

Always live in the
right light.

WAREMA external venetian blinds



Der SonnenLichtManager



WAREMA external venetian blinds for individual sun protection



As a manufacturer of sun shading systems for buildings and rooms, WAREMA produces pioneering solutions that are technically superior and are designed to meet the individual requirements of your property, thereby improving the energy balance of buildings, the value of your property and your own quality of life.

This brochure provides an initial overview, allowing you to find your way around the wide and varied choice of external venetian blinds and their individual fields of application.



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- Facade venetian blinds
- vivamatic®
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- Top-mounted external venetian blinds for new buildings
- Asymmetrical external venetian blinds

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- Slat function
- Cover panels
- Bottom rails
- Guide rails
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The right products for your dream house

We develop and produce modern and functional sun shading system solutions which enable an active SunLightManagement. We rely very consciously on the strengths of a family-owned company based in Germany. As a full-range provider we deliver expert solutions from a single source the quality of which you can rely on. Our actions and approach are consistently geared towards increasing customer benefit. To this end we now offer a growing range of products and performances tailored to your requirements.



Especially our varied and innovative product developments of experienced experts, our high quality standard, the individually manufactured products and the extensive services are essential for our position as leading SunLight Manager.

The most modern manufacturing technique and handwork are equally important for our manufacturing of the sun shading control systems depending on order, whereas the aspects sustainability and protection of the resources are taken into consideration for all processes. Apart from first-class products we offer a comprehensive range of services our expert partners which supports their daily work.

We offer various possibilities for external heat protection, internal glare control and control systems to contractors – from the choice from our wide range of products through to individual special solutions. We can guarantee complete professional advice and comprehensive information about our products that take into account current energy saving regulations and recent developments in standards for the building sector.



Sun protection from A to Z

Unattractive and boring purpose-built buildings are a thing of the past – continuous glazed facades and special shapes have become a staple of modern architecture. The desire for individual style is constantly growing. This new diversity also demands a similar diversity of sun shading systems. WAREMA offers an individual and perfect solution for every architectural style – both indoors and outdoors.



External venetian blinds

Venetian blind facade systems, metal system venetian blinds, venetian blind window systems, front-mounted external venetian blinds, top-mounted external venetian blinds for new buildings, asymmetrical external venetian blinds, wind-stable external venetian blinds, daylight guiding venetian blinds

Roller shutters

Front-mounted roller shutters, top-mounted roller shutters, top-mounted roller shutters for new buildings, renovation roller shutters, asymmetrical roller shutters, security roller shutters



Large slats

Single-walled slat systems, hollow slat systems, large slat systems

Internal sun shading systems

Venetian blinds, vertical louvre blinds, roller blinds, pleated blinds, panel curtains, sun protection for skylights



Patio awnings

Articulated arm awnings, cassette awnings, conservatory awnings, patio side screens, canopy awnings, horizontal awnings

Pergola awnings and patio roofs



Window awnings

Window awnings with ZIP guidance, vertical awnings, facade awnings, drop-arm awnings, markisolettes

Sun sail



Insect screens

Fixed frames, swivel frames, sash frames, roller blinds, insect screen pleated blinds, light well covers

Black-out blinds

Vertical black-out blinds, horizontal black-out blinds, ZIP black-out blinds

Control systems

Radio systems, central control systems, WAREMA climatronic® 2.0, sensor, KNX technology, LonWorks® technology, BAline

WAREMA OPTI SYSTEM

Room climate intelligently controlled



Optimal sun shading systems and significant energy savings are interesting aspects for any home owner today. The WAREMA OPTI SYSTEM provides the ideal room temperature – pleasantly cool in summer and cosily warm in winter. Fully automatic with maximum comfort. With existing heat protection glazing, the combination of external adjustable sun shading systems, internal glare control and intelligent control saves up to 40 percent of energy costs.

Further information can be found at www.warema.com/optisystem

External sun shading systems

External WAREMA sun shading systems reduce solar incidence of energy. Incidence of light is optimised to allow for sufficient daylight utilisation without glare. The concept is simple: Depending on time of day or year more or less sunlight is allowed in and the system uses more or less of the possible solar energy gain.



Internal sun shading systems

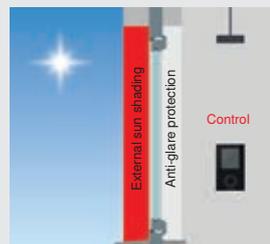
The internal WAREMA product provides additional glare control all year round, providing comfort and a high level of convenience. Visual privacy or view out can be individually adjusted. High-grade materials and a varied colour palette provide each room with an individual style.

Intelligent control system

WAREMA control systems create the ideal room climate with optimum daylight utilisation. They make use of solar energy according to demand and around the clock.

Summer daytime

Solar incidence of energy has to be kept low on a hot summer day. Incidence of light should be high enough to allow for sufficient daylight utilisation without glare. Additional internal glare control can be used where requirements are especially high.



Summer nights

At the end of a hot summer day the building will have heated up. At night the control raises all existing sun shading system components which block the heat flow from the inside to the outside. This supports the building cooling down.



Winter daytime

Solar energy gains should be used on a cold winter day. When the sun is low the requirements for glare control are especially high. Only internal glare control with low transmission is used. Dark colours ensure that a large quantity of solar energy can be used.



Winter night time

During the cold winter night the building has to be protected from heat loss. This requires all sun shading products to be lowered. The resulting air pockets between the individual components improve heat insulation.





Increase energy efficiency – with WAREMA sun shading system

Increasing quality of life, saving energy and lowering CO₂ emissions: Modern sun shading systems offer huge potential for protecting the climate and using fossil fuels economically: When used consequently, an intelligently controlled sun protection saves energy for cooling, heating and artificial lighting.

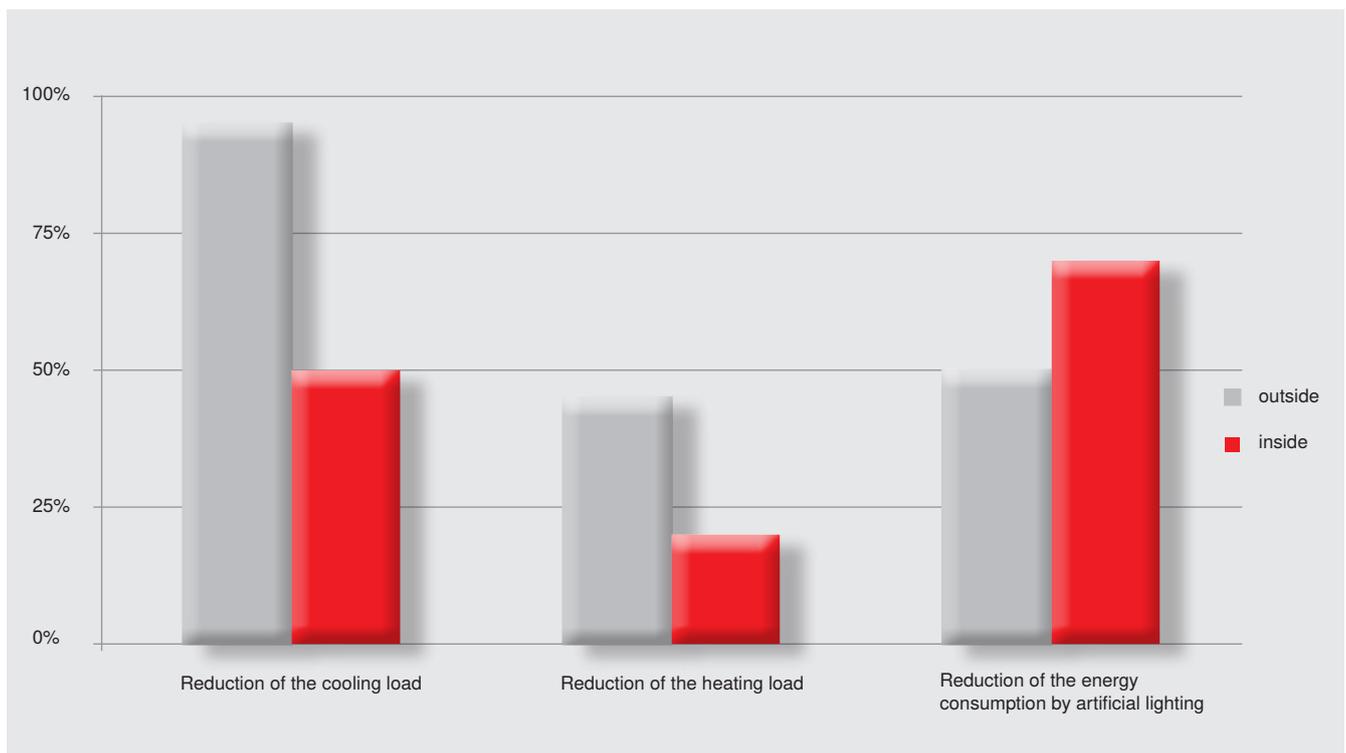
Energy savings with technical sun shading system

Around 40 % of the energy requirement of a European home is used for lighting, heating, cooling and ventilation - half of it for heating alone! According to a study by the European Solar-Shading Organization (ES-SO), around 110 million tons of CO₂ could be saved in the EU alone with an efficient sun shading system in connection with an intelligent control solution. This is a key issue in terms of the energy saving regulations and its consequences for builders and home owners.



The trend towards bigger glass surfaces makes sun protection essential. On summer days the sun protection reduces the heating of the rooms and during winter nights the cooling of the rooms is reduced. The daylight can be used in such a way that artificial lighting becomes superfluous. The personal well-being is increased and the energy costs are reduced.

Energy savings with technical sun shading systems in connection with an intelligent control system



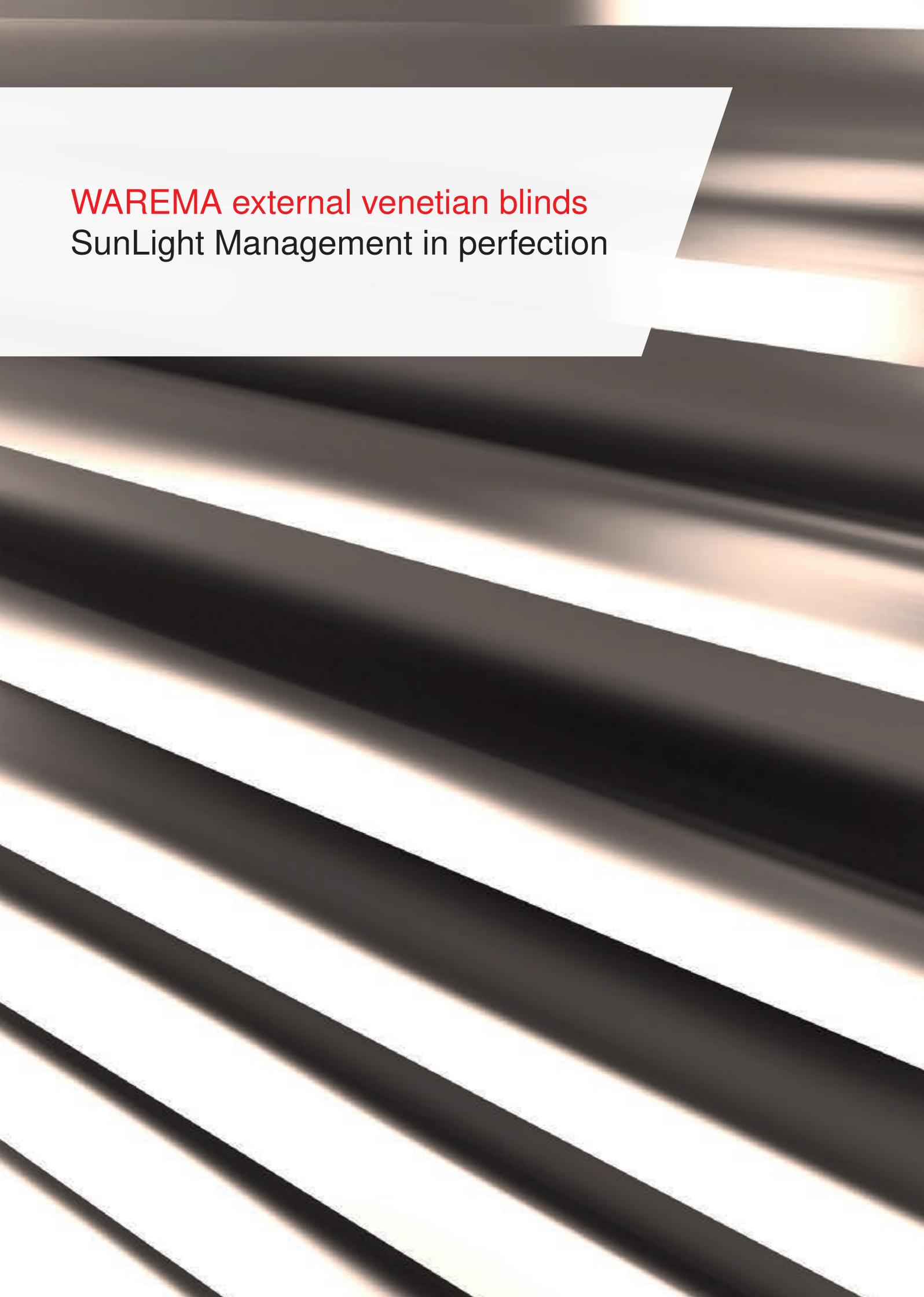
The sun can't be controlled,
but it can be managed.



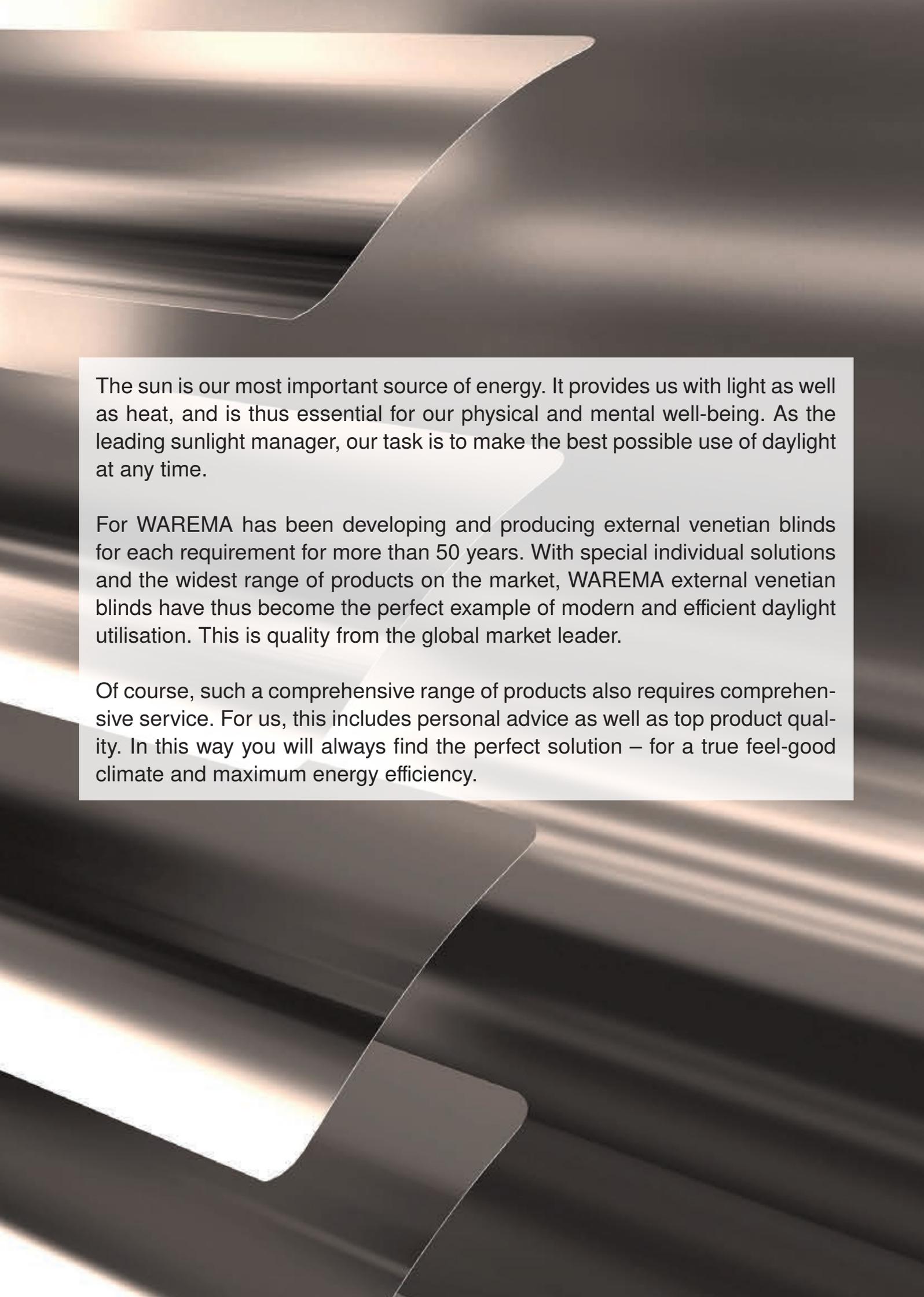
Der SonnenLichtManager

As important as sunlight is for all of us, people still need products and technologies that create a comfortable atmosphere. These days a tap of the finger is often all it takes to supply any room with just the right lighting – for a better quality of both work and life. It's a big part of what we're working on at WAREMA.

Our goal is to develop customer oriented solutions with a continuously expanding range of products featuring superior quality. As a manager, we also see it as our job to provide comprehensive advising and the fastest possible delivery while offering customised manufacturing. For us, fair cooperation at every level of the business relationship is a fundamental part of the process.



WAREMA external venetian blinds
SunLight Management in perfection



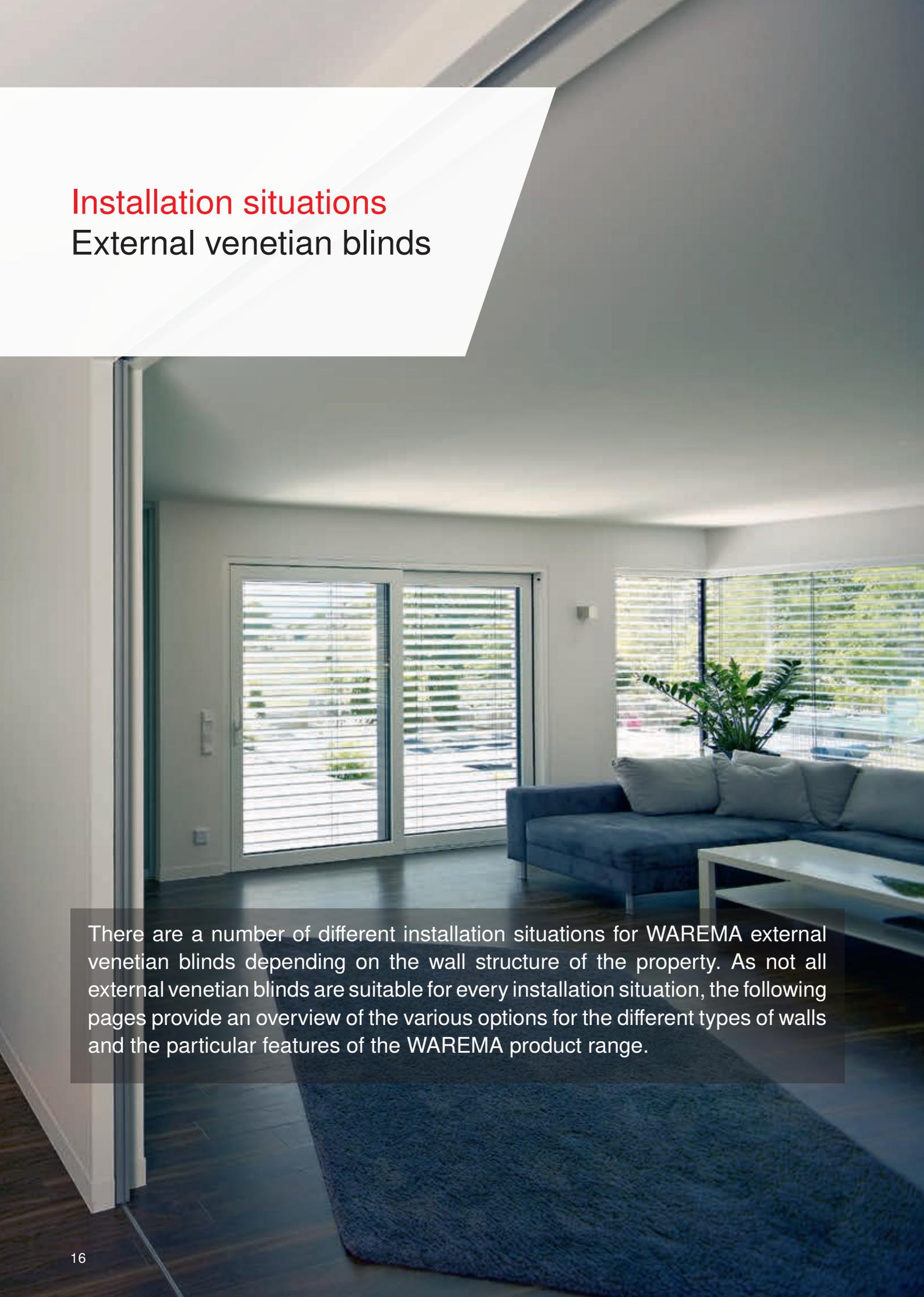
The sun is our most important source of energy. It provides us with light as well as heat, and is thus essential for our physical and mental well-being. As the leading sunlight manager, our task is to make the best possible use of daylight at any time.

For WAREMA has been developing and producing external venetian blinds for each requirement for more than 50 years. With special individual solutions and the widest range of products on the market, WAREMA external venetian blinds have thus become the perfect example of modern and efficient daylight utilisation. This is quality from the global market leader.

Of course, such a comprehensive range of products also requires comprehensive service. For us, this includes personal advice as well as top product quality. In this way you will always find the perfect solution – for a true feel-good climate and maximum energy efficiency.

Installation situations

External venetian blinds

A photograph of a bright, modern living room. The room features large windows and a glass door, all of which are covered with external venetian blinds. The blinds are white and have a horizontal slat design. The room is furnished with a blue sofa, a white coffee table, and a large blue rug. A potted plant is visible on the sofa. The room is well-lit, suggesting a sunny day outside.

There are a number of different installation situations for WAREMA external venetian blinds depending on the wall structure of the property. As not all external venetian blinds are suitable for every installation situation, the following pages provide an overview of the various options for the different types of walls and the particular features of the WAREMA product range.



Masonry with composite thermal insulation system

Suitable types

- Venetian blind window systems
- Metal system venetian blinds
- Facade venetian blinds
- Front-mounted external venetian blinds
- Top-mounted external venetian blinds for new buildings
- Asymmetrical external venetian blinds



Monolithic masonry

Suitable types

- Facade venetian blinds
- Metal system venetian blinds
- Top-mounted external venetian blinds for new buildings
- Front-mounted external venetian blinds
- Asymmetrical external venetian blinds



Cavity wall

Suitable types

- Facade venetian blinds
- Metal system venetian blinds
- Top-mounted external venetian blinds for new buildings
- Venetian blind window systems
- Front-mounted external venetian blinds
- Asymmetrical external venetian blinds

Installation situations

External venetian blinds





Facades with timber frame construction

Suitable types

- Facade venetian blinds
- Metal system venetian blinds
- Front-mounted external venetian blinds
- Venetian blind window systems
- Top-mounted external venetian blinds for new buildings
- Asymmetrical external venetian blinds



Transom and mullion facades/ conservatories

Suitable types

- Facade venetian blinds
- Metal system venetian blinds
- Asymmetrical external venetian blinds

Facade venetian blinds

Individual design



These facade venetian blinds can be integrated as elements into virtually any facade. The range of slats, from simple standard slats to extremely wind-stable slats, enables you to design the exterior of your property to suit almost any requirement. Facade venetian blinds are suitable for heat as well as glare protection. However, facade venetian blinds are also used for dim-out using the special dim-out slats.



► Your benefits:

- Maximum number of slat geometry options for different structural requirements
- Numerous slat colours for individual facade accents
- For universal use in all installation situations



Features

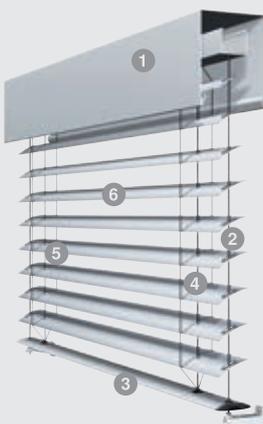
- Construction limit values*:
 - Max. width: 5000 mm
 - Max. height: 5000 mm
 - Max. surface: 25 m²
- Slats:
 - Beaded 60 S/80 S mm,
 - Flat slats 50/60/80/100/150 mm,
 - Dim-out slats 73/90/93 mm
- Available with vivamatic® (VM), slowturn (ST), daylight transport element (TLT)
- Drive: 230 V central motor, solar drive, crank

* depending on type and options

Fields of application and mounting

- On new buildings
- For renovations
- In front of the facade
- In the reveal
- Ventilated facade
- Transom and mullion facade/conservatory
- Double skin facades - inside

E 80 A2 S



E 80 A6 S



Facade venetian blind

- 1 Cover panel
- 2 Lateral guidance
- 3 Bottom rail
- 4 Lifting tape
- 5 Tilting tape
- 6 Slats

Facade venetian blinds

Models for each challenge



External venetian blinds with beaded slats

- Flexible use for practically all installation situations
- Rolled beads improve the stability of the slats
- Visual feature for facade design

Installation situation

- On new buildings
- For renovations
- In the reveal
- Ventilated facade
- Transom and mullion facades/ conservatories
- Double skin facades
- Inside



External venetian blinds with dim-out slats

- Rooms can be dimmed thanks to special slat design
- Maximum stability even in high winds
- Dim-out external venetian blinds retain all the standard functions of external venetian blinds

Installation situation

- In living areas and bedrooms
- Wherever the incidence of light could prove annoying
- On new buildings
- For renovations
- In meeting and conference rooms
- On mullion-transom facades
- In conservatories



External venetian blinds with flat slats

- Delicate design
- Reduced cover panel heights
- Very good view out

Installation situation

- On new buildings
- For renovations
- Transom and mullion facades/conservatories
- In the reveal
- Ventilated facade
- Double skin facades
- Inside



Self-supporting external venetian blinds

- Cover panel fixed to guide rail
- No need for additional fixing of the cover panel to the facade
- Mounting alternatively on or between the guide rails
- Ideal for retrofitting

Installation situation

- On new buildings
- For renovations
- In conservatories
- On mullion-transom facades
- For retrofitting on insulated facades
- As a facade design feature



vivamatic®

Daylight management for external venetian blinds

vivamatic® cannot be seen. But the result can: The intelligent daylight management automatically sets the external venetian blind slats to the ideal angle even before lowering – depending on the current position of the sun, time of day and time of year. This allows vivamatic® to create a haven of well-being, permanently. The slat position continuously and automatically adapts to the position of the sun. External venetian blinds with vivamatic® have benefits for heat regulation as well as for energy savings. The comfortable vivamatic® technology enhances private homes as well as offices and large commercial buildings.



Simple installation and retrofitting

whether new buildings or refurbishment – vivamatic® is possible wherever external venetian blinds are planned. Even where buildings are nearly finished, a decision to install vivamatic® can still be made. This allows you to enjoy tomorrow's quality of life today.

Comfortable control

Simply rely on WAREMA climatronic® 3.0 with sun controlled slat tracking. With the higher-level sun shading control system WAREMA climatronic®3.0 you can set your individually preferred slat angle for all your external venetian blinds. Or you can rely on the control which adapts to the position of the sun and which automatically sets your external venetian blinds to the correct slat angle for the location of your building at any time of day and year.



Maximum daylight utilisation

No matter where the sun is - WAREMA external venetian blinds with vivamatic® create a true feel-good climate and offer you the highest level of comfort in your home.



Metal system venetian blinds

Customised perfection

Are you looking for a particularly exclusive solution? Then the WAREMA metal system venetian blind is the right choice. Metal components guarantee an especially elegant appearance and will convince you all along the line. This design also makes it possible to achieve more precise positioning of the individual slats, clearly improving dim-out function and light gain. Compared to standard solutions, metal system venetian blinds have a high-quality appearance, and the absence of holes in the slats reliably prevents distracting dots of light.



► Your benefits:

- Improved dim-out through the absence of holes for lifting tapes
- No visible lifting components
- The design of the bottom rail makes it difficult to push up the lowered external venetian blind and prevents jamming when obstacles are encountered



Features

- Construction limit values*:
 - Max. width: 4000 mm
 - Max. height: 4300 mm
 - Max. surface: 10 m²
- Slats:
 - Dim-out slat 90/93 mm
- Available with daylight transport element (TLT)
- Drive: 230 V central motor

* depending on type and options

Fields of application and mounting

- On new buildings
- For renovations
- As a facade design feature
- In living areas and bedrooms
- Wherever the incidence of light could prove annoying
- On mullion-transom facades
- In conservatories

Metal system venetian blind



Lifting chain



- 1 Top rail
- 2 Guide rails
- 3 Slats
- 4 Plastic-coated steel wire cords
- 5 Bottom rail
- 6 Lifting chain

Venetian blind window systems

Perfect sun protection, optimally integrated



Venetian blind window systems can be integrated unobtrusively or as a visible element into the facade. Since the units can seamlessly be integrated into exterior insulation and finish systems (EIFS), these external venetian blinds fulfil the continuously increasing heat protection requirements. Besides classic guide profiles, external venetian blinds with delicate cable guidance or a combination of cable and guide rails are possible.



► Your benefits:

- Concealed or visible integration into the facade
- No need to fix additional cover panels – preventing cold bridges
- Front guide profiles can be fully set in plaster
- integration of insect screens possible



Features

- Construction limit values:
 - Max. width: 4000 mm
 - Max. height: 4000 mm
 - Max. surface: 16 m²
- Slats:
 - Beaded 60 S/80 S mm
 - Flat slats 60/80 mm
 - Dim-out slats 73/90/93 mm
- Available with vivamatic® (VM), slowturn (ST), daylight transport element (TLT)
- Drive: 230 V motor

* depending on type and options

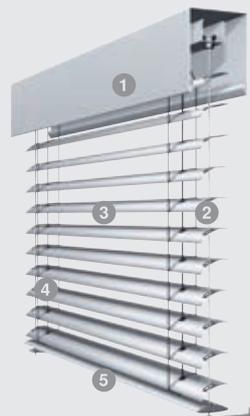
Fields of application and mounting

- On new buildings
- For renovations
- As a facade design feature
- In living areas and bedrooms
- Wherever the incidence of light could prove annoying

FSR P with cover panel in flush mount version



FSR E with visible cover panel



- 1 Cover panel
- 2 Lateral guidance
- 3 Slats
- 4 Tilting tape
- 5 Bottom rail

Front-mounted external venetian blinds

Perfect to combine with front-mounted roller shutters

The cover panels are available in rectangular, half-round, square or built-in to allow you to design your facade according to your personal taste. To protect you from unwanted visitors during the summer months, insect screens can easily be integrated. Solar drive can also be chosen - specially for retrofitting. No need for cable routing or power supply.



► Your benefits:

- Compatible with front-mounted roller shutters in terms of installation and appearance
- No need for additional box fastening – preventing cold bridges
- Integration of insect screens possible



Features

- Construction limit values:
Max. width: 4000 mm
Max. height: 4000 mm
Max. surface: 16 m²
- Slats:
Beaded 80 S mm,
Flat slats 80 mm,
Dim-out slats 73 mm
- Available with vivamatic® (VM), slowturn (ST), daylight transport element (TLT)
- Drive: 230 V motor, solar, crank

* depending on type and options

Fields of application and mounting

- On new buildings
- For renovations
- As a facade design feature
- In living areas and bedrooms

Front-mounted external venetian blind R10 with insect screen and solar drive **Front-mounted external venetian blinds R6**



- 1 Shutter box
- 2 Guide profile
- 3 Slats
- 4 Tilting tape
- 5 Bottom rail
- 6 Insect screen

Top-mounted external venetian blinds for new buildings

For new and refurbished buildings

A photograph of a balcony with a dining table and chairs. The balcony is furnished with a wooden table, a glass pitcher, a bottle, and some fruit. There are four dark wicker chairs with white cushions. In the background, there is a white building facade with a window and a large planter. The window and the planter are both covered with top-mounted external venetian blinds. The blinds are dark and have a horizontal slat design. The balcony is paved with light-colored tiles. The sky is blue and there are trees in the distance.

WAREMA top-mounted external venetian blinds for new buildings are installed together with the window. They are unobtrusively integrated in the facade and are ideal for combining with WAREMA top-mounted roller shutters for new buildings. Optionally available with insect screens. A patented guide profile for flush mounting is optionally available: a plaster base plate is already integrated here in the area between the window and the guide profile. In this way, the raised external venetian blinds are practically invisible.



► Your benefits:

- Unobtrusive integration into the facade
- Installed directly with the windows
- Guide profiles can be set in plaster at the front
- Integration of insect screens possible



Features

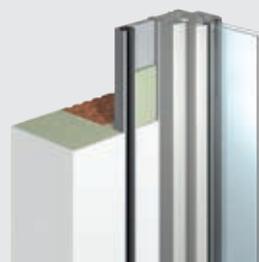
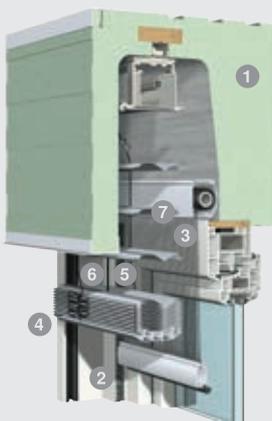
- Construction limit values:
 - Max. width: 4000 mm
 - Max. height: 4000 mm
 - Max. surface: 16 m²
- Slats:
 - Beaded 80 S mm,
 - Flat slat 80 mm,
 - Dim-out slat 73/90/93 mm
- Available with vivamatic® (VM), slowturn (ST), daylight transport element (TLT)
- Drive: 230 V central motor, crank

Fields of application and mounting

- On new buildings
- Refurbishment
- On the window frame
- Can also be used in the soffit of clinker brick facades

Top-mounted external venetian blind for new buildings with integral insect screen

Guide profile with integrated plaster base



- 1 Shutter box
- 2 Guide profile
- 3 Insect screen roller blind
- 4 Bottom rail
- 5 Lifting tape
- 6 Tilting tape
- 7 Slats



Asymmetrical external venetian blinds for asymmetrical windows

Customised sun shading system for innovative windows - WAREMA asymmetrical external venetian blinds are ideal for practically all asymmetrical window shapes. Visually, the asymmetrical external venetian blind blends in harmoniously with our other types of venetian blinds - thus creating a uniform appearance. WAREMA options and accessories are also available for these special external venetian blinds.



► Your benefits:

- Design adapted to other WAREMA external venetian blind types
- Suitable for use with asymmetrical windows with sloped areas from 5° to 52°
- Reduced cover panel heights
- Very good view out

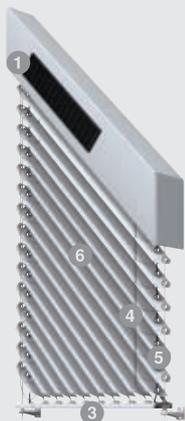


Features

- Construction limit values:
 - Max. width: 1670-2510 mm
 - Max. height: 3900 mm
 - Max. surface: 7 m²
- Slats: Flat slat 80 mm
- Drive: 230 V central motor, solar drive

Fields of application and mounting

- On new buildings
- For renovations
- Transom and mullion facade/conservatory
- In front of the facade
- In the reveal



Asymmetrical external venetian blind E 80 AF SR with flat slats for angles between 5° and 52°

- 1 Cover panel
- 2 Cable guidance
- 3 Bottom rail
- 4 Tilting tape
- 5 Lifting tape
- 6 Slats

Slats

Geometry and colours



Beaded slats

- Slat widths: 60 and 80 mm
- Slat thickness: approx. 0.44 mm
- Rail-guided, cable-guided



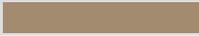
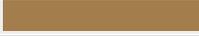
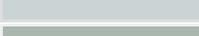
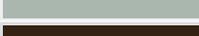
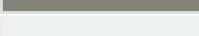
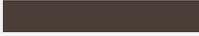
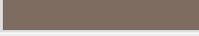
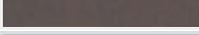
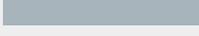
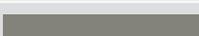
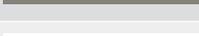
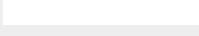
Dim-out slats

- Slat widths: 73 and 93 mm
- Slat thickness: approx. 0.44 mm
- Rail-guided, cable-guided



Flat slats

- Slat widths: 50, 60, 80, 100 and 150 mm
- Slat thickness: approx. 0.45 mm
- Rail-guided, cable-guided

Colours for external venetian blind slats			External venetian blind slats				
			80/80 AF	73/90/93	60/60 AF	100 AF	50 AF/ 150 AF
RAL 1015	Light ivory		•	•			
RAL 1019	Grey beige		•	•			
RAL 1036	Pearl gold		•	•			
RAL 3004	Purple red		•	•			
RAL 5011	Steel blue		•	•			
RAL 6009	Fir green		•	•			
RAL 7016	Anthracite grey		•	•	•		
RAL 7035	Light grey		•	•	•		
RAL 7038	Agate grey		•	•	•		
RAL 8014	Sepia brown		•	•			
RAL 9006	White aluminium		•	•	•	•	•
RAL 9007	Grey aluminium		•	•	•	•	•
RAL 9010	Pure white		•	•			
RAL 9016	Traffic white		•	•	•	•	
DB 502	Blue iron mica effect		•	•			
DB 603	Green iron mica effect		•	•			
DB 702	Grey iron mica effect		•	•			
DB 703	Anthracite iron mica effect		•	•	•		
W 3005	Wine red pearl mica effect		•	•			
W 4800	Light beige		•	•			
W 4919	Earth brown iron mica effect		•	•			
W 4922	Cappuccino		•	•			
W 7329	Dark bronze		•	•			
W 8000	Selective slat 1)		•	•			
W 8100	Millfinish II 1)		•	•			
W 8780	Light bronze		•	•			
External venetian blind slats with Reynolux® EcoClean™ coating							
RAL 9006 EcoClean™ 2)	White aluminium, matt		•	•			
RAL 9007 EcoClean™ 2)	Grey aluminium, matt		•	•			
RAL 9016 EcoClean™ 2)	Traffic white, matt		•	•			
DB 703 EcoClean™ 2)	Anthracite iron mica effect, matt		•	•			

¹⁾ Slat reverse side RAL 9006.

²⁾ Slat surface with Reynolux® EcoClean™ coating matt, similar to the indicated colour number.

Colour variations are a result of the printing process.

WAREMA Colour World

Maximum colour selection x 5

WAREMA Colour World offers with an extensive selection perfect design possibilities for all powder-coated aluminium parts such as guide rails, cover panels, profiles and boxes. The colours impress by an excellent, durable coating quality and intensive colour brilliance. The powder colours are categorised in Highlight, Variation and Individual. Highlight offers you the constant basis, Variation provides further possibilities and Individual is your advantage when selection the colour.

WAREMA Colour World - Highlight

12 DB and RAL basic colours are the basis of our WAREMA Colour World. We thus offer you selected standard colours which satisfy all current colour requirements. Furthermore select 5 surfaces in order to perfectly adapt the gloss level and structure to the corresponding structural condition.



WAREMA Colour World - Variation

Use the possibility of variation with another 50 RAL basic colours and 4 surfaces. This fulfils any of your architectural colour dream!



WAREMA Colour World - Individual

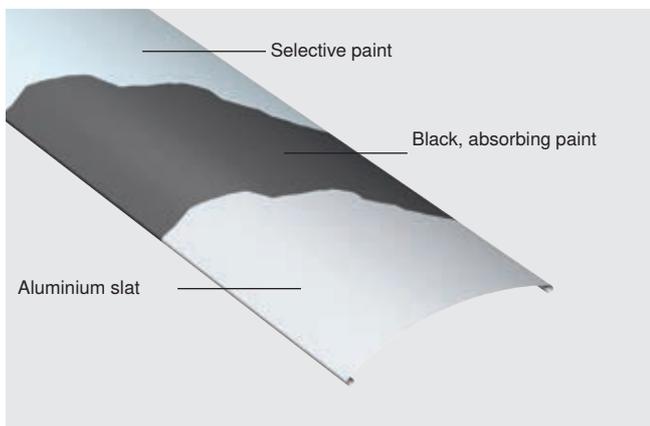
The category "Individual" with more than 180 powder colours is the perfect complement to the WAREMA Colour World. The surface quality available for this category is provided on request.



Surface qualities

Five different surfaces allow for the perfect selection according to your personal requirements. Satin finish is a not completely glossy surface with smooth course and best light and weather resistance. The surface matt is features a flat matt course. Fine structure is provided with efficient effects. The flood-resistant surfaces are characterised by a clearly improved weathering behaviour with regard to gloss retention, weathering, chalking and colour stability. It is available in matt and fine structure.

Slats Function



Selective slat - the all-rounder

The use of slats with selective coating increases the entry of daylight into a building and at the same time reduces the incidence of energy. The slat colour is similar to the colour RAL 9006 (white aluminium). Visible daylight is guided in to the room, leaving a large part of the heat radiation outside the window. The slats absorb ultraviolet and infrared radiation that is emitted as heat radiation outside of the building. The selective coating directs approx. 30 % more daylight and approx. 50 % less heat into the building than external venetian blinds with similar slat colours.

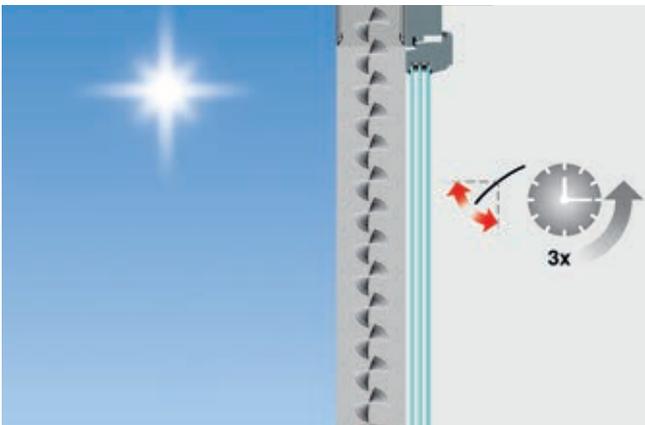


Self-cleaning slat

Our new slat with Reynolux® EcoClean™ coating makes it possible: in conjunction with UV light and water, the light-sensitive titanium dioxide coating (EcoClean™) on the slat surface acts like a catalyst and decomposes organic dirt and smog particles. The slats stay clean by constantly freeing themselves of dirt, thus maintaining the attractiveness of your building. The air is also cleaned: 1000 m² of slats with Reynolux® EcoClean™ coating neutralise as much smog as 80 trees. This is sustainability in active form!

Slat Millfinish II

showing rooms in a favourable light. The brushed surface design and the highly reflective cover varnish disproportionately improve daylight utilisation of external venetian blinds with a timeless stainless steel look. This surface supports diffused light distribution, the back of the slat is painted in the colour RAL 9006 matt (white aluminium), reliably preventing excessive, selective luminances.

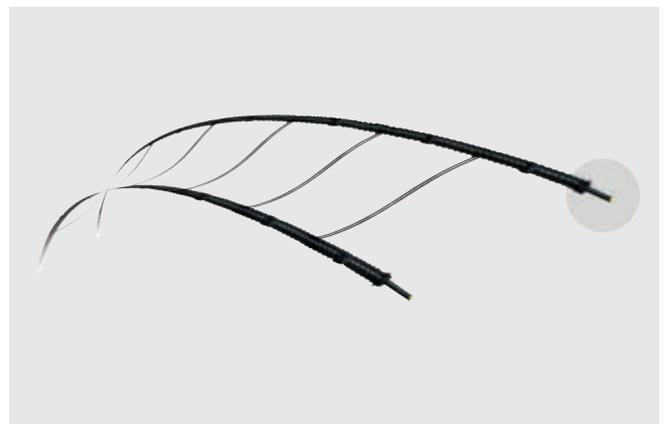


slowturn – reduced slat tilting speed for external venetian blinds

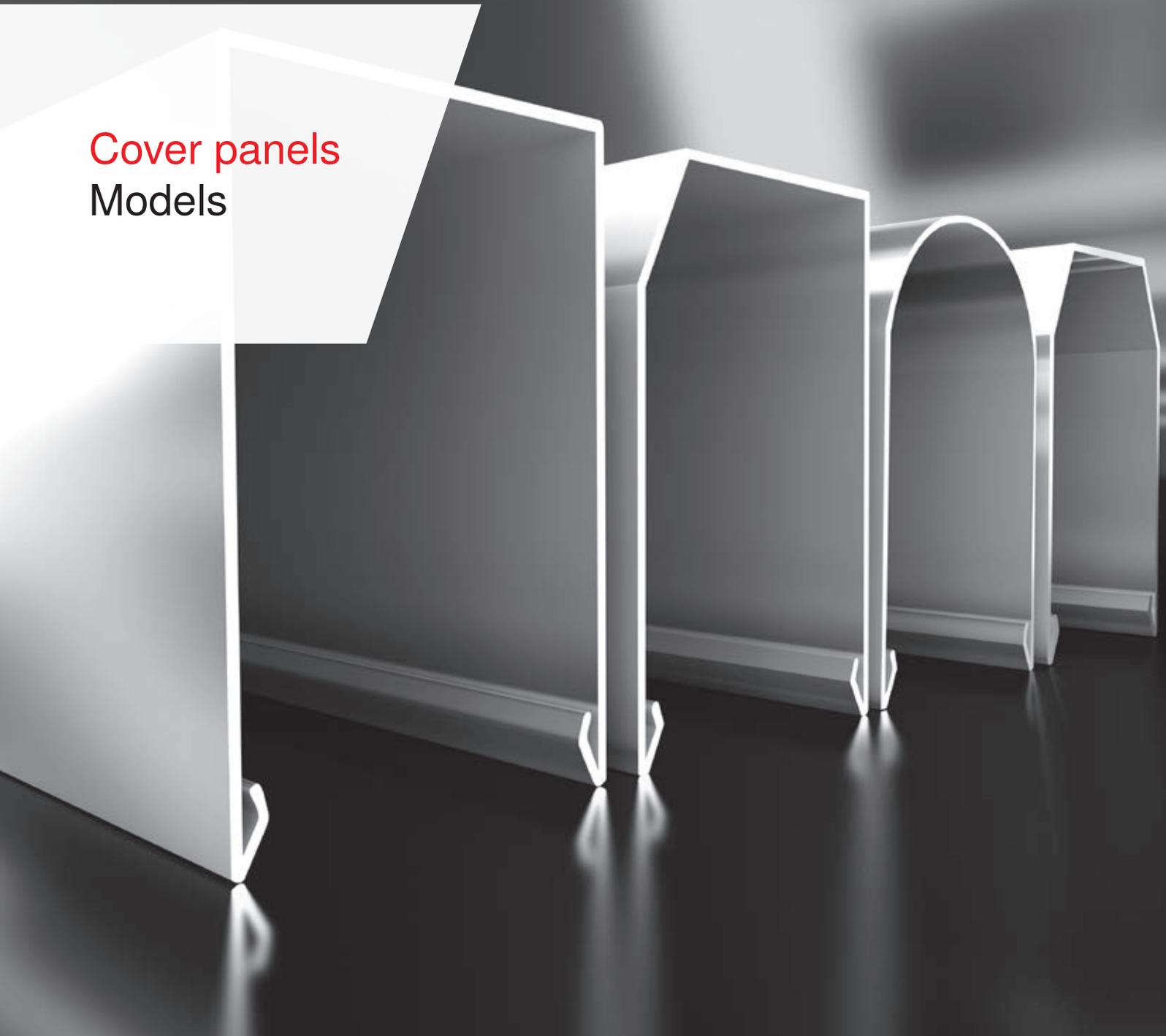
External venetian blinds with the additional slowturn function feature a reduced slat tilting speed. The available tilting time is three times as long compared to standard external venetian blinds, achieving a more precise positioning of the slats. Using a higher-level sun shading control system allows slowturn to sustainably improve the energy efficiency of the building. slowturn is available for practically all types of external venetian blinds. The interactive slowturn animation can be found at apps.warema.com.

Kevlar-reinforced ladder tapes and cross ladders

WAREMA uses tilting tapes and loop cords with a Kevlar core on all external venetian blinds. The Kevlar fibres reinforce the fabric tapes considerably, improving slat closure and stack arrangement through more clearly defined folds.



Cover panels Models



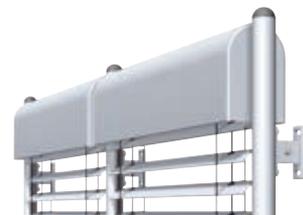
Cover panels for external venetian blinds

- Rectangular, round or square - practically any cover shape is possible
- Visible cover panels as design features for facade design



P/R system cover panel

- Prefabricated system for special mounting on transom and mullion facades
- Available for beaded, flat and dim-out slats

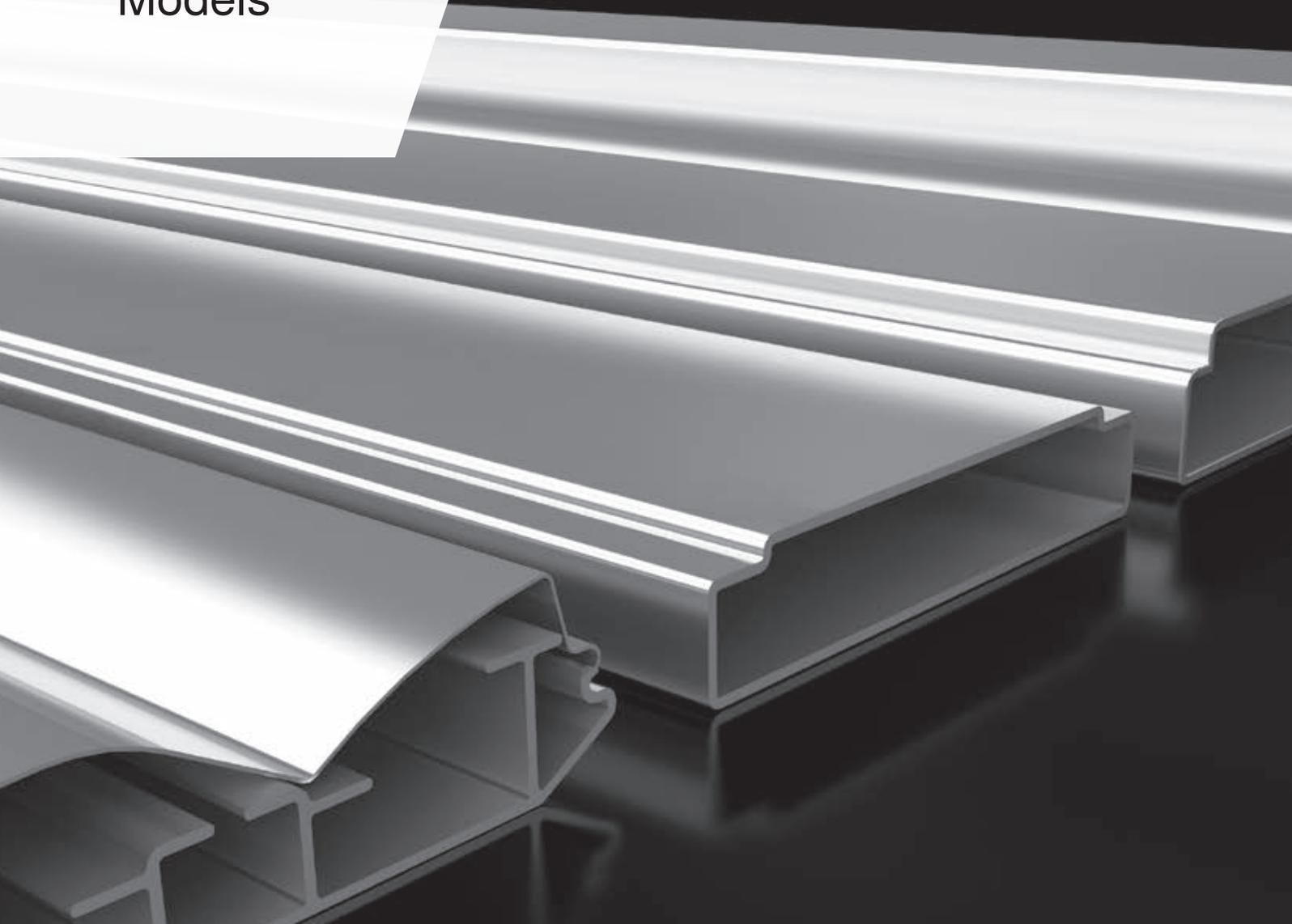


Self-supporting external venetian blinds

- Cover panel fixed to guide rail
- No need for additional fixing of the cover panel to the facade

Bottom rails

Models



Standard bottom rail

Width x height:

- 50/100/150 x 20 mm, 60/80 x 15 mm
- Highly rigid profile prevents sagging or twisting
- Fits all slat shapes



Metal system venetian blinds Bottom rail

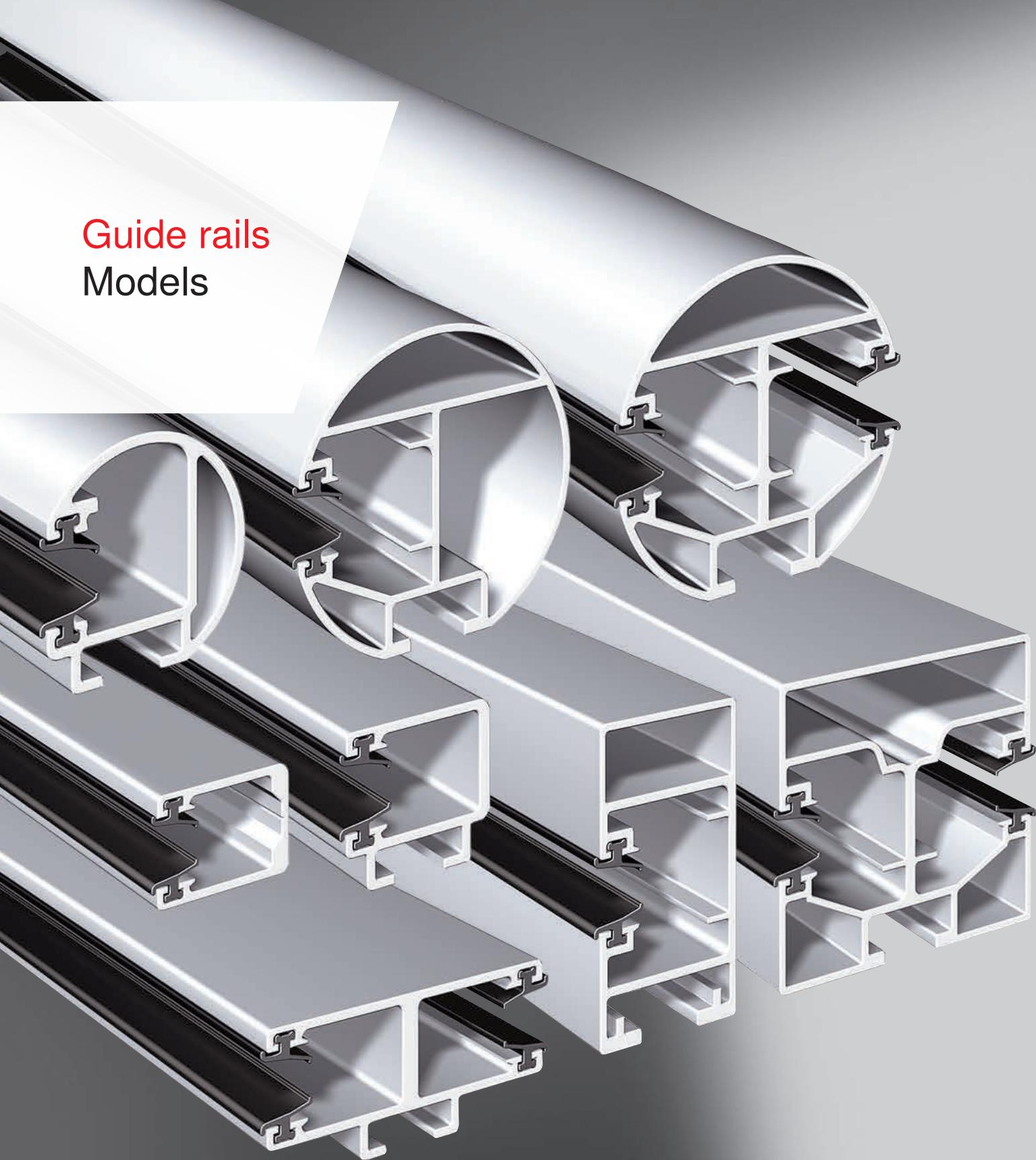
- Especially sturdy profile
- Approx. 104 x 33 mm
- Guide neck with integrated push-up guard and jam protection



Bottom rail for dim-out external venetian blinds

- Flat, unobtrusive geometry
- Approx. 73/93 x 15 mm
- With clip-on slat
- Tilts with the slats
- Flattened sides for smallest possible light gap between external venetian blind and window sill

Guide rails
Models





Type 1, rectangular
 – 25 x 18 mm
 – Mounting on the wall



Type 2, rectangular
 – 25 x 18 mm
 – Mounting on guide rail brackets



Type 3, rectangular
 – 50 x 18 mm
 – Central guide rail to guide two blinds
 – Mounting on guide rail brackets



Type 4, round
 – Ø 32 mm
 – Mounting on guide rail brackets



Type 7, round
 – Ø 52 mm
 – For mounting self-supporting external venetian blinds



Type 8, round
 – Ø 52 mm
 – Central guide rail to guide two blinds
 – For mounting self-supporting external venetian blinds



FSCH 27-95
 – 27 x 95 mm, centre dimension of slat tracking 80 mm
 – 27 x 122 mm, centre dimension of slat tracking 107.5 mm
 – Also available with dimensions 27 x 87 mm, axial dimension of slat tracking 72.5 mm
 – Also available with dimensions 27 x 70 mm and 27 x 80 mm
 – Continuous fixing profile
 – Can be set in plaster frontally
 – For use as a fascia panel to reduce lateral incidence of light



FSCH 27-95P
 – 27 x 95 mm
 – Optionally 27 x 87P and 27 x 122P
 – Continuous fixing profile with plaster base
 – Can be set in plaster at the front and side of the soffit



Corner guide rail with adjustable angle
 – Allows mounting on building corners and bay windows
 – Significantly reduces measurement and mounting
 – Practically unlimited field of application



Guide rail bracket H1
 – Bracket for guide rail type 1, 2, 3, 4



Guide rail bracket H 101
 – Bracket for guide rail type 7, 8, 9, 10



Guide rail bracket for corner guide rail Version 1
 – Bracket for 90° external corner with 40 x 40 mm square tube and guide rail type 1

Cable guidances

Models





Tension cable bracket
– Type S 01



Tension cable bracket
– Type SH 02 with transverse plate



Tension cable bracket for mullion-transom (MT) facades
– Type SF 21



Tension cable bracket for mullion-transom (MT) facades
– Type SF 22



Tension cable bracket for mullion-transom (MT) facades
– Type SG 21



Tension cable bracket for mullion-transom (MT) facades
– Type SG 22



Tension cable bracket for floors and window sills
– Type S 03



Tension cable bracket for floors and window sills
– Type S 04



Tension cable bracket for corner situations
– Version 1



Tension cable bracket for corner situations
– Version 2

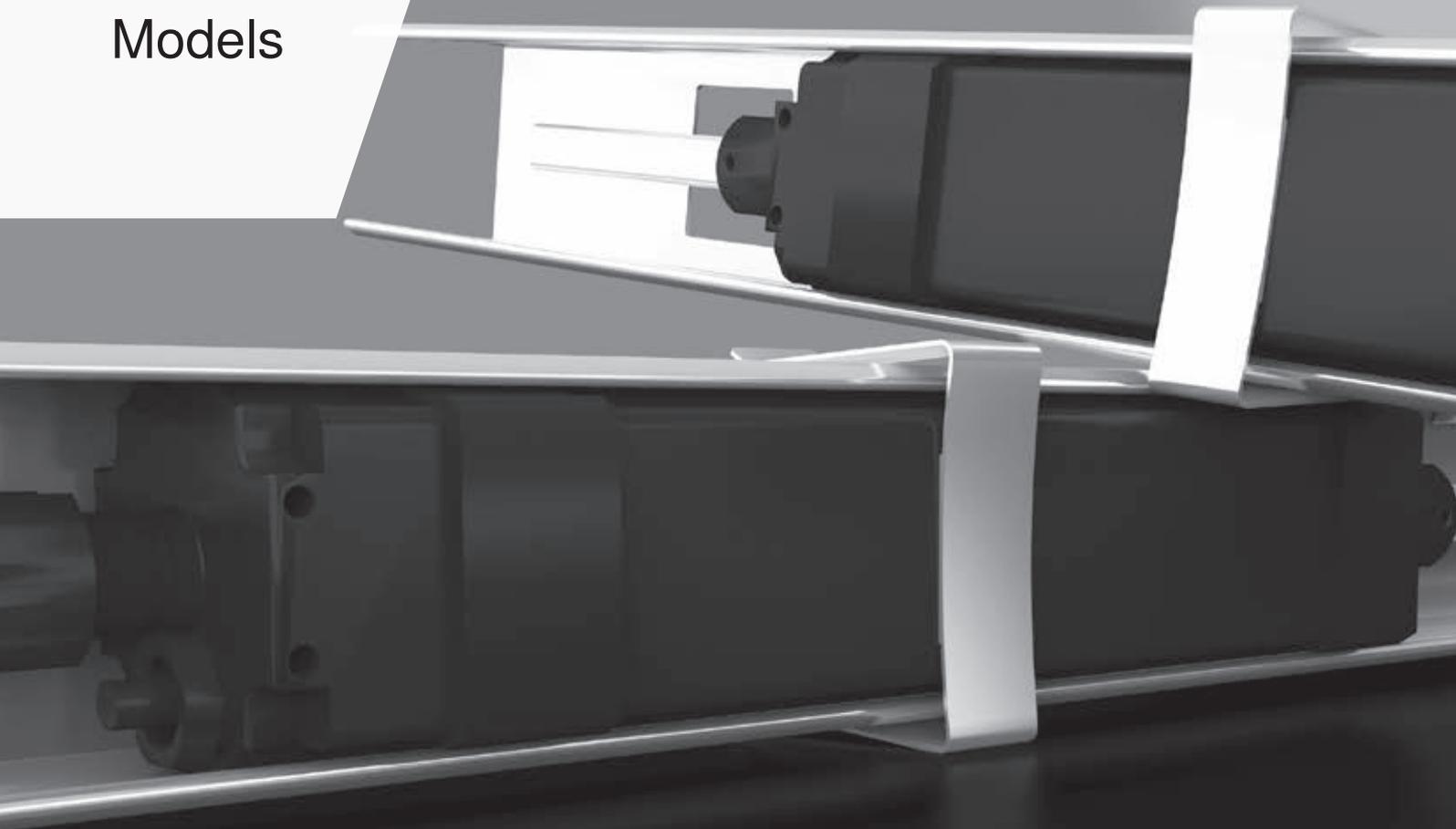


Spring tension device
– For avoiding longitudinal expansion of the tension cable, unobtrusively integrated into the top rail of the external venetian blind



Tensioning clip, large

Drives Models



WAREMA external venetian blinds are used almost exclusively as motorised versions in new buildings and refurbishments. To enhance the efficiency of the external venetian blinds we recommend the use of WAREMA control systems. These are specifically adapted for use with WAREMA external venetian blinds, they improve your well-being and guarantee a perfect indoor environment.



Standard motor

- 230 V central motor
- Conveniently adjustable upper and lower limit positions



Motor with anti-icing protection

- With thermal protection switch
- Suitable for up to 8 m² blind area
- Operation is not possible when components are iced up, thus avoiding damage



Fast patio motor (STM)

- Releases patio and balcony doors with 3-fold movement speed
- This does not affect the speed of slat tilting
- Basic functions as in the standard motor
- Further information available at: www.warema.de/stm



Motors for bus controls

- Motors with SMI interface
- Motors with incremental encoder
- Feedback of slat angle position to a higher-level control system
- Slat tracking according to sun position



Noise-optimised top rail bracket

- Fitted as standard in motor-operated external venetian blinds
- Raising and lowering the external venetian blind is barely audible
- No transmission of vibrations to the facade



Battery-supported emergency retraction set¹⁾

- External venetian blind motor with auxiliary drive and battery-supported control
- Super-fast retraction of curtain, approx. 1 m/sec.
- Battery-supported control with fail-safe function
- Specially designed for emergency exits



¹⁾ Availability see www.warema.com

Control systems
Convenient operation



WMS – WAREMA Mobile System

Radio systems are particularly beneficial with retrofittings because no additional line routing is required. In the WAREMA Mobile System the only components needed are the transmitter and receiver. Users receive feedback about all move commands of their sun shading systems. Distant units can also be reached by transmitting commands from receiver to receiver (routing function).



Wisotronic

Wisotronic always perfectly adapts the position of both internal and external sun shading systems to the weather situation. Whether conservatory, residential building or office building, Wisotronic automatically provides a pleasant room climate and comfortable living or working surroundings.

WAREMA climatronic®

WAREMA climatronic® is a complete solution for controlling sun shading system, ventilation, windows, heating, cooling and many others in your conservatory or home.



