



FOLDING GLASS DOORS



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## More living space

The use of glass in architecture causes boundaries and facilitates communication between indoors and outdoors. Folding glass doors from Solarlux set standards in this unique interplay. They are examples of new contemporary living concepts, offering openness coupled with security.

Thresholds vanish as the glass panels fold to merge indoors and outdoors, completely opening up the living space into the garden. Folding glass doors thus offer more space in every dimension: **more light, more air, more space - more enjoyable living!**



## Simply great

### Advantages of a Solarlux folding glass door

Create individual living spaces, wide-open and flooded with light, which remove the barrier between inside and out and improve quality of life and ones living environment. Whether the space is used for private, public or commercial purposes, our innovative glazing solutions made of aluminium, wood or wood/aluminium enable you to achieve sophisticated architecture for both new builds and renovations.

Opened across the entire width, folding glass doors remove all boundaries to living space, giving the term "open plan" a wholly new dimension. The custom-made flexible glazing solutions by Solarlux can be opened or closed to the width you require easily.

| **Expansive:** The absence of a threshold between inside and outside gives more living space.

| **Space-saving:** A five metre wide folding glass door can be easily folded away like an accordion to a mere 50 cm in width.

| **Varied:** The aluminium, wood or wood/aluminium systems assimilate perfectly with the style and architecture of the house.

| **Flooded with light:** Large expanses of glass let daylight deep into the interior of the house.



## A world of possibilities

### Applications and opening options

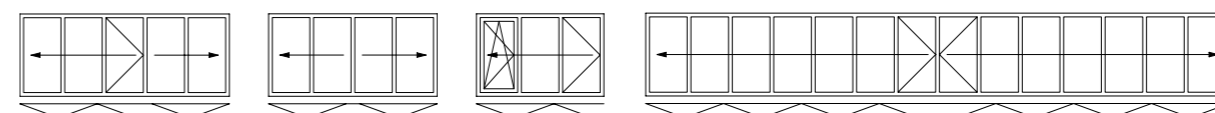
Period property, new build, stylish country home, modern town house: folding glass doors lend every property a unique sense of space and ambience. As an interior partition wall; to open up the room to the balcony, patio or garden; to transform your glass canopy into a glass house; or as balcony glazing - take inspiration from these impressive examples of innovative folding glass doors in use.

The one factor which unites all our solutions is the outstanding quality both of the materials used and the structural implementation. As the market-leader in folding glass doors we offer you a large selection of different systems for every application, uninsulated or with maximum heat insulation. On the following pages, enjoy an insight into dream living spaces that have already been realised.

## Opening options

### Ultimate design freedom

Make the most of total flexibility: opening out or in, folding to the left and/or right, Solarlux folding glass doors offer countless opening options. In addition, the range of bespoke solutions also includes turn-and-tilt panels and window elements.





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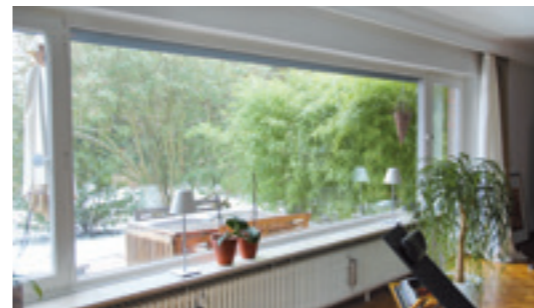
## Modern interior design creates usable space

### Expansive wrap-around opening

The ground floor is dominated by a spacious, open-plan room: modern and multifunctional, it serves as kitchen, dining and living area all in one. The flexible wrap-around glass front allows one's gaze to drift unhindered across the garden.

When the folding glass doors are open, living space and patio become one, defining the garden as a natural extension of the home. When the glass elements are closed, one's view remains boundless and offers a sense of expanse.





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## Renovation as expansive transformation

### From inflexible barrier to maximum openness

When it comes to the renovation and thorough redevelopment of old buildings, folding glass doors provide light transparency and flexible openness. They transform once cramped, dark rooms into bright, inviting areas with more spacious dimensions.

For example, the forbidding, closed façade of this building overlooking the garden was generously opened up. This renovation has truly transformed the house: modern, spacious and flooded with light, the living and dining area opens into the garden.





## Flexible and varied living

### A partition wall makes a perfect kitchen

Increasingly, living trends are moving towards flexible interior design with a variety of uses. A glass partition wall makes such individual division possible. The folding glass door can be opened or closed according to one's needs; the space is no less light or transparent when the partition is closed.

In addition, the glazing can be adapted to meet special architectural requirements. Here, a folding glass door was used instead of a window above the kitchen counter, thus creating a communicative atmosphere with the adjoining living room.







## Urban living without the drawbacks

### Intelligent façade solution for optimal sound insulation

Inner-city living has a unique appeal, but does call for clever concepts: those who wish to enjoy a relaxing vista in the midst of pulsating city life are reliant on an intelligent façade solution.

Here, a heat-insulated wooden folding glass door separates living space and balcony; transparent, flexible balcony glazing forms the outer skin. This double-skin façade provides perfect sound insulation and enables the residents to regulate how much air and urban atmosphere they wish to let into the house.





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## Threshold between inside and outside

### Folding glass door as the centrepiece of the wintergarden

With a wintergarden from Solarlux, you are gaining a new favourite space full of light and airy transparency. House and garden blend into one in this space, which brings nature into the heart of the home. Thanks to the flexible folding glass doors, you decide where the threshold begins and ends, according to the weather and use of space.

Folding glass doors form a partition between the living space and the wintergarden, and create a threshold between wintergarden and nature. They thus help to regulate the indoor climate: a highly efficient heat-insulated wintergarden captures the power of the sun, thereby heating the living space.



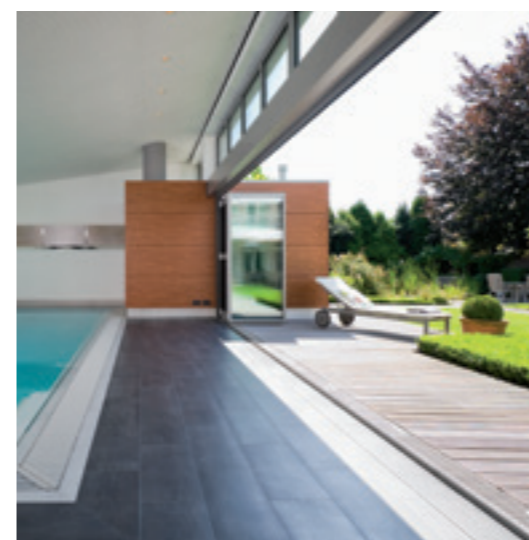


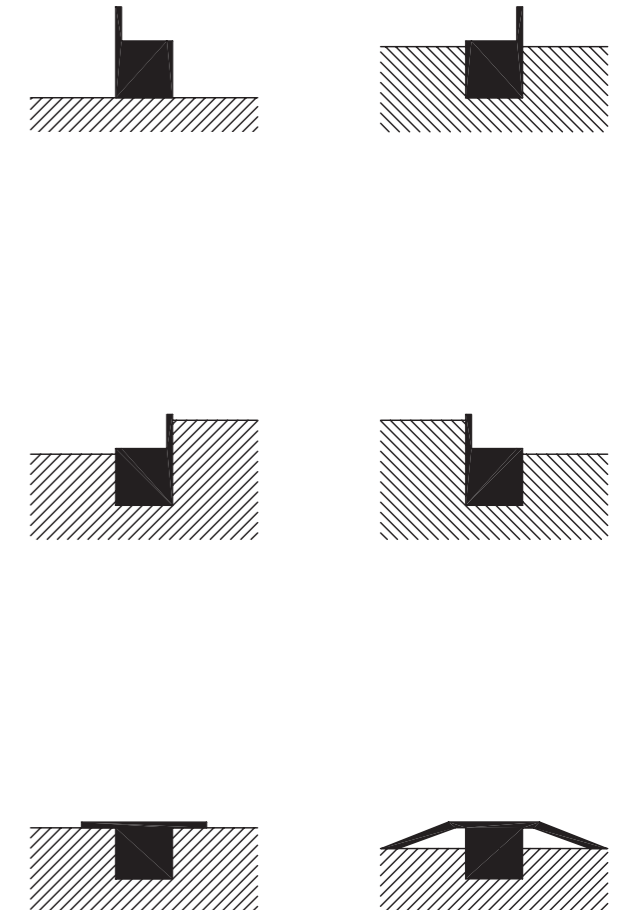
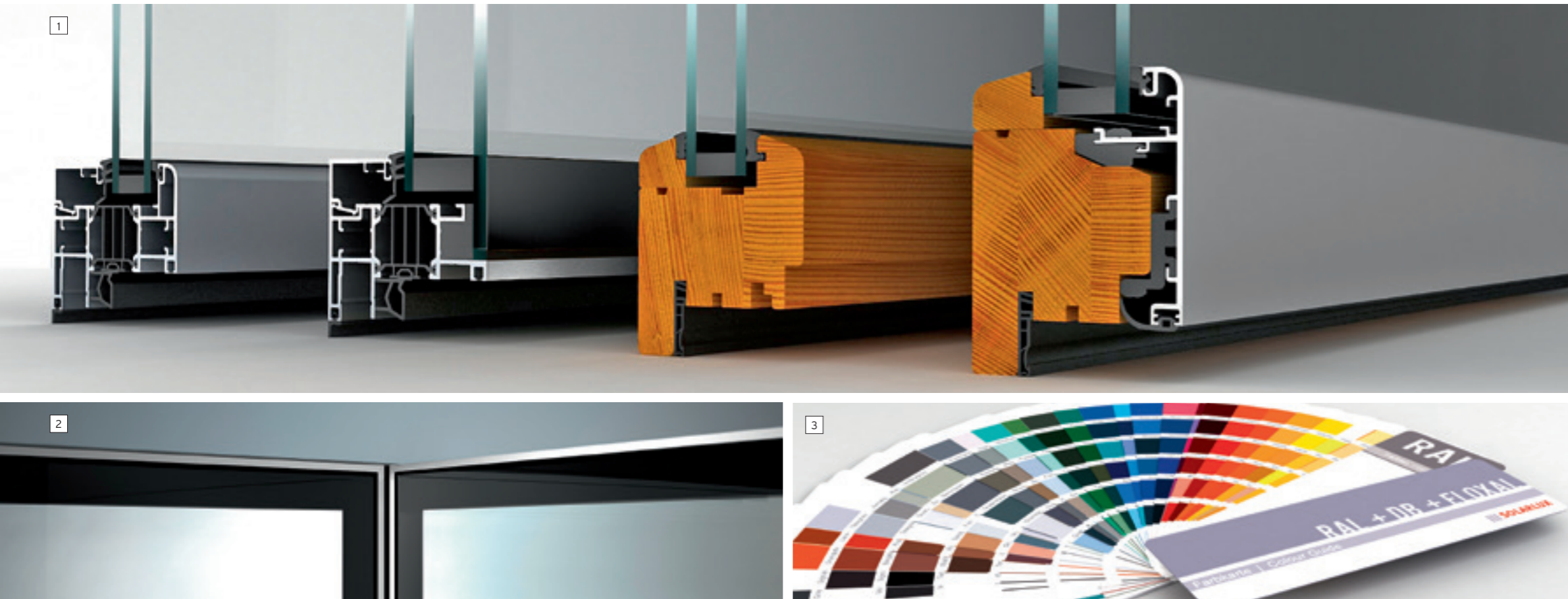
## An oasis of well-being in your own garden

### Pool glazing for endless swimming fun

Well positioned on the fringe of the property, the pool house and sauna provide for active relaxation all year round. Folding glass doors can be opened completely to give you a view of the lovingly tended garden and the impression of swimming outdoors whilst in the direction of the lovingly tended garden, the glass front can be completely opened. Seamless transitions allow the pool to become an integral part of the extensive grounds.

Whilst in summer it is possible to athletically swim lengths or lazily splash about in the open air, in winter the high level of heat insulation provided by the folding glass door makes for a comfortable pool house: the closed glass elements keep out the cold and wind while giving bathers unique winter vistas in the pleasant warmth.





## When design meets ecology

### Materials and equipment options

The materials used by Solarlux - aluminium, wood and glass - meet the highest quality standards. All of the wood we use is FSC and PEFC certified and sourced from sustainable and managed sources. The aluminium is not only corrosion-proof and light, but is also immensely durable. Because Solarlux folding glass doors are designed to last, they are also designed to be timelessly stylish.



- Choice of materials:** Sections in aluminium, wood, wood/aluminium or all-glass effect accentuate the design of the space and façade in keeping with the style of the house.
- The best, from any perspective:** Innovative glazing solutions meet the most stringent standards in thermal insulation and safety whilst also offering maximum transparency.
- Premium finishes:** High-quality coating (DURA@xal, RAL, DB, Eloxal) of the aluminum or multi-layer varnishing of the wood to furniture standard ensure robust durability.

## Floor tracks for every room

Depending on the room and structural properties, a variety of floor tracks offers wide-ranging options for crossing the threshold between outdoors and indoors. Barrier-free movement is possible with all Solarlux systems.



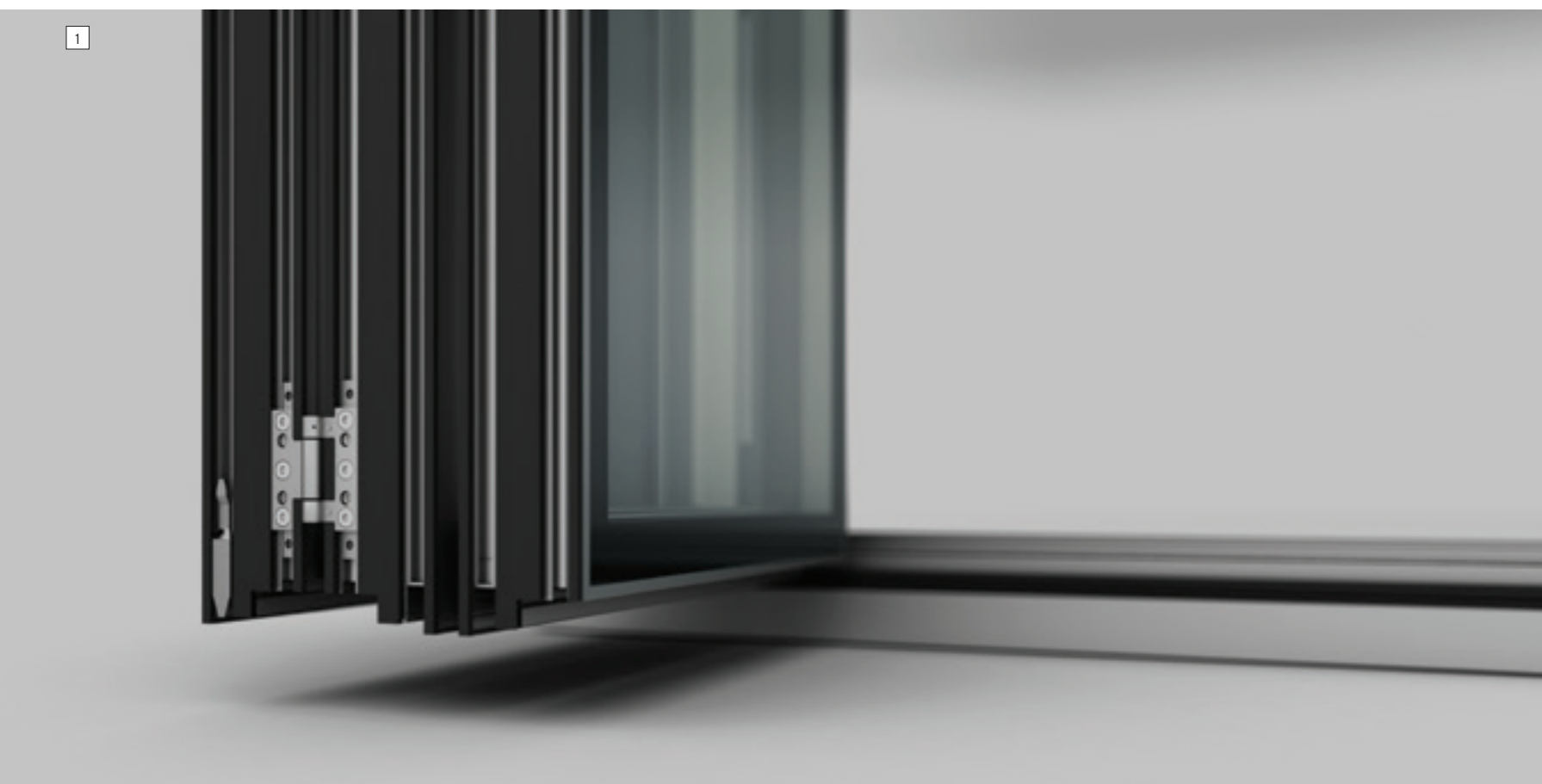
## Innovation and safety

### Awards and certificates

The high quality and durability of Solarlux systems have been proven time and time again around the world, and are certified both nationally and internationally: all Solarlux systems are constantly tested and subject to continuous further development. Sound insulation, impermeability, burglar protection, and resistance to wind and hurricane have been tested and certified by renowned test institutes, both domestic and foreign.

One of the highest standards which Solarlux has set as its goal is the perfect synthesis of design and functionality. This ethos led Solarlux to develop the folding glass door SL 82, which is thermally insulated to conform with the latest EnEV, for visually and architecturally superior solutions. And already it has received two design prizes - the iF design award and the red dot design award!





## Perfection down to the finest detail

### Function and quality



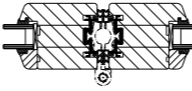
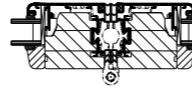
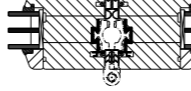

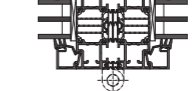
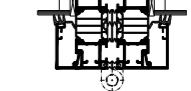
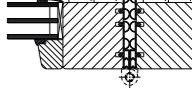
Having accumulated vast technical experience and an ability to innovate over the years, our systems feature precision down to the minutest detail. The use of high-grade materials and the professional “Made in Germany” hallmark are a guarantee of superb quality. This combination of perfect components of the highest standard makes the operation of our folding glass doors immensely easy and ensures extreme durability.

- 1 Linchpin of the folding glass door:** Specially developed, adjustable fittings, which make it possible to fold the glass panels.
- 2 A view to energy efficiency:** Excellent section heat insulation coupled with innovative glazing enables constant ambient conditions all year round.
- 3 Exceptional ease of operation:** Durable stainless-steel carriages ensure that the glass panels function flawlessly, run easily and are almost silent.

# Overview of models

## Folding glass doors at a glance

● Available ○ Not available

	SL 35	SL 45	SL 60e	SL 66	SL 67	SL 78	SL 70e	SL 80/81	SL 82	SL 97
<b>Material</b>										
Aluminium	●	●	●	○	○	○	●	●	●	○
Timber	○	○	○	●	○	●	○	○	○	○
Timber/aluminium	○	○	○	○	●	○	○	○	○	●
<b>System profile</b>										
Heat-insulated	○	○	●	●	●	●	●	●	●	●
Non-insulated	●	●	○	○	○	○	○	○	○	○
Installation depth	35 mm	45 mm	59 mm	66 mm	66 mm	78 mm	70 mm	80 mm	80 mm	96 mm
<b>Glazing</b>										
Float glass	●	●	○	○	○	○	○	○	○	○
Insulating glass	●	●	●	●	●	●	●	●	●	○
Heat-insulated glass	○	○	●	●	●	●	●	●	●	●
Triple glazing	○	○	●	○	○	●	●	●	●	●
Functional glass	●	●	●	●	●	●	●	●	●	●
Glass thicknesses	5 - 18 mm	5 - 20 mm	5 - 40 mm	5 - 28 mm	26 - 32 mm	24 - 40 mm	20 - 38 mm	24 - 44 mm	30 - 38 mm	24 - 46 mm
<b>Thermal insulation value</b>										
U-value (U <sub>w</sub> / m <sup>2</sup> K)	○	○	1,1	1,1	1,3	1,0	1,4	1,0	1,2	0,80
<b>Panel sizes</b>										
Maximum panel weight	65 kg	100 kg	80 kg	70 kg	70 kg	100 kg	100 kg	100 kg	100 kg	70 kg
Special sizes	on request	on request	on request	on request	on request	on request	on request	on request	on request	on request
Segmentation	○	to 22,5°	○	○	○	○	●	○	○	○
<b>Colours</b>										
Aluminium coatings in RAL, DB, NCS, DURA@xal, Eloxal	●	●	●	○	●	○	●	●	●	●
Solarlux wood colours	○	○	○	●	●	●	○	○	○	●
<b>Application areas</b>										
Exterior elements for living spaces	Only in a Mediterranean climate	Only in a Mediterranean climate	●	●	●	●	●	●	●	●
Wintergardens	○	○	●	●	●	●	●	●	●	●
Glass canopies/glass houses	●	●	○	○	○	○	○	○	○	○
Balcony glazing	●	○	●	○	○	●	○	○	○	○
Partition walls	●	●	●	●	○	○	○	○	○	○
<b>Special features</b>										
	Strong yet slim sections	A whole spectrum of panel styles	Slim profiles offering good heat insulation	A whole spectrum of panel styles	Aluminium cladding for weather protection; wood offers homely atmosphere inside	Good heat insulation with wood effect	XXL panel heights of up to 3,500 mm are possible	Highly heat-insulated yet slim sections; choice of softline or angular sections	Outstanding design in all-glass effect	Highest level of heat insulation; suitable for passive houses
<b>Technical detail</b>										
										
<b>Burglar resistance</b>										
	○	○	RC2	WK2	○	WK2	○	RC2	○	○

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## Glazing ideas on show

### Exhibition and advice

Located at the Solarlux Forum in Bissendorf is a 2000 m<sup>2</sup> exhibition space where you can experience the entire variety of high-quality glass solutions – from wintergardens to folding glass doors and on to glass canopies and glass houses. Here, you can really get to grips with the systems: not only can you have a close look at them, but you can test the function and user-friendliness of Solarlux folding glass doors for yourself!

An extensive network of dealers ensures that you will find an expert contact partner in your area. A list of Solarlux stockists can be found on the Internet or by giving us a call – we would naturally be happy to tell you where to find your nearest stockist over the phone.



