



COMMERCIAL FAÇADES



"We wanted to make the atmosphere of Düsseldorf's Media Harbour tangible, even inside the building. The folding glass doors from Solarlux allow the interior and exterior areas to be merged well protected in the winter with a breath-taking view of Düsseldorf's skyline and with the wide-open façade of the restaurant overlooking the Media Harbour in summer."

Monique Dekker, General Director, Hyatt Regency Düsseldorf



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- Reduce energy costs
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Extend the sales floor

Boost sales

Open or closed? With either partly or completely open folding glass doors and horizontally-sliding-walls, you can guide the flow of customers according to the situation and requirements: Extend your restaurant or sales rooms on a large scale or discreetly close off certain areas – our systems can be ideally adapted to your current sales situation demands. The opening options are infinitely flexible.

| **Extension of the sales area**

| **Patented finger pinch guard**

| **Channelling of the flow of customers**

| **Simple handling**

| **Threshold-free entrance / barrier-free access**

| **Exploitation of new sales potential**





Reduce energy costs

Guaranteed energy efficiency

Inviting and transparent, energy efficient and safe. The future-oriented solutions from Solarlux successfully synthesise seeming opposites. With heat-insulated glazing, you can save a third on your energy bills. As such, the pending statutory regulations for non-residential buildings are optimally fulfilled. At the same time, you will create a cosy atmosphere for your guests as all Solarlux systems are tested to ensure impermeability to the wind and rain – for unparalleled room quality without draughts and the associated loss of energy.

- | **Systems with first-class thermal insulation**
- | **Compliance with the German energy saving regulation (EnEV) for non-residential buildings**
- | **Very good U-values of up to $U_w = 0.8 \text{ W/m}^2\text{K}$**
- | **Gain of passive solar energy**
- | **Use of daylight for a feel-good ambience**
- | **Ideal for all architectural styles/renovations**

"A cosy environment and a puristic design are the trademarks of our restaurants. When designing the façade, Solarlux exceeded our expectations. The heat-insulated glazing means a sustainable reduction in our energy costs and yet our guests do not even feel the slightest of draughts. We were also impressed by the technology – the glazing is extremely flexible and can be completely opened and parked in a niche. This allows us to extend our restaurant outside in summer."

Alexander von Bienenstamm, Managing Director of COA Frankfurt



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Tested safety

Maximum comfort

All Solarlux systems are characterised by their high functional safety, stability and longevity. Test certificates issued by national and international institutes (such as ift Rosenheim, Architectural Testing, ISO 9001:2008, CE) ensure the highest degree of quality and product safety. For use in seawater areas, with burglar or hurricane protection – we offer ideal solutions for all your demands.

- | **Tested windproofness and impermeability to rain**
- | **Airborne sound insulation of up to 45 dB**
- | **Compensation of building tolerances possible**
- | **RC2 burglar protection (new European standard)**
- | **CE, ISO, FSC and PEFC certifications**
- | **Low-maintenance systems**





Creative scope

Outstanding functionality

Solarlux offer solutions for all applications: Regardless of whether the commercial façade is inside or outside, part of a shopping mall or forms the entrance to a hotel or restaurant. Thanks to their intuitive operation and the free-moving stainless steel running and fitting technology, Solarlux systems can be effortlessly operated by a single person. Opening up the rooms in the morning, closing them in the evening and adapting them in the interim in line with the wind, weather and number of visitors couldn't be easier.

| **Uninsulated and heat-insulated systems**

| **Tailor-made solutions for inside and outside**

| **A wide range of ground plans can be realised**

| **Large range of colours (DURA®xal, RAL, DB, Eloxal)**

| **Choice of materials – aluminium, wood or wood/aluminium**

| **Combination with fixed elements**

"For our connoisseur's lounge we wanted a complete solution to extend our sales room. Thanks to Solarlux glass structures outdoor areas can be used for longer and our guests can enjoy a feel-good and protected atmosphere whatever the weather. And with the movable glazing systems, we can react flexibly to customer wishes and make our restaurant wide open for guests."

Reiner Froitzheim, McDonald's franchisee

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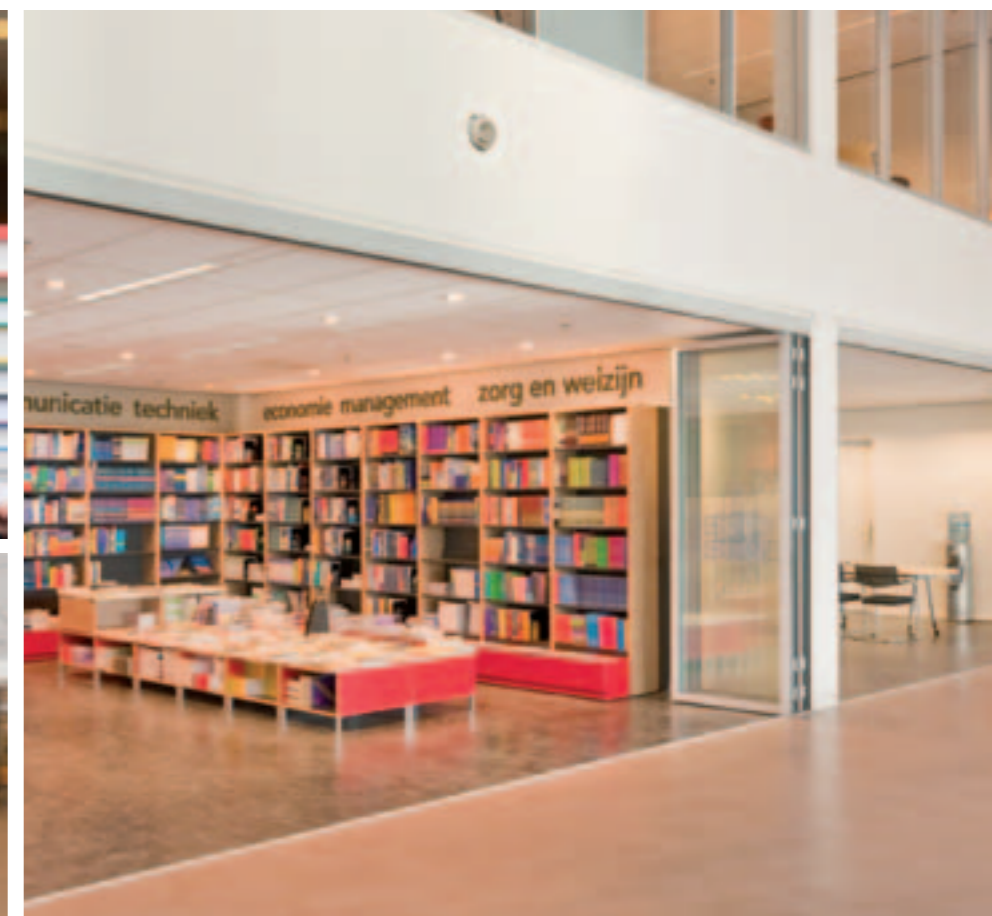


Folding glass doors

Customer orientation impressively displayed

A folding glass door as a commercial façade is a direct invitation to potential customers to enter your shop, restaurant or hotel. The high-quality stainless steel running technology guarantees durability as well as convenient operation even with a maximum panel size of 3500 mm. An opening measuring five metres in width can be easily folded together to a mere 50 cm and parked to one side out of sight.

The wide range of uninsulated and heat-insulated systems as well as the ability to adapt to the structural conditions are the key to flexibility: Sales rooms with seamless transitions from the inside to the outside can be created virtually everywhere.





SL 45

Unrivalled spectrum of versions

The uninsulated aluminium folding glass door offers optimum stability and burglar protection. This folding glass door is characterised by its filigree sections with slim profiles and numerous opening options. Segmentation at an angle of up to 22.5° is possible. All this makes the SL 45 the system of unlimited possibilities.

- | Element thickness 45 mm
- | Unrivalled spectrum of panel constellations
- | Good burglar resistance thanks to SL convenient lock
- | Glass thicknesses from 5 to 20 mm available

SL 70e

Maximum perspectives

This heat-insulated, aluminium folding glass door offers an almost unlimited number of opening constellations. A segmentation of the glass façade and very large panels are made possible by the tracking roller-mounted post. The SL 70e is the premium system when it comes to complex construction geometries.

- | Element thickness 70 mm
- | $U_w = 1.4 \text{ W/m}^2\text{K}$
- | Glass thicknesses from 20 to 38 mm available
- | Panel heights of up to 3,500 mm are possible

SL 80/81

Maximum thermal insulation

This folding glass door delivers excellent thermal resistance in accordance with the latest version of the Energy Saving Regulation (EnEV) with the most streamline of profiles. The SL 80 offers an interesting choice of rounded Softline sections and the SL 81 angular sections. It doesn't get better than SL 80/81 for thermal insulation.

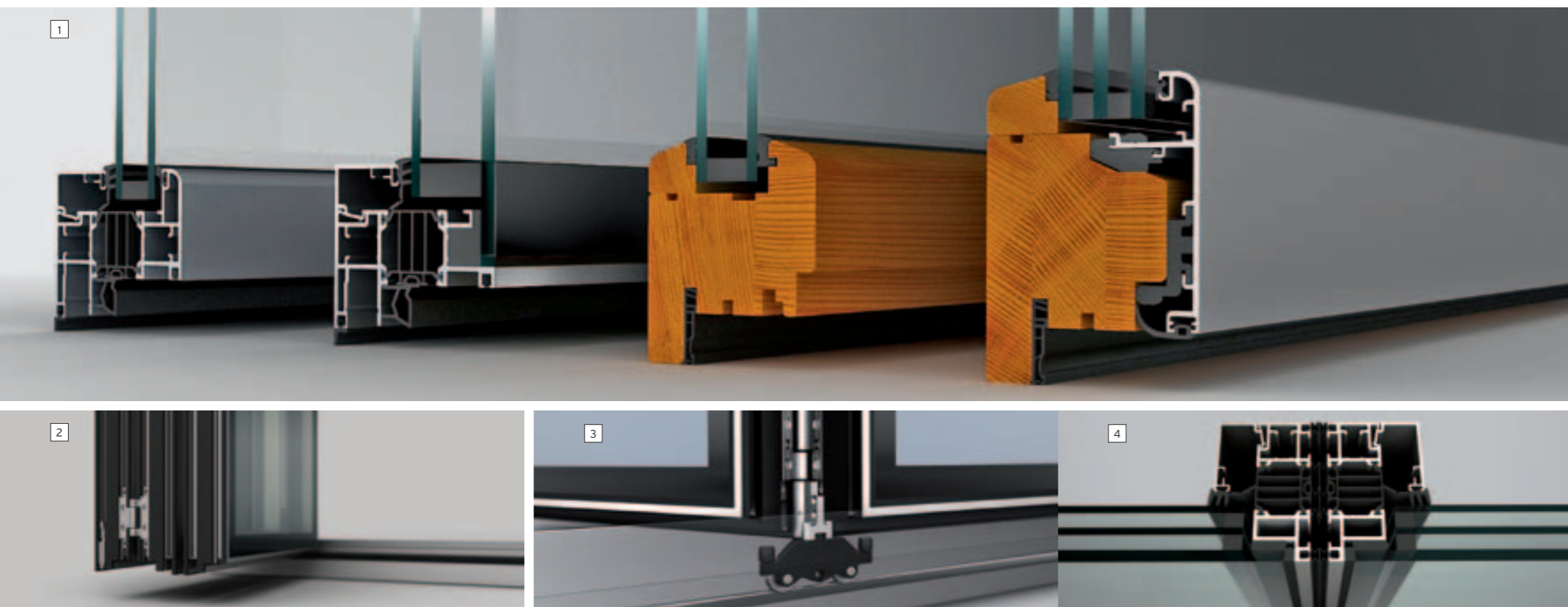
- | Element thickness 80 mm
- | $U_w = 1.0 \text{ W/m}^2\text{K}$
- | Burglar protection in accordance with RC2
- | Glass thicknesses from 24 to 44 mm available

SL 82

Outstanding design

The SL 82 is a heat-insulated folding glass door with an all-glass effect. Flush-mounted stepped-edge glazing in a slim-line protective aluminium frame ensures a highly aesthetic quality. Double and triple glazing meet the most stringent demands in terms of thermal insulation. SL 82 is the system for satisfying impeccable design standards.

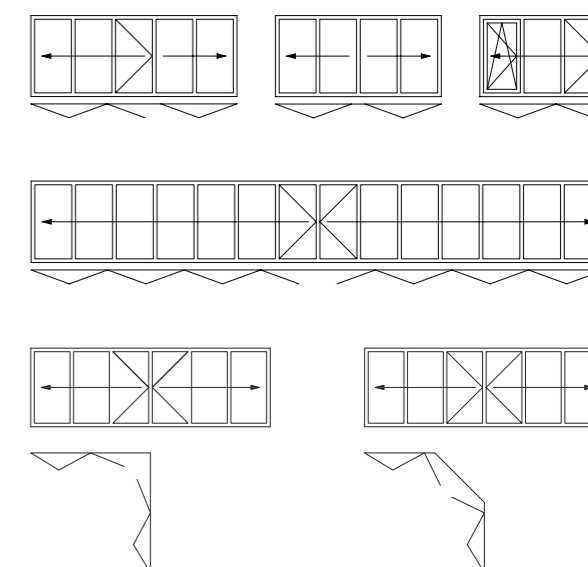
- | Element thickness 80 mm
- | Stepped-edge glazing over the sections creates an all-glass look
- | $U_w = 1.2 \text{ W/m}^2\text{K}$
- | Glass thicknesses from 30 to 40 mm available



Examples of floor tracks



Examples of opening options



Ultimate design freedom
 Materials & equipment details

Take advantage of unbeatable flexibility and threshold-free comfort and convenience: Solarlux folding glass doors can be opened inwards or outwards, folded to the left and/or right and are suitable for straight and segmented ground plans. In addition, the integration of turning doors further expands the range of available solutions.

Depending on the entrance area and structural properties, a variety of floor tracks offers wide-ranging options when designing the entrance to commercial properties. Barrier-free movement is possible with all Solarlux systems.

- 1 **Choice of materials:** The materials used - 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.
- 3 **Exceptional ease of operation:** Durable stainless-steel carriages ensure that the glass panels function flawlessly and run easily, and almost noiselessly.

- 2 **Linchpin of the folding glass door:** Specially developed, adjustable fittings, which make it possible to fold the glass panels. This enables building tolerances to be compensated for even when the system is installed.
- 4 **A view to energy efficiency:** The maximum thermal insulation of the sections combined with double and triple glazing ensure a constant room climate all year round.



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Horizontally-Sliding-Walls

All-rounders for flexible shop concepts

Horizontally-sliding-walls are a great alternative to folding glass doors for handling complex ground plans and when space is at a premium. The panels of the horizontally-sliding-walls can be moved and locked individually and can be pushed into virtually invisible niches. Whether for barrier-free commercial façades or as transparent partition walls, the numerous opening options and variable configuration of the niches guarantee the ideal solution for every room situation as well as an unbeatable degree of design freedom.

Horizontally-sliding-walls are available in all-glass, wood and aluminium versions to match the architecture and design of the building in question. High-quality coatings accentuate the room and façade in line with your corporate design.





SL 60-HSW
 Unbeatable energy efficiency

Thanks to the heat-insulated aluminium sections, the horizontally-sliding-wall SL 60-HSW achieves a U-value of 1.5 W/m²K. As such, you can realise flexible and energy efficient shop concepts both indoors and outdoors with a panel height of up to 3,500 mm.

- | Element thickness 59 mmh
- | U_w = 1.5 W/m²K
- | Glass thicknesses of 5 to 40 mm
- | Automatic locking and unlocking available

SL 65-HSW
 Natural effect

The horizontally-sliding-wall SL 65-HSW made of triple-laminated wood is easy to adapt to a range of different styles. Modern, traditional or classic – use this system to design flexible room openings and choose from a range of woods and colours.

- | Element thickness 66 mm
- | U_w = 1.4 W/m²K
- | Glass thicknesses of 5 to 28 mm
- | Wood types: pine or spruce, special wood types on request

SL 45-HSW
 Economical use of space

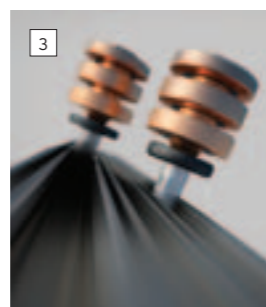
The uninsulated aluminium horizontally-sliding-wall SL 45-HSW appears light and slim even with tall panels. The individual elements disappear almost completely into their niches.

- | Element thickness 45 mm
- | Glass thicknesses 5 bis 20 mm
- | Panel heights of up to 3,000 mm
- | Wide spectrum of panel constellations

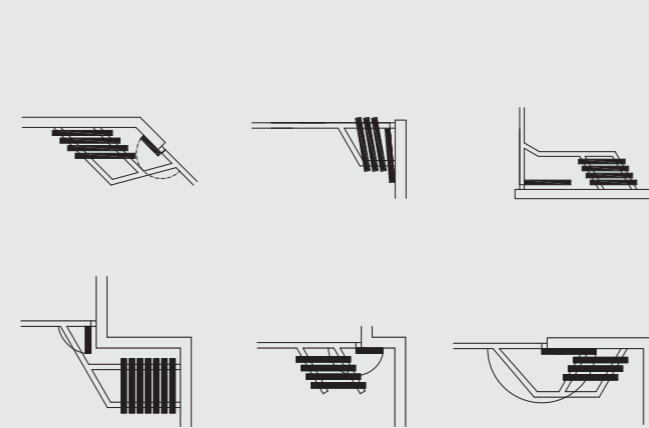
SL All-glass HSW & SL 25 XXL
 Maximum transparency

The SL GG-HSW and SL 25XXL systems unite the economical use of space with maximum transparency. The innovative opening mechanism and the threshold-free track/rail technology offer unlimited creative scope for optimal presentation of your goods.

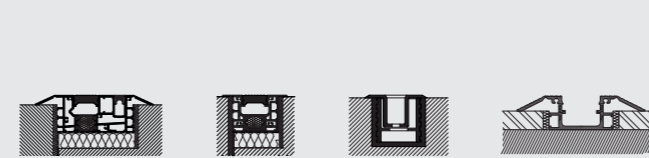
- | Element thickness 31 or 35 mm
- | Glass thicknesses of 8 to 15 mm
- | Panel heights of up to 4,000 mm
- | Sound insulation of up to 17 dB



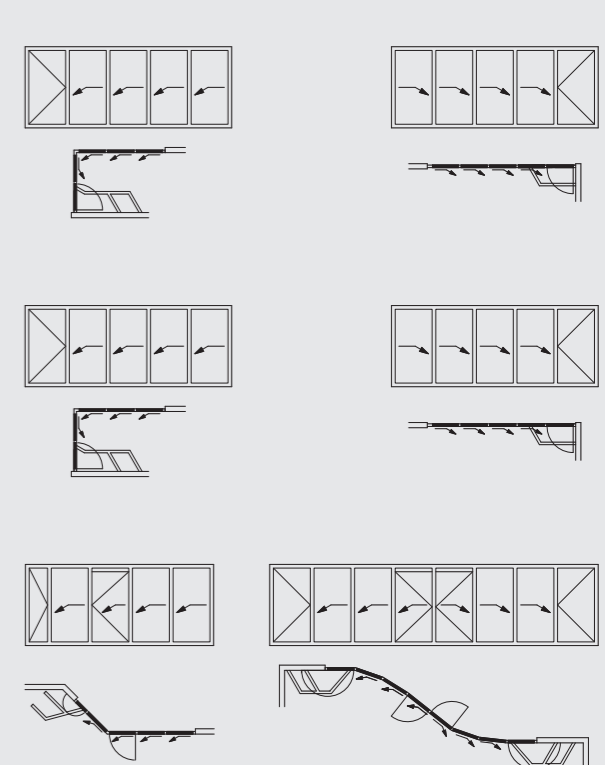
Parking options



Examples of floor tracks



Examples of opening options



Precision down to the finest detail

Opening options & floor tracks

Thanks to the innovative track/rail technology, the horizontally-sliding-walls can be used to realise straight, polygonal and segmented ground plans without any problems. Barrier-free access is always ensured regardless of whether you opt for thermally isolated ground rails or adjustable bottom bushing. Integrated turning panels grant customers easy access, even if the façade is closed. Heat-insulated aluminium sections cut energy costs in the long term and offer sustainable solutions for maximum comfort and convenience in the here and now.

1 Protection: The turning panel is fitted with rounded aluminium sections and offers (patented) pinch protection when opening and closing the elements. Stable hollow chamber sections with foam core ensure maximum thermal insulation.

3 Smooth operation: A ball bearing carriage with special alloy provides for extremely smooth movement of the panel. The unique track/rail technology ensures easy movement of the panels into the parking positions.

2 Functional safety: A turning panel with automatic closing mechanism can be integrated at any point. The innovative opening mechanism ensures simple unlocking and movement of the panel.

4 Opening options: Numerous opening options and variable configuration of the niches inside or outside of the room guarantee the ideal solution for each installation situation.



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Glass structures

Additional atmospheric space

Whether as a heat-insulated wintergarden or uninsulated glass house, Solarlux systems enable the tailored use of all the available space. In addition to inviting commercial façades, glass structures can be successfully used as transparent bridge solutions between building complexes as well as for roofing outside areas, creating smoking zones and also joining up additional rooms. What's more, all roof systems can be combined with the folding glass doors from Solarlux and their large-scale opening concepts.

- | Heat-insulated and uninsulated systems
- | Light-flooded glass structure with a feel-good atmosphere
- | Gain of passive solar energy
- | Use of outside areas 365 days a year
- | Filigree sections with maximum-sized widths
- | Combination with folding glass doors
- | The very latest technology and precision down to the finest detail





SDL Nobiles

Elegant design

The minimalist designer rafters create the impression of a flat roof from the outside. Slender rafter sections with special aluminium cast covers give this wintergarden system an almost floating design.

- | 95 mm rafter width tapered to only 60 mm
- | Roof pitches of 5 - 45° possible
- | Low U-values, U_i up to 1.7
- | Comprehensive accessories can be supplied



SDL Akzent plus

Classic elegance

The sections of this aluminium wintergarden offer elegance bathed in light with optimal thermal insulation. Rafter widths of 100 mm and external structural members enable the realisation of large roof dimensions to make maximum use of the space.

- | 100 mm rafter width
- | Roof pitches of 5° to 45° possible
- | Diverse design options
- | Comprehensive accessories can be supplied



SDL Avantgarde

Natural extension

The homely wood framing of the wintergarden interior lends the room a cosy atmosphere. The exterior aluminium covers complement the wintergarden and offer maximum weather resistance.

- | Rafter widths as of 60 mm
- | Roof pitches of 5 - 45° possible
- | Diverse design options
- | Individual lighting systems possible



SDL Atrium

Transparent protection


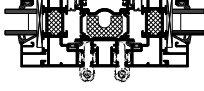
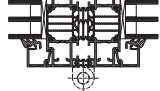
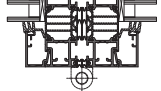


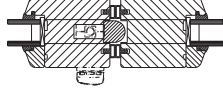
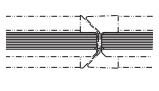
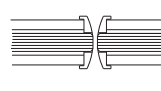
Filigree aluminium sections characterise the glass canopy with external structural members. Steel reinforcements in rafters, eaves and posts allow for large roof areas with a high load capacity. Flexible glazing turns the canopy into a protected glass house.

- | Elegant design and a high degree of transparency thanks to the Softline sections
- | Roof pitches of 5 - 25° possible
- | Available as a monopitch or pitched roof version
- | Comprehensive accessories can be supplied

Overview of commercial façades

Folding glass doors & Horizontally-sliding-walls

● available ○ not available

	SL 45	SL 70e	SL 80/81	SL 82	SL 45-HSW	SL 60-HSW	SL 65-HSW	SL 25 XXL	SL All-glass HSW
Material									
Aluminium	●	●	●	●	●	●	○	○	○
Wood	○	○	○	○	○	○	●	○	○
All-glass	○	○	○	All-glass effect	○	○	○	●	●
Section technology									
Heat-insulated	○	●	●	●	○	●	●	○	○
Non-insulated	●	○	○	○	●	○	○	●	●
Installation depth	45 mm	70 mm	80 mm	80 mm	45 mm	59 mm	66 mm	31 mm	35 mm
Glazing									
Tempered glass	●	●	●	●	●	●	●	●	●
Laminated safety glass	●	●	●	●	●	●	●	●	●
Float glass	●	●*	○*	●*	●	●	●	○	●
Insulating glass	●	●*	●*	●*	●	●	●	○	○
Heat-insulated glass	○	○*	●	●*	●	●	●	○	○
Triple glazing	○	○	○	○	●	●	○	○	○
Glass thicknesses	5 - 20 mm	20 - 38 mm	24 - 40 mm	30 - 38 mm	5 - 20 mm	5 - 40 mm	5 - 28 mm	8, 10, 12, 15 mm	10, 12 mm
Thermal insulation value									
U-value (U_w / m ² K)	○	1.4	1.0	1.2	○	1.5	1.1	○	○
Panel sizes									
Maximum panel weight	100 kg	100 kg	100 kg	100 kg	100 kg	150 kg	150 kg	65 kg	160 kg
Maximum panel width	1100 mm	900 mm	1100 mm	1000 mm	1000 mm	1200 mm	1000 mm	800 mm	1100 mm
Maximum panel height	2800 mm	3500 mm	3000 mm	2500 mm	3000 mm	3500 mm	3000 mm	2750 mm	4000 mm
Special sizes	on request	on request	on request	on request	on request	on request	on request	on request	on request
Segmentation	●	●	○	○	●	●	●	●	●
Colours									
Aluminium coating (RAL, DB, NCS, Eloxal, DURA@xal, Tiger)	●	●	●	●	●	●	○	●	●
Solarlux wood colours	○	○	○	○	○	○	●	○	○
Tests									
Air permeability	Class 2	Class 3	Class 4	Class 4	Class 3	Class 3	Class 2	○	○
Impermeability to rain	Class 7A	Class 9A	Class 9A	Class 7A	Class 4A	Class 4A	Class 7A	○	○
Resistance to wind load	○	Class C3/B3	Class C3	Class B4	○	○	○	○	○
Airborne sound insulation	○	up to 45 dB	○	○	○	○	○	up to 23 dB	○
Hurricane test according to the American standard	○	up to 300 km/h (optional)	○	○	○	○	○	○	○
Long-term function	○	○	Class 3	Class 3	○	○	○	○	○
Burglar resistance	○	○	RC2	○	○	○	○	○	○
European Technical Approval (ETA)	○	○	○	○	○	○	○	●	○
Special features									
	Unrivalled spectrum of panel constellations	XXL panel sizes of up to 3500 mm possible	Highly heat-insulated yet filigree sections; choice of Softline or angular sections	Outstanding design with all-glass effect	Wide spectrum of filigree profiles	Wide spectrum of versions and good thermal insulation	Good thermal insulation with wood effect	Certified stability in XXL format	Maximum transparency for complex situations
Close-ups									
									

* In combination with insulating glass



Solarlux

A perfect service

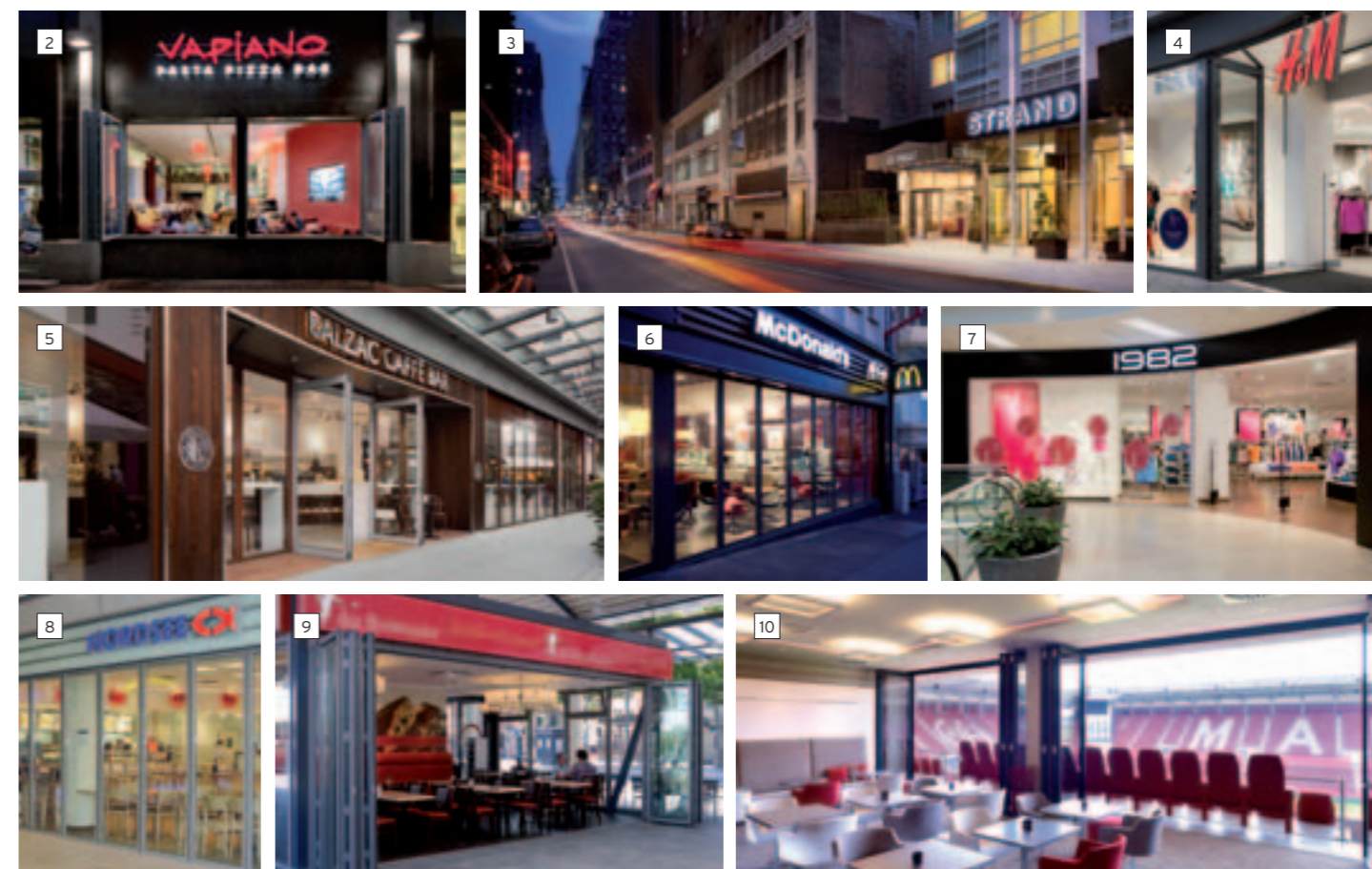
Take advantage of our comprehensive service! Our team of architects, consultants and technicians as well as a certified Pan-European network of partners ensure the perfect planning and realisation of your building project. We see structural and architectural challenges as an opportunity to develop solutions which were previously not available on the market. Thanks to precise on-site surveys and comprehensive planning, all Solarlux systems can essentially be prefabricated at our plant. For you this means: Problem-free and quick assembly on site.

But that's not all: To ensure the long service life of folding glass doors and horizontally sliding walls which are subject to high loads, regular care and maintenance is necessary. This guarantees optimal long-term safety. An emergency service of trained installers is on hand whenever you need assistance.

- | **Pan-European network of partners – regional proximity**
- | **Maintenance contracts – after-sales service**
- | **Timely assembly**
- | **Development and production "Made in Germany"**
- | **Complete project execution from a single source**

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Reference projects

Global tours de force

The Solarlux systems have become synonymous with inviting commercial façades all around the world. Regardless of whether in arcades or shopping centres, pedestrian zones or shopping malls - chains, cafés, restaurants, banks and retailers from around the world all rely on the outstanding product quality and the diverse designs of the innovative solutions offered by Solarlux. Well-known market leaders use the systems created by us in their branch networks to ensure brand recognition at the most aesthetically pleasing and technically sophisticated level. Take a look at the partners who already trust in Solarlux and allow yourself to be won over by their truly tangible arguments.

1 Douglas, Dortmund
SL GG-HSW Horizontally-Sliding-Wall

2 Vapiano, New York
SL 70e Folding glass door

3 The Strand Hotel, New York
SL 70e Folding glass door

4 H&M, Frankfurt
SL 60-HSW Horizontally-Sliding-Wall

5 Balzac, Frankfurt
SL 60-HSW Horizontally-Sliding-Wall

6 McDonald's, Mönchengladbach
SL 70e Folding glass door

7 1982, Oldenburg
SL GG-HSW Horizontally-Sliding-Wall

8 Nordsee, Sulzbach
SL 60-HSW Horizontally-Sliding-Wall

9 Der Brotmacher, Aschaffenburg
SL 80 Folding glass door

10 Coface Arena, Mainz
SL 80 Folding glass door



"We wanted to extend our restaurant and connect it to the surrounding garden. The heat-insulated wintergarden from Solarlux not only creates an open, light-flooded room where guests can enjoy our culinary highlights, but also guarantees maximum comfort both in summer and winter. With the movable folding glass doors, we can amply open up the newly created room onto the patio area and our guests can sit in the spacious garden."

Marcos Olazabal, Managing Director of "Cabaña Marconi", Madrid

