



extended

retracted

Over 30 years of experience with

Sun protection
in historic preservation



GROUP
SOLARMATIC®
IHR SONDERBAU-EXPERTE
DENKMAL-SONNENSCHUTZ.DE



Overview Flat windows



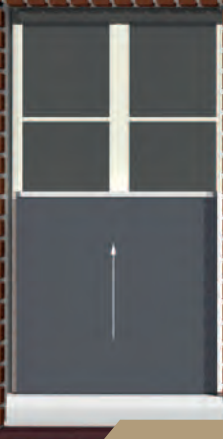
1.45

Maximum width	240 cm
Maximum height	260 cm
Cassette	ohne
Guide rail	Cord
Drive	 



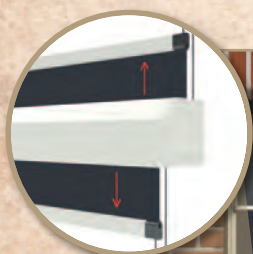
UNO 95

Maximum width	250 cm
Maximum height	250 cm
Cassette	9,5 cm
Guide rail	Cord
Drive	 



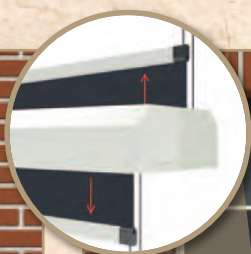
UNO 160 XL

Maximum width	400 cm
Maximum height	700 cm
Cassette	16 cm
Guide rail	Rail
Drive	



Vertical awning

Maximum width	250 cm
Maximum height	150 + 150 cm
Cassette	H 9,5 x T 9,5 cm
Guide rail	Cord
Drive	



Vertical awning Duo

Maximum width	250 cm
Maximum height	250 + 250 cm
Cassette	2 Cassettes H 9,5 x T 19 cm
Guide rail	Cord
Drive	

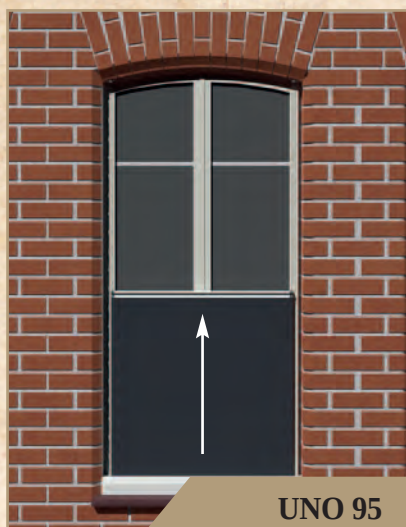


75er

Maximum width	280 cm
Maximum height	230 cm
Cassette	H 7,5 x T 7,5 cm
Guide rail	Cord
Drive	  



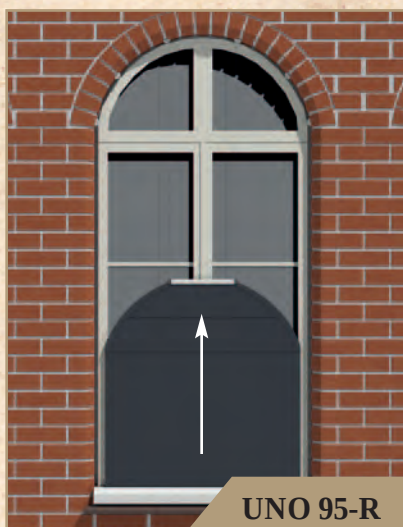
Overview arched windows



UNO 95

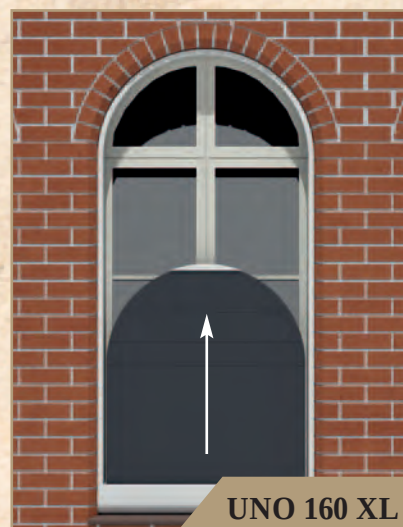
straight
250 cm

Maximum width	250 cm
Maximum height	250 cm
Cassette	9,5 cm
Guide rail	Cord
Drive	



UNO 95-R

Maximum width	250 cm
Maximum height	250 cm
Cassette	9,5 cm
Guide rail	Cord
Drive	



UNO 160 XL

Maximum width	400 cm
Maximum height	700 cm
Cassette	16 cm
Guide rail	Perimeter frame
Drive	



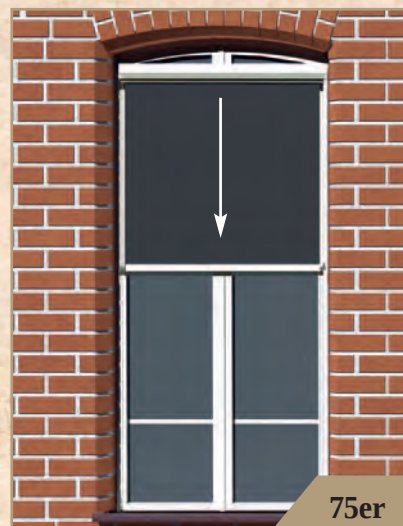
Vertical awning

Maximum width	250 cm
Maximum height	250 cm
Cassette	H 9,5 x T 19 cm
Guide rail	Cord
Drive	



Vertical awning Duo

Maximum width	250 cm
Maximum height	250 + 250 cm
Cassette	H 9,5 x T 19 cm
Guide rail	Cord
Drive	



75er

Maximum width	280 cm
Maximum height	230 cm
Cassette	H 7,5 x T 7,5 cm
Guide rail	Cord
Drive	





Integrating 16 m² arched window awnings harmoniously into the historic façade presented new challenges for us as well. The Berlin Johannesstift (built in 1907), with its 75-hectare campus, is considered the largest faith-based healthcare and social services organization in the region.



Fabric recommendation:
SOLTIS 92



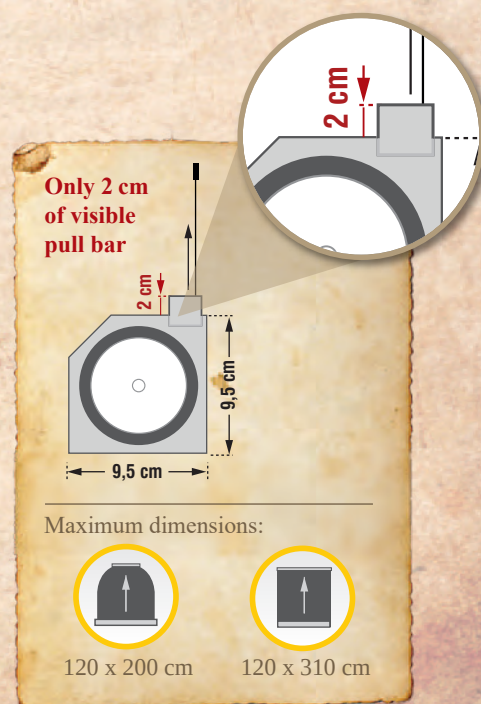
Counter-pull awning UNO 95.3



New ideas—yours and ours—are part of our daily business, and have been for 34 years. This is how the new counter-pull awning UNO 95.3 was developed, with a clear priority: to reduce the visible pull bar and minimize the fabric gap.



Interior view: UNO 95-R
with arched configuration





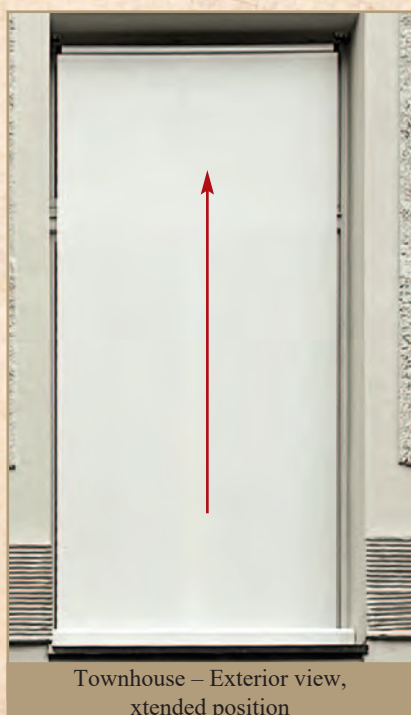
Counter-pull awning UNO 95.2



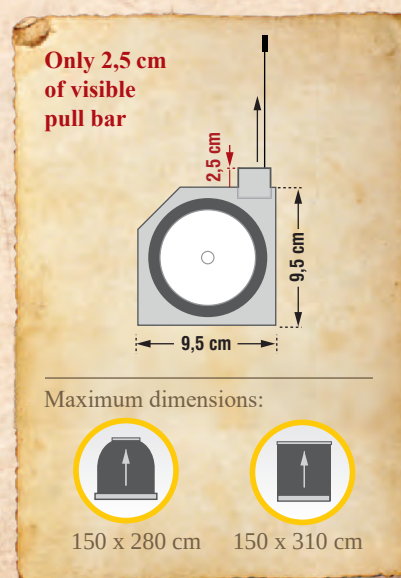
Innovative, cable-guided counter-pull awning system extending from bottom to top. [The fabric used is Soltis 92 textile screen](#), offering excellent thermal and visual comfort.



Townhouse – Interior view,
extended position



Townhouse – Exterior view,
xtended position

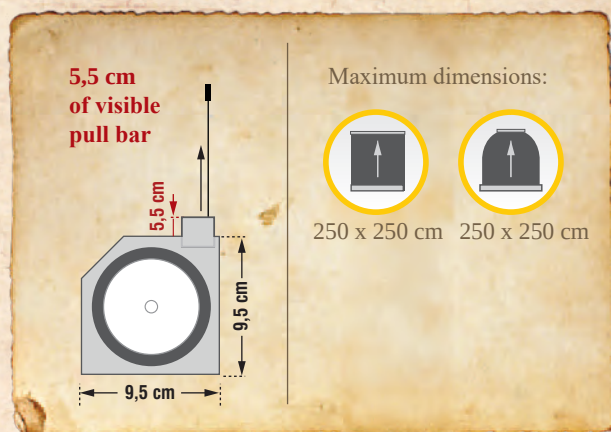
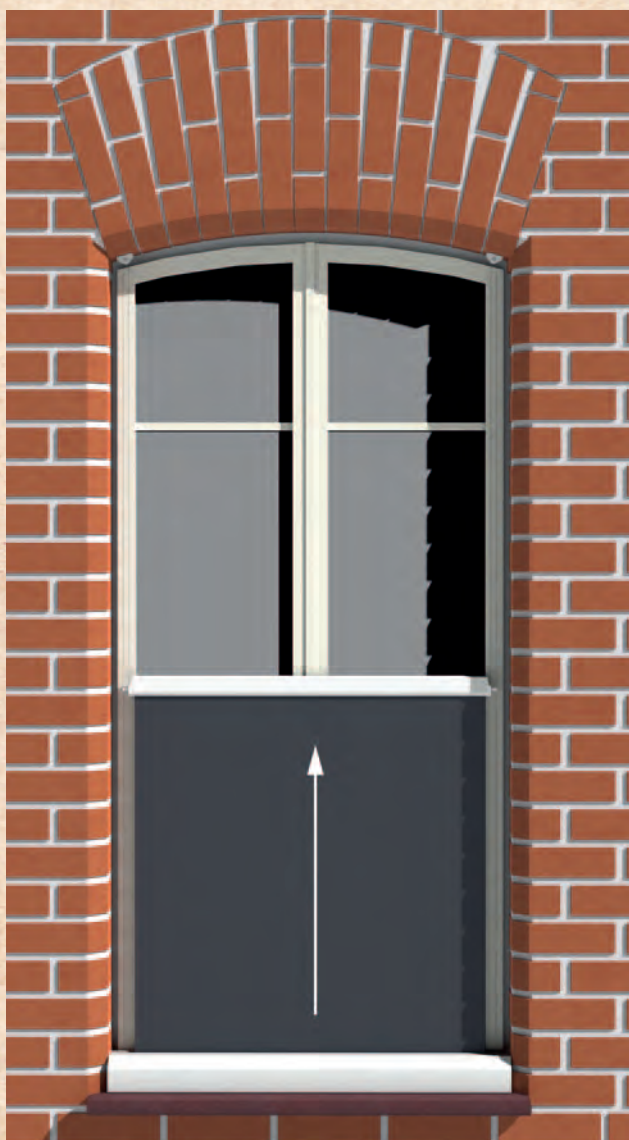




counter-pull awning UNO 95 S with cable guidance

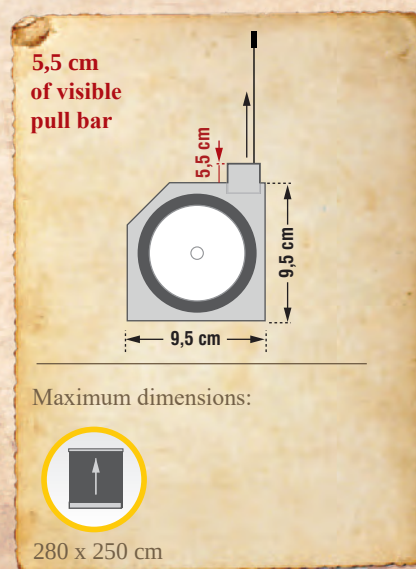


Anyone planning to renovate a listed property of their own may face substantial fines if they fail to comply with the heritage protection approval process.



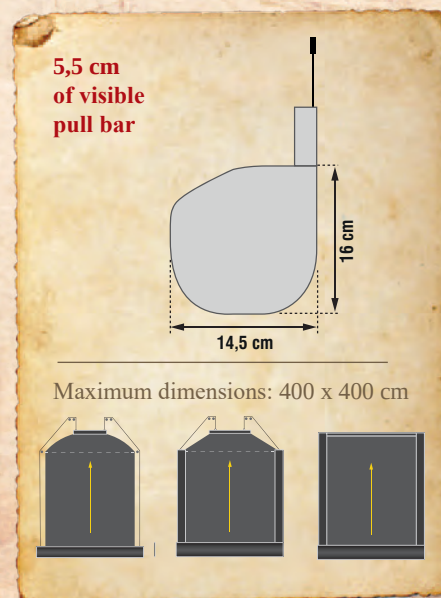


Counter-pull awning UNO 95 F with guide rail



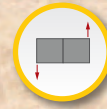


Counter-pull awning UNO 160 XL (Interior / Exterior)





Transom-mounted counter-pull awning 2-roller system



Cassette
19 x 9,5 cm



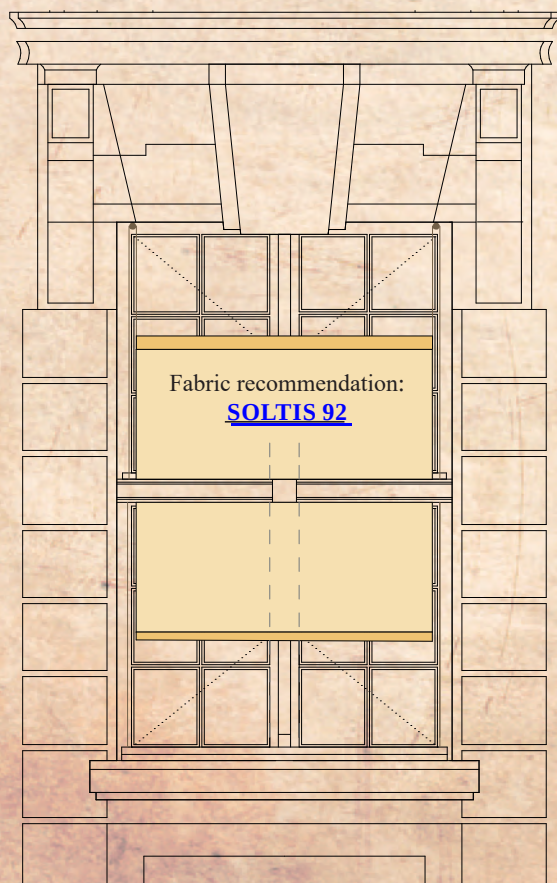
Cassette
9,5 x 19 cm



Counter-pull awning TWIN 95

(Exterior or within the glazing cavity)

Upon request, we can equip the angled cover with a transom-style decorative profile.



Counter-pull awning TWIN 95

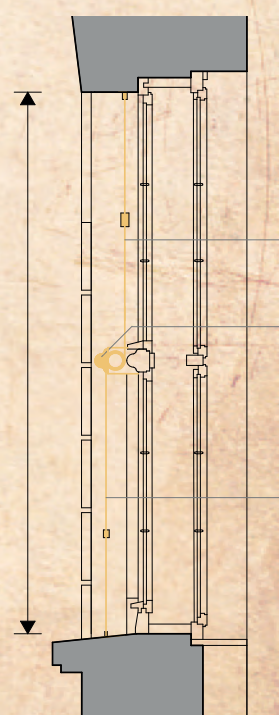
Single-roller system
Installation depth: 9.5 cm × 9.5 cm

Only possible with
synchronized movement



Maximum dimensions:
B 250 x H 150 + 150 cm

side view





slim vertical awnings type 1.45 M

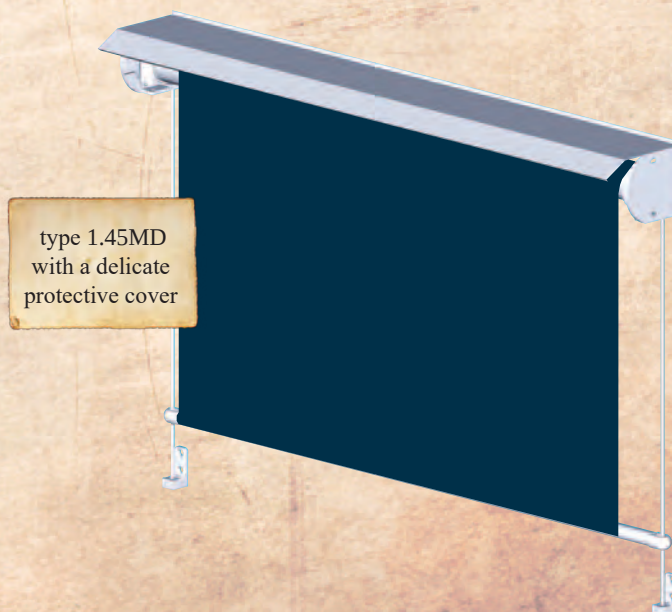


The compact dimensions of the SOLARMATIC® exterior blind Type 1.45 M allow for discreet integration into the façade. There are no limits when it comes to operating comfort. Timeless, light-transmitting textile screens are used as shading fabrics.

Up to 240 cm width / with 63 mm roller tube



Example: Berlin House of Representatives



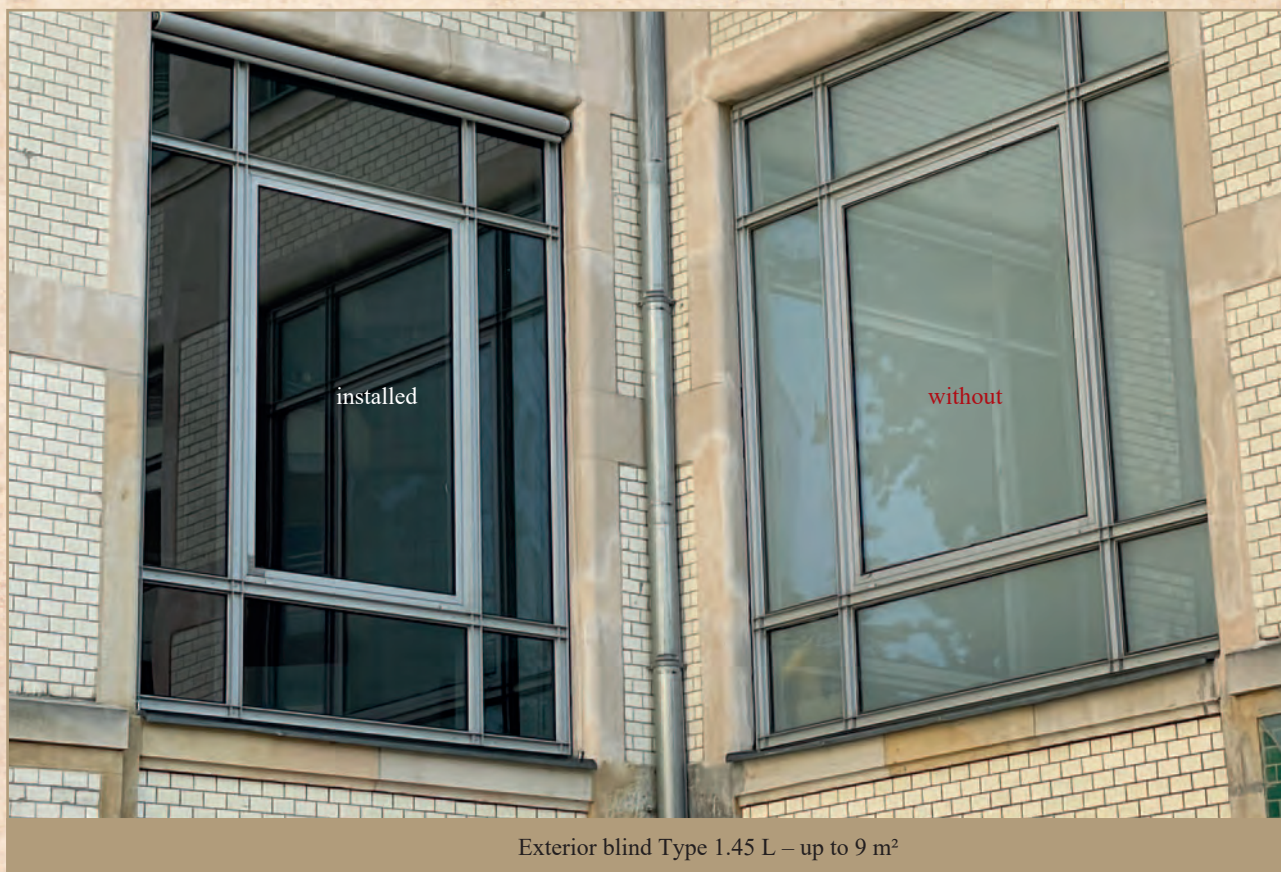
type 1.45MD
with a delicate
protective cover



vertical awnings type 1.45 L



Maximum dimensions: 300 x 300 cm (larger sizes available on request)





Slim cassette awning type 73ER | 75ER



With SOLARMATIC® compact vertical blinds, you can improve the energy efficiency of your windows while enabling glare-free work at computer workstations.



Interior view (unrolled)



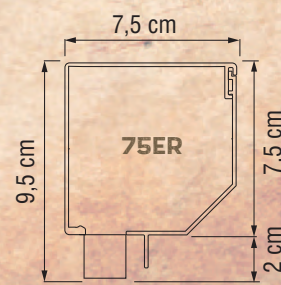
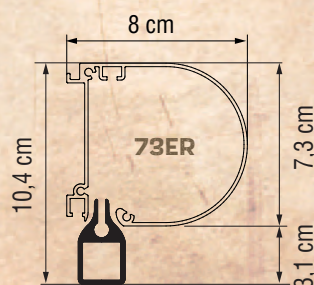
Exterior view (7.3 cm cassette, retracted into the reveal)



Marie Curie Grammar School Ludwigsfelde



Window awning with solar power (95 series system)





Additional façade awnings



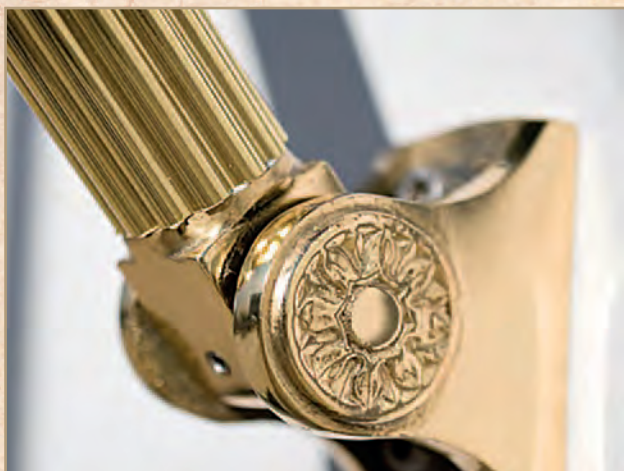
Premium drop-arm awnings by SOLARMATIC® with aluminum, steel, or brass frames adorn elegant façades. Hand-forged and twisted drop arms, along with fabrics embellished with gold pigments, create a visual highlight for every observer. This preserves the charm and style of bygone eras while seamlessly blending with the functional character of today's buildings.



Drop-arm awnings



Drop-arm vertical awnings



Drop-arm awning with brass frame



Weather protection roller blinds – Altfriedland Monastery Ruins



Sun protection for arched windows



Retractable sun protection for historic arched windows

Our goal:

To integrate summer thermal protection into the building envelope as discreetly as possible!

We have been meeting the challenge of integrating sun protection as discreetly as possible for years. Our focus lies in maintaining the functionality of interior spaces while preserving the architectural façade. International references and continuous exchange of experience are key drivers in the development of our products.





Our fabric recommendations:



BICOLOR

System series: [1.45 M](#) / [1.45 L](#), [FM 75](#)



9400 white (outside) / black (inside)



P002007 dark grey



P002008 beige

SOLTIS 92

System series: all



92-2047 anthracite



92-2171 pebble



92-2044 white

SERGÉ 1 %

System series: [1.45 M](#) / [1.45 L](#) / [FM 73](#) / [FM 75](#)



010010 charcoal / charcoal



007007 pearl grey / pearl grey



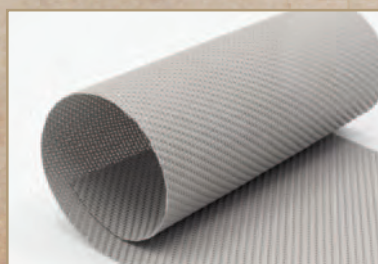
002002 white / white

SERGÉ 600

System series: [1.45 M](#) / [1.45 L](#) / [FM 73](#) / [FM 75](#)



S600/010010 charcoal / charcoal



S600/007007 pearl grey / pearl grey



S600/002002 white / white

More **information** and additional colors available at: www.Textilscreens.de





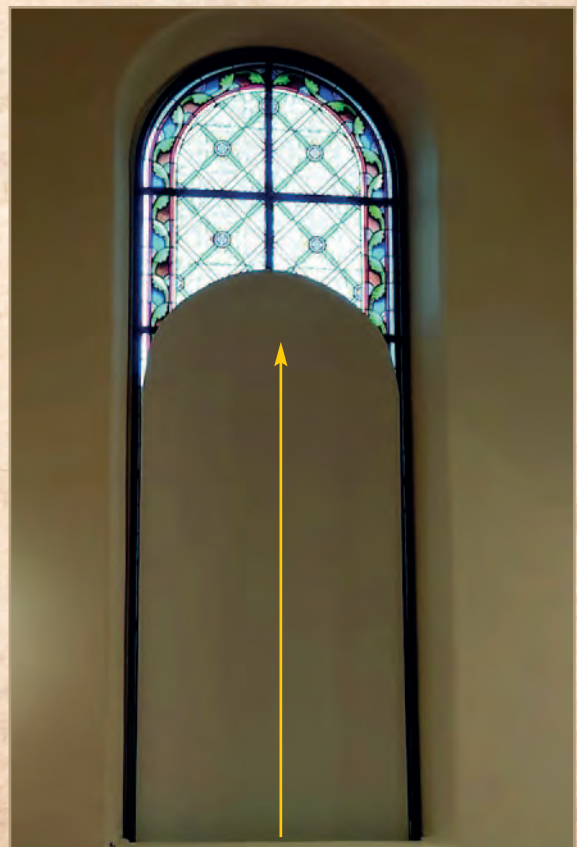
Blackout roller blinds



System UNO 160 at the Peter Edel Cultural Center



Ceiling-mounted shading system in London



Church Windows in Rohrbach, Switzerland



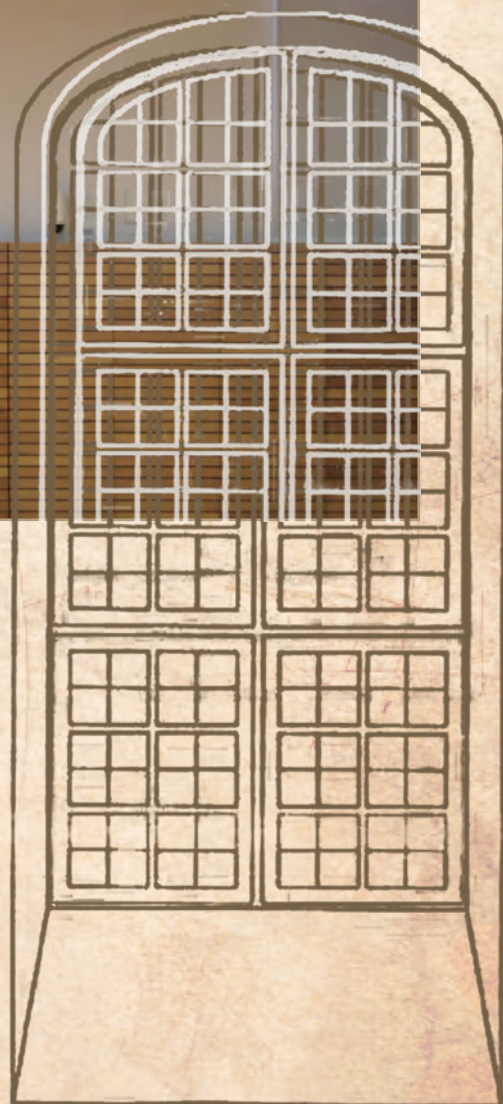
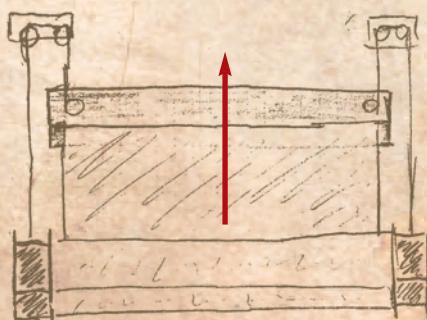
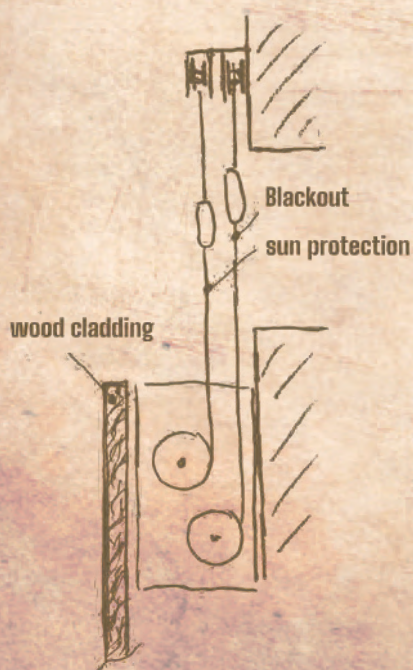
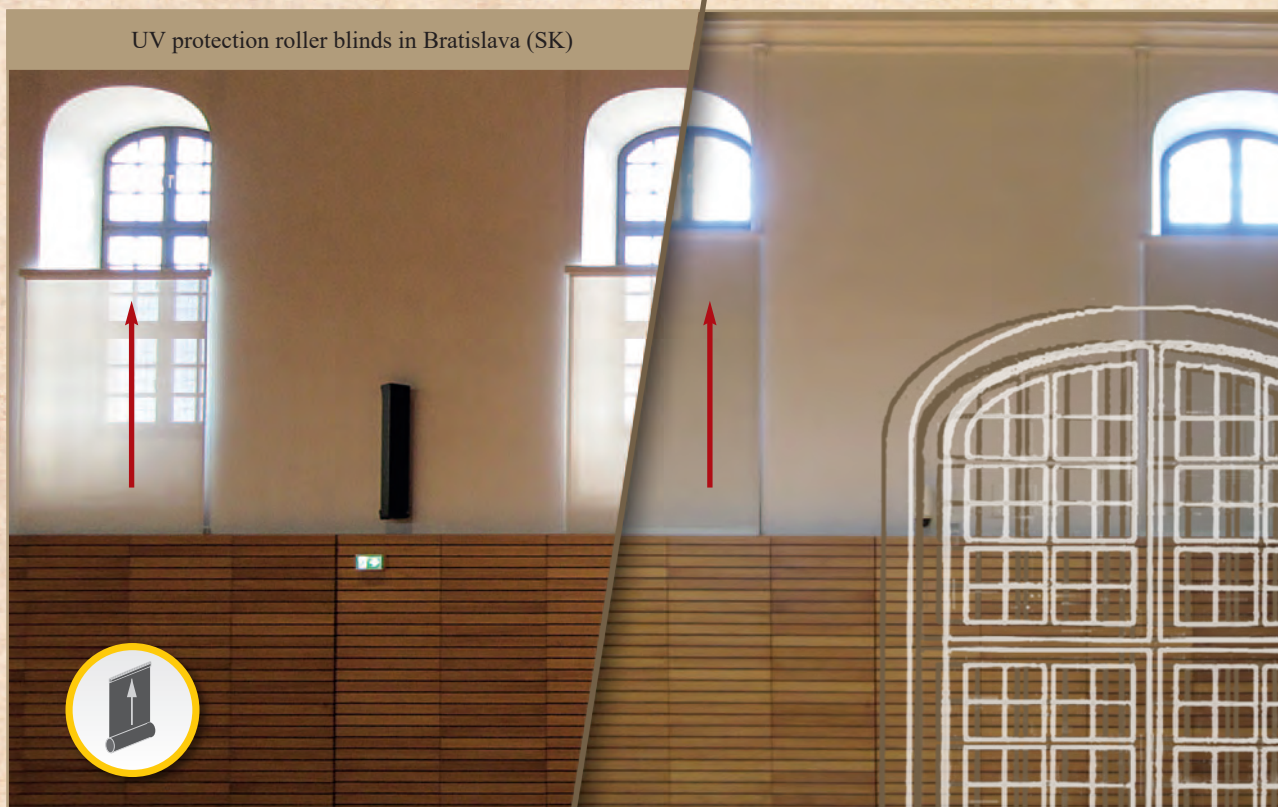
Daylight roller blinds

as UV and sound protection



Historic buildings were not originally designed with computer workstations in mind and therefore had no need for glare protection. Today, however, many of these heritage structures serve new purposes. Whether it's a museum, hospital, university, castle, or hotel – virtually all now require at least one PC workstation. At SOLARMATIC®, we take into account the demands of contemporary usage and the specific requirements of modern screen-based work environments.

UV protection roller blinds in Bratislava (SK)





Courtyard shading

We have a particular passion for technically and structurally demanding requirements in heritage conservation. This has led us to tailor our manufacturing program toward products that go beyond standard formats.



Insect protection frames for windows with decorative profiles



accessible site measurement



Design Department



heritage expertise

Thanks to counter-tension technology, we are able to realize systems with lengths of up to 36 meters.



sunscreen



Privacy protection



Glare protection



blackout



sound insulation



Insect protection



Special solutions

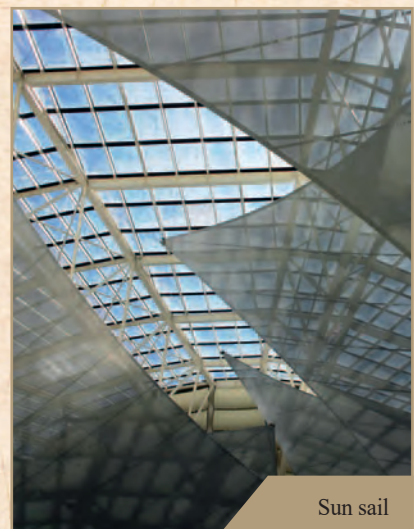
Whether it's transparency, glare protection, privacy, or blackout: SOLARMATIC® is your expert partner for textile screens. Learn more at: www.Textilscreens.de/gewebe



for skylight strips



for curved roof glazing



Sun sail



Support in planning customized sun protection solutions

XXL roller blinds are the umbrella term for extraordinary sun protection solutions. These systems can be sloped or curved, and include unconventional movement directions such as horizontal, bottom-up, or lateral operation.



inside the box-type window glazing cavity



Interior [Thermo-Screens](#) have proven highly effective in the energy-efficient refurbishment of box-type windows. For this purpose, we install roller blinds within the glazing cavity, which can also be configured with three individual fabric panels.



Example: Berlin State Library



Example: Duchess Anna Amalia Library in Weimar



Mini cassette roller blinds

installation from 3.3 cm height



SOLARMATIC® [Thermo-Screens](#) reflect and absorb more than

90% of solar radiation

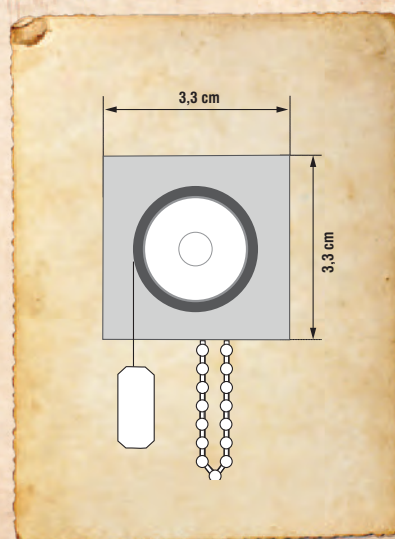
They reflect solar radiation and achieve very low Fc values. This means that in many cases, the façade does not need to be altered by external shading systems. Preserving its historical, scientific, technical, artistic, urban, or cultural significance is our top priority.



Thermal roller blind integrated into stucco



Highly reflective mini cassette roller blind SOLARMATIC



Integrated window blinds



Vertical blinds



Panel curtains



Internal sun protection



Reflection-coated fabrics



Blinds for composite windows



Thermal roller blinds
in box-type windows



Panel curtains



Vertical blinds



The two building physics parameters in solar shading...



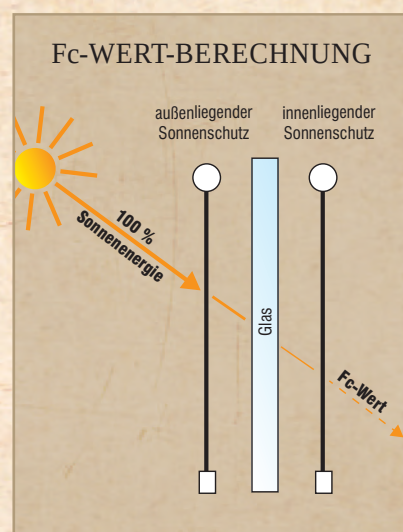
Fc value and summer thermal protection in historic buildings

Historic buildings were not designed with thermal insulation façades made of Styrofoam, mineral wool, or solar control glazing. Nevertheless, the functions of former factories are changing — into lofts, courthouses, or training centers. According to workplace regulations, the maximum permissible indoor temperature is 26 °C. This creates considerable potential for conflict between tenants and landlords. On the other side stands the architect, balancing these demands with the interests of the heritage conservation authority.

In general, the exterior appearance should not be compromised by bulky cassette covers in the lintel area. SOLARMATIC® solutions for summer thermal protection in heritage buildings offer a more elegant alternative. Our façade awnings operate from bottom to top using delicate cable guides instead of protruding side rails. The Fc value must always be determined in relation to the glazing.

We are happy to provide this service for you free of charge. To do so, we require the U-value and g-value of the glazing. If already available, a specified Fc value would also be helpful. As a general rule: the poorer the glazing performance, the more effective a high-performance internal shading system becomes — such as a reflective pleated blind (foil pleated blind).

From the outside, there are no issues—except for the visual impact on the façade. With over 34 years of experience, we have successfully implemented functional and reversible solar shading solutions for every heritage building we've worked on—always achieving a strong Fc value.



G_{TOT}: Total solar energy transmittance

The total solar energy transmittance (g-value) measures the energy permeability of a transparent building component, such as glazing.

It represents the sum of direct solar radiation transmitted through the material and the inward heat release via radiation and convection. The lower the g-value, the less solar heat enters the building.

To verify and calculate summer thermal protection, the total solar energy transmittance (g_{tot}) is determined as the product of the glazing's g-value and the reduction factor (Fc) of the selected shading system.

We are happy to advise you on the most suitable summer thermal protection for your historic building!

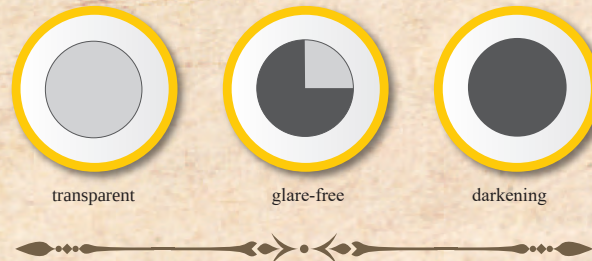


www.denkmal-sonnenschutz.de/galerie





What is an **openness factor (OF)** in textile screens?

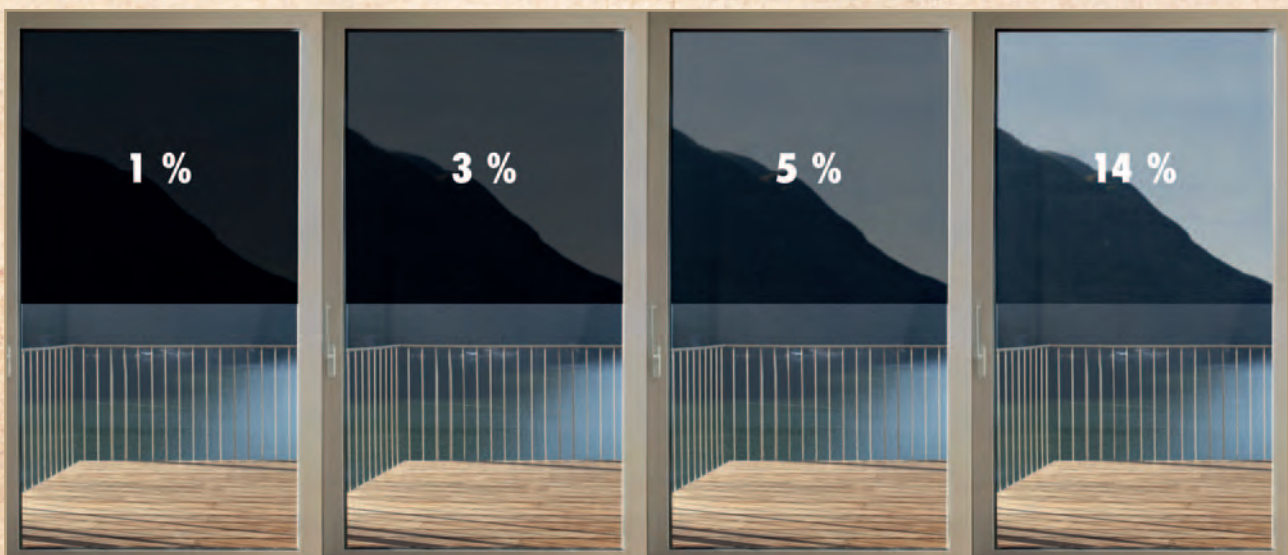


Solar shading with visibility

Textile screens are wind-resistant solar shading fabrics with multifunctional properties. Light-transmitting textile screens offering high visual and thermal comfort are right on trend. Innovative weaving technologies have given these contrast-rich and rot-resistant fabrics a distinctly more textile character. Enjoy the beautiful sides of life now – with the wide range of textile screens from SOLARMATIC®!

Types of shading fabrics with different openness factors (OF)

- [Transparent solar shading](#)
- [Light-transmitting solar shading](#)
- [Glare-free solar shading](#)
- [Blackout solar shading](#)



Experiences with [textile screens](#):

- Excellent visual and thermal comfort
- Wind-resistant and dimensionally stable fabric
- Easy-care and equipped with anti-static properties
- Flame-retardant fire protection rated B1 or A2
- Also suitable as insect protection

SOLARMATIC[®] is a fully integrated, medium-sized, family-owned company – offering complete product development, in-house manufacturing, and factory installation.



www.Denkmal-Sonnenschutz.de

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