



Your Guide to Solarlux Products

Bifold Doors | Sliding Doors | Glass Extensions | Glass Canopies | Balcony Glazing



"Architectural glazing isn't just about letting light in, it's about framing the world outside as part of your interior design."

Solarlux Systems UK

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About Solarlux

About Solarlux

With over 40 years of experience and still family-run, Solarlux has become a leading name in premium glass system solutions. Our legacy of craftsmanship, innovation, and design excellence is reflected in every product we create, from bi-folding and sliding doors to glazed wintergardens, glass canopies, internal partition systems, and complete façade solutions.

Renowned for our “Made in Germany” quality, we are driven by a commitment to superior production standards, outstanding service, and continuous innovation. This ethos is shared by our team of over 1,000 dedicated employees and is at the core of everything we do.





Bifold Doors

Bifold Doors

Outdoors is the new indoors. Being outside, or, even better, being able to cultivate your outdoor life in line with your own individual expectations is, for many people, the purest joy imaginable. It can improve their well-being, help them relax, and provide them with the perfect atmosphere to thrive. Being close to nature helps us feel grounded in our lives, transforming the outdoors into an extension of our man-made living spaces.

Solarlux bifold doors offers the indoor/outdoor experience, opening the home fully with no interruptions to the outdoors. Choose from insulated and non-insulated bi-folds, wood or aluminium in a choice of 30 RAL colours. The aluminium range can also have a coating applied for special climate requirements such as coastal weather protection.

What Solarlux offers

- In-depth consultation and planning
- Patented door technology
- Durability and high quality
- Market leading production standards
- Certified by national and international institutes
- Maximum transparency and flexibility
- Sight lines from 99mm
- Sophisticated technical design and installation
- Compliance with all applicable standards and specifications

OUR MATERIALS



ALUMINIUM



WOOD/ALUMINIUM



WOOD



Accessibility and convenience

Bi-folding doors are extremely convenient, with accessible floor tracks available for living spaces with durable stainless steel carriages and rollers.



Slender sight lines

The most important feature of the bi-folding door is its accordion-like folding principle, which allows it to be opened across almost 100% of its width. When closed, it boasts incredibly slim sight lines of from just 99 mm across the panel butt joint.



Security and anti-burglary protection

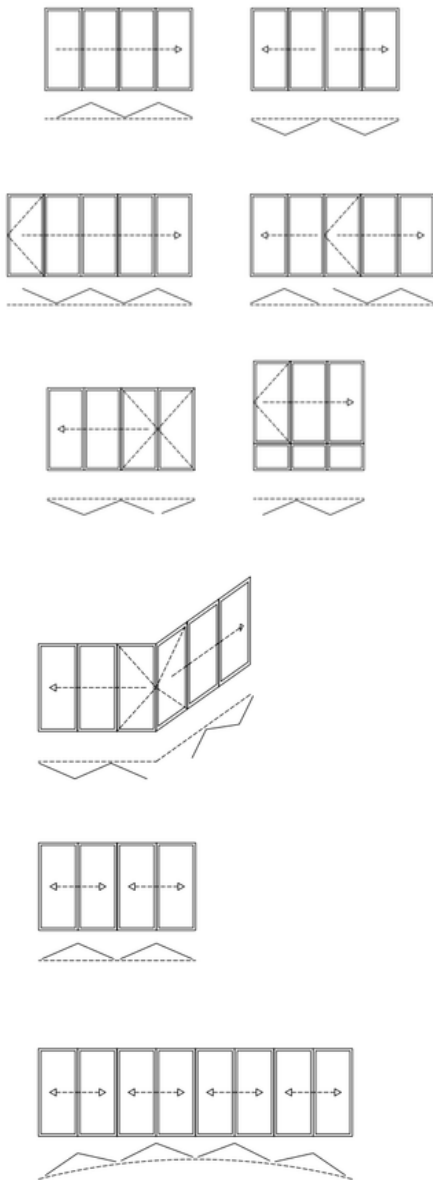
Bi-folding doors are high-quality and extremely sturdy. Our products are tested and certified to a number of security standards like PAS24, SBD, RC2 and RC3. Our Ecoline and Highline are the first bi-folding doors in the world to be certified to European security standard RC3. With RC3 certification, the Highline bi-folding door is more secure than any other on the market.



Thermal and sound insulation

A bi-folding door guarantees optimum thermal insulation and, depending on the system and packages, can also be used for passive houses. The sound reduction index that can be achieved with these elements guarantees a quiet living space, even in bustling, built-up areas.

The configuration options



Inwards or outwards, folding to the left and/or to the right, Solarlux bi-folding doors offer countless opening system possibilities. Thanks to the wide range of options available, including installation on a balustrade or with a segmented ground plan, for example, the systems are suited for use in a huge variety of projects and application areas. The individual glass elements can be opened or closed in just a few simple steps, across their whole area.

Bifolding doors can be combined with many other elements, such as tilt-and-turn panels, fixed elements and sliding doors. Since most of our systems use the same profiles, a homogenous appearance and extensive connection options are guaranteed.

Bifold Door Range

	Ecoline	Highline	Megaline	SL 35	SL 45	Combine	Woodline	SL 97
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Wood/Alu	Wood/Alu	Wood
Thermal Efficiency	Insulated	Insulated	Insulated	Not Insulated	Not Insulated	Insulated	Insulated	Insulated
Sight Line	99mm	99mm	129mm	100mm	117.5mm	147mm	143mm	184mm
Max Height*	3 meters	3.5 meters	4.5 meters	2.6 meters	2.8 meters	2.8 meters	2.8 meters	4.5 meters
Max Width*	1 meter	1.1 meters	1.5 meters	1 meter	1.1 meters	1 meter	1 meter	1 meter

*Sizes may be based on maximum height or maximum width, not both. Contact your sales rep for more information.



Sliding Doors
& Cero

Sliding Doors

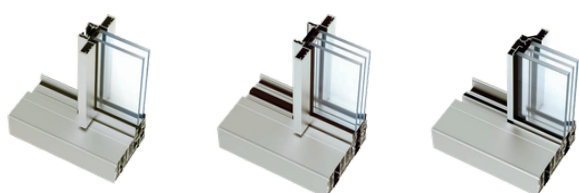
Our high-quality framed and frameless sliding and slide-and-turn doors offer various glass system designs and potential applications.

The single-glazed non-insulated products can be used for balconies, glass canopies, swimming pools, and internal partitions, while the double/triple-glazed insulated sliding systems, such as the Cero sliding window and Ecoline/Highline S sliding door, seal indoor living spaces off from the outside, just like bi-folding doors.

Cero

The cero sliding door operates within the parameters of aesthetics, functionality and quality. Its slender frames and profiles help to make the elements transparent. Its narrow profiles and slim, all-round panel frames, which are only 34 mm wide, underline the minimalistic design without compromising on aspects such as security, convenience and performance.

With ultra-slim profile sight lines, the individual sliding elements can reach up to 6 metres in height and make up a total area of 15 m² (cero III). All in all, the system is made of 98% glass providing a huge 98% daylight transparency. Spaces are flooded with light providing a feeling of airiness and grandeur.



cero II

cero III

cero IV

Sliding systems suitable for secure building entry and wintergarden glazed extensions Thermally insulated:

Cero II Sliding - Aluminium (double-glazed)

Cero III Sliding - Aluminium (triple-glazed)

Cero IV Sliding - Aluminium (triple-glazed)

Ecoline & Highline S Sliding - Aluminium

SL 178 Lift & slide - Wood

SL 179 Lift & slide - Wood & Aluminium

Sliding systems suitable for vertical glazing under glass canopies and internal use Non-insulated:

SL Proline S Slide

SL Proline T Slide-and-turn

SL Proline T Mega Slide-and-turn

Sliding systems suitable for balcony enclosures and internal use Non-insulated:

Proline S Slide

Proline S Mega Slide

SL Proline T Slide-and-turn

SL Proline T Mega Slide-and-turn





Wind and weather protection

Cero is tested and certified in the areas of air permeability, wind load, and driving rain. Its superior innovation and quality means it meets very high demands for wind and weather protection. In the area of sound insulation, the cero III system achieves a value of R depending on the configuration and glazing $R_w = 44$ dB.



Maximum glass area

With a glass surface of up to 15 m², Cero is the best example of the spatial effect that can be achieved through maximum transparency. The integrated ventilation in the glass rebate prevents condensation from forming in the space between the panes. Numerous well-thought-out details make Cero a system that guarantees convenient operation and optimal function, and stands for itself in its effect.



Highest thermal insulation & ventilated glazing rebate

Cero III allows for triple insulating glazing U Values as low as 0.8 W/m²K which satisfies passive house requirements. The standard use of toughened safety glass (TSG) prevents 2 glass breakage due to thermal stress. Our unique ventilated glazing rebate enables controlled drainage of any moisture that forms in and around the panel causing no risk of sealed unit breakdown.

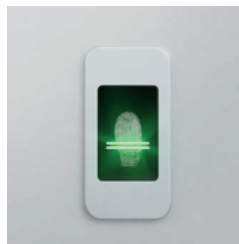


The alarm spider reports the glass breakage to a reporting system – the alarm is triggered



Rod locking with lock monitoring

A 2-point rod lock with adjustable locking points and a stroke of 24 mm into the upper and lower guide rail is standard. This can be additionally secured with closure monitoring by reed contact.



Access Control

If desired, the cero system can also be operated using a fingerprint scanner. Once the operators' fingerprints are pre-registered, the sliding elements can be opened and closed quickly and securely.



Electric Locking

Integration of an electric locking element is available upon request and enhances convenience. By connecting it to a final monitoring system within an on-site alarm setup, the locking status of the sliding panels can be continuously monitored.



Special glass

Cero can be equipped with special glass upon request. Options include alarm glass or P5A glass to meet the RC3 burglary resistance standard, as well as heat-insulating glass with various U-values or solar control glass to suit specific performance requirements.

cero II

- Maximum panel width 3 m
- Maximum panel height 4 m
- Maximum panel size 12 m²
- Insulating glass 30 – 36 mm (TSG)
- Barrier-free running rail according to DIN 18040
- Maximum weight per sliding panel 600 kg
- Day light/Glass content 98%
- Centre pane glass Ug value = 1.1 W/m²K
- Uw up to 1.35 W/m²K
- Rain tightness up to class 9A
- Air permeability up to class 4
- Resistance to wind up to B4
- Sound insulation class according to DIN EN ISO

10140 R_w = 43 dB

- Security certifications PAS24, SBD and RC2

cero III

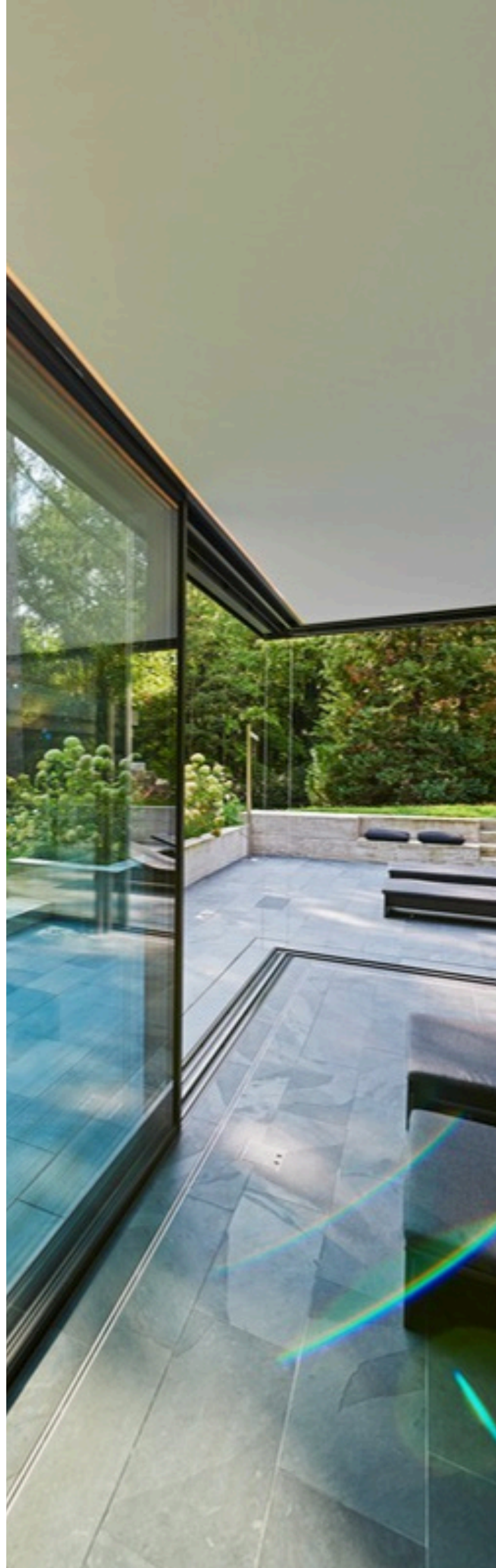
- Maximum panel width 5 m
- Maximum panel height 6.5 m
- Maximum panel size 15 m²
- Insulating glass 48 – 54 mm (TSG), 50 mm standard
- Barrier-free running rail according to DIN 18040
- Maximum weight per sliding panel 1000 kg
- Day light/Glass content 98%
- Centre pane glass Ug value = 0.5 W/m²K
- U_w up to 0.8 W/m²K
- Rain tightness up to class 9A
- Air permeability up to class 4
- Resistance to wind up to C5
- Sound insulation class according to DIN EN ISO

1.10140 R_w = 44 dB

- Security certifications PAS24, SBD, RC2 and RC3

cero IV

- Maximum panel width 4 m
- Maximum panel height 3 m
- Maximum panel size 12 m²
- Horizontal panel profile 15 mm
- Vertical panel profile 2 mm
- Insulating glass 56 – 58 mm (TSG)
- Barrier-free running rail according to DIN 18040
- Maximum weight per sliding panel 1000 kg
- Centre pane glass Ug value = 0.6 W/m²K
- U_w Value ≥ 0.9 (passive house suitability)
- Rain tightness up to class 9A
- Air permeability up to class 4
- Resistance to wind up to C1/A2





Glass Extensions

Glass Extensions

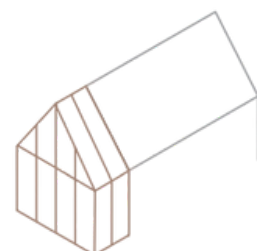
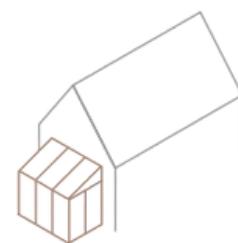
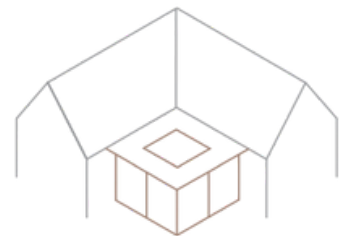
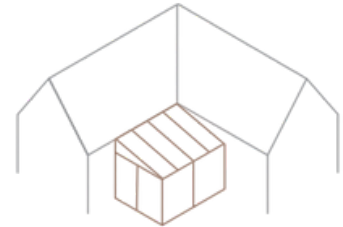
(Wintergardens)

Insulated glass structures

Glass extensions such as wintergardens are thermally insulated solutions to extending with a goal of maximising transparency, while enjoying minimal obstruction. Whether you're looking for the best possible protection from the elements or simply want to be able to enjoy the outdoors more, Solarlux has the solution with a range of glass extensions, each featuring different roof styles for different aesthetics, with certified quality and compliance with the applicable regulations guaranteed.

Solarlux can design an amazing glass extension solution for any building, from a traditional, built-on wintergarden to integrated glass architecture, over one floor or the full height of the house, covering the entire facade. The roof shapes shown here are intended purely as examples. In reality, we can make almost any type of roof you can think of, and always work to match it with the existing architectural and structural conditions of any home.

Each client can decide for themselves whether they want a harmoniously integrated extension to their living space or to add a striking touch to their home with a built-on wintergarden. Design, structural specifications, drainage, shading and ventilation – these are the key factors that help us to design the perfect roof construction and bring it to life.





SDL Avalis

Architectural spatial concept, puristic cubic aesthetic, available as stand-alone construction or extension.

- Two design options with slanted or straight roof overhangs
- A multi-laminated paneled solid wood plate roof system boasting elite surface quality
- A solid construction material with very high load-bearing capacity
- Giving you a range of options for the roof finishes
- Thermal insulation above the load-bearing level
- Can be combined with bi-folding doors or zero sliding doors



SDL Akzent Plus - Aluminium

Slim sight lines, impressive design.

- Roof pitches of 5° to 45° available
- Quick and easy assembly
- Low U-values thanks to profiles with optimised thermal insulation
- Complies with structural requirements for handling wind and snow loads
- Slender sight lines
- Wide range of combination options



SDL Akzent Vision - Aluminium

Unusual design, deliberately innovated to see how force is transferred through the system.

- Roof pitches of 5° to 45° available
- Internal structure reinforcement
- Designer rafters with special holes for an airy look
- Controlled roof system drainage
- Rafters designed to ensure maximum light penetration

SDL Nobiles - Aluminium

The perfect solution for flat roof areas, lending your home a sense of lightness.

- Roof pitches of 5° to 45° available
- Internal structural reinforcement
- Rafter profiles let in plenty of light
- Can be combined with a wide range of lighting systems



SDL Avantgarde - Aluminium/Wood

A natural, dual aesthetic with perfect weatherproofing.

- Roof pitches of 5° to 45° available
- Internal structure reinforcement
- Designer rafters with special holes for an airy look
- Controlled roof system drainage
- Rafters designed to ensure maximum light penetration



Benefits of Glass Extensions - an overview



Climate buffer zone

A highly efficient, thermally insulated glass extension acts as the perfect link between the inside of your home and the natural world around it. It is especially effective in balancing out the temperatures as the seasons change, and saves up the sun's heat to keep your home warm. On top of this, the wide range of ventilation and shading options available will provide the perfect climate inside the wintergarden.



Individual project solutions

Every glass extension we build at our factory in Melle is unique - you will never see the same one twice. That makes each Solarlux wintergarden a one-of-a-kind solution. Thanks to their different canopy shapes, colours and materials, you can always find a Solarlux glass extension to match your existing architecture. In addition to their functionality, their high-quality design represents true added value.



Experience all four seasons

Discover the first blossoms of spring, feel the warm sun on your back, and watch leaves and snow fall on the roof above your head: a glass extension gives you a front row seat to watch the changing seasons.



Boost the value of your property

A glass extension gives you more than just extra space - it's also a sure-fire way of increasing your property's value. For private and public construction projects alike, a Solarlux glass extension is always a sound investment in the material value of an existing building.





Glass Canopies

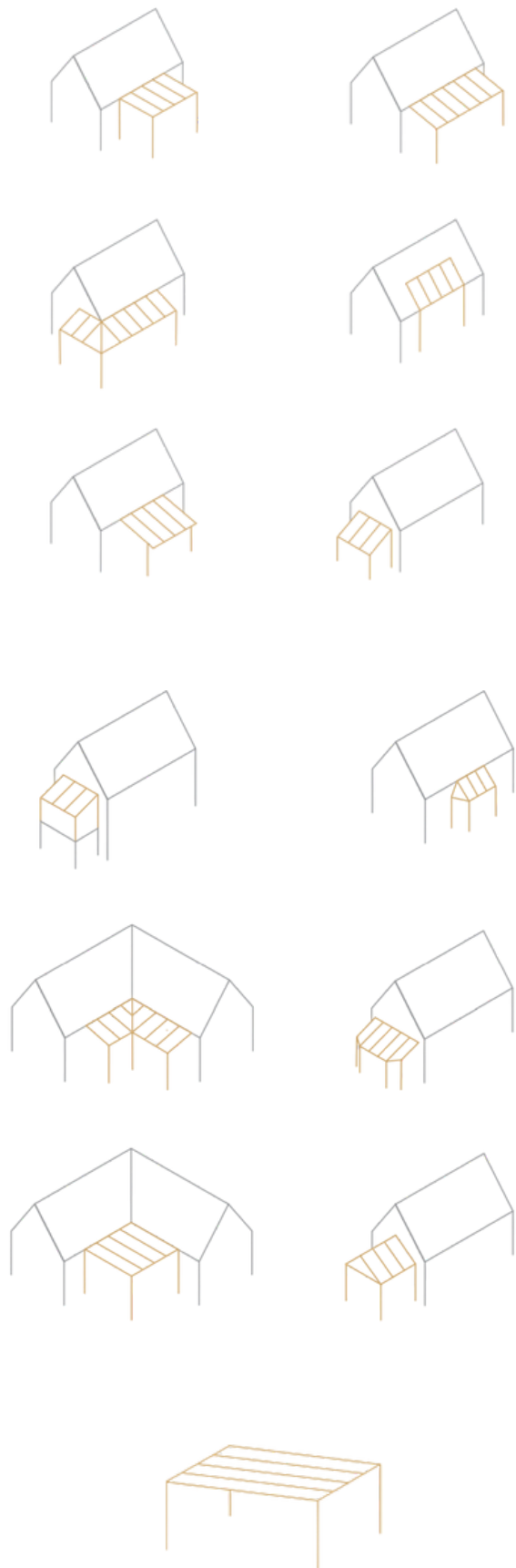
Glass Canopies/Houses

Non-insulated glass structures

The demands placed on a glass canopy can vary greatly depending on the situation: protection from wind and weather is often a priority – but the desire to be able to spend more time outdoors is also a common factor in opting for a glass canopy. In addition to this, a glass canopy also provides a permanent location for storing garden furniture and plants over the winter months. Solarlux is a company that has stood for premium quality for almost 40 years.

Perfectly tailored solutions by Solarlux: whether you choose a glass canopy or a glass house with vertical glass elements, every system will be the perfect match for both the architecture of your building and your own needs. Our bespoke solutions are also impressive in terms of their design – the canopies, shade features and vertical glass elements are conceived precisely to work in perfect harmony with one another, right down to the smallest detail.

Whatever your stylistic tastes, and regardless of whether you're looking for a glass canopy, a glass house, a statement design piece, a car port or an entrance canopy, our in-depth planning and consultation services allow us to determine the perfect shape and size to suit your ideas and wishes. Design, structural specifications, drainage, shading and ventilation, these are the key factors that help us to design the perfect roof construction and bring it to life.



SDL Acubis - Aluminium

A flat roof for modern elegance, can be a stand-alone construction or an extension to an existing building



- Top-quality design and ingenious engineering concept
- Invisible 2° roof pitch
- Stand-alone construction or connected to your existing architecture
- Can be adapted to form a glass house
- Comprehensive range of accessories available: lighting, shading, etc.

SDL Alerio - Aluminium

Internal structural reinforcement for added elegance



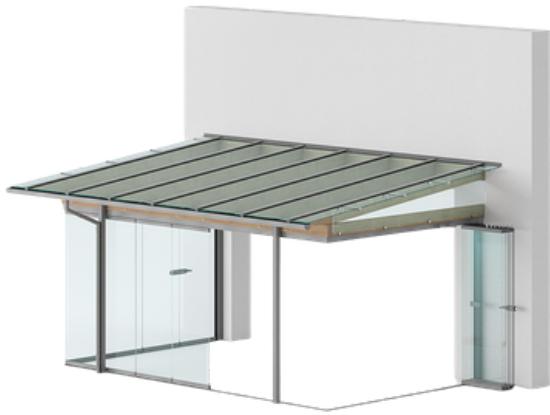
- Roof pitch: 5° to 20°
- Single glazing made of laminated safety glass with a thickness of 8, 10 or 12mm
- Variable pillar positioning
- Concealed drainage available in pillars
- System can be adapted using a variety of vertical glazing options to create a closed-off or partially closed-off glass canopy

SDL Atriumn Plus - Aluminium

The all-round solution to suit any situation for spaces of large areas of glass with great distances between the posts.



- For universal use
- Roof pitch: 5° to 45°
- Suitable for very large canopy or roof areas
- Available in almost any shape
- Comprehensive range of accessories available: lighting, shading, etc.
- With optional roof overhang at the side
- Eaves available with or without roof overhang.



SDL Aura - Wood/Aluminium

Best of both worlds, bringing the interior aesthetic close to nature, and the exterior weather resistant.

- Combined benefits: the wood/aluminium classic
- Roof pitch: 5° to 25°
- Wood: spruce
- Slender dimensions and incredibly sturdy thanks to use of the perfect wooden materials
- High level of prefabrication
- Optimum weatherproofing for rafters and eaves thanks to the externally mounted crossbeam
- Optional roof overhang at the side
- Interior or exterior shading available.

Sliding systems/elements

A glass canopy is a good place to shelter under on rainy days, and perfect hubs to enjoy the sun in the comfort of your own home. Yet if you add vertical, sliding glass elements, it becomes a glass house that will protect you against all types of wind and weather. Almost any Solarlux glass canopy can be converted into a cosy glass house. What remains, is a structure totally transparent on all sides, no reduction in daylight and flexibility to open the room fully on all sides.

Your options:

- SL Proline S sliding system (top)
- SL Proline T/Mega slide-and-turn system (right)
- SL 35/SL 45 bi-folding door (left)





Balcony Glazing

Balcony Glazing

Sliding systems for sound insulation and weather protection

With sliding-and-turn or sliding glass systems, you can protect your balcony not only from harsh weather conditions like wind, rain, and cold, but also from noise. Completely transparent or framed systems are available, depending on your requirements. The flexible, uninsulated glazing transforms your balcony into an airy outdoor seating area or a weather-protected room that can be used year-round. The various system solutions can also be retrofitted to existing parapets.

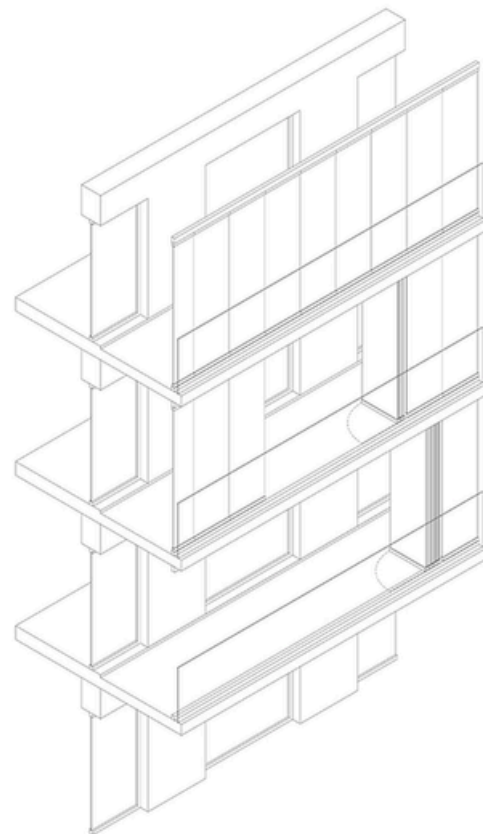
Noise emissions and changing climatic conditions today require additional protective measures for facades, loggias, and balconies. Durable, low-maintenance, and needs-based Solarlux glazing, available as either a thermally insulated or uninsulated solution, meets the demands for healthy and easily rentable living space. The use of flexible glazing solutions creates high-quality, quiet apartments and balconies that will withstand future demands.

Combining minimalist aesthetics with high-performance engineering, Solarlux balcony glazing, walkway glazing and other commercial glazing offers fully retractable, frameless glass panels that protect against wind, rain, and noise without compromising views. Ideal for residential developments, refurbishments, and high-rise projects, our balcony glazing systems in particular extend the usability of balconies year-round, enhance building efficiency, and elevate architectural appeal. They can also be retrofitted onto existing balustrades.

Areas of application and installation situations

All Solarlux glazing is configured for each project. Whether it's a new build, a renovation, or an upgrade to an existing building, we'll work with you to plan the perfect balcony glazing for your needs. This applies to projecting balconies as well as loggias and access balconies. The following options are available:

- Floor-to-ceiling glazing with railings
- Glazing on Solarlux all-glass parapet
- Balcony module with glazing and parapet in pre-assembled frame
- Glazing on an existing parapet
- segmented systems with a rounded floor plan
- Soundproof glazing for windows (box windows)
- Access glazing with automatic smoke extraction
- Walkway Glazing





Proline S/Mega S

Sliding system

- Glass panes fixed at the top and bottom of the profile
- 2 and 3 track versions
- Unloading of sash weights up to 150kg
- Glass thickness 12 and 15mm
- Upper anti-lift device for maximum safety in high wind loads
- Permanent ventilation and protection



SL Plus

All-glass balustrade

- Combination with Solarlux balcony glazing
- Glass cladding from the handrail to the bottom
- Profiling designed for high wind loads
- No visible screw connection
- No side wall bracket required for mounting
- Parapet can be extended as required



Proline T/Mega T

Slide-turn system

- Super narrow profile views
- High sound insulation of up to R_w 30 dB
- For high wind loads up to 18mm VSG
- Safe air exchange
- High breaking strength, no glass-metal contact
- Storey-high or on parapet
- Up to 3 ventilation positions possible



SL Modular

Uninsulated facade module

- Visually appealing solution as a curtain wall
- Facade is placed in front of the concrete slab, thus no reduction in balcony area
- No damage to the thermal insulation composite system
- Individual parapet design
- Protected concrete surfaces, no additional renovation costs



Ecoline M

Insulated facade module/bi-folding

- Individual configuration of size, sash and opening variants
- Visually appealing solution with integrated drainage
- Slim visible widths of the surrounding frame profile
- Short assembly times due to modular design
- Balcony character is retained
- Various variants of strengthening in the static beam

Benefits of a Balcony systems - an overview



User friendly systems

In addition to being put through their paces in durability tests by our in-house research and development team, they also provide technical details that make them easier to operate. For example, our bi-folding doors can be equipped with a cleaning pin with “Easy Clean Technology”, which makes the outside of the panel easy to clean, even on top floors, and renders incorrect operation absolutely impossible.



Wind and weather protection

The flexible glazing solutions ensure perfect protection from the elements and allow you to enjoy your balcony for more often. Rain rolls off, the wind is kept out, and on sunny days, the glass elements can be opened up across the entire width of the balcony.



Thermal insulation and energy savings

Solarlux systems such as our bi-folding doors – which are also available in combination with our curtain-hung facade module as a parapet element – offer optimum thermal insulation. From the fulfilment of the latest regulations of the German Energy Savings Ordinance (EnEV) up to passive house standards, Solarlux provides the right system for you.



Sound insulation and ventilation

Apartments on the outskirts of cities are more popular than ever, but noise levels often present a significant challenge in these areas. Solarlux balcony glazing ensures optimum sound insulation up to R_w 45 dB, making living space on busy roads much more attractive. Solarlux systems also allow mechanical ventilation by means of trickle ventilation built into the glazing or by tilting the windows.



Opening options

Opening inwards or outwards, folding to the left and/or right, folding or sliding to the side – Solarlux systems offer a wide range of opening options. The individual elements can be opened across their entire width in just a few easy steps.



Thermally insulated balcony and facade systems

Open up rooms - expand rentable space

Bi-folding doors are ideal for extending the rentable area of a home or transforming the living space into a pergola with a balcony aesthetic. The thermally insulated profiles with innovative glazing create a continuous facade, behind which the balcony becomes a living space. The key to this is the same for every application: the bi-folding door can be opened across its entire width, folding up like an accordion.

At a glance

- Creates additional, fully rentable living space
- Wide openings maintain the balcony aesthetic in the room
- Sound insulation up to 45 dB when installed
- Quick installation thanks to prefabrication and easy adjustability, even with dimensional tolerances
- Curtain-hung facade as an option to prevent damage to the balcony slab



An Article

How balcony glazing transformed this office space in Netherlands

The innate desire for more light and space in both home and work environments has been brought to the forefront by the ongoing pandemic. Currently at a crossroads leading into unknown territory, new approaches are already being taken by architects shaping the post-COVID-19 built environment.

The Solarlux administration building in the Dutch town of Nijverdal has successfully reimaged the workstation of today, setting new standards in terms of a sustainable building that puts the focus back on the individual, blurring the lines between home and work to instill a 'home from home' feel.

The building is thermally protected with insulated bifold doors, encased in a balcony glazed shell; the uninsulated sliding elements offer full flexibility in controlling the temperature, air flow and light.

Utilising the hygienic and mental health-boosting benefits of light and fresh air is a crucial take-away here for proactive architects developing modern structural techniques, in response to the current situation.

Solarlux bifold doors and slide turn frameless glass systems tick all the boxes when it comes to eco-friendly, sustainable, protective glazing solutions that adhere to urban planning regulations and social distancing rules - whilst enabling natural movement of air and communication at work.

Using only the power of nature - solar and geothermal energy - Solarlux staff are able to actively influence the room climate and temperature using the façade; effectively setting new sustainable development standards in terms of ecology, economy, as well as from a human point of view.

Some of the benefits include:

- Reduced energy consumption
- Increased productivity
- Minimum technical installation
- Sustainable solution
- Boosts mental health with fresh air and maximum light



Contact Us

At every stage of your project, our team of experienced architectural consultants, sales managers, and technical advisors are here to support architects and planners in bringing your vision to life.

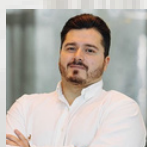
To experience the quality and innovation of our glazing solutions up close, we warmly invite you to visit one of our inspiring showrooms. Our flagship exhibition space, spanning nearly 3,000m², is located at the Solarlux Campus in Melle, Germany. Here, you'll find the full spectrum of our product range presented in a dynamic and immersive setting.

Our dedicated consultants are on hand to offer expert guidance and tailored support for your project.

Get in touch with the team who will be happy to support you through your project from start to finish.

We look forward to working with you.

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Bifold Doors

Scan for more information



Cero Sliding Doors

Scan for more information



Sliding Doors

Scan for more information



Wintergardens

Scan for more information



Glass Canopies

Scan for more information



Balcony Glazing

Scan for more information





 SOLARLUX