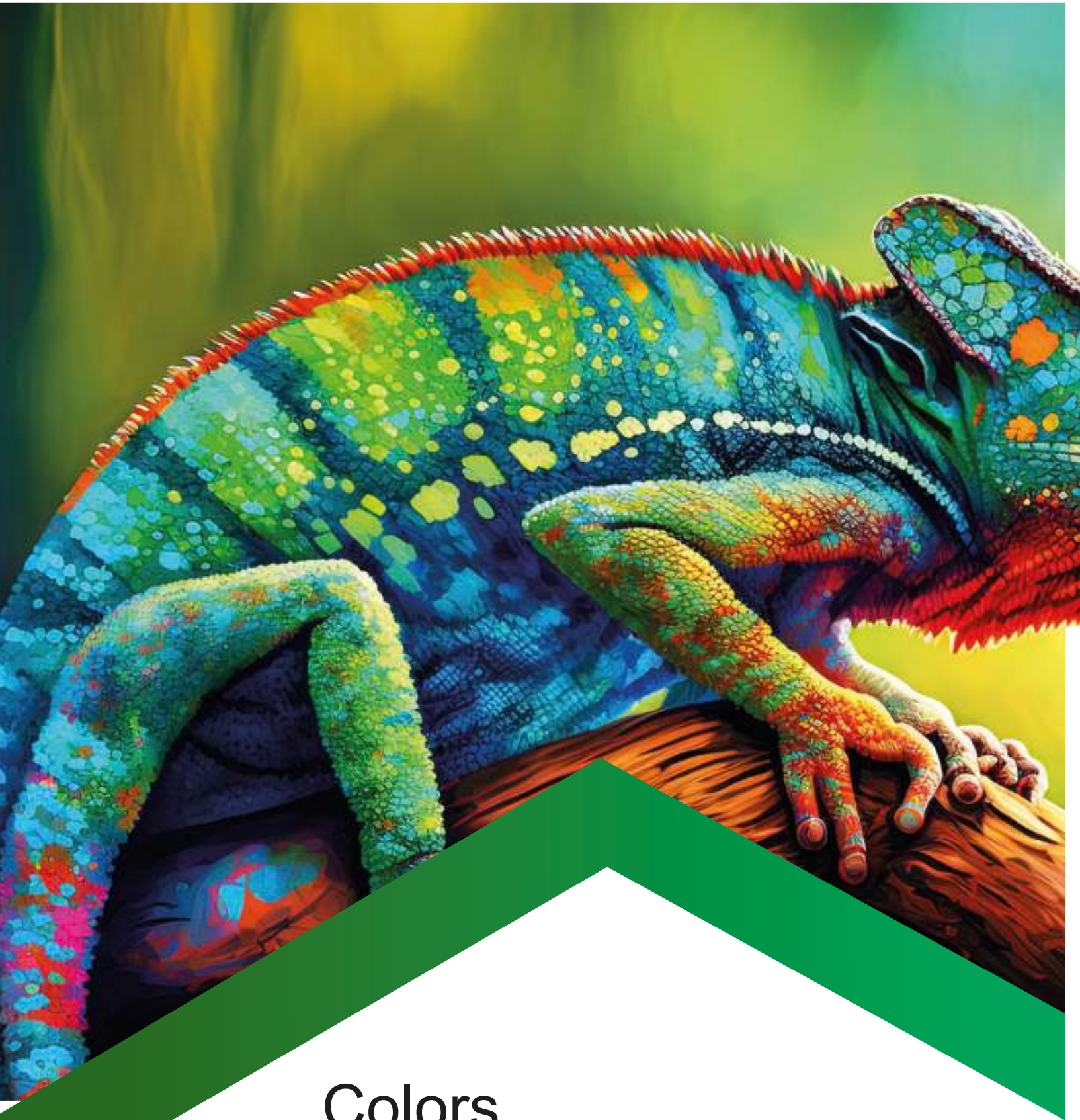


**SPRINZ**  
LEBEN MIT GLAS

# SpriPV Home

FACADE | PARAPET | PRIVACY SCREEN | GARDEN

**COLORED  
PHOTOVOLTAIC  
SYSTEMS**



Colors  
that bring energy  
– SpriPV-Home

With SpriPV-Home, we present an innovative product line that combines aesthetics and functionality, redefining the future of sustainable architecture.

The products in this line not only offer efficient solar energy generation, but also individual design options through colored printing techniques. This allows you to not only optimize the energy efficiency of your outdoor spaces, but also to design them in a stylish and modern way.



Why SpriPV-Home?

Reduce your footprint and benefit

With SpriPV-Home, photovoltaics become a "chameleon", blending effortlessly into almost any architectural vision.

SpriPV-Home represents the perfect symbiosis of innovation, design, and sustainability. Our products not only offer a way to generate electricity but also create architectural highlights that impress in any environment.

With the option of color printing on each element, you have the freedom to design your facade, balustrade, or fence according to your ideas. At the same time, you actively contribute to reducing your CO<sub>2</sub> emissions and benefit from solar energy in the long term.





OUR  
**STANDARD**  
**COLOR**  
**WORLD**



**PV-7800**  
 Gray aluminum Similar to RAL 9007 Color performance ratio: approx. 70%



**PV-8360**  
 Gray beige Similar to RAL 1019 Color performance ratio: approx. 65–70%



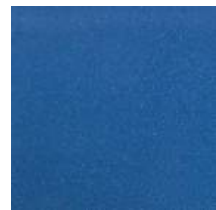
**PV-7978**  
 Patina green Similar to RAL 6000 Color performance ratio: approx. 90%



**PV-7262**  
 Telegrey 2 Similar to RAL 7046 Color performance ratio: approx. 82%



**PV-7140**  
 Gold Similar to RAL 1036 Color performance ratio: approx. 82 - 85%



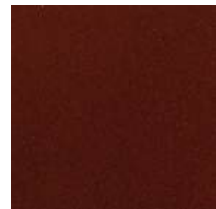
**PV-8155**  
 Sky blue Similar to RAL 5015 Color performance ratio: approx. 85%



**PV-7143**  
 Blue gray Similar to RAL 7031 Color performance ratio: approx. 92%



**PV-8045**  
 Fawn brown Similar to RAL 8007 Color performance ratio: approx. 87%



**PV-8430**  
 Red-brown Similar to RAL 8012 Color performance ratio: approx. 80%



# GENERAL INFORMATION



## Sustainable cost-effectiveness

Photovoltaic systems from SpriPV-Home are characterized by high functional reliability, simple installation, and outstanding efficiency. From start to finish, they offer an economical solution with lasting value.



## High efficiency – low power losses

Depending on the type and color of glass, SpriPV-Home achieves up to 98% efficiency (compared to unprinted glass).



## Robust and resilient

Thanks to their innovative double-glass construction, SpriPV-Home photovoltaic modules are extremely resilient. In addition, the color and PV cell are optimally and permanently protected by the glass-glass construction (8-12 mm).



## Design flexibility

Choose from a variety of colors and sizes. SpriPV-Home offers you a wide range of design options for an aesthetic building envelope.



## UV-resistant paint

We only use environmentally friendly, UV-stable, ceramic colors that retain their beauty and functionality over the long term.



## State-of-the-art module technology

Ensures high efficiency.



## Long-lasting safety

Through intensive and continuous quality controls, we ensure that every photovoltaic module meets the highest standards – for safe and efficient power generation over many years.



## Bird protection

Semi-transparent, non-reflective materials such as satin-finished glass provide effective protection against bird strikes and contribute to bird protection.



## Hail resistance

The robust SpriPV-Home photovoltaic modules are extremely resistant to hail, which underlines their high sustainability.



## Complete solution from a single source

SpriPV-Home stands for a comprehensive system solution of printed PV glass and fittings with high-quality components that guarantee maximum functionality and safety.



## Easy installation

The SpriPV-Home photovoltaic system is easy and safe to install. The substructure is impressive thanks to its simple installation with high-quality materials.

For a system output > 2 kWh, the electrical connection must be carried out on site by a certified electrician.

# Overview of colors







## **Innovative PV balustrades: Energy efficiency meets architecture**

The SpriPV-Home balcony balustrade combines the advantages of a classic balcony railing with the energy efficiency of a photovoltaic system. The integrated color printing allows you to design your balcony balustrade according to your personal taste without sacrificing solar power production. This solution is ideal for modern residential buildings and helps to efficiently increase your own power supply without compromising on design.

approx. 150 Wp  
per m<sup>2</sup>



Overview of VSG 12 parapet glazing  
Luxfine 6 mm with SD + PV full cells + ESG 6 mm with SD, cable outlet at upper glass edge

Item	Width (mm)	Height (mm)	Power Wp	Cells	m <sup>2</sup>
1	690	730	77,5	4x4=16	0,504
2	690	896	96,9	4x5=20	0,618
3	690	1058	116,2	4x6=24	0,730
4	1017	730	116,2	6x4=24	0,742
5	1017	896	145,3	6x5=30	0,911
6	1017	1058	174,4	6x6=36	1,076
7	1345	730	155	8x4=32	0,982
8	1345	896	193,8	8x5=40	1,205
9	1345	1058	232,5	8x6=48	1,423
10	1673	730	193,8	10x4=40	1,221
11	1673	896	242,2	10x5=50	1,499
12	1673	1058	290,7	10x6=60	1,770
13	2000	730	132,5	12x4=48	1,460
14	2000	896	290,7	12x5=60	1,792
15	2000	1058	348,8	12x6=72	2,116

The performance figures are theoretical values. Each glass panel is measured with the color applied.

### Advantages:

- ✓ High wind load resistance
- ✓ VSG 12 made of 2 x 6 mm ESG
- ✓ No additional handrail
- ✓ Can be mounted on existing posts
- ✓ Neutral light gray color on the inside
- ✓ Custom sizes according to your requirements.
- ✓ Version also available without PV
- ✓ Tested construction product

## Technical description PV balustrade

**Design:** Retaining system for fastening glass panels for a balustrade or privacy screen. Clamped linearly to the top and bottom edges of the glass. Vertical glass-to-glass joints. The horizontal profiles can be fastened to the posts supplied or to existing posts. Existing posts and their screw connections to the floor must be sufficiently load-bearing. The glass panel is inserted and clamped into the lower floor profile. The glass panel is held in the upper support profile with short, movable clamping profiles. The cable outlet for the SpriPV glass panels is located at the upper edge of the glass and is routed to the side in the support profile. A clip profile covers the glass clamping and the entire cable routing.

**Glass panels:** SpriPV Home consists of laminated safety glass (LSG) 12 with PV cells in the laminate. The viewing panel is a satin-finished ESG 6 mm glass panel with a ceramic color printed and baked onto the entire surface. PV cells in the composite layer with cable outlet at the upper edge of the glass. On the rear side, an ESG 6 mm glass panel is printed with a ceramic color and baked onto the entire surface. The printed sides of the glass panels face the composite.

**Posts:** For balustrade glazing in accordance with DIN 18008 Part 4, the post spacing may be 1.2 m in private areas and 0.85 m in public areas. If the design is complied with, the profile at the top may be used as a handrail. The posts must be sufficiently statically load-bearing. For privacy screens, the posts and post spacing must be verified based on the wind loads at the installation site.

**Bottom profile:** The aluminum bottom profile (40 x 60 mm) is screwed to the post in a structurally load-bearing manner. Surface finish: E6/EV1 anodized. The silicone seal on the inside and outside clamps the glass panel in a linear fashion. The aluminum profile has horizontal holes above the seal and vertical holes in the hollow chamber below for drainage. The profile allows for height adjustment of the glass panel by +/- 6 mm.

**Top profile:** The top profile consists of a support profile, clamping profile, and clip profile.

**Support profile:** The continuous aluminum profile (44 x 53 mm) is screwed to the top of the post to provide structural support. Surface finish: E6/EV1 anodized. A silicone seal for the inner glass bearing. The hollow chamber is designed for M6 slot nuts with or without spring balls. The clamping profile is attached to the slot nuts.

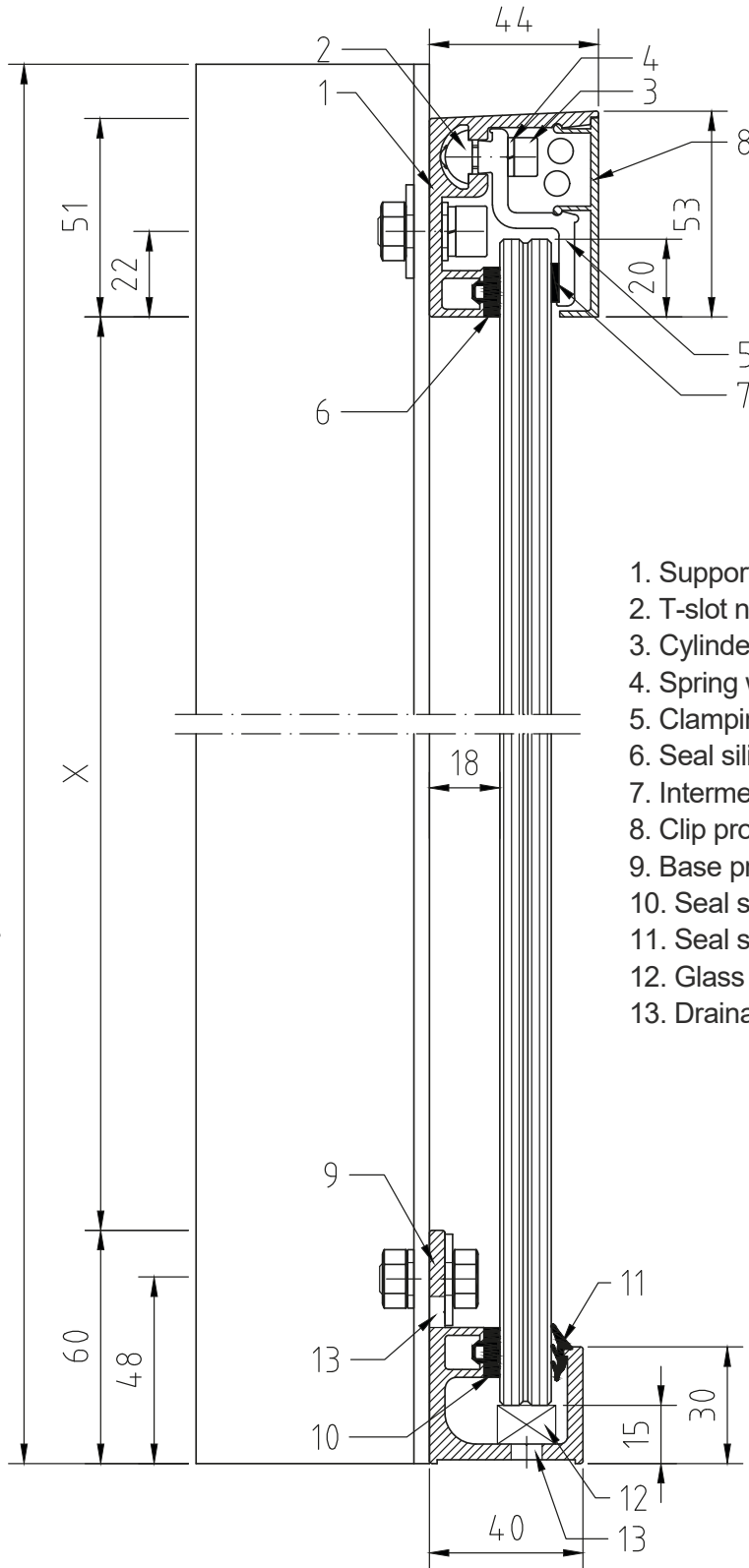
**Clamping profile:** The glass is clamped using an aluminum Z-profile 24x29x26 mm. The clamping profile is 120 mm long. Surface E6/EV1. The clamping profile is fastened in the slot nuts with two M6 screws. The clamping profile can be moved to the left or right using the slot nuts. Each glass panel has at least 2 clamping profiles to secure its position. The cables and cable connectors can be laid in the cavity between the support profile and the clamping profile.

**Clip profile:** The aluminum clip profile 12x51 mm covers the clamping profile, all screw connections, and the cable routing and its connectors. Surface E6/EV1. It is pressed between the support profile and the clamping profile.

**End caps:** Left and right end caps made of ABS are available as an option for the top and bottom profiles.

**Surface:** All visible surfaces of the profiles are in matt chrome similar to E6/ EV1, other surfaces on request.

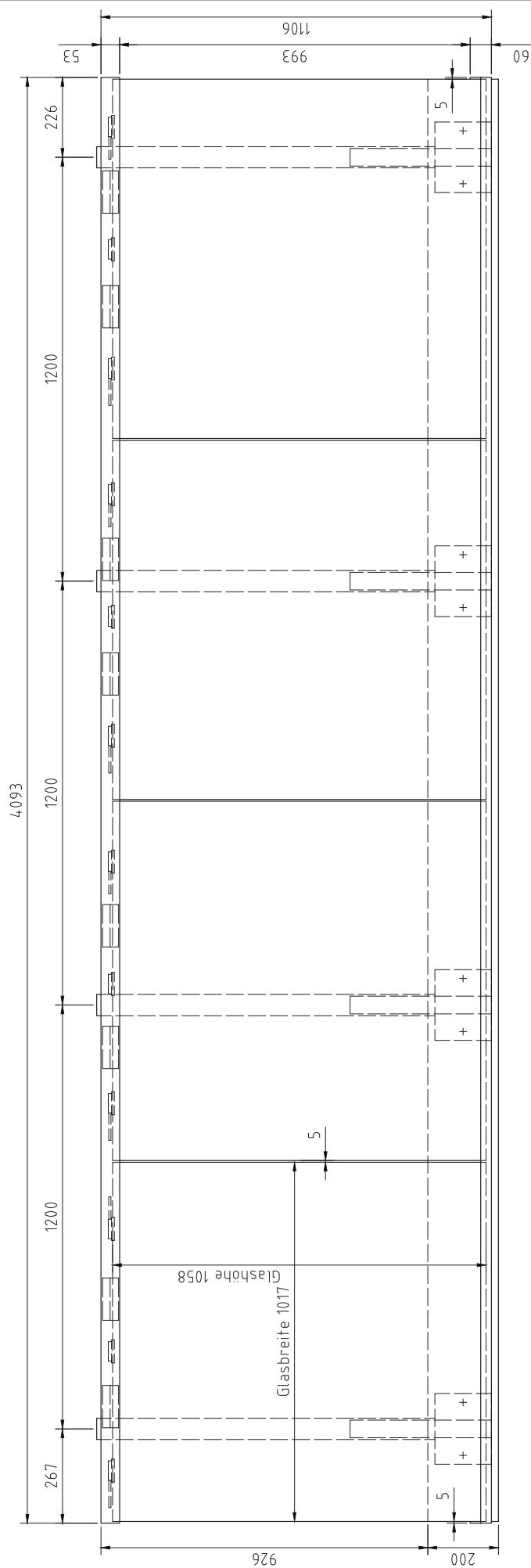
Posts every 1200 mm at handrail load 0.5 kN/m  
 Posts every 850 mm at handrail load 1.0 kN/m



1. Support profile AL (EN AW-6060) E6/ EV1
2. T-slot nut with spring ball
3. Cylinder screw M6x16
4. Spring washer
5. Clamping profile Al (EN AW-6060) E6/ EV1
6. Seal silicone profile black
7. Intermediate layer Klingerit
8. Clip profile Al (EN AW-6060) E6/ EV1
9. Base profile Al (EN AW-6060) E6/ EV1
10. Seal silicone profile black
11. Seal silicone profile black
12. Glass support plastic
13. Drainage hole

**SPRINZ**  
 LIVING WITH GLASS

Comm.	Date	Name	Drawing for technical description PV Balustrade System
	Prepared 17.12.2024	Kolleth	
	Scale: none		
Order No.	Glass dimension: Glasmaß		Section SP2024.PV.001
Position:	Quantity:		
PS:	QS:	R:	EZ:
SN:	DXF:	Systron:	



Date	Feb 06, 2024		Name	SprinZ Home Balustrade	
Scale	Sketch checked	None	View	Drawing for technical description PV Balustrade System	
CAD No.	SP2025.PV.002		Glass Dimension	Cable routing to the left	
<b>SPRINZ</b> LIVING WITH GLASS			Customer:		
			Order No.:		
Position:		Quantity:	R:		
PS:	QS:	SN:	DXF:	System:	

- 4 x PV Balustrade glazing 1017 x 1058 mm
- 4 x Posts 60x40x4, Length = 960 mm
- 4 x Brackets, front-side mounting
- 1 x Support profile top, Length 4093 mm 1 x
- Clip profile, Length 4093 mm
- 8 x Clamping profile 120 mm long
- 1 x Floor profile 4093 mm

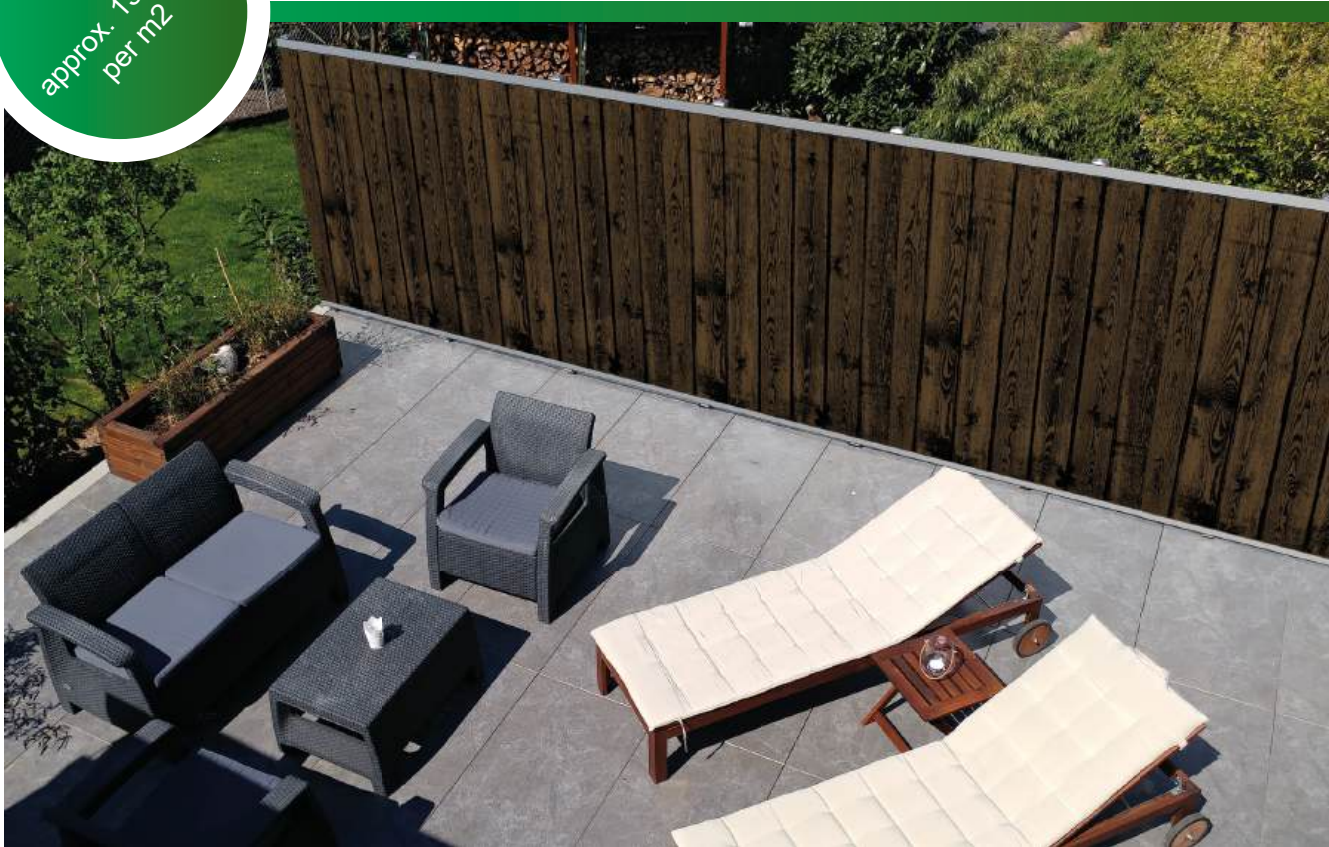
**SPRINZ**  
LIVING WITH GLASS



### **Innovative PV privacy fence: Stylish privacy with innovative technology**

The SpriPV-Home privacy fence is a clever combination of privacy protection and green energy generation. The individually printed surface allows the fence to be perfectly adapted to the surroundings and style of your home. At the same time, the integrated photovoltaic technology captures solar energy and thus contributes to a sustainable energy supply. Whether as a garden fence, property boundary, or windbreak on the terrace, the privacy fence ensures privacy while contributing to the energy transition.

approx. 155 Wp  
per m<sup>2</sup>



Overview of privacy glazing VSG 12  
Luxfine 6 mm with SD + PV full cells + ESG 6 mm with SD, cable outlet at upper glass edge

Item	Width (mm)	Height (mm)	Power Wp	Cells	m <sup>2</sup>
1	690	1720	193,8	4x10=40	1,187
2	1017	1720	290,7	6x10=60	1,749

The performance data are theoretical values; each glass panel is measured with the color applied.

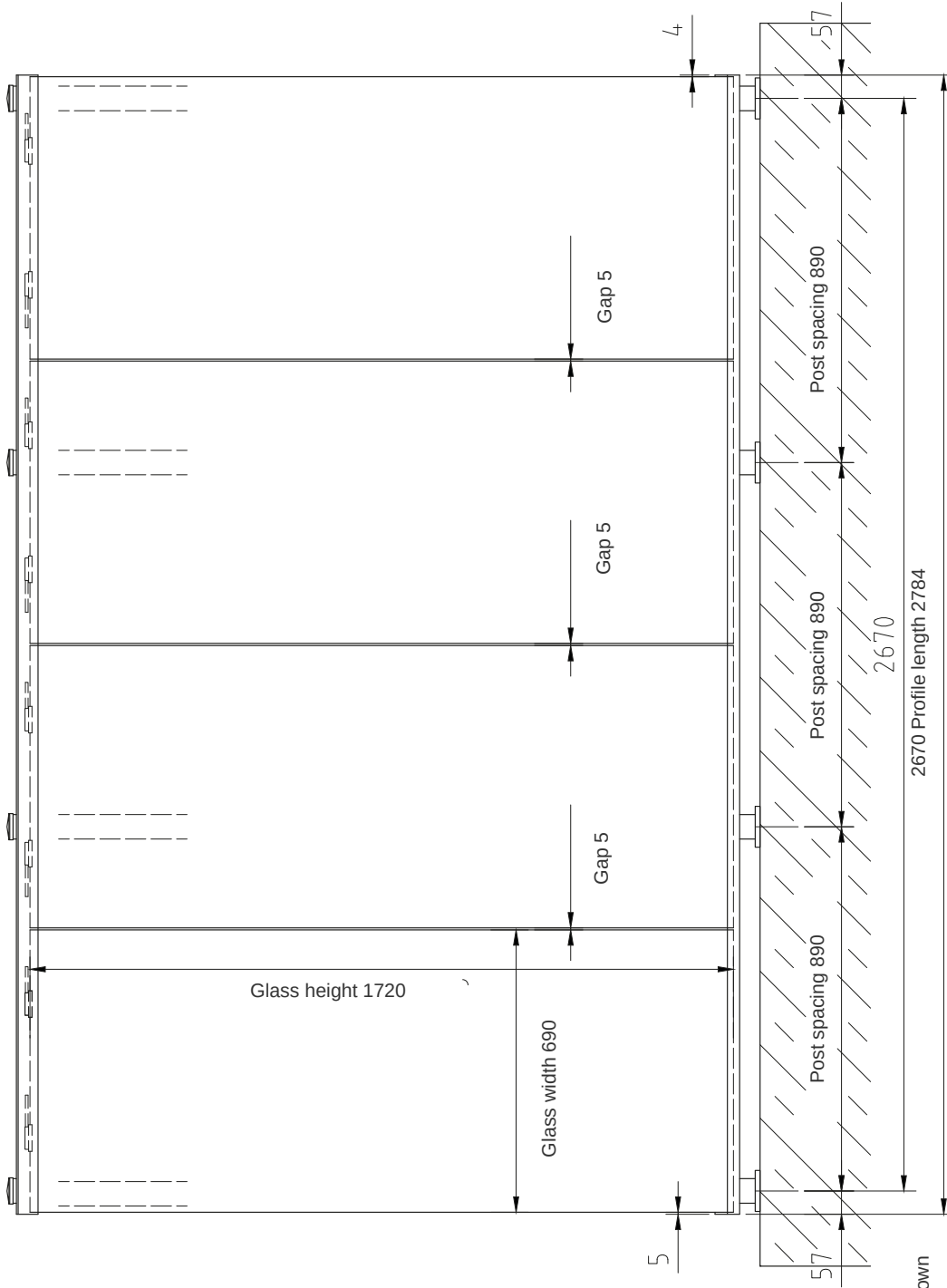


### Advantages:

- ✓ Various heights available
- ✓ VSG 12 made of 2 x 6 mm ESG
- ✓ Can be mounted on existing posts
- ✓ Version also available without PV

### SpriPV Home System View

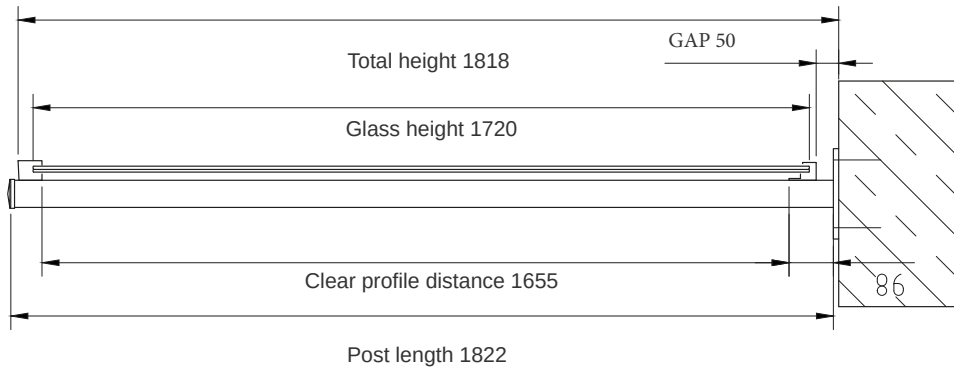
Cable routing to the right



2670 Profile length 2784

Post 60x60 with post anchor for screwing down

### Section



Date	Name	Comm.:	<b>SpriPV Home Privacy Screen</b>	
<b>Jan 27, 2025</b>	<b>Kolleth</b>	Order No.:	Privacy screen system glass width 690 mm	
Scale	<b>none</b>	Position:	R: Systron:	
CAD No.	<b>Glass dim.</b>	PS:	SN: <b>SP2025.SC.014</b>	
Sketch checked:	Quantity:	EZ:		
QS:	DXF:			

# SPRINZ

LIVING WITH GLASS



**PV facade from SpriPV-Home:  
Efficiency, sustainability, and design combined**

SpriPV-Home facade cladding is more than just an energy-producing surface. It can be designed in a variety of colors and patterns and blends seamlessly into any architecture—whether in urban areas, country houses, or office buildings. The facade cladding can be installed either as an integrated system—built directly into the facade or as a curtain wall system—flexibly mounted in front of the building envelope. This combines solar energy production with aesthetic accents, making the facade both sustainable and visually appealing.

approx. 170 Wp  
per m<sup>2</sup>

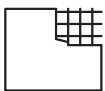


Overview of facade cladding VSG 8 (2x4mm)  
Luxfine 4mm with SD + PV half cells + ESG 4mm with SD, cable outlet on rear of glass

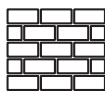
Item	Width (mm)	Height (mm)	Power Wp	Cells	m <sup>2</sup>
1	1380	836	180	14x4=56	1,154
2	1940	836	285	20x4=80	1,622

The performance data are theoretical values; each glass panel is measured with the color applied.

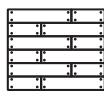
Installation on many substrates



Concrete



Brick



Wood



Thermal  
insulation  
system

### Advantages:

- ✓ Can be installed on brick, concrete, wood, and composite thermal insulation systems
- ✓ Tested building product
- ✓ VSG 8 made of 2 x 4 mm ESG



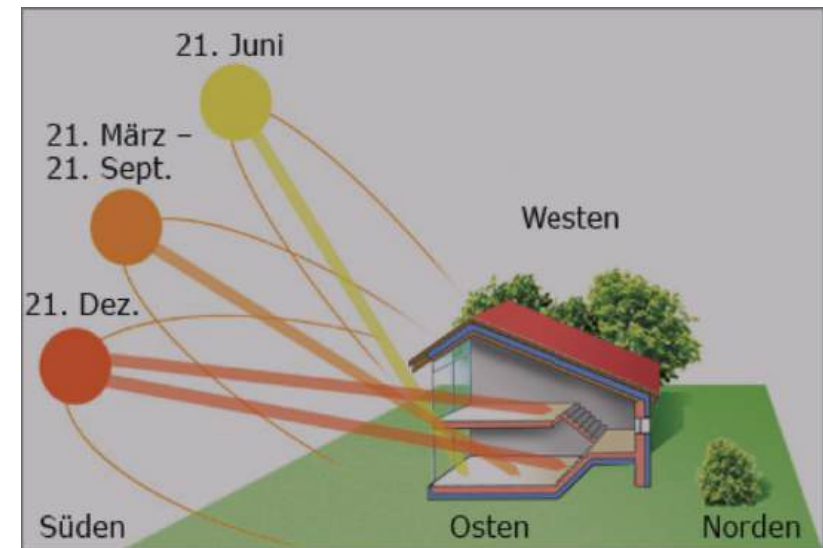
**plug – play – power**

THE FUTURE OF PV FACADE

## Fact sheet: PV facade application



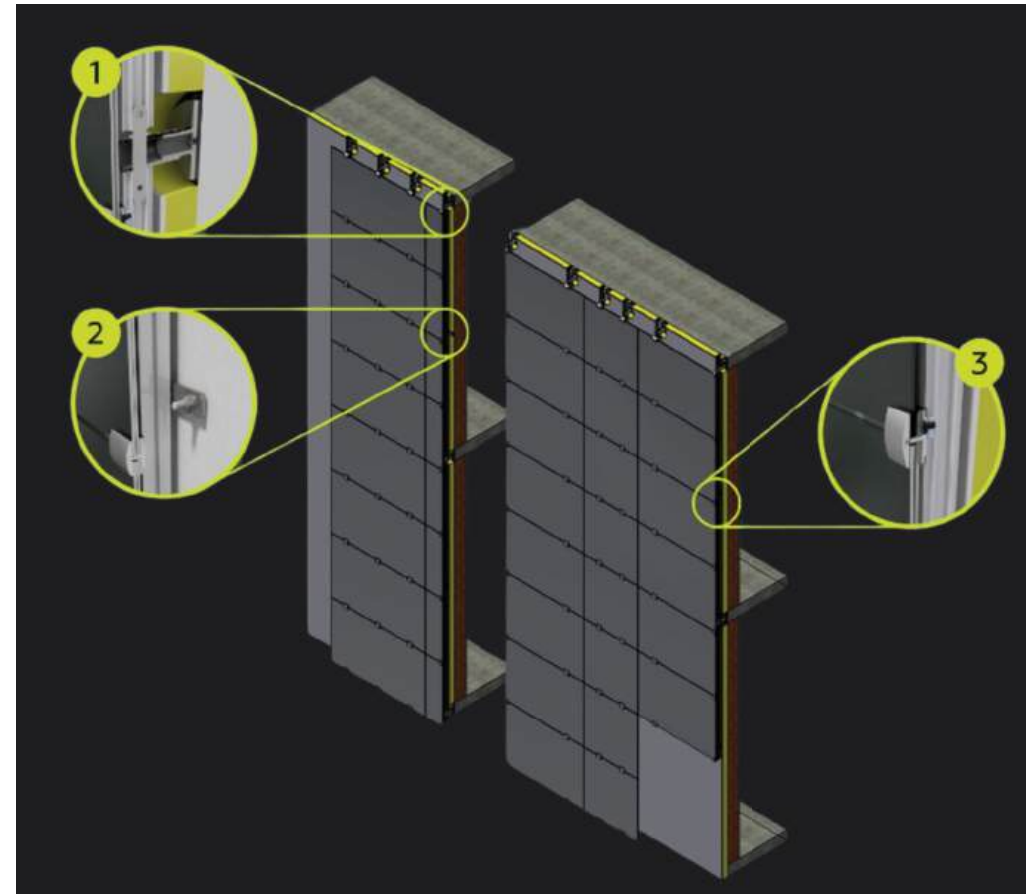
- ★ **Evenly distributed annual yield**
- ★ **Higher winter yield**
- ★ **High module performance due to good rear ventilation**
- ★ **High yield in snow - albedo effect**
- ★ **Higher self-consumption rate**
- ★ **Ideal land use - no shadowing, additional yields**
- ★ **Additional yields through environmental reflection Easy**
- ★ **Maintenance, minimal cleaning effort.**
- ★ **Image value**



## Solution: mo pv-wall "plug & play"



- ★ **Standardized system**
- ★ **Simplest planning and assembly. Customizable.**
- ★ **Profitable in terms of building type and design**
- ★ **Aesthetically sophisticated. Can be implemented as BIPV or BAPV.**





pv-pure



pv-concrete



pv-wood



pv-sheet

### Mounting system for uninsulated walls

**Description:**

PV-PURE is a versatile mounting system designed for attaching PV modules to uninsulated concrete, brick, and solid wood walls. It supports both horizontal and vertical installation:

1. Horizontal mounting: preferably with standing modules
2. Vertical mounting: preferably with lying modules

The system is suitable for both framed and frameless PV modules.

**Suitability:**

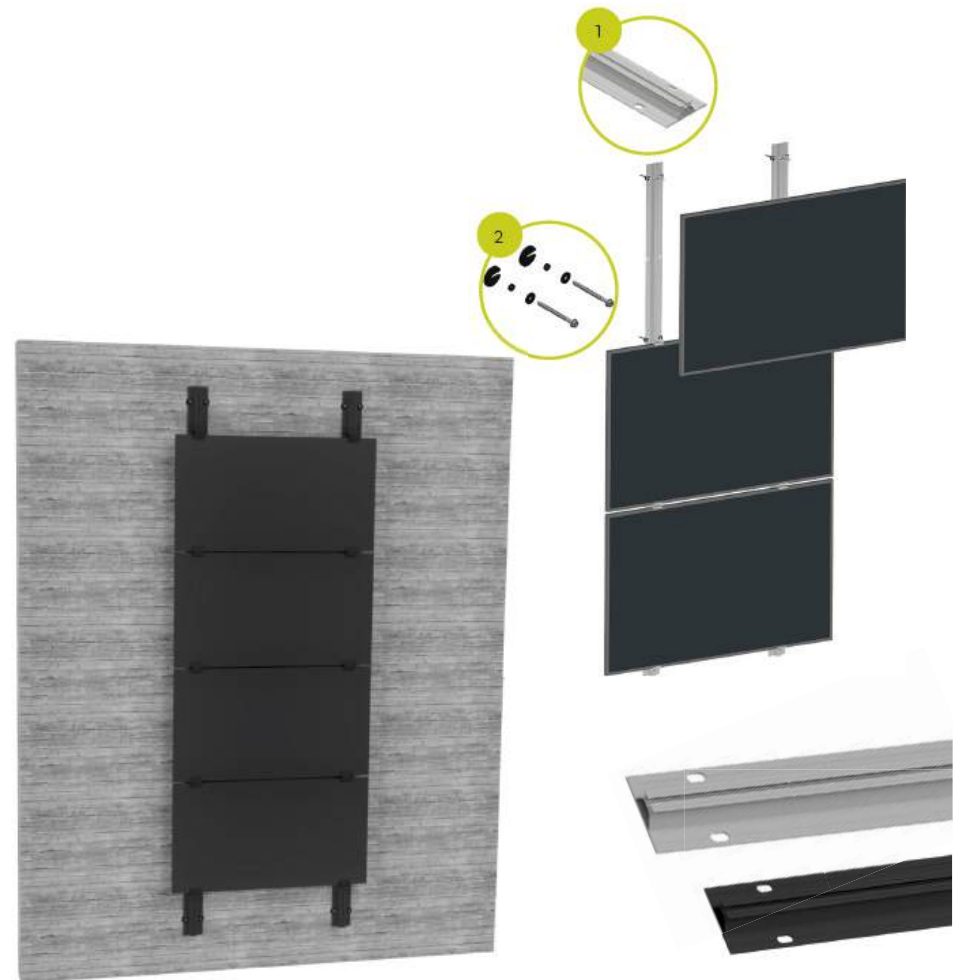
New construction, renovation projects and retrofitting of existing buildings.

**Suitable for:**

Uninsulated concrete, brick, and solid wood walls

**Substrate suitability:**

Reinforced concrete, brick, wood



**Mounting system for insulated walls**

**Description:**

MPV-CONCRETE is a mounting system designed for attaching PV modules to thermally insulated facades. It is intended for vertical installation, preferably with horizontal modules. The system supports both framed and frameless PV modules.

**Suitability:**

Facades with ETICS systems & installation thickness up to 200 mm

**Substrate suitability:**

Reinforced concrete ceilings and walls made of brick or reinforced concrete

**Heat transfer calculation:**

Dew point localization and heat transfer assessed.



Example with a standard clamp

**Mounting system for solid wood and wood stud walls****Description:**

Mounting system for solid wood and timber stud walls. Can be used vertically, preferably with horizontal modules. For mounting framed or frameless PV modules.

**Suitability:**

New construction, renovation, retrofitting to existing buildings

**Suitable for:**

Wooden studs and solid wood walls



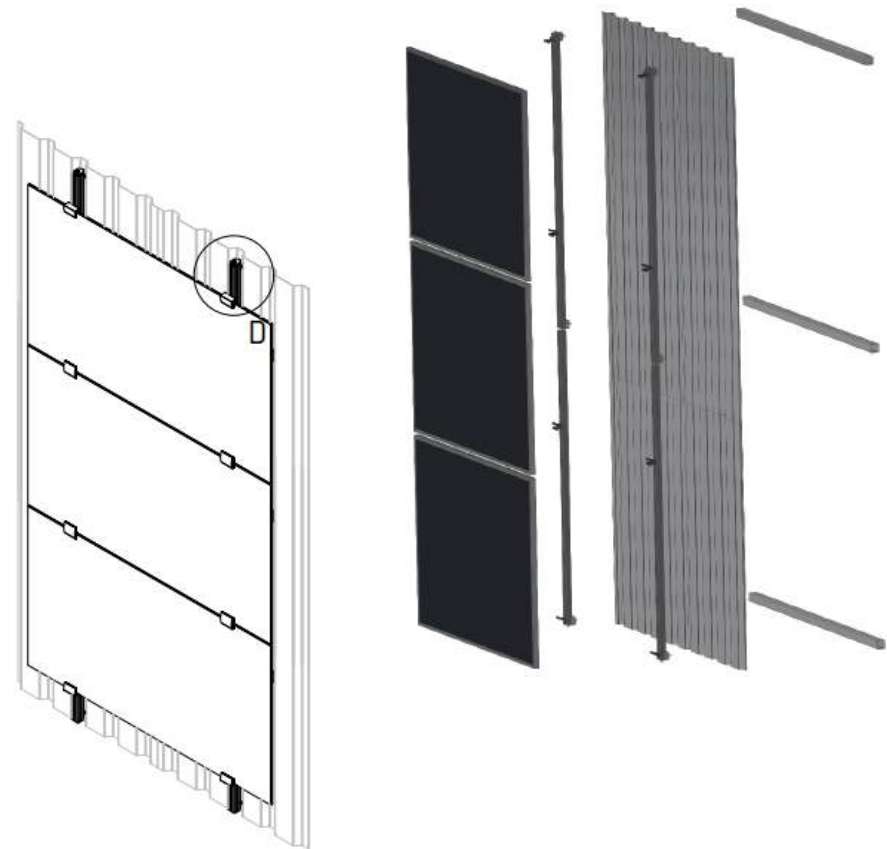
Example with a standard clamp

**Mounting system for trapezoidal sheet metal****Description:**

Mounting system for trapezoidal sheet metal facades.  
Can be used vertically, preferably with horizontal modules.  
For mounting framed and frameless PV modules.

**Suitability:**

New construction, renovation, retrofitting to existing buildings



Example with a standard clamp

## Clamps: Frameless



### Glass module edge and center clamps

Clamping system according to DIN 18008  
For the constraint-free mounting of frameless modules Tool-free glass mounting, optionally with vibration and vandal protection

#### Suitability:

For all types of substructures

#### Package contents:

Slotted nut for insertion into the profiles Countersunk screw  
Safety screw as slip protection Pressure piece

#### Module dimensions:

7–12.5 mm glass thickness Max.  
1.5 m<sup>2</sup> per module  
Maximum projection 250 mm Maximum span  
1000 mm

#### Also available:

The setting aid serves as a support for attaching the glass module clamps to the support profile. The setting aid prevents the clamp from moving (no height differences).  
Also available with logo.



## Anti-slip devices

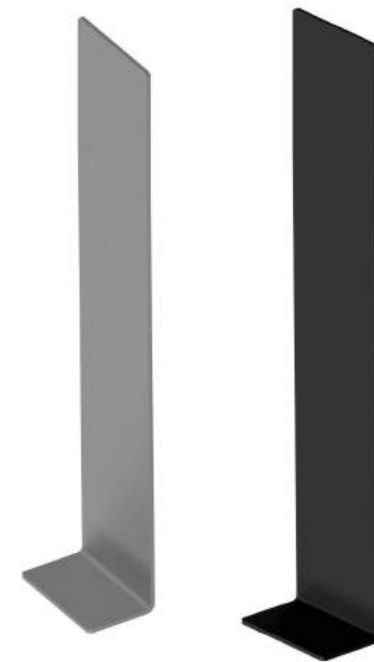
### Suitability:

The "L" brackets are required for horizontal arrangement of the substructure with standard modules. Special brackets with a slight rounding are required for frameless modules.

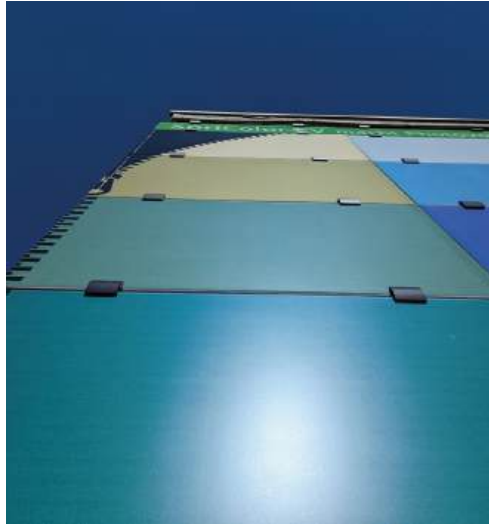
For frameless modules, this is only the case if the modules are clamped at the sides. The anti-slip devices secure the module against slipping. The module is fastened using the clamp.

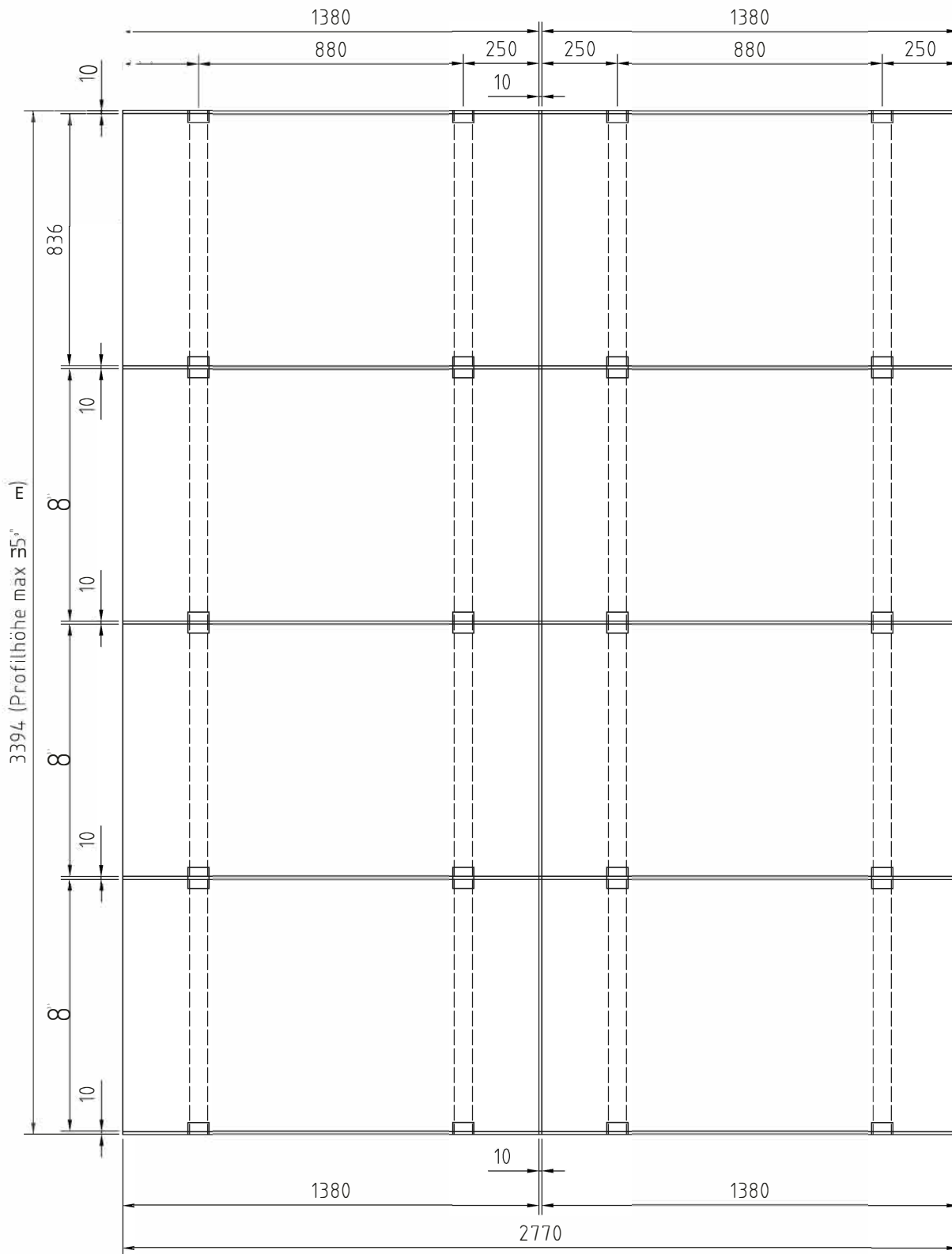
### Package contents:

Bracket: Self-drilling screw



# References





**SPRINZ**  
LIVING WITH GLASS

Komm.:	Datum		Name	SpriPV Home Facade PV Facade System
	Edited	6.02.2025	Kolleth	
	CAD No.			
	Scale	1:1		
Order No.:	Quantity:	Glasmaß	Sketch approved.	Glass measurement 1380 x 836
Position :				SP2025JA.001
PS:	QS:	R:	EZ:	
SN:	DXF:	Systron:		

# Roof glazing for listed buildings



Slate



Plain tile



Selection of roof tiles

# SPRINZ

LEBEN MIT GLAS



TW CONSULTING  
& TRADE LTD.

**TW Consulting & Trade Ltd. (Malta)**

**Wolfgang Tweraser  
CEO/President**

**Tel EU: +356 2701 9052 (office)**

**Tel EU: +356 9942 9829 (mobile)**

**Tel UAE: +971 50 209 3055**

**[wolfgang@twctmt.com](mailto:wolfgang@twctmt.com)**

**[www.twctmt.com](http://www.twctmt.com)**

