and façade constructors. Outstanding references are for example the House of European History in Brussels, the Faculty of Medicine in Montpellier, the Torre Europa in Madrid, Brookfield Place in New York City, the United Nations Office at Geneva, the Apple Cube in New York City, the science center experimenta in Heilbronn, as well as numerous premium flagship stores worldwide.

Applications

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