

A R C H I T E C T U R E



fabric&glass **VISION**

S E F A R
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Swiss Railway – Main Office Building, Switzerland

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Concept/Design

The facades consist of colored, moveable glass slats which transform the visual appearance of the building as the sun moves across the sky. SEFAR® Architecture VISION Fabric AL 260/25 is laminated into the glass with the five colors creating an interesting light effect. The panes are attached to the overall construction as a solar shading system. Despite their reflective and opaque appearance, the Vision's unique black inner side of the laminated fabric permits a good view from within the building. The structure of the fabric is responsible for the unique optical effects, subtle reflections, and a reduction of solar heat gain.

Construction

The double-sided, vertically mounted solar shading slats are around 50 cm wide and attached to the short edges by means of two U-profiles in a metal-frame profile. A total of 6'200 slats were used, equating to a VISION Fabric laminated glazed surface area of approximately 9'300 m² which is set back from the edge.

Project/Location

SBB Main Office Building, Bern Wankdorf, Switzerland, www.sbb.ch

Architect

Lussi + Halter Partner AG, Luzern, Switzerland, www.lussi-halter.ch

Facade builder

Colt International GmbH, Kleve, Germany, www.colt-info.de

Glass manufacturer

BGT Bischoff Glastechnik AG, Bretten, Germany, www.bgt-bretten.de

Interlayer

SentryGlas® ionoplast interlayer(s), www.sentryglas.com

Fabrics

SEFAR® Architecture VISION AL 260/25

SEFAR® Architecture VISION CR 260/25

SEFAR® Architecture VISION PR 260/25 Gold

SEFAR® Architecture VISION PR 260/25 Copper

SEFAR® Architecture VISION PR 260/25 Pearl

Photos

Leonardo Finotti, www.leonardofinotti.com

Lorenz Held, SBB



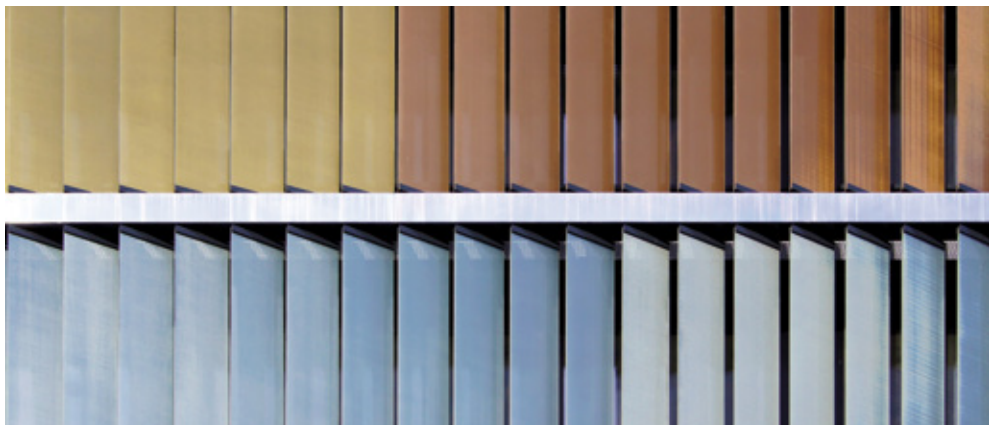
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General Information Metal Coatings, Printing and Design Possibilities

Metal coatings

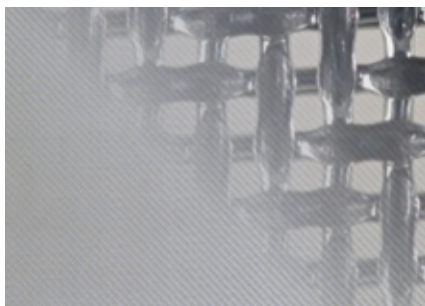
The range of six fabrics and metal coatings including different combinations featuring double-sided coating offers a wide range of variations. With some additional outlay, the possibilities are virtually endless.



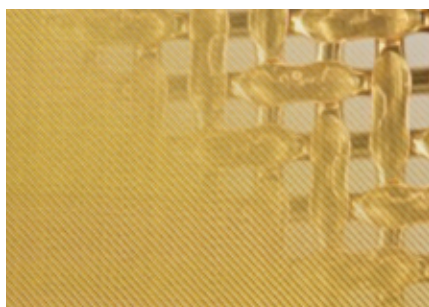
Aluminum (AL)



Chromium (CR)



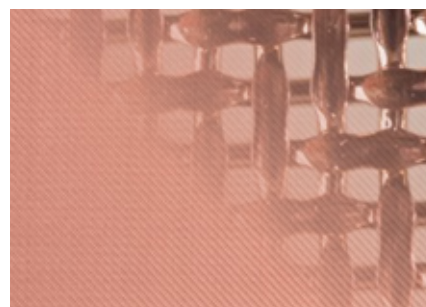
Titanium (TI)



Gold (AU)



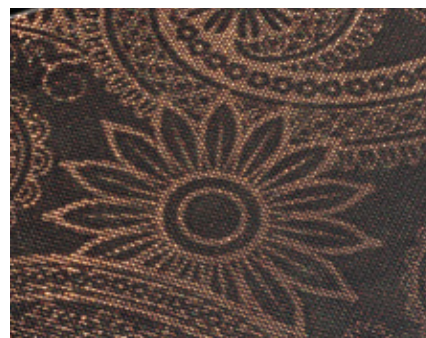
Printed Gold (PR)



Printed Copper (PR)

Effective design possibilities and plays of light

Fabric surfaces coated in metal can be further individualized by means of digital printing with options ranging from simple wording right up to large-scale designs. The reverse side of the fabric remains black. Double-sided coated fabrics can be printed separately on the front and reverse sides. Almost any color and design can be printed, except white.



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General Information

Transmission, Lamination and the VISION Effect

SEFAR® Architecture VISION

The yarn thickness is either 140 or 260 µm depending on the fabric type. The basic product range consists of six fabrics with a mesh opening of between 25 % and 70 %.

Vision fabrics are coated with metals by means of a sophisticated process. The metals used are aluminum, copper, chromium, titanium and gold, as well as printed copper and gold. One-sided metallic coating is used exclusively in the basic product range. The reverse side of the fabric is in black color.

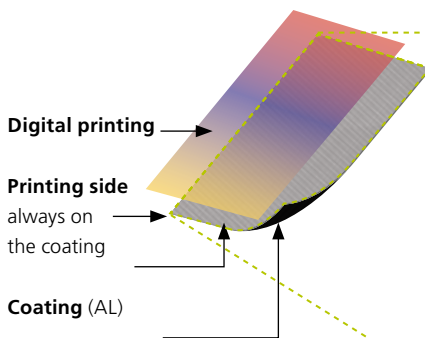
On request, both sides of the Vision fabric can be coated. It is even possible to have different metallic coatings on the front and reverse sides of the fabric.

An example of transmission values, tested at «Empa» (Swiss Federal Materials Testing Center) on AL 260/25 unprinted in 2 x 4 mm low iron glass.
G-value: 28.7 %
LT-value: 21.7 %

The VISION effect

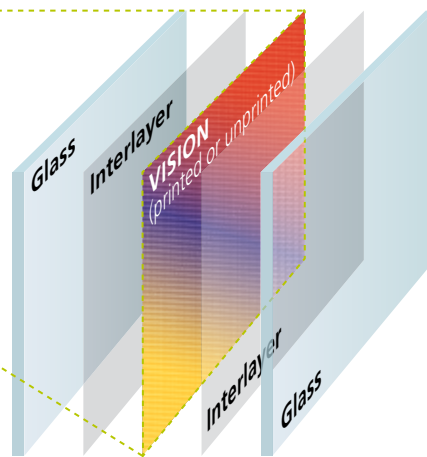
From outside, the fabric keeps prying eyes away – from inside the view remains free. On distance, a slight doubling effect arises.

Printing (optional)

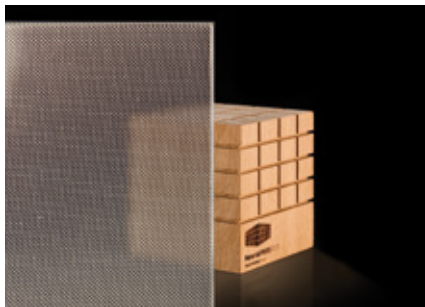


Black Polyester on the back

Glass lamination



Recommended Interlayers:
SentryGlas® ionoplast interlayer(s). SentryGlas® is a registered trademark of E.I. du Pont de Nemours and Company or its affiliates for its brand of interlayers and is used under license. www.sentryglas.com

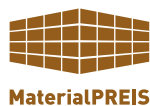


View from outside



View from inside

The VISION Awards



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