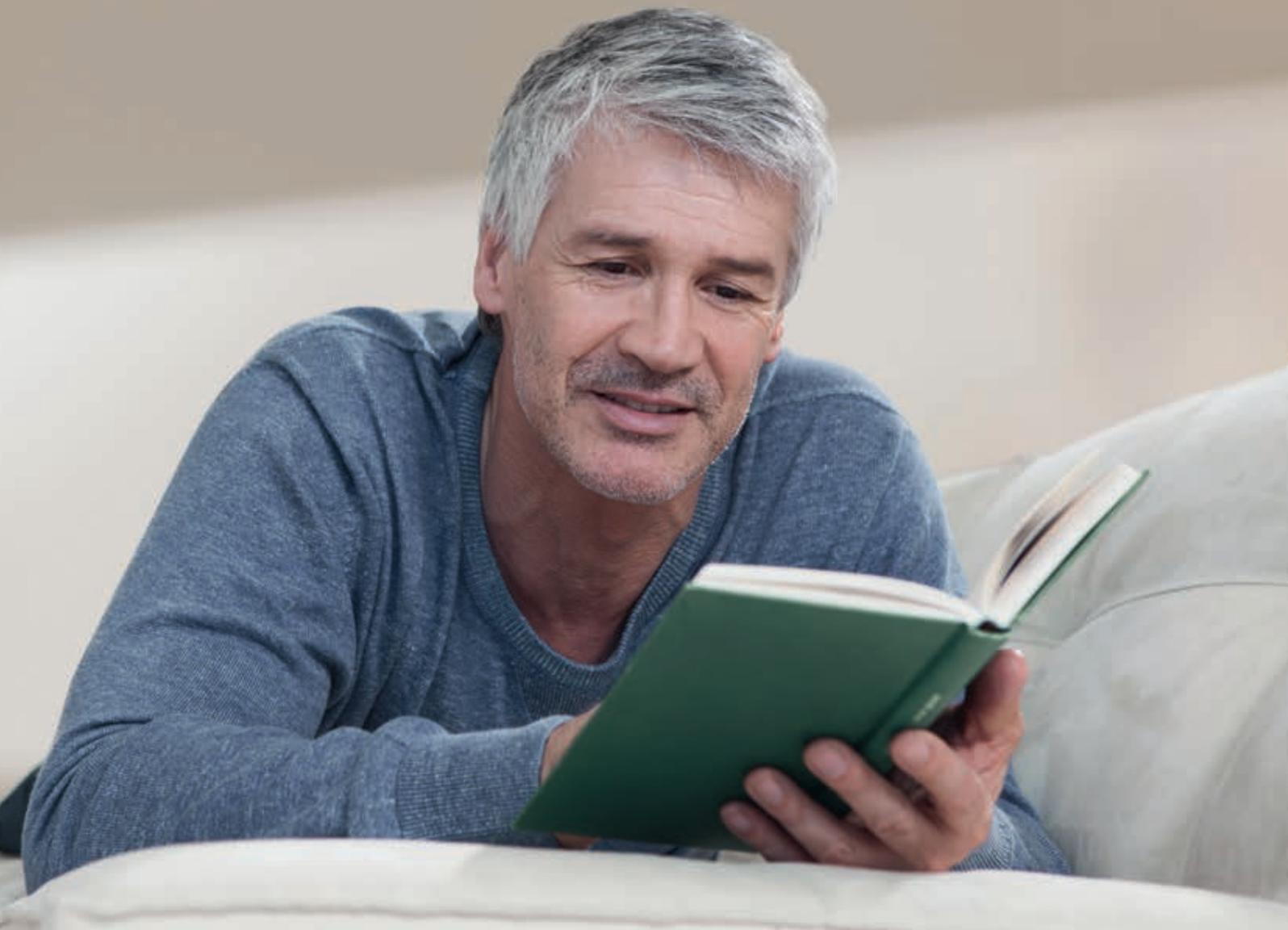


Always a comfortable
atmosphere.

With WAREMA window awnings



Der SonnenLichtManager





WAREMA window awnings for individual sun protection

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



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A modern, two-story house with a white facade and large windows covered in dark grey horizontal slats. The house is set against a blue sky with light clouds. In the foreground, there is a stone wall, a red door, and some landscaping with small green bushes and grey gravel.

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.

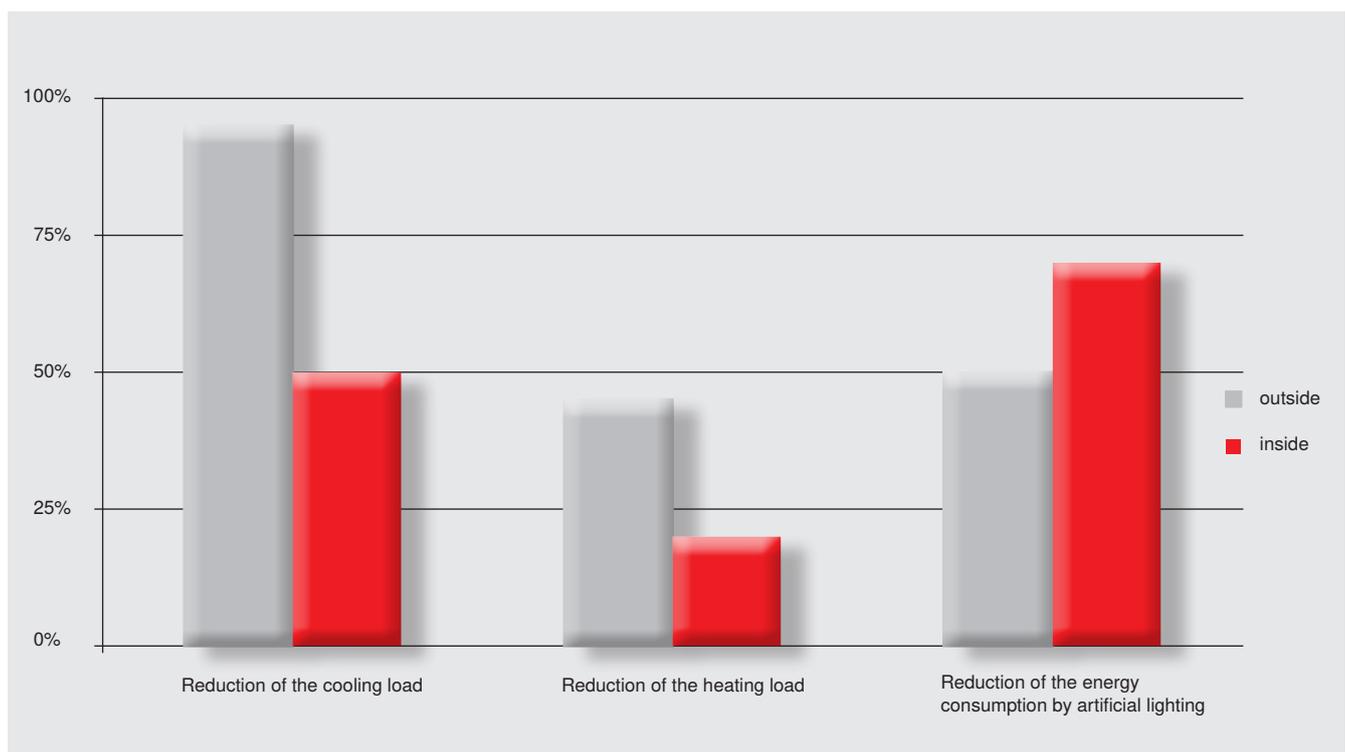
Energy savings with technical sun shading system

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.



Installation situations

Window awnings

There are a number of different installation situations for WAREMA window awnings depending on the design of the building. Different types of the WAREMA window awnings can be used for each installation purpose and each individual requirement. The following pages provide an overview over some options for different wall constructions and special features.



Composite thermal insulation system

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Window awnings with ZIP guidance
- Drop-arm awnings



Ventilated facade

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Window awnings with ZIP guidance
- Drop-arm awnings



Cavity wall with brick facing

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Window awnings with ZIP guidance
- Drop-arm awnings

Installation situations

Window awnings





Monolithic masonry

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Window awnings with ZIP guidance
- Drop-arm awnings



Timber frame construction

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Window awnings with ZIP guidance
- Drop-arm awnings



Transom and mullion facade

Available products

- Facade awnings
- Markisolettes
- Window awnings with ZIP guidance



Fields of application

Window awnings

With clever technology and unobtrusive design WAREMA window awnings create comfortable shading and a pleasant optimal feel-good climate. The following pages provide an overview of which awnings are suitable for which fields of application – according to our high quality standard: accurately fitted solutions for individual customer demands.



Big surfaces

Available products

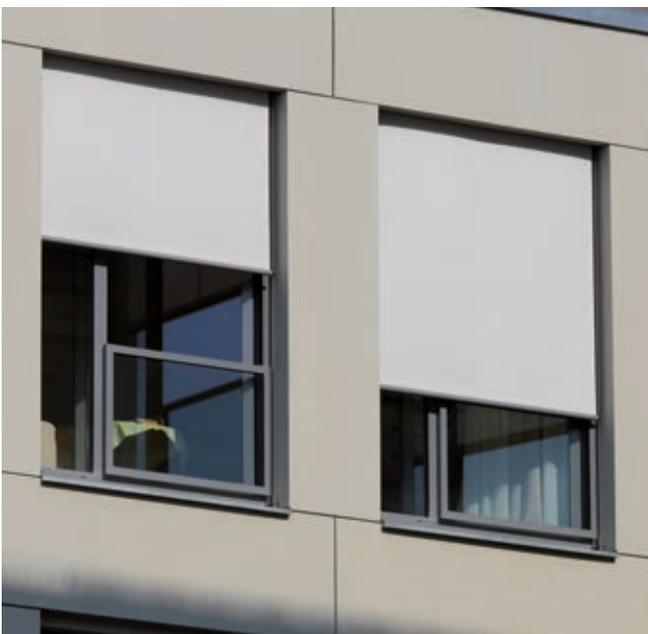
- Facade awnings
- Markisolettes
- Window awnings with ZIP guidance



Sloped surfaces

Available products

- Facade awnings



Invisible integration into the facade (shaft installation)

Available products

- Facade awnings
- Markisolettes
- Vertical awnings
- Drop-arm awnings

Fields of application

Window awnings



For small spaces

- Available products
- Vertical awnings
 - Drop-arm awnings



Anti-glare protection with vision to the outside

- Available products
- Drop arm awnings
 - Markisolettes



Sun shading, visual privacy and anti-glare protection

- Available products
- Window awnings with ZIP guidance
 - Facade awnings
 - Vertical awnings



Wind-exposed positions

- Available products
- Window awnings with ZIP guidance

Window awnings with ZIP guidance

Large wind-stable pro

WAREMA window awnings with ZIP guidance shade large glass surfaces and are highly wind-stable. Guiding directly in the guide rail prevents light entering from the side. Another benefit: The particularly delicate and Minimax guide rail allows best possible integration of the sun shading system into the building facade – whether mounted directly or as a self-supporting unit.



► Your benefits:

- High wind stability up to a maximum wind speed of 24 m/s through side hem guiding over the entire height of the awning
- No light entering between guide rail and curtain
- Delicate appearance through narrow cover panels
- Exclusive design due to rod guidance in stainless steel optics
- Cover panel and guide rails can be partly embedded in plaster

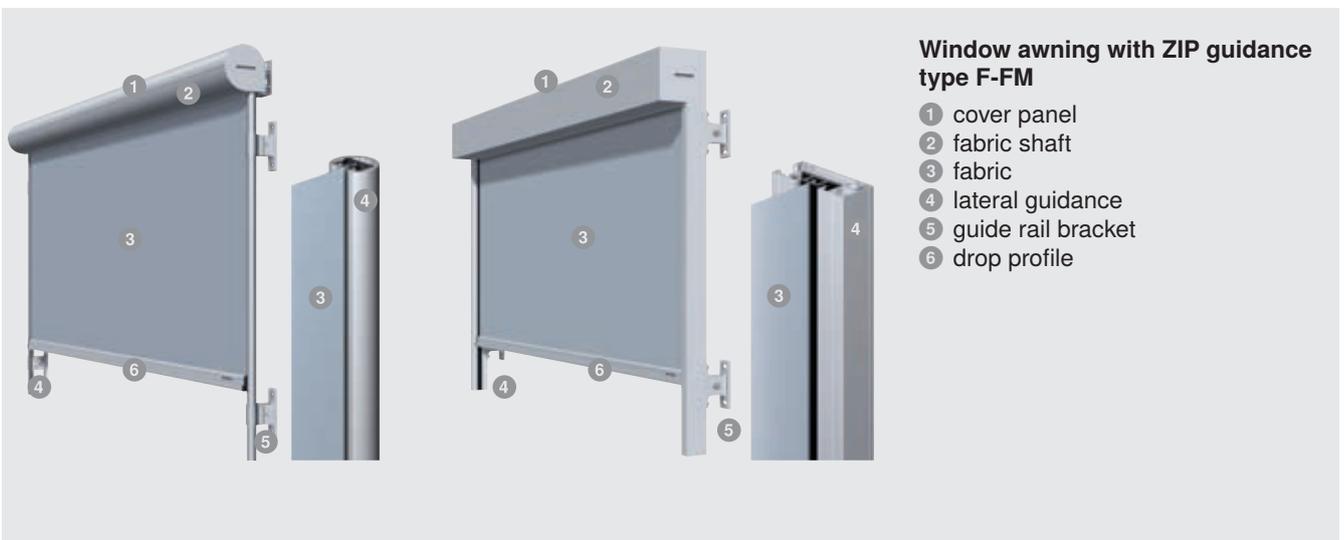


Characteristics

- Construction limit values (depending on type):
 - max. width: 4000 mm
 - max. height: 6000 mm
 - bigger construction sizes on request
- Guidance: laterally via ZIP guidance with guide rail or rod
- Operation: motor, radio motor
- All information "Everything at a glance" page 38

Installation situation

- Suitable for vertical glass surfaces, windows in punched facades
- For large facades
- Use in the commercial and residential building sector
- For new buildings, retrofitting and refurbishment
- With spacing to the facade or window frame, alternatively with direct mounting
- On the facade, in the reveal or embedded in plaster



A photograph of a modern, two-story building with a white facade and a dark grey overhang. The building features large windows on the upper floor, each with a vertical orange awning. The ground floor has a covered outdoor area with a wooden table and chairs. The building is surrounded by greenery and a clear blue sky.

Vertical awnings

Practical complete solution.

WAREMA vertical awnings offer a complete package for all vertical glass surfaces: unobtrusive, practical and individual. Particularly small cover panel dimensions and possible shaft installation turn it into an inconspicuous sun shading system. Cover panels in different shapes protect the awning fabric from weather influences as much as possible. The delicate cable or rail guidance allows an optical integration into the building facade – for all types.



► Your benefits:

- Unobtrusive integration into the facade through especially small cover panel dimensions and possible shaft installation
- A closed cover panel protects the awning fabric reliably from dirt and rain, even with facade installation

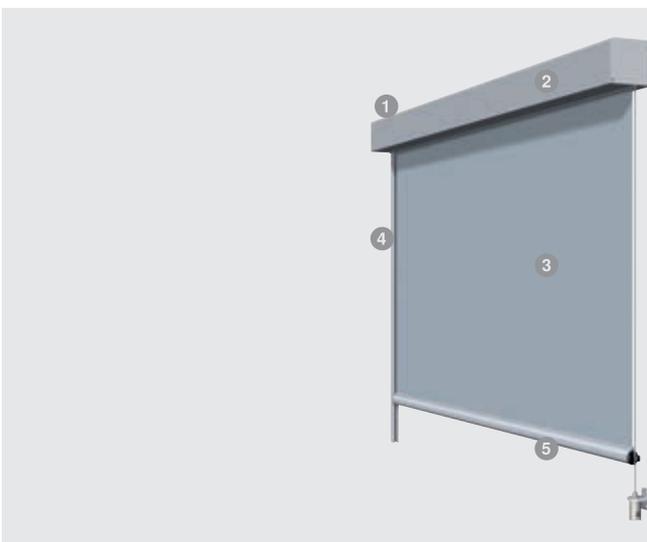


Characteristics

- Construction limit values (depending on type):
 - max. width: 2800 mm
 - max. height: 3000 mm
 - guide: lateral via guide rails, tension cable
- Operation: motor, radio motor, crank
- All information "Everything at a glance" page 38

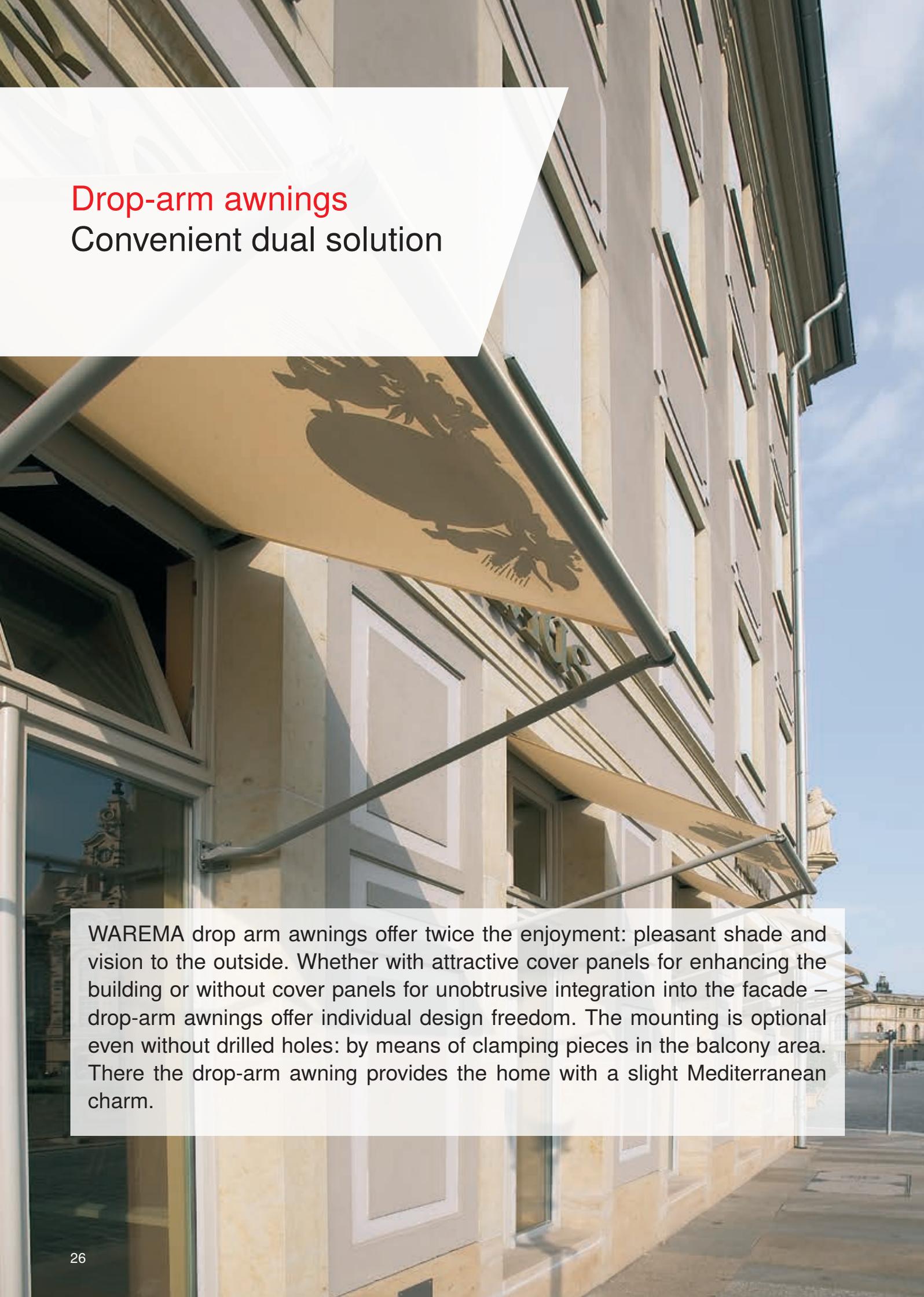
Installation situation

- Suitable for vertical glass surfaces and windows in punched facades
- Use on commercial and residential buildings
- For new buildings, retrofitting and refurbishment
- With spacing to the facade or window frame, alternatively with direct mounting
- On the facade
- In the soffit
- In a shaft



Vertical awning 490

- 1 cover panel
- 2 fabric shaft
- 3 fabric
- 4 lateral guidance
- 5 drop profile



Drop-arm awnings

Convenient dual solution

WAREMA drop arm awnings offer twice the enjoyment: pleasant shade and vision to the outside. Whether with attractive cover panels for enhancing the building or without cover panels for unobtrusive integration into the facade – drop-arm awnings offer individual design freedom. The mounting is optional even without drilled holes: by means of clamping pieces in the balcony area. There the drop-arm awning provides the home with a slight Mediterranean charm.



► Your benefits:

- View out to the outside with projection effect and simultaneous sun protection
- Can also be used without fixing to the building, using clamping posts (balcony)

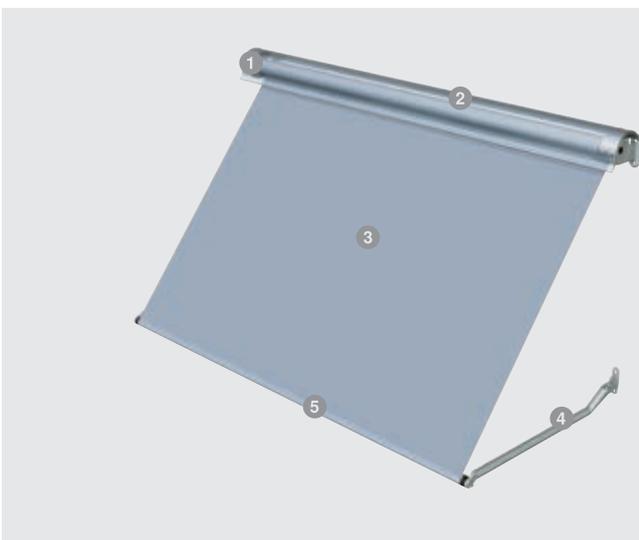


Features

- Construction limit values (depending on type):
max. width: 4000 mm
max. height: 1600 mm
- Guide: laterally using drop arm with gas pressure spring or tension spring
- Projection angle: 90-135°
- Operation: motor, radio motor, crank
- Extras: optionally available with valance
- All information "Everything at a glance" page 38

Installation situation

- Suitable for vertical glass surfaces and windows in punched facades
- Use on commercial and residential buildings
- For new buildings, retrofitting and refurbishment
- On the balcony using clamping posts
- On the facade
- In the soffit
- In a shaft



Drop arm awning 340

- ① cover panel
- ② fabric shaft
- ③ fabric
- ④ drop arm
- ⑤ drop profile

Facade awnings

Shading with many models

The image shows three vertical facade awnings installed on a white building facade. The awnings are made of a light-colored material and are supported by a metal frame. They are positioned over three windows. The building has a red wall on the left side. The ground in front of the building is covered with dark gravel.

Through professional adaptation to each type of building WAREMA facade awnings offer efficient and flexible sun protection for large, vertical and sloped surfaces– even across several stories. Different models of cover panels and guides can be combined as you like – also in combination with markisolettes.



► Your benefits:

- Efficient shading of vertical, sloped and especially large surfaces
- Combination with markisolettes possible
- Large selection of cover panels and lateral guidings



Features

- Construction limit values (depending on type):
 - max. width: 4000 mm
 - max. height: 5000 mm
- Guide: lateral using guide rails, tension cable, guide rod
- Operation: motor, radio motor, crank
- All information "Everything at a glance" page 38

Installation situation

- Suitable for large facades, also across several stories
- Use on commercial and residential buildings
- For new buildings, retrofitting and refurbishment
- With spacing to the facade or window frame
- On the facade
- In the soffit
- In a shaft



Facade awning 209

- 1 cover panel
- 2 fabric shaft
- 3 fabric
- 4 lateral guidance
- 5 drop profile

Markisolettes

Flexible sun shading system

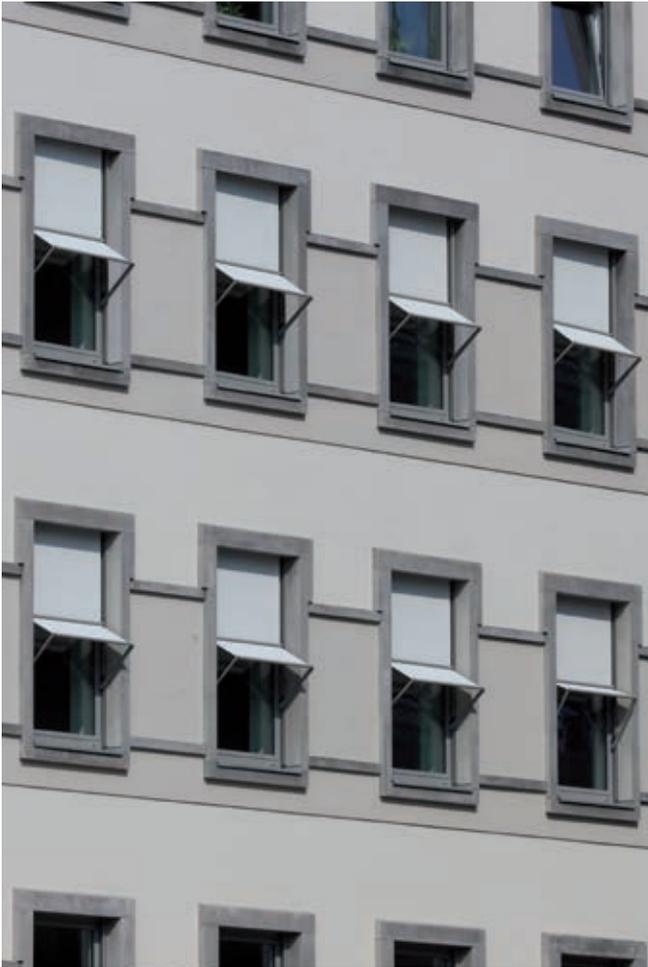


WAREMA markisolettes are an attractive 2-in-1 concept for designing vertical facades: Highly efficient sun protection and good sight to the outside provide an interplay of light and shading. The upper section of the markisolette runs parallel to the window or the facade, the lower section can be projected variably. A harmonious combination with facade awnings is alternatively possible as well.



► Your benefits:

- View out to the outside by means of projecting the lower part with simultaneous sun protection
- Division between vertical and projected areas flexibly adjustable
- Combination with certain facade awnings possible
- Large selection of cover panels and lateral guidings



Features

- Construction limit values (depending on type):
 - max. width: 4000 mm
 - max. height: 3500 mm
- Guide: lateral using guide rails, guide rod
- Operation: motor, radio motor, crank
- All information "Everything at a glance" page 38

Installation situation

- Suitable for vertical glass surfaces and windows in punched facades
- Use on commercial and residential buildings
- For new buildings, retrofitting and refurbishment
- With spacing to the facade or window frame, alternatively with direct mounting
- On the facade
- In the soffit
- In a shaft



Markisolette 109

- ① cover panel
- ② fabric shaft
- ③ fabric
- ④ lateral guidance
- ⑤ projection system
- ⑥ drop profile
- ⑦ guiding tube

Fabrics

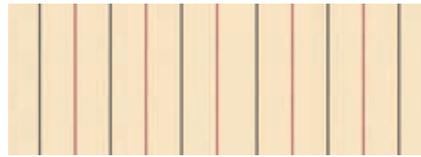
Timeless colour brilliance

The acrylic awning fabrics are the classics among the fabric qualities and impress by experience and constant further development. They consist of 100% brand acrylic fabric for which the fibres of the yarns used are spinning nozzle dyed. Furthermore the innovative Lumera fabrics have an extremely smooth surface which makes colours appear much deeper and increases brilliance for a long time. Acrylic awning fabrics provide reliable protection against harmful UV radiation and they are also extremely tear-resistant.



Acrylic Lumera

- CBA fibre (Clean Brilliant Acrylic)
- Smoother surfaces, rich colours, long lasting luminosity, high tear resistance
- Improved dirt repellency



Acrylic Standard

- 100% brand acrylic fabric
- Spinning nozzle dyed, light-fast, weatherproof and tear-resistant
- Dirt-repellent, rot-proof, air permeable and water-repellent through impregnation



Finish/connecting seams

- Impregnation perfectly protects the fabrics from soiling
- All WAREMA fabrics are tested according to Oeko-Tex Standard 100
- Connecting seams and hems made with the particularly durable PTFE (Teflon) sewing thread such as TENARA® in plain white
- Soltis-92 – seams and hems permanently welded



Acrylic All Weather

- 100% brand acrylic fabric
- Transparent acrylate coating on the outside
- Fabric is virtually 100% waterproof



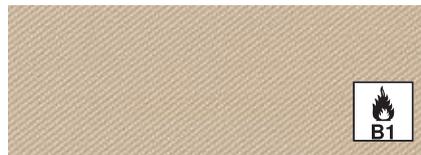
Perfora Acrylic fabric

- 100% brand acrylic fabric with perforation
- Good view out and transparency
- Reduced heat accumulation and little risk of water pooling on the awning fabric through perforation
- High-grade, elegant fabric look through even perforation



Soltis 92

- Base material made of highly tear-resistant polyester, coated with PVC
- UV and dirt repellent
- Fabric is flame resistant and/or self-extinguishing



Screen

- Screen fabric made of glass fibre coated with PVC
- Heavy quality, fabric flame resistant and/or self-extinguishing according to DIN 4102 B1



Large-scale printing

- Sunprint collection for outdoor advertising, sponsoring, private use
- Large-scale images as digital printing over the complete awning fabric or a specific section
- Printing on white acrylic fabric with special surface treatment guarantees a photorealistic print result



WAREMA SecuTex fabric A2

- Suitable for indoors and outdoors
- Non-flammable according to DIN 4102-1 A2
- Minimises the fire load and smoke development
- Odourless
- Weather-proof

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.

Control systems

Intelligent, efficient
and comfortable



WAREMA control systems are used in various living and working environments. Radio systems, central control systems and bus systems fulfil the respective requirements in very different ways. Find the right system for your individual requirements – whether at home or at the office, for renovations or retrofitting.

EWFS - Standardised WAREMA Radio System

The standardised WAREMA radio system offers you the opportunity to control the individual sun shading drive or light with a minimum amount of installation work. The uniform system allows individual expansion of the control system and leaves room for retrofitting further components at any time. WAREMA supplies the appropriate EWFS solution for the different control requirements of any sun shading product. Window awnings for example can be controlled with permanent mode.



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 is an intelligent, wired control system for your individual sun shading system combination. It is suitable for all WAREMA products and at home in various environments. Wisotronic provides a comfortable room climate and a cosy living or work space even while you are absent. The design provides visual highlights – it received the iF product design award 2012.



WAREMA climatronic®

The WAREMA climatronic® coordinates sun shading systems with heating, air conditioning and ventilation systems in order to create the best possible room climate. In smaller and larger buildings it monitors and controls according to environmental influences which have an effect on the well-being of the people. Humidity, temperature or light intensity are controlled according to individual specifications and/or according to weather influences.

Everything at a glance

		Window awnings with ZIP guidance		Vertical awnings				Drop-arm awnings	
		V-FM	F-FM	470	490	499	450	350	340
Features/ construction limit values*	max. width (mm)	4000	4000	2400	2800	2800	2800	4000	4000
	max. height/length (mm)	6000	6000	3000	3000	3000	3000	1600	1600
	max. projection angle	–	–	–	–	–	–	90° – 135°	
Operation		motor, radio motor		crank	motor, radio motor, crank		motor, crank	motor, radio motor, crank	
Guiding		ZIP guidance in guide rail or rod		guide rail, cable				drop arm, gas pressure spring	
Fixing		without spacing	with spacing	with spacing			without spacing	–	–
Fabric	Acrylic Standard/Lumera	●	●	●	●	●	●	●	●
	Acrylic All Weather, Perfora	○	○	○	○	○	○	○	○
	Screen	○	○	○	○	○	○	○	○
	Soltis 92	○	○	○	○	○	○	○	○
	WAREMA SecuTex fabric A2	–	–	○	○	○	○	–	–
Designs		according to WAREMA collection		according to WAREMA collection				according to WAREMA collection	
Colours (aluminium parts)		in accordance with WAREMA Colour World rod anodised in stainless steel look		in accordance with WAREMA Colour World			RAL 9016, 9006 and 8016	in accordance with WAREMA Colour World	
Cover panels	Aluminium	●	●	●	●	●	●	●	●
	Acrylic glass	–	–	–	–	–	–	–	○
Options		wind stability up to 24 m/s (depending on type), built-in solution		small component dimensions for optimum adaptation				sun shading and vision to outside, valance optional	
Control systems		○	○	–	○	○	○	○	○

* depending on fabric, area limitation possible ● standard ○ optionally – not possible

Drop-arm awnings		Facade awnings			Markisolettes			
330	310/314	201	207	209	101	107	109	150
4000	4000	4000	3000	2500	4000	3000	2500	2500
1600	1600	5000	3000	3000	3500	3000	3000	2900
90° – 135°		–	–	–	150°	120°	150°	145°
motor, radio motor, crank	crank	motor, radio motor, crank			motor, radio motor, crank			motor, crank
drop arm, gas pressure spring	drop arm, tension spring	guide rail	cable, stainless steel rod	guide rail, cable, rod	guide rail	stainless steel rods	guide rail	guide rail
–	–	with spacing			with spacing			without or with distance
●	●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
–	–	○	○	○	–	○	○	○
according to WAREMA collection		according to WAREMA collection			according to WAREMA collection			
in accordance with WAREMA Colour World	RAL 9016	in accordance with WAREMA Colour World			in accordance with WAREMA Colour World			RAL 9016, 9006 and 8016
–	–	●	●	●	●	●	●	●
–	–	○	○	○	○	○	○	–
sun shading and vision to outside, valance optional	valance clamping posts (type 314)	sun shading for large and sloping areas			sun shading and vision to outside – also for large areas			
○	–	○	○	○	○	○	○	○

