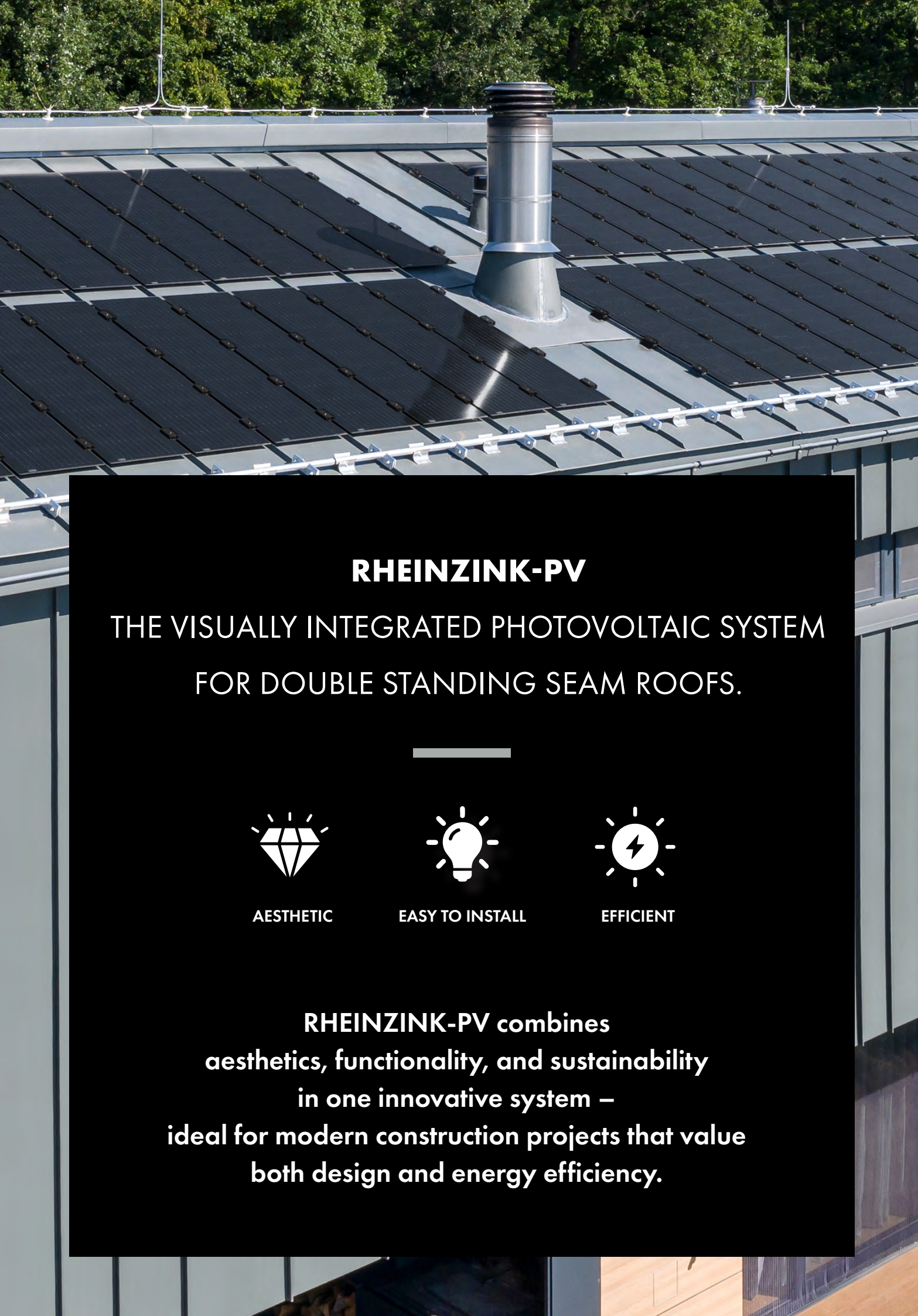




RHEINZINK®

RHEINZINK-PV

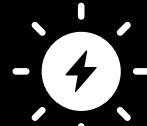
THE VISUALLY INTEGRATED PHOTOVOLTAIC SYSTEM
FOR DOUBLE STANDING SEAM ROOFS.



AESTHETIC



EASY TO INSTALL



EFFICIENT

RHEINZINK-PV combines
aesthetics, functionality, and sustainability
in one innovative system –
ideal for modern construction projects that value
both design and energy efficiency.



CONTACT AND FURTHER INFORMATION

Do you have a specific project or questions about the design
of your PV-system?
Use the contact form to get in touch with the RHEINZINK-team.

RHEINZINK®

For further information and inspiration, please visit www.rheinzink.com.
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RHEINZINK-PV
Seamlessly integrated photovoltaics.



With RHEINZINK-PV, your roof becomes the most beautiful source of energy.

The future begins on your own rooftop:

With RHEINZINK-PV, you make a clear statement for **sustainability, independence, and responsibility.**

As energy costs rise and environmental concerns grow, the call for renewable energy becomes ever louder.

So why not harness the power of the sun – right where it shines every day?

RHEINZINK offers you an aesthetic and efficient solution to transform buildings into sources of clean energy.

An investment that pays off – ecologically and economically.

RHEINZINK-PV combines sophisticated architecture with forward-looking energy generation.

The solution appears as part of the roof – not as an add-on system.

The result is an elegant overall appearance that perfectly unites form and function.

EASY INSTALLATION, PERFECT INTEGRATION.

While other systems negatively affect longitudinal and transverse expansion,

RHEINZINK remains completely flexible.

Thanks to the patented seam clamp, thermal expansion is unaffected.

The modules can be freely positioned and are attached directly to the double standing seams –

independent of the roof clips used for the seam covering.

A SYSTEM THAT THINKS AHEAD.

1

Light meets solar cell

Sunlight consists of photons—tiny packets of energy. These photons strike the surface of the solar cell.

2

Release of electrons

An electric field forms, forcing the released electrons within the solar cell in a specific direction, generating direct current (DC).

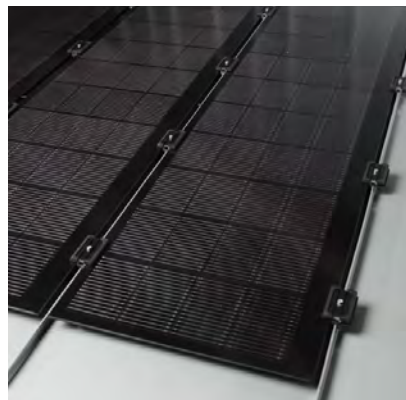
Thus, light energy is converted into electrical energy.

3

Power made usable

The generated direct current is typically converted into alternating current (AC) via an inverter, which is used in households and power grids.

The electricity can then be used directly, stored in batteries, or fed into the public grid.



Technical Details

Module type	Frameless glass/glass laminates with special edge sealing
Cell type	Modern N-Type TOPCon solar cells
Dimensions	1900 x 506 x 5.5 mm
Panel width	Adapted to 530 mm seam width, tolerance +4/-2 mm
Power output	180 Wp
Weight	11 kg
Install. height	Approx. 40 mm (incl. 30 mm rear ventilation)
Roof pitch	3° to 60°
Clamps	min. 4 PV clamps per module side
Uplift load	2.4 kN/m ²
Pressure load	bis 3.6 kN/m ²
Certifications	IEC 61215, IEC 61730, Hail Resistance Class 3

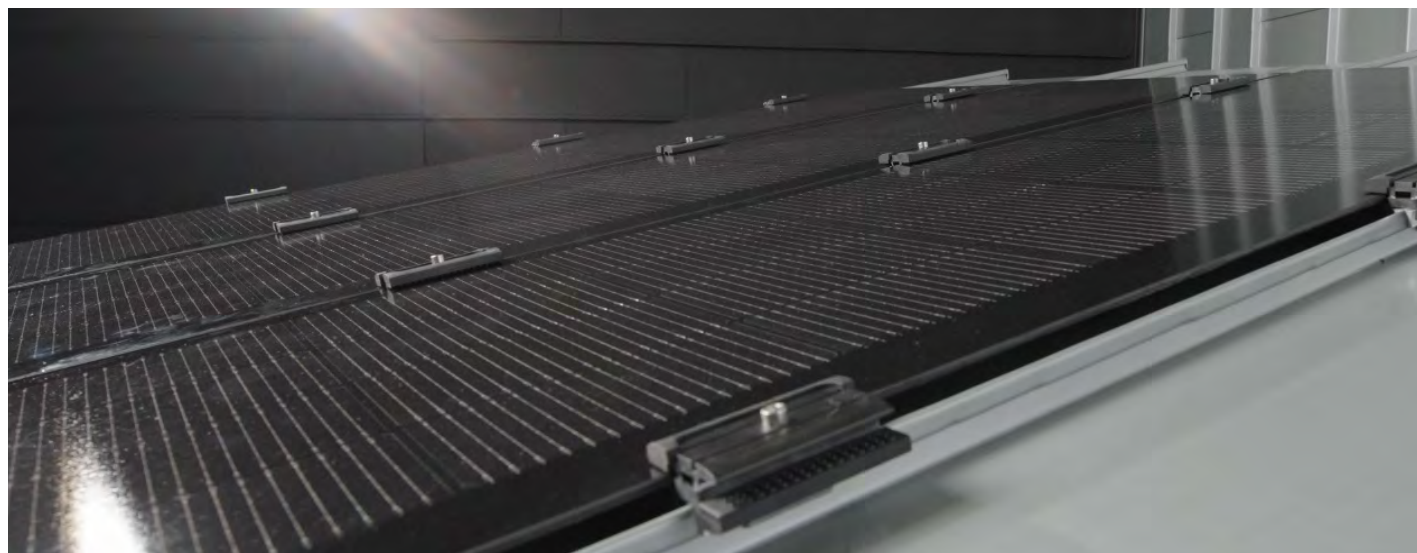
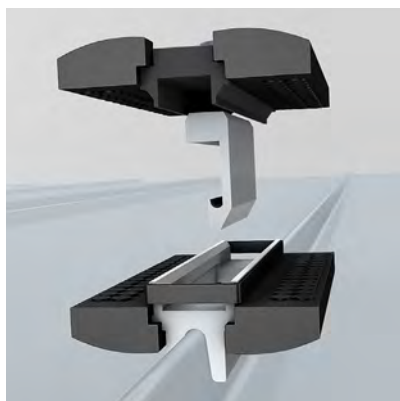
! Tested for RHEINZINK standing seam roofs

The Clamp – The Heart of the System

! Patented mounting system for PV modules – simple, secure, efficient

Our innovative system delivers maximum performance with minimal effort: only one hex socket screw (tightened to 6 Nm) is needed per clamp.

A vertical clamp directly on the standing seam ensures a firm hold and secure fixation of the frameless PV modules. There are no restrictions on thermal expansion of the zinc roof – it remains flexible and intact. Independent of clip positioning, the module clamp adapts accordingly. Installation follows wind load requirements – at least four clamps per module side ensure stability even under extreme conditions.



Cell Technology

1 N-Type TOPCon Cells

Thanks to advanced cell technology offering higher efficiency, improved temperature stability, and greater heat resistance, our modules deliver outstanding performance and a significantly longer lifespan.

2 Glass-Glass Technology

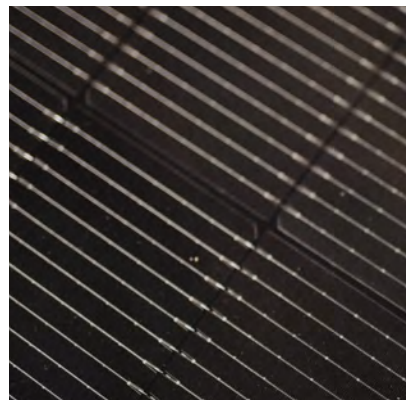
With greater resistance to environmental influences and aging, our modules provide superior protection against moisture and mechanical stress, lasting longer than glass-foil modules – and enabling full bifacial power gain.

3 Edge Sealing

The unframed edge area of our photovoltaic laminates is reliably protected from environmental influences and moisture by a high-quality thermal edge seal. This proven technology significantly extends the service life of the modules and ensures long-term performance.

4 Bifacial Cells

By using sunlight on both sides – directly on the front and indirectly on the back via reflected ambient light – our modules achieve higher energy yields.

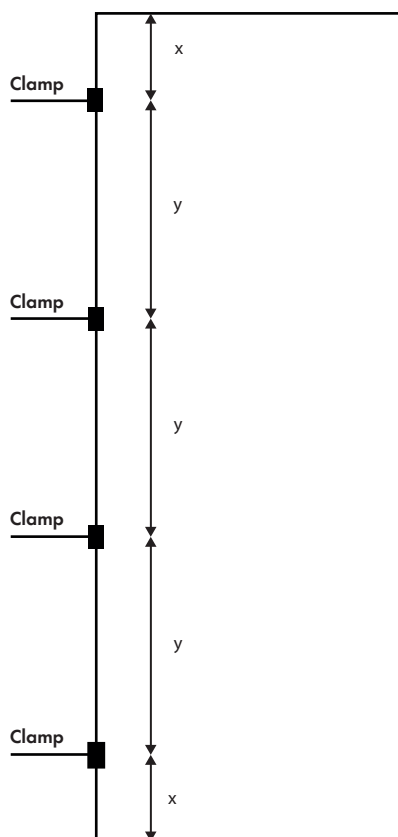


Wind Load Calculation Table

Number of PV clamps per module side	Max. rated wind load kN/m ²	Distance between PV clamps and edge(x) in mm	Distance between clamps (y) in mm
4	≤ 2.1 kN/m ²	200	500
5	≤ 2.8 kN/m ²	190	380
6	≤ 3.4 kN/m ²	150	320
7	≤ 4.0 kN/m ²	140	270
8	≤ 4.5 kN/m ²	110	240

!

Wind load calculation for direct installation of the RHEINZINK-PV system on RHEINZINK double standing seam roofs: The required number of RHEINZINK-PV clamps is based on a clip design resistance of 600 N/clip. At least four PV clamps are required along the long side of the module (1.90 m). Clamp spacing (center-to-center) should be approximately half that at the edges (center-to-edge). Values are based on German standards with a safety factor of 1.5 on the clip side. Other countries may require additional safety factors.



The illustration shows clamp positioning for a maximum wind load of ≤ 2.1 kN/m².



TECHNICAL DOCUMENTS FOR DOWNLOAD

Simply scan the QR code to access further information about RHEINZINK-PV.

Go directly to the installation video



INSTALLATION INSTRUCTIONS

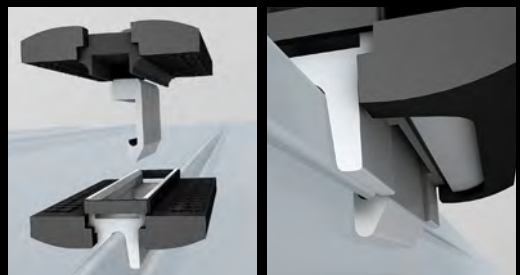
Perfect results in just a few steps.



1

Attaching the clamp base parts

- Even distribution of PV clamps
- Observe wind load requirements, min. 4 clamps per module side
- Ensure precise fit to seam geometry



3

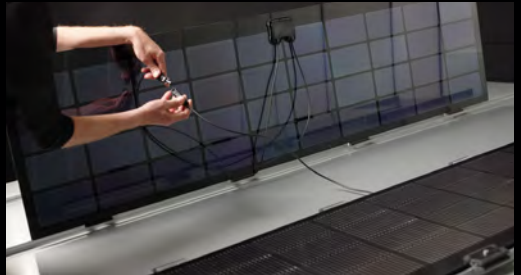
Attaching and fixing the clamp top parts

- Clamp hook must enclose the seam
- Hex socket screw secures the clamp hook and module
- Tighten to 6 Nm



2

Secure, slip-resistant positioning of solar modules



4

Lay, connect, and fasten additional PV modules