

SLIDING ROOFS





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Dear clients,

The popularity of our sliding roofs has been increasing from one year to the next from when we first started developing them 30 years ago. This catalogue provides information on their technical specifications and diverse possibilities.

Enjoy the view of the sky from your conservatory or on your terrace, protected from the rain or in the airy atmosphere with the sliding roofs open. Our architects, engineers and construction craftsmen are here to help you with their decades of experience in this field.

Yours truly, Klaus Rengier

OpenAir sliding roofs



Live-in conservatory with a four-part sliding roof in Moscow



Middle section of a terrace roofing with a 4 metre wide four-part OpenAir sliding roof section

Experience openness – a new definition of the term sliding roof

OpenAir is a fully automatic glass sliding roof system for large surfaces and openings (individual sections measure up to 4 metres in width and 12 metres in depth) and offers first-class living comfort, excellent climate regulation, and appealing architecture, all in one. Individual sections have up to 3 sliding casements that can be moved electronically along their corresponding upper fixed casements. The individual sections can also be assembled in different dimensions into large sliding roof systems.

Electrochromic glass panes allow the control of light and heat transmission of the glass surfaces of the sliding roofs and walls.



Live as if you were outdoors in any weather condition

Sunshine has truly brought the idea of a conservatory with any desired degree of openness to life. The system meets stringent thermal insulation, stability and opening dimension requirements and can easily be installed for year-round habitable spaces.

The construction allows for endurance of great loads produced by snow and wind. An additional internal dewatering surface allows planning with lower inclines of up to 6 degrees, even under extreme loads from snow, rain and stormy weather.

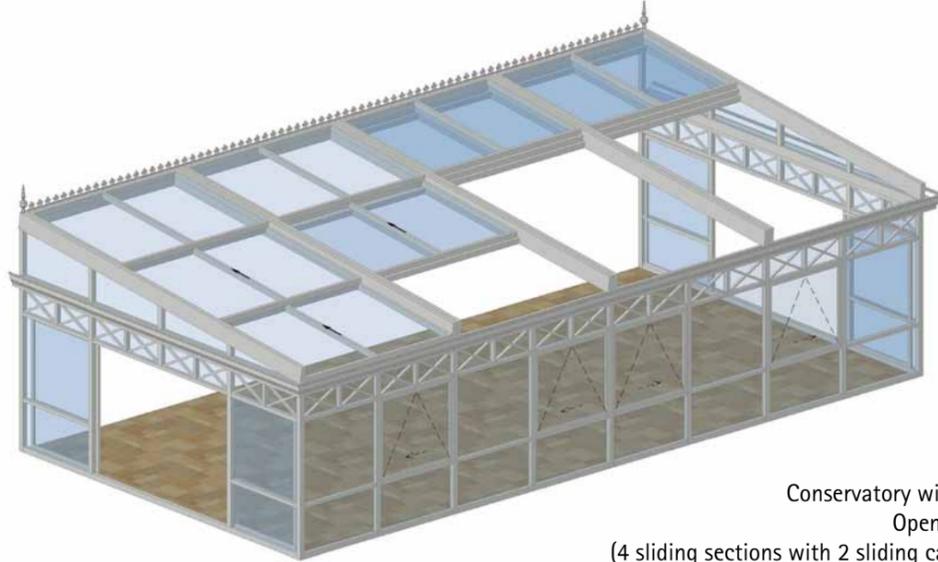
Closed sliding roof



Sliding roof is opening



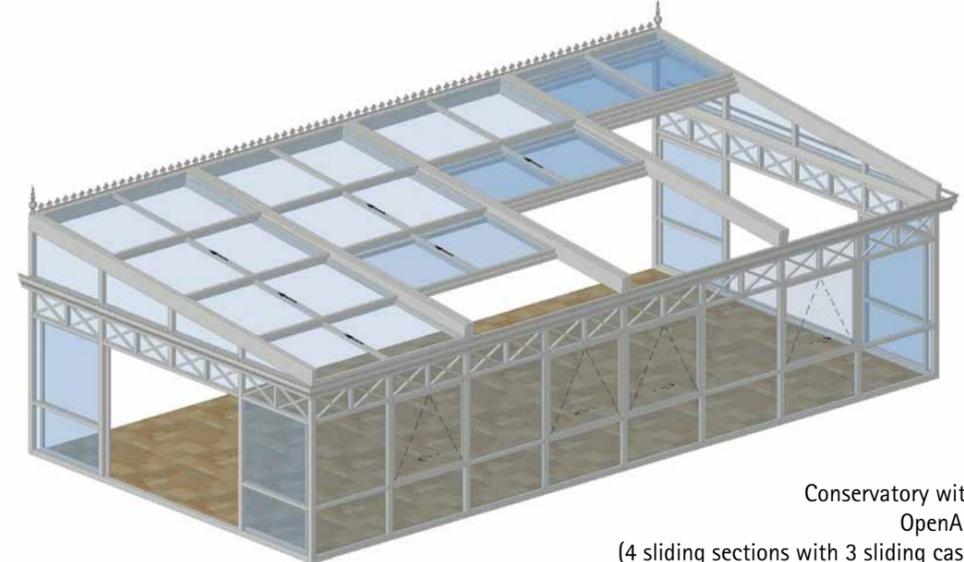
Conservatory
Isometric
representation



SD OA 0101

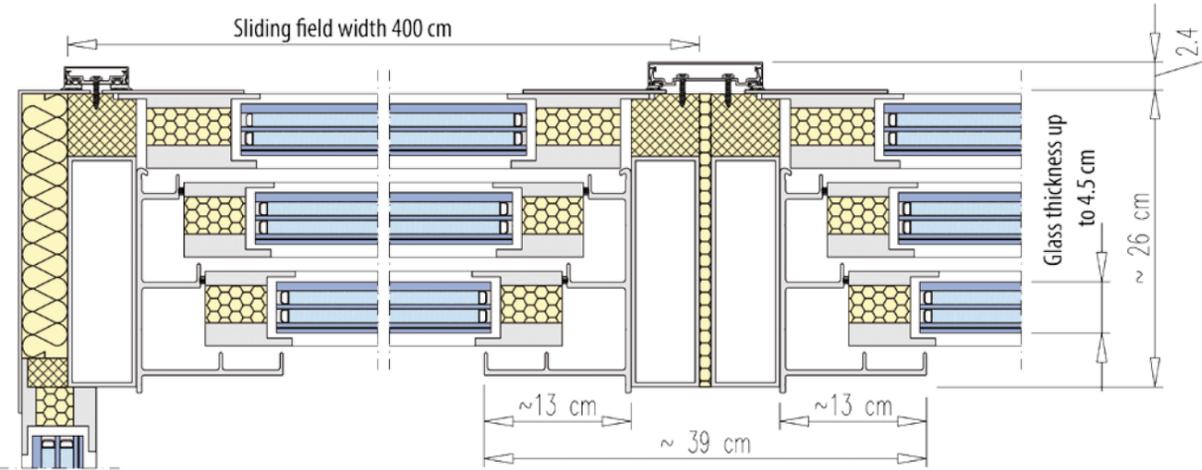
Conservatory with a three-part
OpenAir sliding roof
(4 sliding sections with 2 sliding casements each)

Conservatory
Isometric
representation



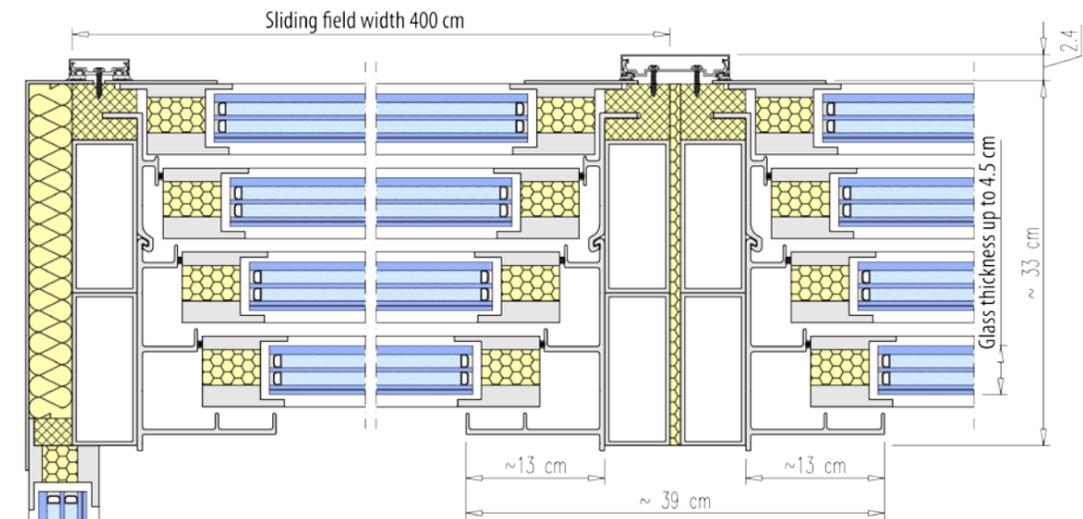
SD OA 0100

Conservatory with a four-part
OpenAir sliding roof
(4 sliding sections with 3 sliding casements each)



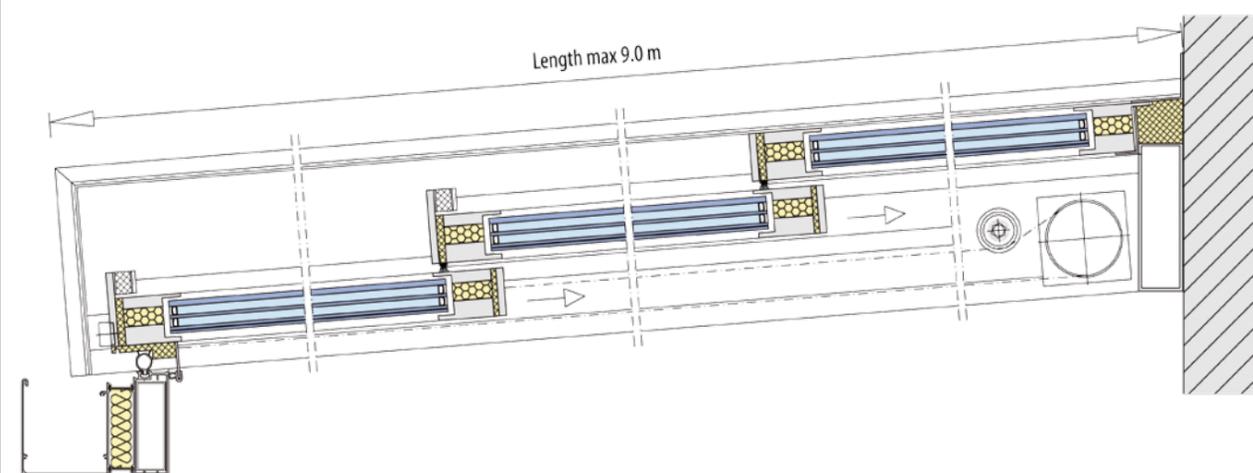
SD OA 0300

Horizontal cross-section



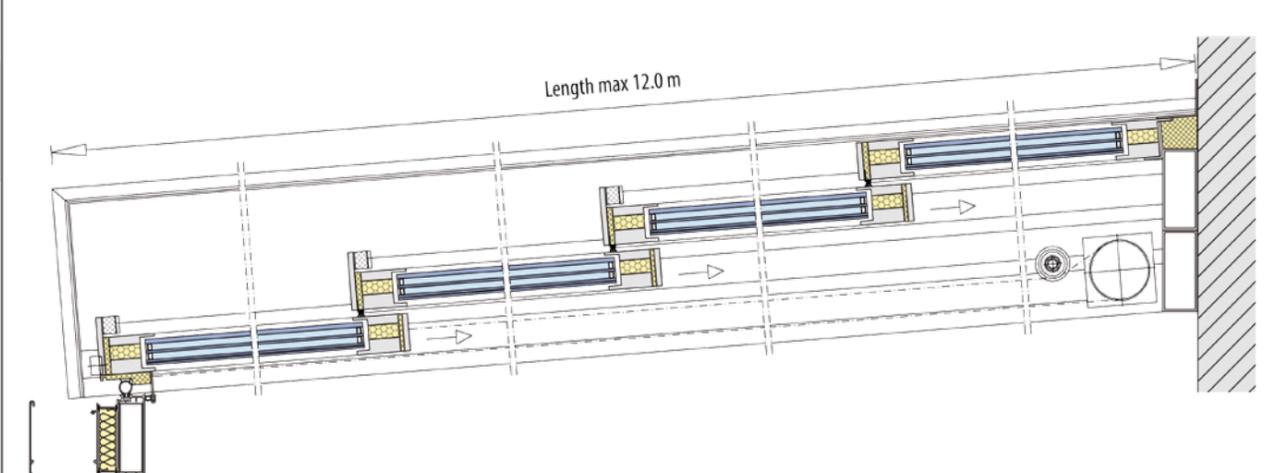
SD OA 0400

Horizontal cross-section



SD OA 0301

Vertical cross-section



SD OA 0401

Vertical cross-section



788

View of a conservatory from the „blue Adriatic“

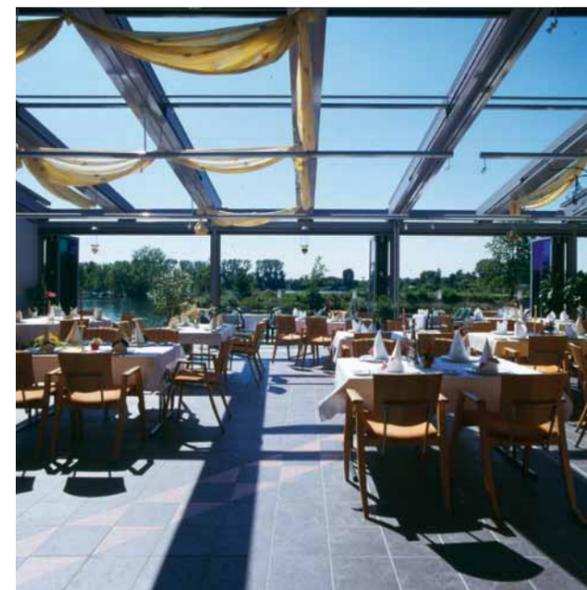


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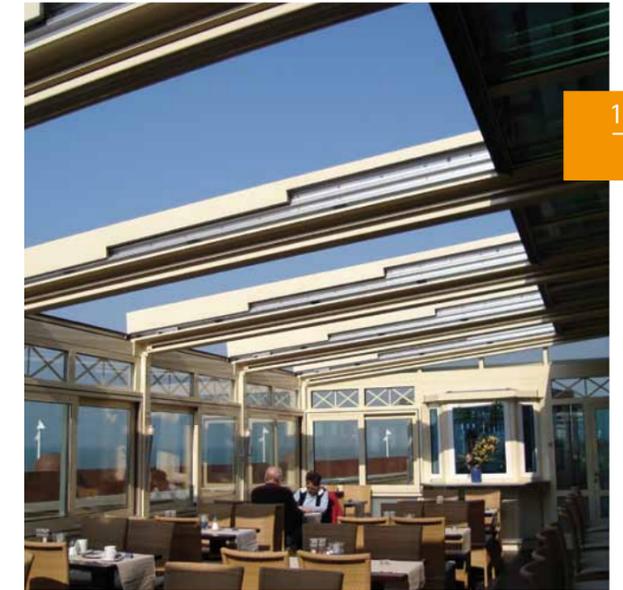
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Hotel Darstein, Ludwigshafen

With this OpenAir sliding roof, Hotel Darstein was expanded with an additional space for guests with impressive dimensions of 32 meters in width and 9.5 meters depth. Its highlight is the fully automatic sliding roof, the surface of which can be opened up to 70%.







Café Faust, Großenhain

Functional glass architecture brings satisfied guests to the café. This conservatory, measuring 14 metres in width and 7 meters in depth takes care of the influx of invigorating light and economical thermal insulation in poor weather conditions – if it starts to rain, the roof elements close automatically.

Hotel Georgshöhe, Norderney

In the beach hotel Georgshöhe on the island of Nordnerey, the guest area was expanded with a conservatory in the restaurant area and a terrace roofing in the outside area. The fully automatic Sunshine OpenAir sliding roof is designed to enable sitting in the open air, protected from wind and the elements.



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Conservatory with an OpenAir sliding roof and a café terrace with an awning

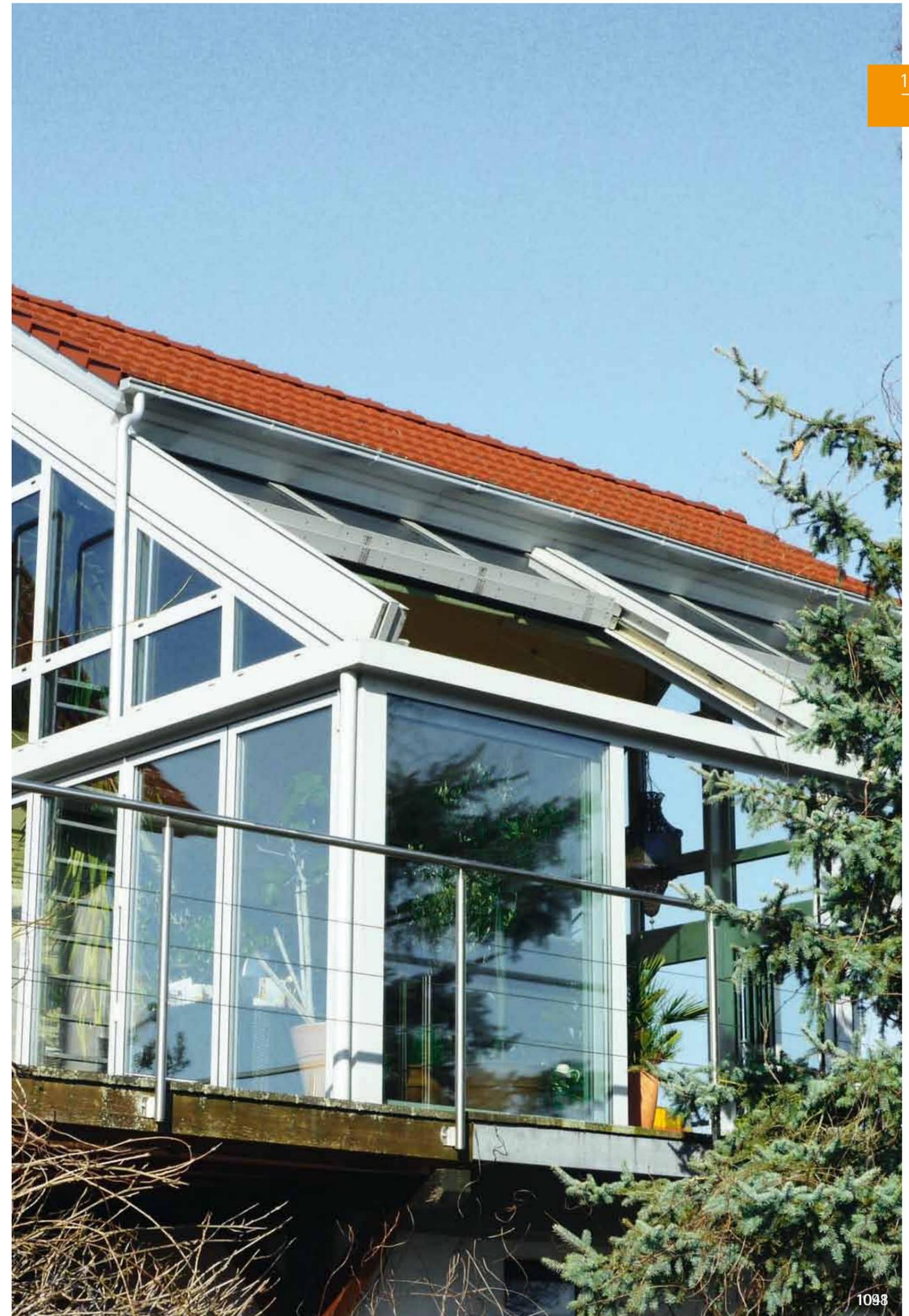


Conservatory with a four-part OpenAir sliding roof (1200 x 600 cm (WxD), 5 sliding sections)

Café terrace with a rolled up weather protection awning



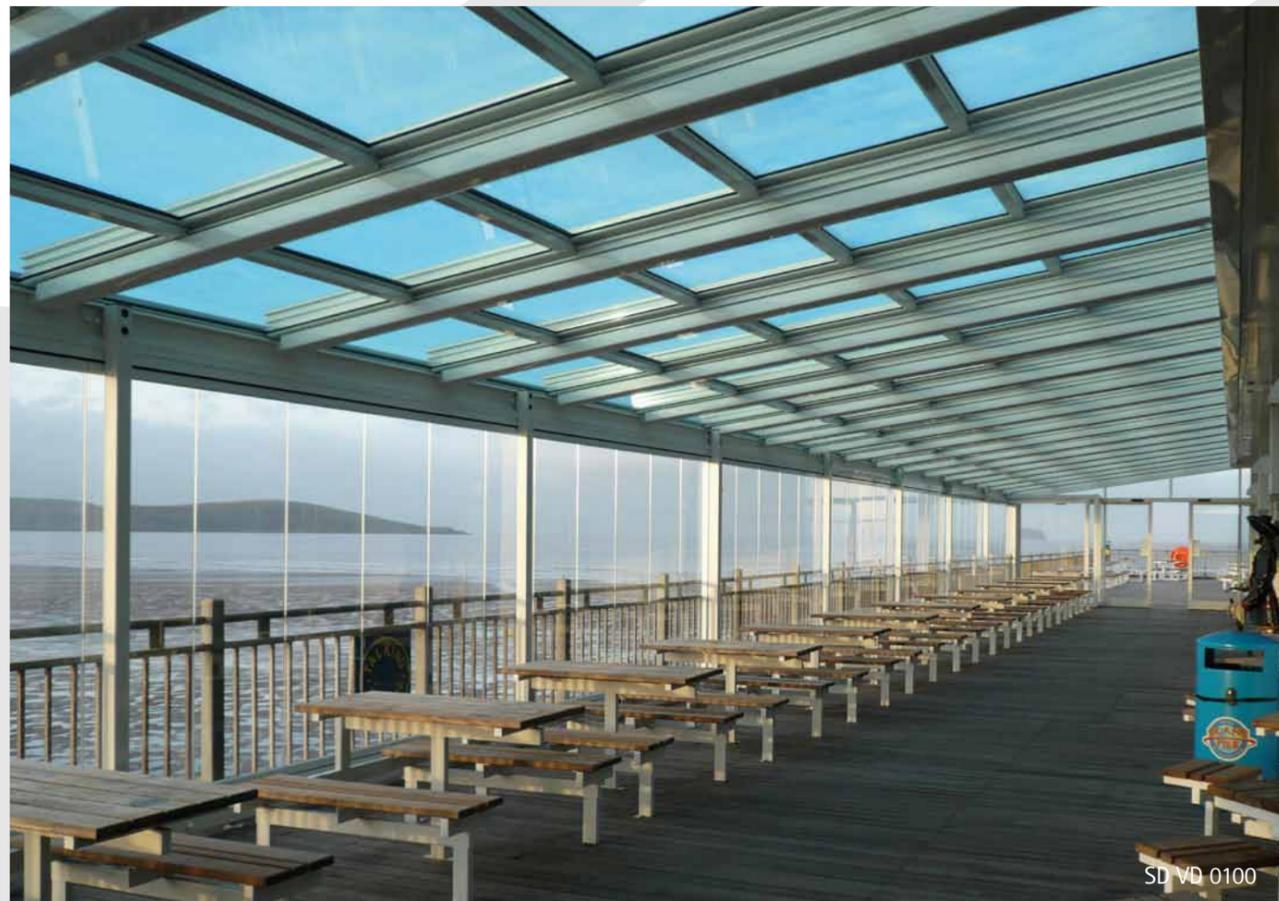
Living space conservatory with a combination of a brick roof and an OpenAir sliding roof (upper picture)
„A nice view“ of the Elbe near Wahrenberg (bottom picture).



Veranda sliding roof

Veranda is a sliding roof system for roofings and summer gardens. It allows for an economically efficient coverage of large surface areas of up to 7 metres in depth, which makes the system ideal for use in outdoor gastronomy. Depending on the design, the construction allows for two thirds up to four fifths of the roof area to be opened via the electronic motor.

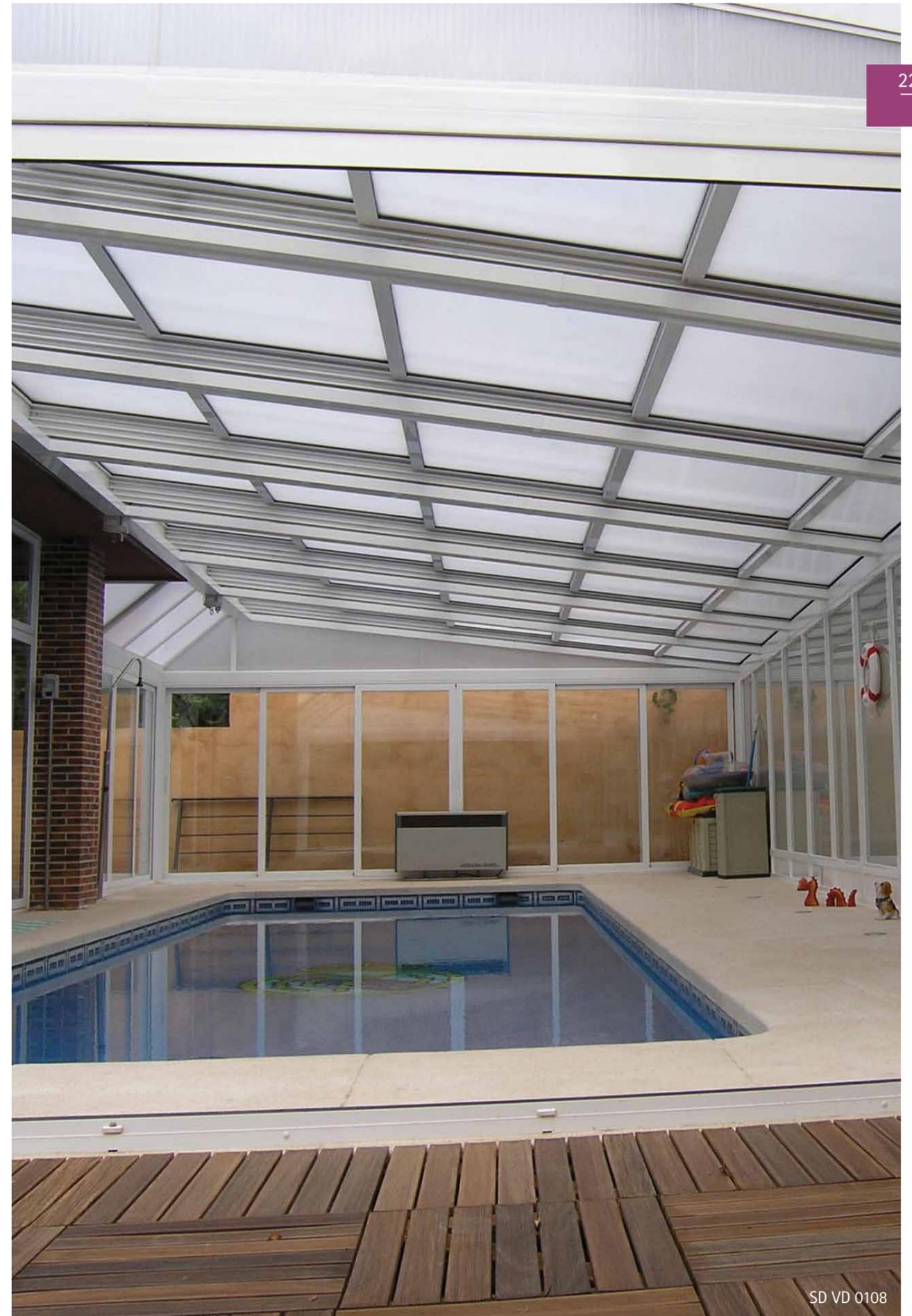
Aluminium profile	three-part, four-part, five-part system, uninsulated profiles
Glazing	laminated safety glass as a single-glazed or thermally insulated unit (Ug value 1.7 W/m ² K according to EN 673, glass thickness up to 25 mm)
Standard colour	traffic white RAL 9016 (other colours available for a surcharge)
Sliding section dimensions	up to 180 x 700 cm (width x depth, depending on snow load, number of panes and construction depth)
Roof pitch	from 5° (a 10% pitch is advisable)
Additional equipment (surcharge)	multifunctional glass panes (active glass, sun protection glass...), outside awnings, under-glass awnings



Veranda sliding roof with 5 sliding sections (each consisting of 5 sections with 4 casements). An unobstructed view through the sliding roof and folding glass walls (bottom picture).

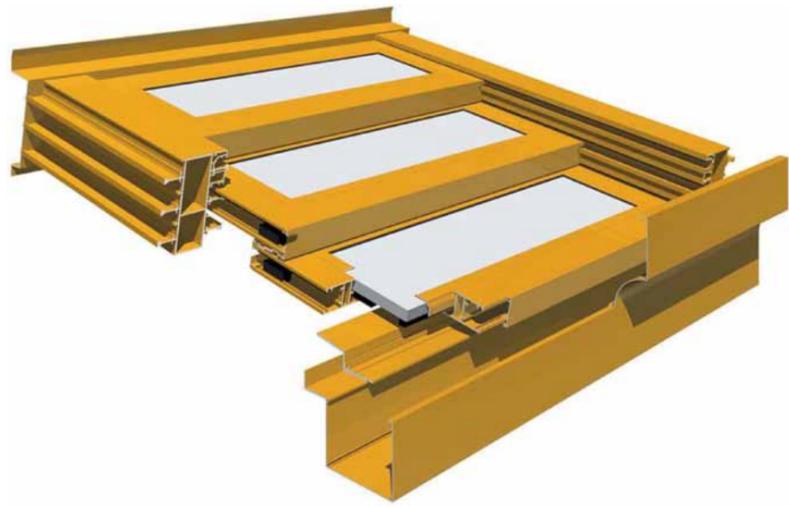






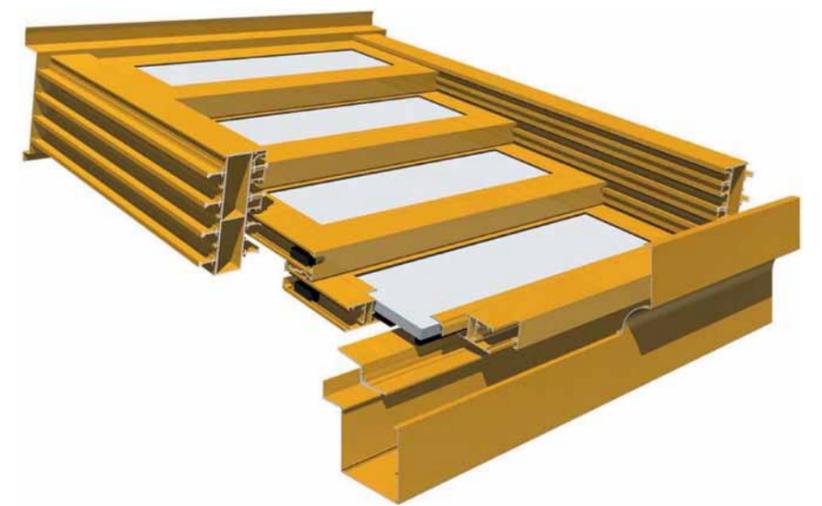
Translucent sliding roof glazing offers protection from prying eyes.

Three-part
Veranda
sliding roof



SD VD 0301

Four-part
Veranda
sliding roof

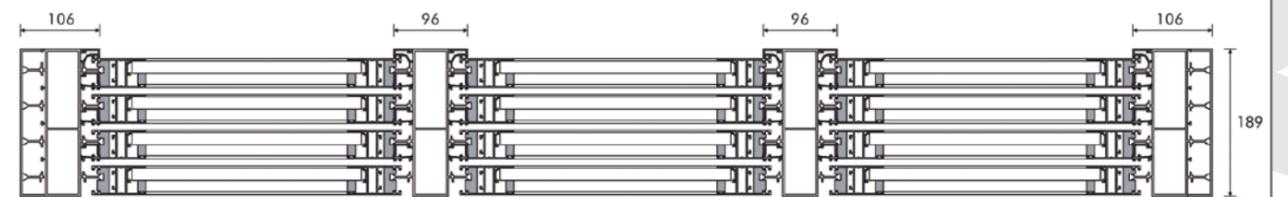


SD VD 0401



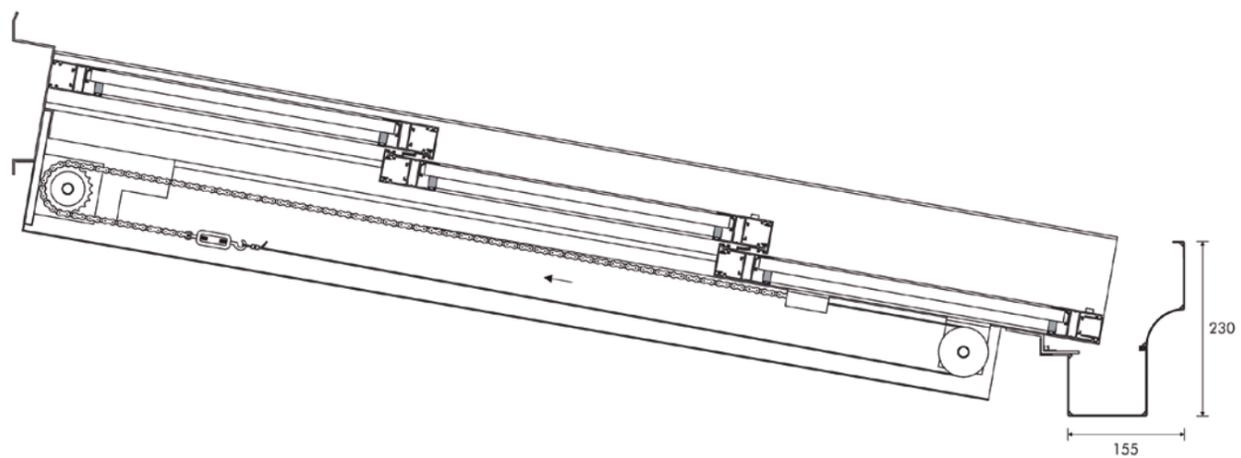
SD VD 0303

Horizontal cross-section



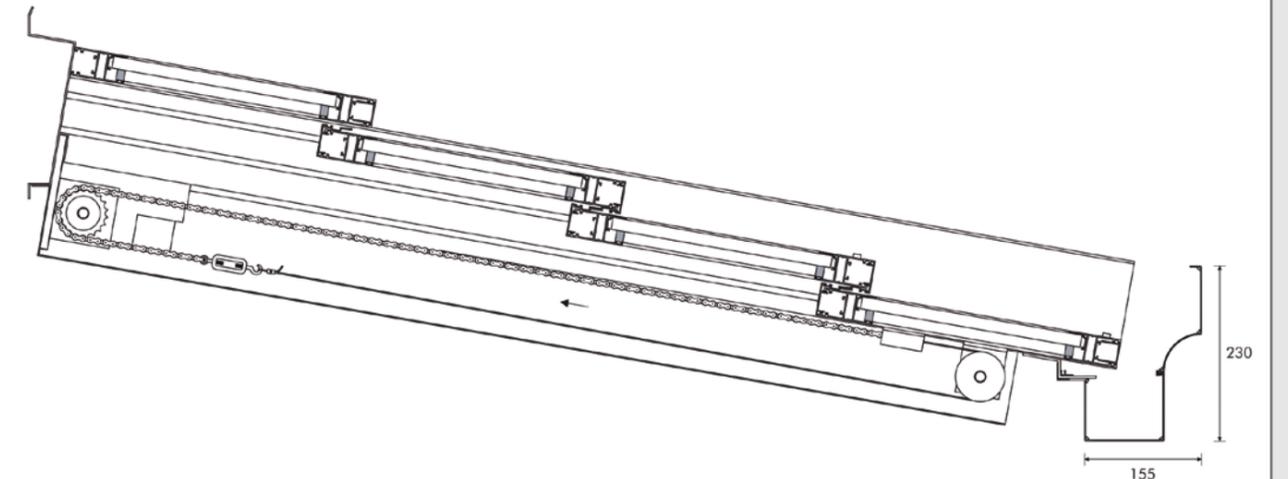
SD VD 0403

Horizontal cross-section



SD VD 0302

Vertical cross-section



SD VD 0402

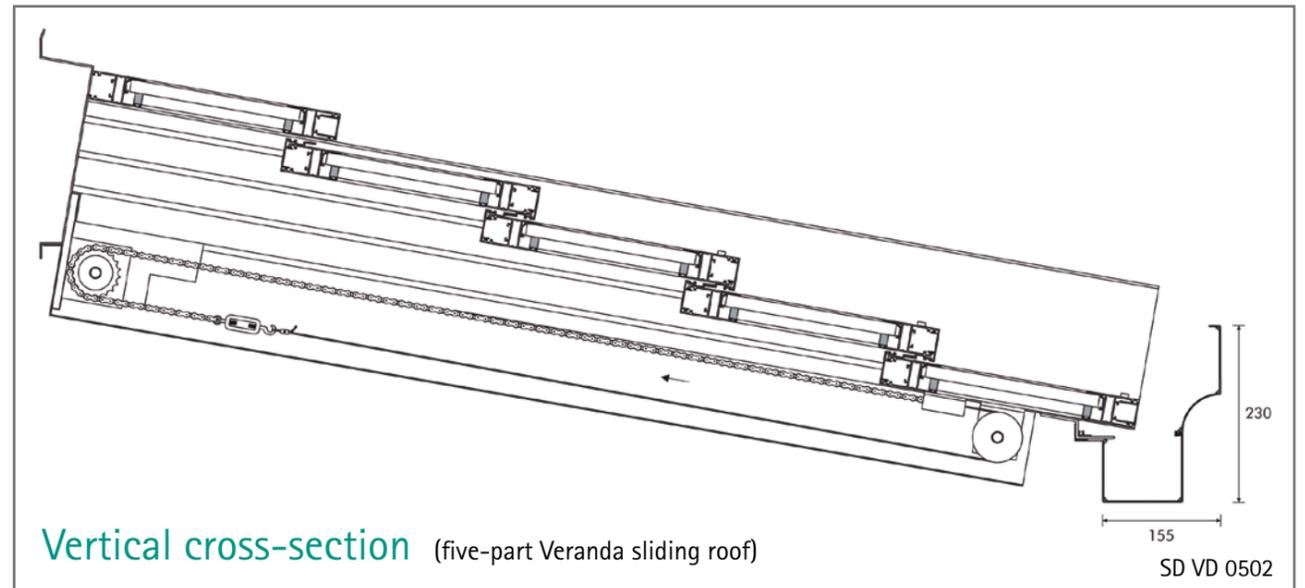
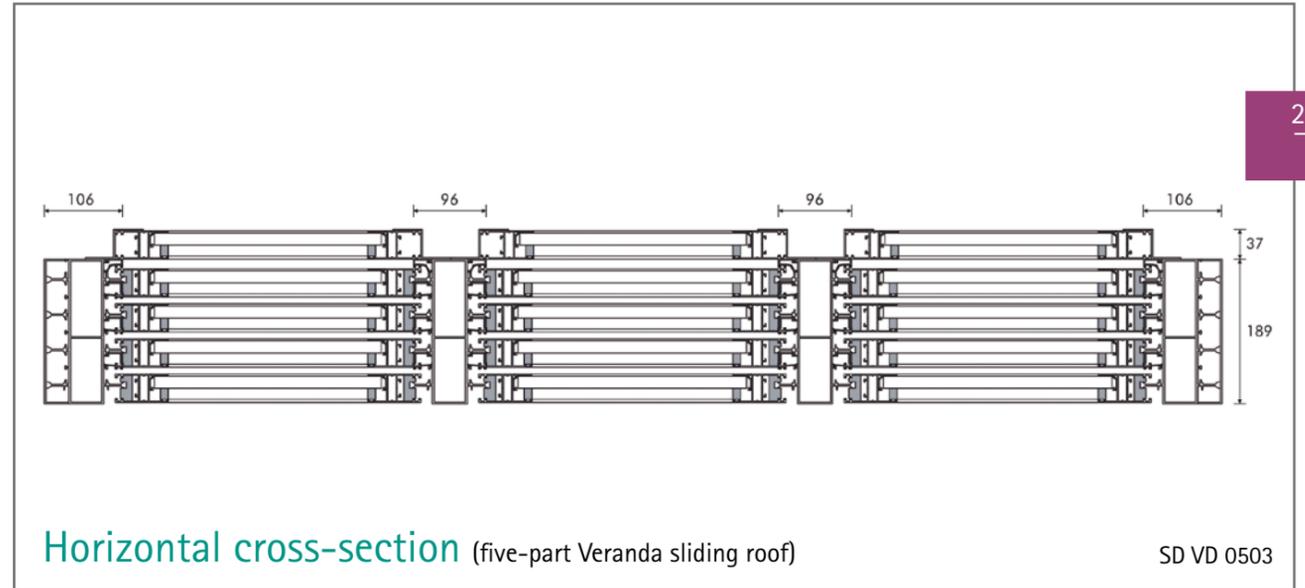
Vertical cross-section



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Veranda – sliding roof

An affordable alternative for roofings and conservatories.
The robust and easily maintained Veranda system is a popular choice both for private and business use.



Sliding field width up to 180 cm. Sliding field depth up to 700 cm, opening depth around 4/5.



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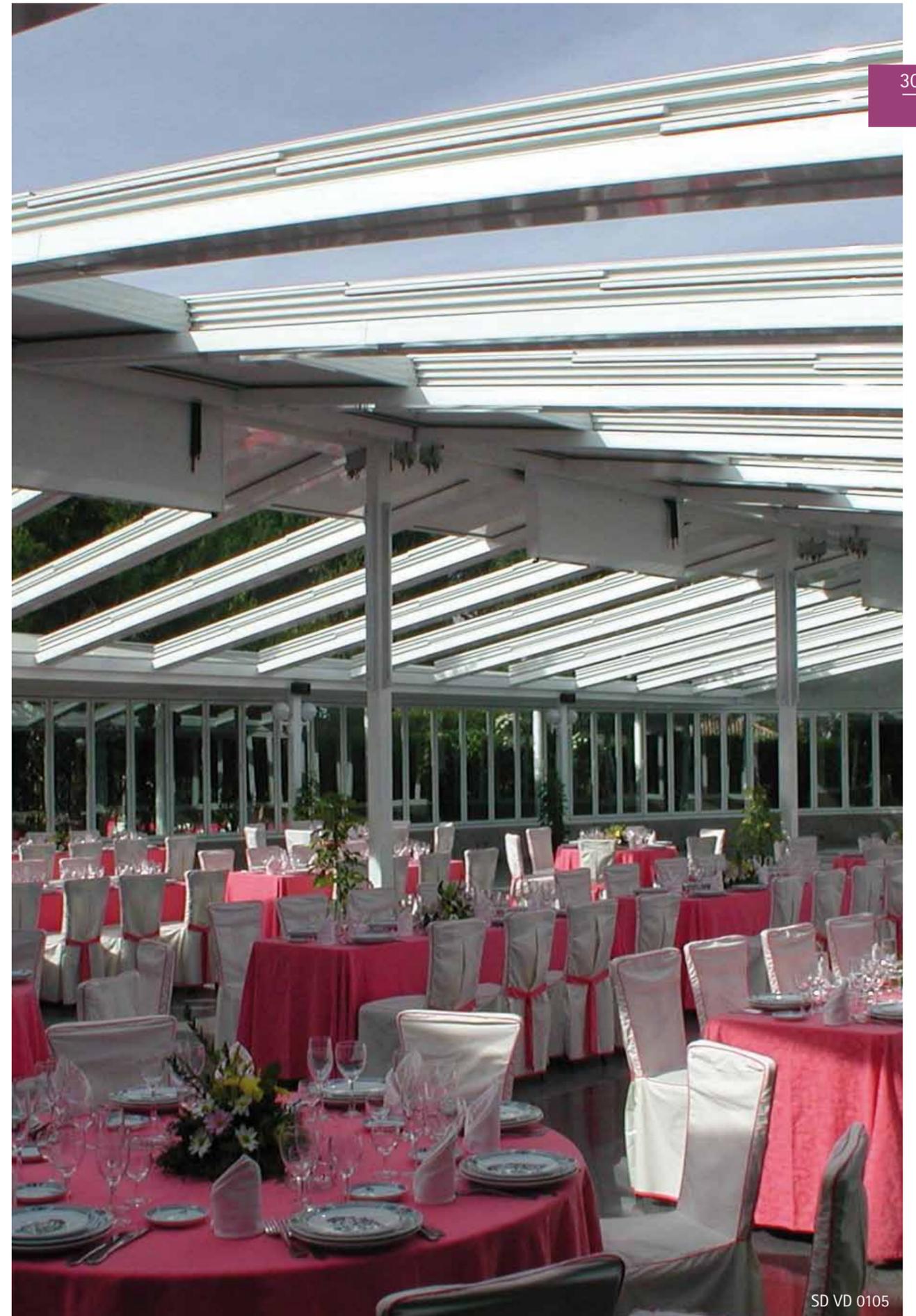
SD VD 0103

Conservatory with a three-part Veranda sliding roof (5 sliding fields).



SD VD 0104

Six-part sliding doors (light frame) with decorative shutter glazing.



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SD VD 0105

With a Veranda summer garden, the restaurant terrace can be in use year-round.

Cabrio sliding roofs

A movable glass roof affording an unobstructed outward view

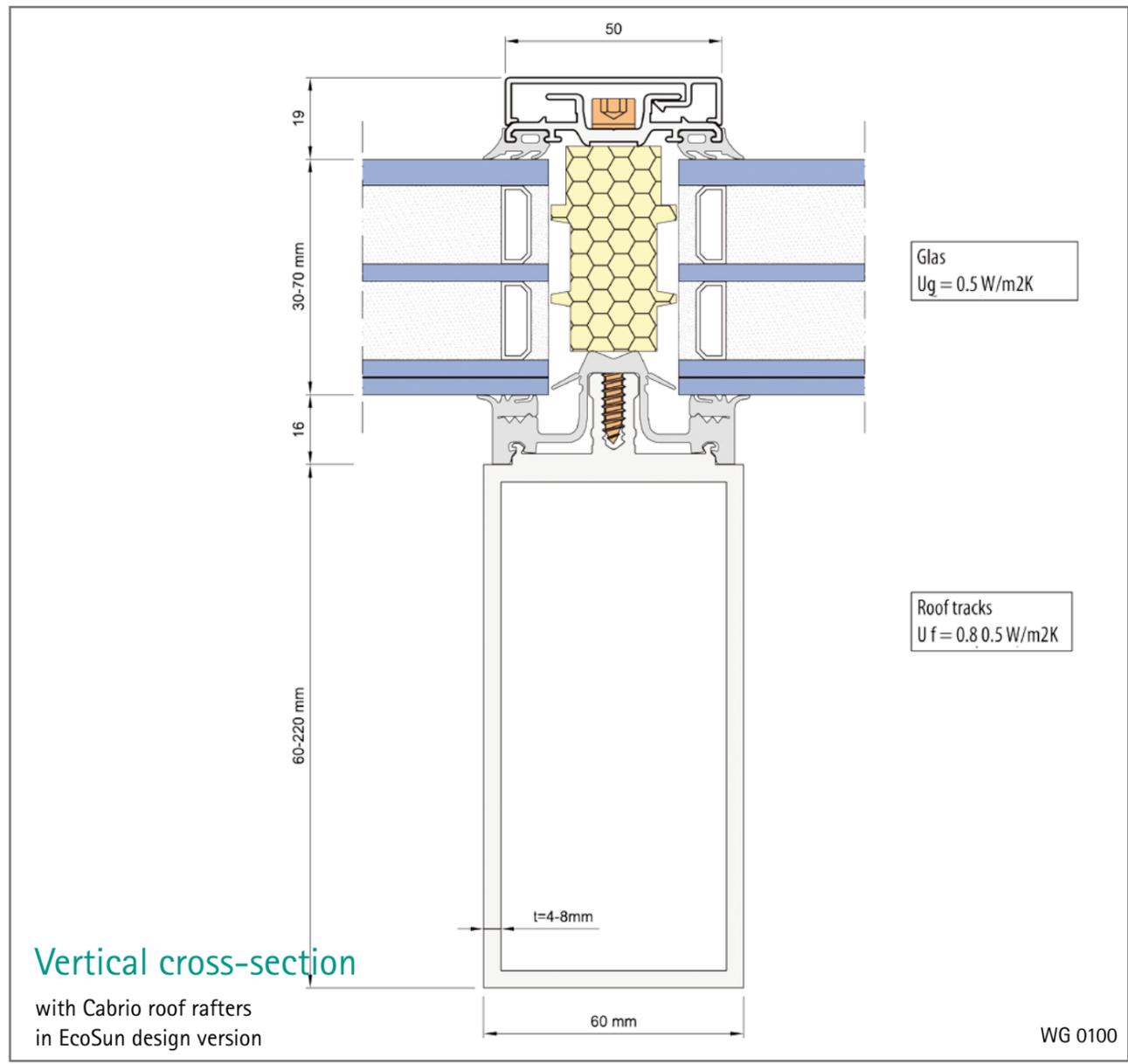
Cabrio – sliding roofs are roof bearing structures that can be moved horizontally on rails by way of an electronic drive system. Size and roof form can – if technical possibilities permit it – be almost freely determined. The materials used are usually – aside from glass – specially lacquered, saltwater-resistant aluminium alloys and stainless steel that are suitable for use near swimming pools and in seaside areas.

Sunshine aluminium welding technology allows for exceptional elegance and stiffness. Functional coatings on the glass protect from sunlight and have a cleaning-assisting function. Cabrio sliding roof fulfil the most stringent requirements for thermal insulation with their U_g values of 0.5 W/m²K to U_f values of 0.7 W/m²K (according to EN 673), but are also available in thermally uninsulated varieties.



The sliding roof allows for an unobstructed outward view.





Vertical cross-section

with Cabrio roof rafters
in EcoSun design version



In nice weather the Cabrio roof can easily be moved aside and the guests are already sitting in the open and can enjoy every „sunny minute“.



Sliding roof closed

Sliding roof open





1114

Roof bearing structure for the observatory in Triebenberg (Technical University Dresden).



1114

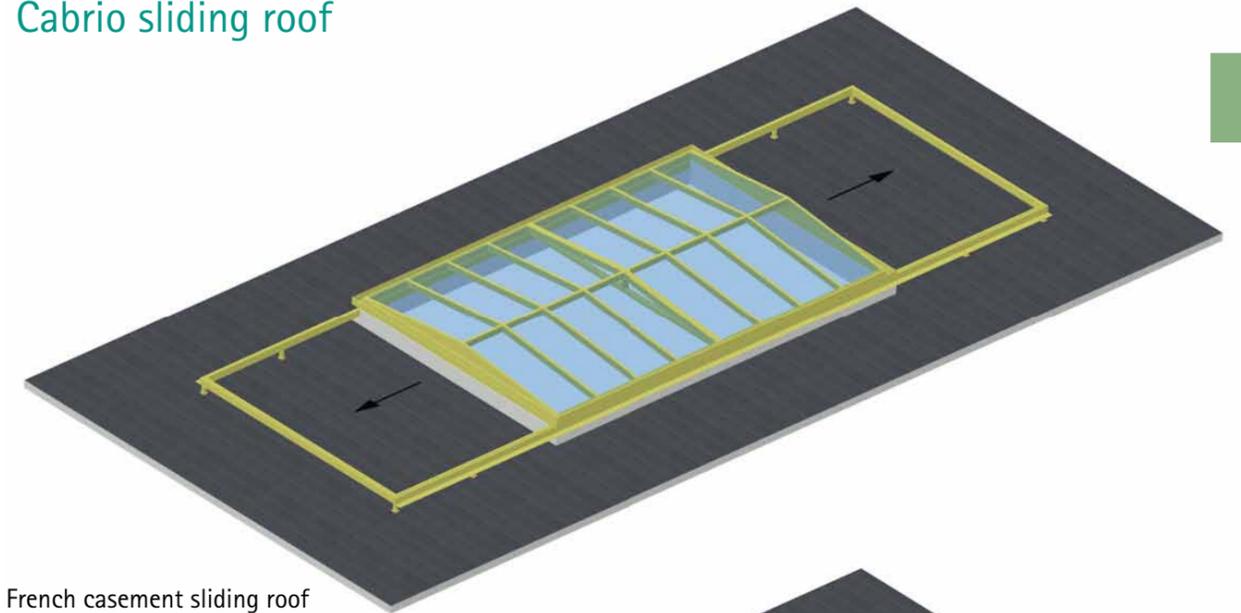
Cabrio sliding roof (in asymmetrical pyramid form) – closed



1114

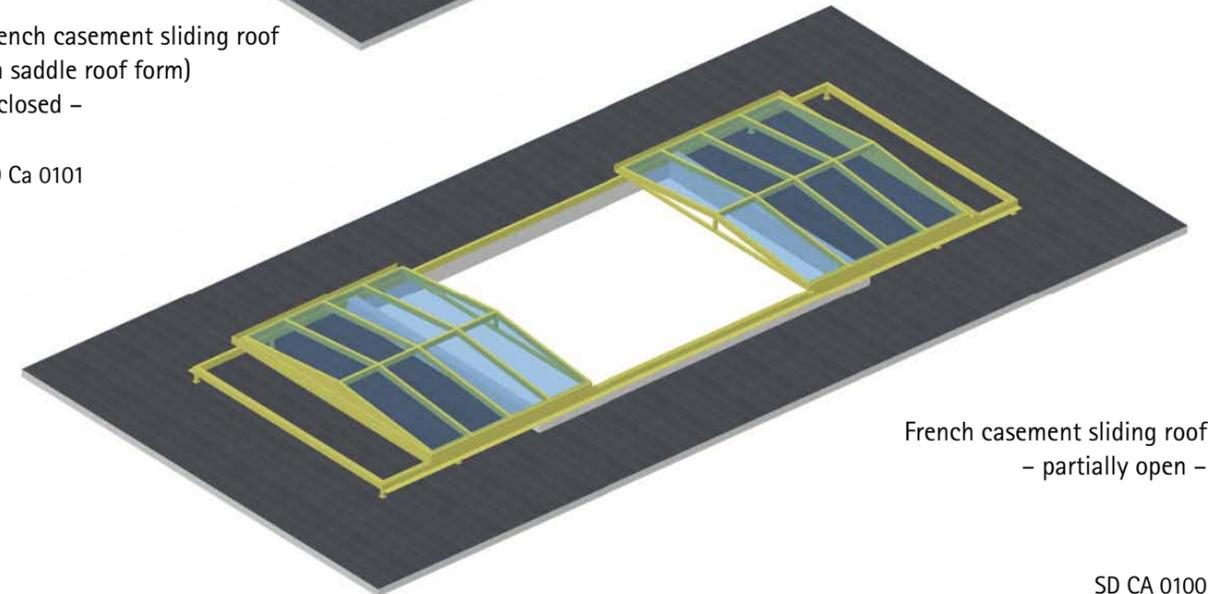
Cabrio sliding roof open some 50%

Cabrio sliding roof



French casement sliding roof
(in saddle roof form)
– closed –

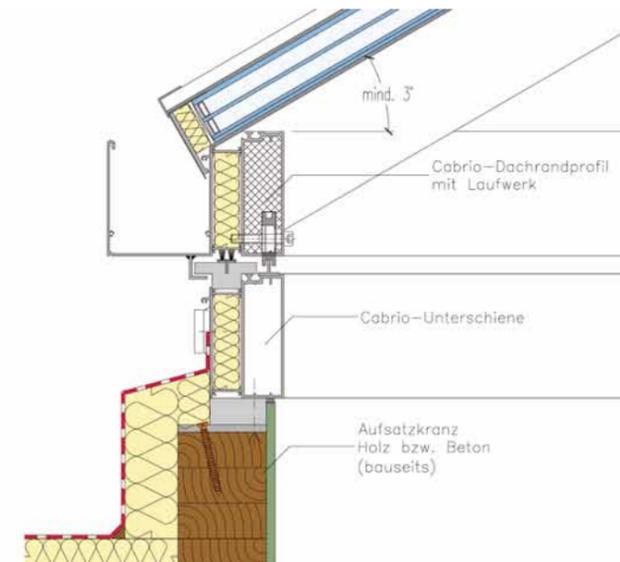
SD Ca 0101



French casement sliding roof
– partially open –

SD CA 0100

Vertical cross section
Detail: guide rails –
edge section of the roof



SD CA 0102

Sunshine welding technology – the advantages in comparison with a screw system



Aesthetics

- visual impression of being „cast in one piece“
- slim profiles
- filigree construction
- seamless joints
- rounded profile transitions
- delicate eaves gutters
- no stiffening frames or outside carrying construction



A limitless variety of shapes

- implementation of demanding architecture
- fulfilment of all design wishes
- modern and historical roof shapes
- elegant detail solutions
- discreet implementation of light sources in the rafters



Greatest possible stability

- spacious and homogeneous bearing structure
- self-supporting, torsion-resistant structure
- massive profile walls
- welded joints instead of screw-in or plug-in joints
- perfect wind-resistance bracing, even in extreme weather conditions



Short assembly time

- completely prefabricated
- assembly of the structure is usually one day
- assembly largely independent of weather conditions
- schedule reliability for future construction works



The best thermal insulation

- values up to a U value of 0.8 W/m²K
- internally developed thermal insulation profile/sealing system
- low energy consumption
- low heating cost
- comfort in any season



Simple care and maintenance

- time and cost savings
- low care requirements due to narrow, flat glass profiles
- maintenance-free structure



Almost limitless service life

- resistant and stainless materials
- seawater-resistant aluminium alloys
- conservation of value through the use of ageing-resistant materials
- durable air-tightness through the use of a flexible tightness system

10 reasons for Sunshine products:



Decades-long market presence

Tradition, innovation and vision mark the company's history. This gives you security.



Qualified expert personnel

Constant education and further training both in and outside the company ensures technical progress and advantage.



Production + marketing without detours

All products are obtained directly and without detours via distributors – directly from the manufacturer.



Engineer – architect services

Building application processing, detailed planning with related services and all supporting documentation for building regulations.



Aluminium welding technology

Delicate, stable supporting structures, complete design freedom and an appearance of being „cast in one piece“.



Innovative technology

Symbiosis of aluminium welding technology and EcoSun equipment.



Professional management

Comprehensive support from Sunshine engineers from the consulting stage to delivery.



Offer with fixed price guarantee

After determining a design and equipment concept, we formulate a fixed price offer.



Short assembly times

Prefabricated, large-format roof and wall elements offer time savings and schedule security.



Exclusive and individual tailored designs

Uniqueness, an appealing design and a high level of quality make for prestigious constructions with lasting value.



FineArt, SunArt and DekoArt conservatories



Sunroofs



Roofings



Panorama roof top windows



OpenAir sliding roofs



OpenAir roof top windows



Verand sliding roofs



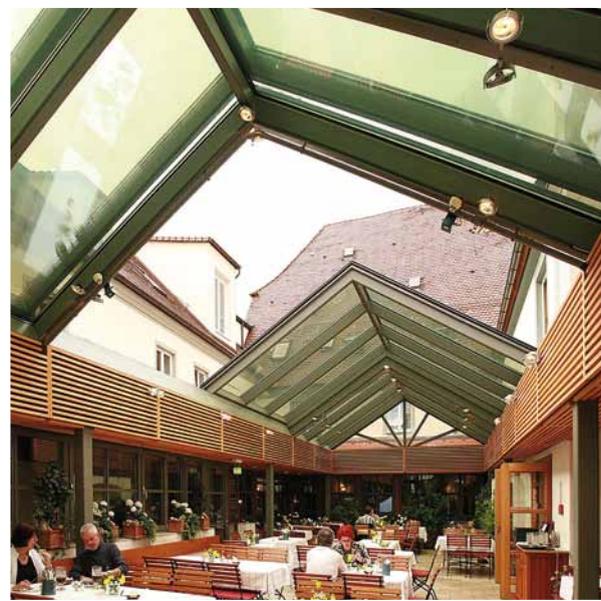
S variant roof top windows



Cabrio sliding roofs



Vertikal sliding roofs



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