

DESIGNING WITH LARGE PANES OF GLASS

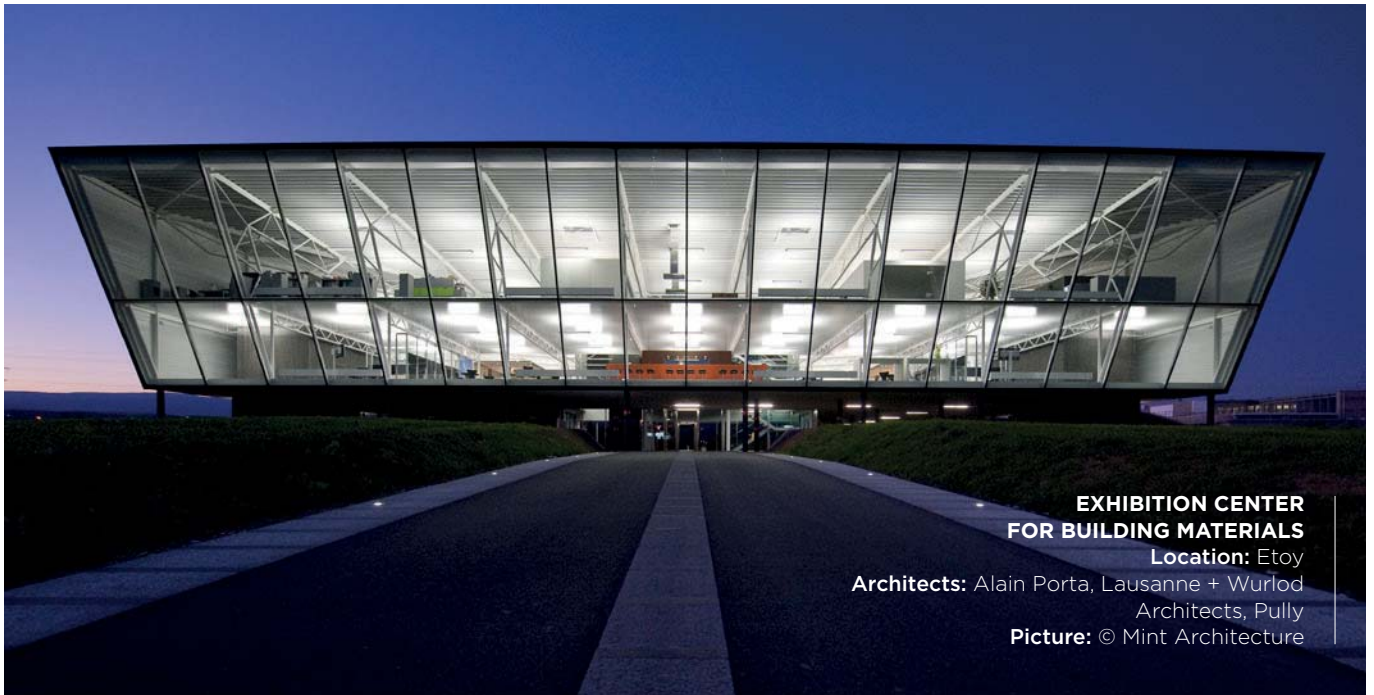
OFFER NEW AESTHETICS IN ARCHITECTURAL DESIGN



SAINT-GOBAIN

DESIGNING WITH LARGE PANES OF GLASS

Overlength glass panes are now available in many formats, offering numerous new possibilities to designers. Ranging in length from 6m to 18m, Overlength glass panes meet the same building physics requirements as standard size glass units. No matter what type of glass and glass finish you choose for your building façade, all glass processing techniques can be applied to SAINT-GOBAIN Overlength sheets just like the usual smaller panes.



**EXHIBITION CENTER
FOR BUILDING MATERIALS**
Location: Etoy
Architects: Alain Porta, Lausanne + Wurlod
Architects, Pully
Picture: © Mint Architecture

NEW AESTHETIC POSSIBILITIES

Buildings which showcase Overlength glass panes are visually striking. In contemporary architecture, transparent building envelopes have become increasingly popular, and Overlength panes support this creative feature particularly effectively.



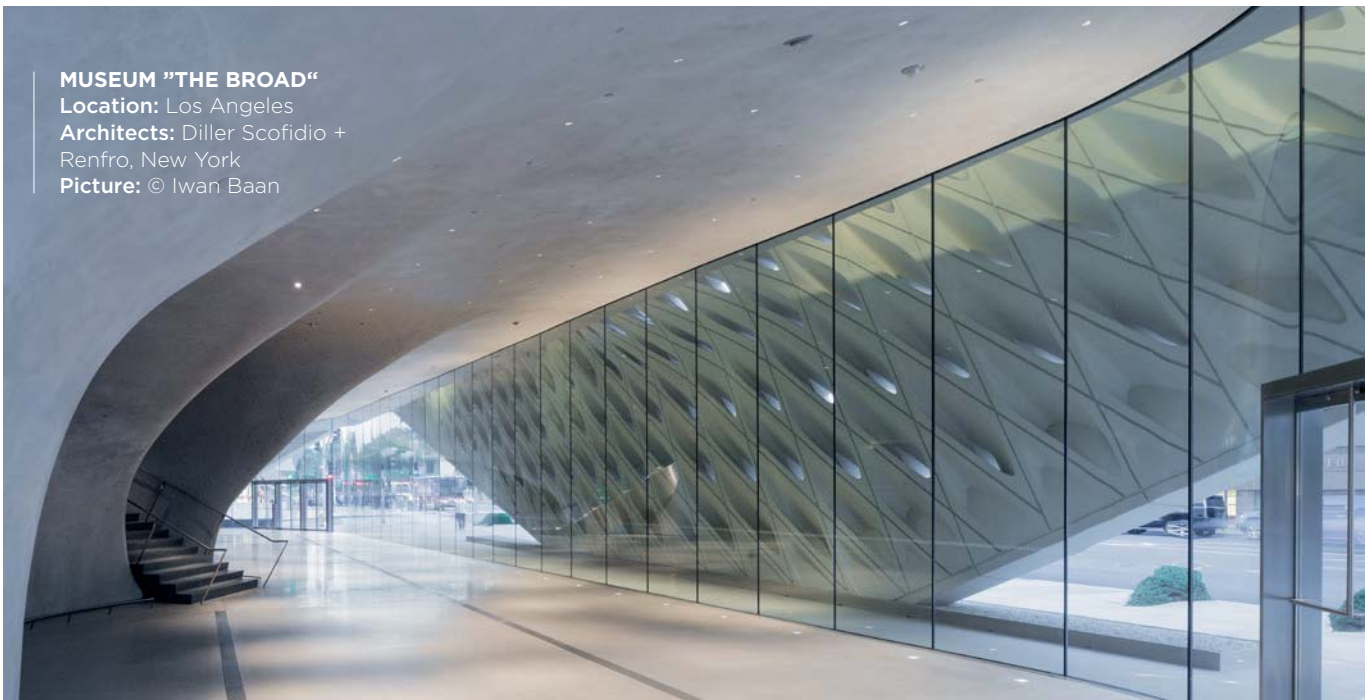
METRO STATION "THE OCULUS"
Location: Ground Zero, New York
Architects: Santiago Calatrava, New York
Picture: © Harvey Barrison, Wikimedia Commons

MUSEUM "THE BROAD"

Location: Los Angeles

Architects: Diller Scofidio + Renfro, New York

Picture: © Iwan Baan



THE PROCESS – FROM GLASS PRODUCTION TO THE CONSTRUCTION SITE

SAINT-GOBAIN has decades of experience in the production of Overlength glazing. This expertise is further highlighted with 8-metre long, curved panes. Whether talking about glass processors or insulating glass unit manufacturers, logistics specialists or building site handling specialists, SAINT-GOBAIN has access to a worldwide network. Specially developed trucks ensure that the extra-long glass panes reach the construction site safely.



NEUE NATIONALGALERIE

Location: Berlin

Architects: Ludwig Mies van der Rohe, Chicago

Picture: © Deror avi,
Wikimedia Commons

OVERLENGTH GLASS IN HISTORY

Extra-long glazing is closely linked to architectural modernism; Ludwig Mies van der Rohe used 5-metre-long panes in his architectural icon "Villa Tugendhat" in Brno at the end of the 1920s to implement the basic idea of maximum transparency and daylight. In 1968, SAINT-GOBAIN supplied panes with an excess length of 5.6 metres for the "Neue Nationalgalerie" in Berlin. During the construction of the UN building in Geneva in 1971, 13-metre-long glass panes were used - though not with the technical processing possibilities available today.

CREATING COMFORT AND VISUAL APPEAL

Large glass formats not only shape the architectural character of a building externally, they also create a generous and open atmosphere indoors. Thanks to the Overlength panes, transparency is less frequently interrupted by separating frame elements, creating a greater sense of space with sleek, flowing transitions. The interior appears to continue seamlessly into the outdoors, the building is flooded with daylight and the view can truly be enjoyed.

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Construction:

Overlength glass can be used in all common façade constructions: mullion-transom structures, element façades fixed in storey-high glazing and Structural Glazing. Both horizontal and vertical installations are possible.

MICHENER MUSEUM'S GLASS PAVILLION

Location: Pennsylvania

Architects: Kieran Timberlake,
Philadelphia

Picture: © Michael Moran / OTTO



SAINT-GOBAIN INNOVATION CENTER

Location: Herzogenrath

Architects: Molestina Architekten,
Cologne

Rendering: © Molestina
Architekten, Cologne

OVERLENGTH POSSIBILITIES

You can achieve your desired façade using Overlength glass formats with all the usual types of glass, coatings and finishes:



Quelle: © SAINT-GOBAIN Glassolutions Glasbiegerei Döring Berlin

NON-COATED PRIMARY (FLOAT) GLASS

- SGG PLANICLEAR®
- SGG DIAMANT®

COATINGS

- Low-e coating:
 - SGG PLANITHERM® XN II and ONE II
- Solar control:
 - SGG COOL-LITE® SKN II
 - SGG COOL-LITE® XTREME II



Quelle: © SAINT-GOBAIN Building Glass / Olaf Rohlf

GLASS PROCESSING OPERATIONS

- Cut to Size, improved Edgework, Smooth Ground or Polished
- Drilling of Holes
- Bent or Curved glass
- Heat-Soak Toughened Safety Glass
- Heat-Strengthened Glass
- Laminated Safety Glass
- Laminated Glass with Coloured and Decorative Interlayers
- Single or Multi-coloured Digital Print
- Full Surface Enamelling



Quelle: © heavyonme.com

SAINT-GOBAIN:

YOUR OVERLENGTH GLASS PARTNER

Architects and planners can rely on SAINT-GOBAIN's extensive experience in Overlength glass. All types of glass, processing and finishing options are available for design.



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