

In-roof solar

ROOF SOLUTIONS

Sandtoft





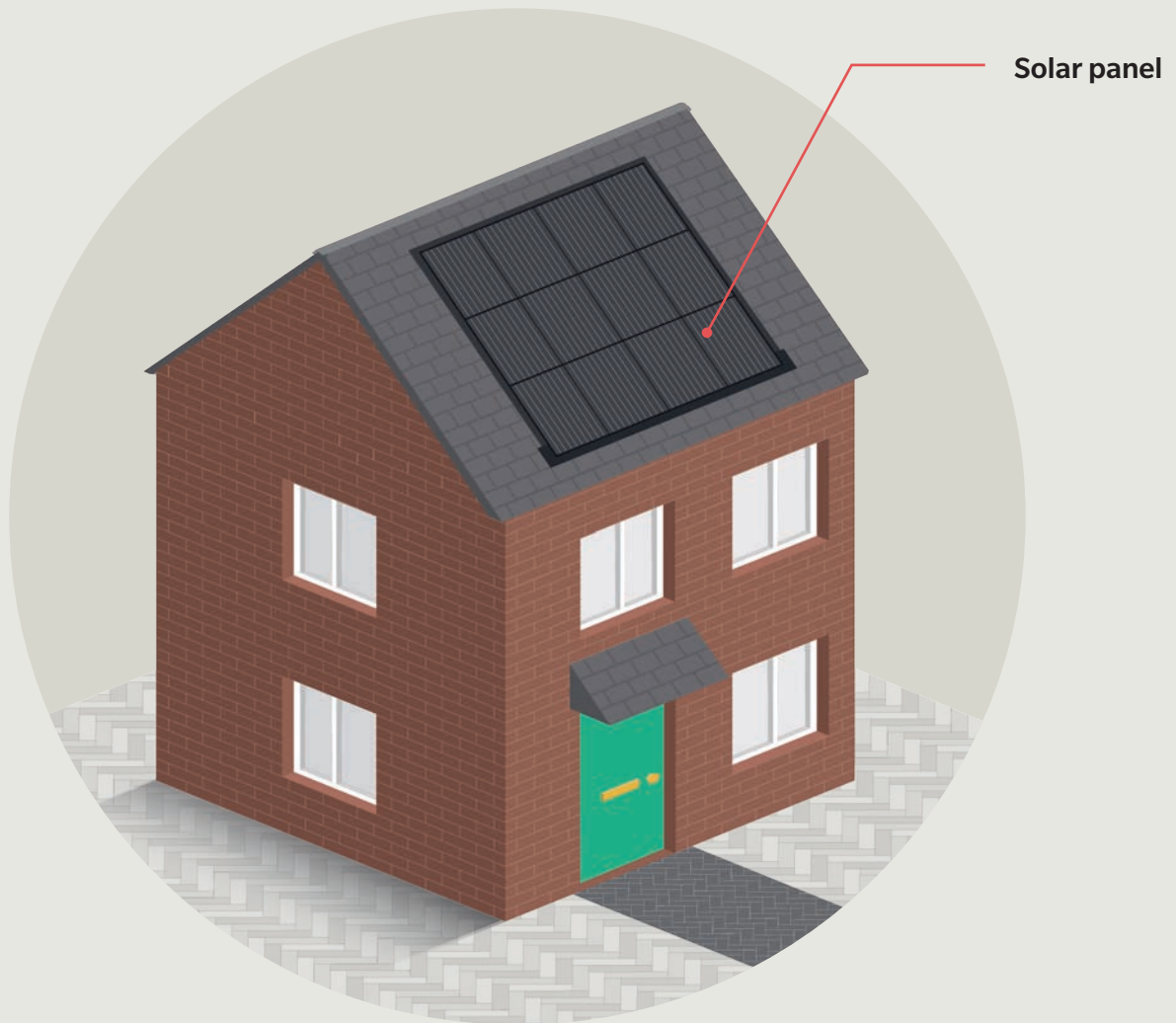


Contents

A complete solar system for tomorrow's homes today	4
The in-roof solar solution	5
Why choose in-roof solar?	6
Inverters and batteries for your solar roof	8
Full service support	10



wienerberger is proud to share that Perlite Solar, manufacturer of our In-roof solar panels and accompanying accessories, achieved a silver certificate from EcoVadis, the globally recognised corporate sustainability performance standard. This achievement reflects our dedication to meeting the highest standards of environmental responsibility through ethically sourced products, manufactured under fair labour practices, within safe and environmentally responsible work environments, and supported by a sustainable supply chain.



A complete solar system for tomorrow's homes today

Sleek, seamless, and speedy - our in-roof solar system combines panels, inverters and batteries into a single comprehensive package.

Ethically manufactured to SA8000 standard and BRE-certified, our in-roof solar system is compatible with all wienerberger UK roof tiles and fitted directly onto the roof battens. Zero-fuss installation takes less than a minute per panel, resulting in a contemporary aesthetic that performs as well as it looks.

Our hipped in-roof solar solution can accommodate more complex roof shapes including hipped roofs, expanding the possibilities for developers and social housing to meet Part L building regulation and Future Homes Standard.

Our in-roof solar package sets a new standard for modern roofing which will support housebuilders, contractors, asset

owners and homeowners in facing the industry challenges of today and tomorrow.

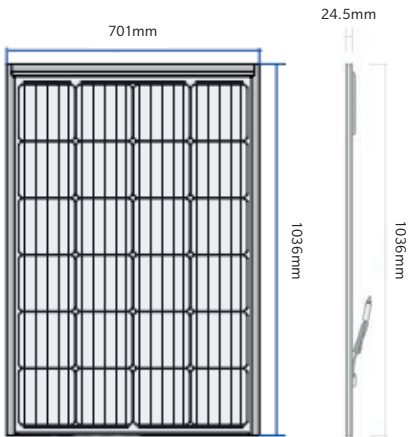
Unsure of where to start when it comes to specifying or installing solar panels?

Get maximum efficiency out of your in-roof solar solution by speaking to our team of in-house experts about which products are best suited to your project. You can be confident in making the right selection of compatible products, with technical support and installation guidance available should you need a helping hand.

Get in touch: wbukmarketing@wienerberger.com

The in-roof solar solution

Front and side profile

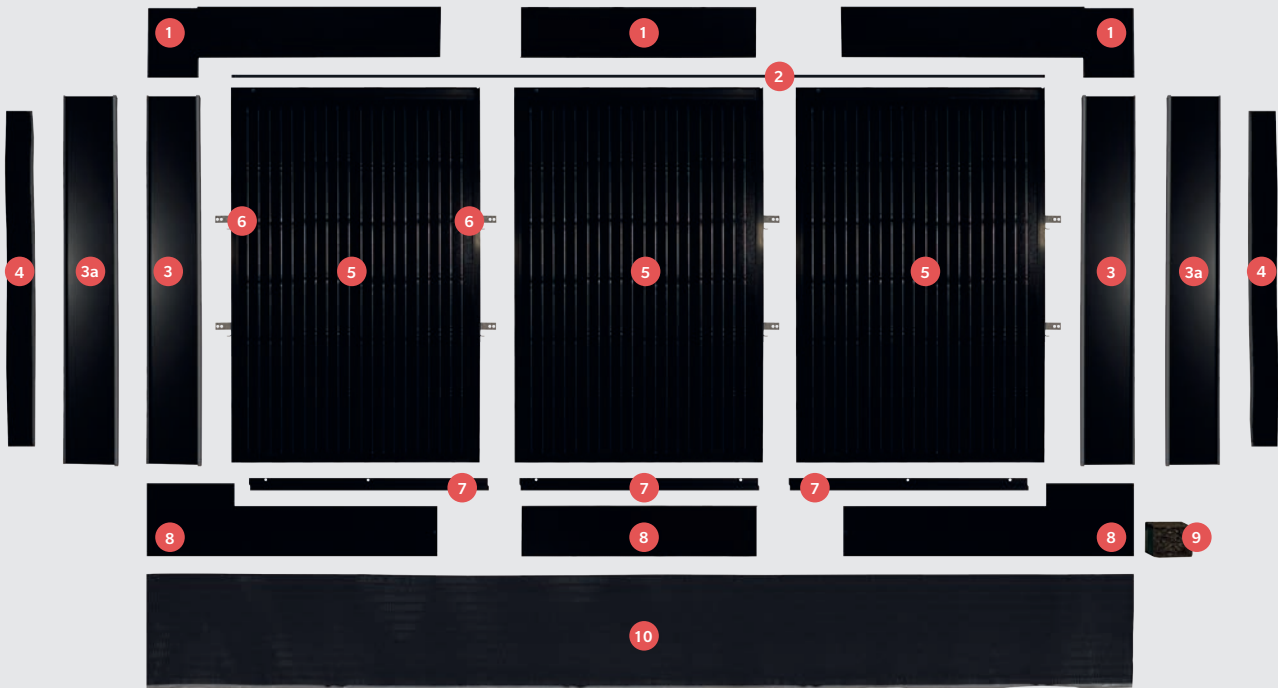


Electrical Performance

Module type	PLM-125MB-24 SERIES		
Power output	Pmax	Wp	125
Voltage at Pmax	Vmpp	V	13.33
Current at Pmax	Impp	A	9.38
Open circuit voltage	Voc	V	16.22
Short-circuit current	Isc	A	9.79
Module efficiency	Eff	%	18.2

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN IEC 60904-3. Power measurement uncertainty is within +/- 3%

System components



- 1. Aluminium flashing top (left, middle, right)
- 2. Seal strip 01
- 3. Aluminium flashing side (left & right)
- 3a. Hipped aluminium flashing side (left & right)
- 4. Seal strip 02
- 5. IRT Panels (left, middle, right)
- 6. Mid-clamp (right & left)
- 7. Bottom edge
- 8. Aluminium flashing bottom (left, middle, right)
- 9. Self tapping screws
- 10. Lead replacement

Why choose in-roof solar?



MCS certified roof pitch at 15 degrees

In-roof solar is independently tested for wind resistance, weatherproofing & fire safety.

- We have gone above and beyond requirements by conducting independent wind driven rain tests at the BRE. MCS 012 - in-roof solar is a system you can trust in all conditions.
- Fire rated to BROOF (t4) standard, the highest possible UK fire rating for roof-mounted systems.
- Wind resistance exceeds all major roof mounting systems.

Small Number of Parts

Thanks to its interlocking design, the in-roof solar solution provides an easy and fast installation.

- Minimal number of parts in comparison to other systems on the market.
- Single lapped design, which mimics roof tiles. The timeless character of the traditional tiled roof is maintained and futureproofed.
- No individual panel flashing is required due to interlocking design.
- Our system supports hipped and irregular roof designs.

Fixes Directly to Roof Battens

In-roof solar panels are mounted directly to the roof battens, reducing mounting costs.

- Independently tested at the BRE using standard 25mm thick battens nailed to the rafters with 65mm aluminium nails. Giving confidence the system will withstand wind uplift pressures throughout the majority of the UK.*
- Smaller number of parts when compared against other systems on the market.
- No trays required.
- Solar panels fit seamlessly inline with roof profile.



*Subject to the building location, height and design. Please contact us for support with your design load calculations.

Simple to Install

Easier to install than other conventional on-roof and in-roof systems.

- Panel to panel connection is less than 1 minute.
- Simple panel to panel connection guides the installer in to the correct position by simply pushing the panels together.
- No specialist equipment is required.



Lightweight & Easy to Handle

In-roof solar panels are lightweight and easy to carry.

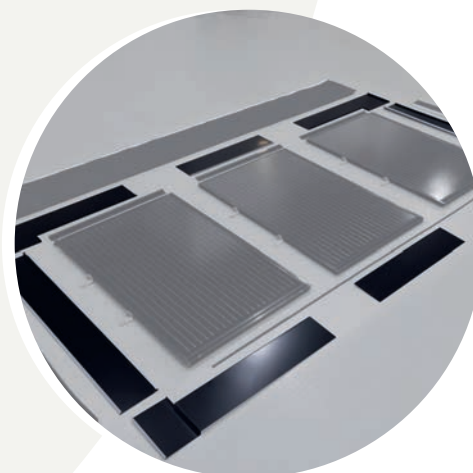
- A combination of strength and simplicity - each panel weighs only 8.95kg.
- In-roof solar can be installed or removed in under one minute per panel.
- Interlocking design provides superior strength and wind rating.



Aluminium Flashing

The flashing used is aluminium and interlocks together - no adhesive is required.

- Universal system is compatible with all Sandtoft & Keymer roof tiles and roof membranes.
- No plastic which can suffer from degradation over time.
- Panels and flashing have an interlocking system designed with a product warranty of 15 years.*



*Sandtoft 15 year Roofspec offering incorporates both tiles and in-roof solar installation as a complete roof structure.

Inverters and batteries for your solar system

When it comes to harnessing the power of solar energy, it takes more than just high-quality panels to create a truly efficient and reliable system. That's why we are proud to offer inverters and batteries, in partnership with our chosen supplier Solax. All our inverters and batteries come with a 5 year product guarantee to provide you with a complete integrated solution.



Empower Your System with Batteries

If you're looking to take your solar system to the next level, our selection of batteries are here to provide you with enhanced energy management capabilities. By incorporating batteries into your setup (available in 3,6,9 and 12kW) you can store excess energy generated during the day and use it during peak demand or when the sun isn't shining. With our range of batteries, you have the flexibility to choose the solution that aligns perfectly with your energy needs.

Why choose a battery?

 Store both electricity generated from your solar system and supplied directly from the grid.

 Take advantage of cheaper rates with a battery system. It is cheaper to use stored energy than exporting it to the grid and buying it back at higher prices.

 You can purchase and store energy from the grid at a cheaper price (usually at night) and use it for the rest of the day or whenever suits your lifestyle.

 Help to meet Part L legislation and envisaged Future Homes Standards 2025 by reducing household carbon emissions.

We also now offer the SolaX Energy Storage System. An All-in-one solution designed with a hybrid inverter, battery and advance Battery Management System to ensure high efficiency, safety and flexibility.

Our technical team can recommend the best solution for your project.

Solax Triple Power 3.0 Battery



Inverters

We offer a range of string inverters both grid-tied and hybrid to cater to a wide range of project sizes and requirements. Whether you need a grid-tied or hybrid solution, we have the perfect inverter for you. From small residential installations to medium-sized commercial projects, all the way up to large-scale applications, our inverter options ensure optimum performance and seamless integration with your solar system.

Features:



Remote Upgrade
and Control



Waterproof



LCD Touch Display



Online Monitoring



Support EV Charger*
(Fast Charging Mode)

Solax Grid-tied Inverters

Systems



Available in:..
1.0kW - 8.0kW

* Applicable only to large systems

Solax Hybrid Inverters (Compatible with batteries)

Systems



Available in:..
3.0kW - 7.5kW



Maximise energy generation and reduce costs

We understand that navigating through the intricacies of inverters and batteries can be overwhelming. But fear not, our team of experts are here to guide you every step of the way. With their deep knowledge and experience, we'll work closely with you to understand your unique requirements and help select the most efficient and cost-effective solution for your project. Our experts are committed to ensuring that you have a solar system that both maximise energy generation and reduces costs.

Take the next step towards a greener future today with a solar system that empowers you with clean, sustainable energy.

Get in touch: wbukmarketing@wienerberger.com

Full layout service support

Our design team is on-hand, ready to provide technical support whenever you need us to help your project run smoothly. We offer a complete roof design with all relevant details provided.

We can provide a comprehensive design reports, including:

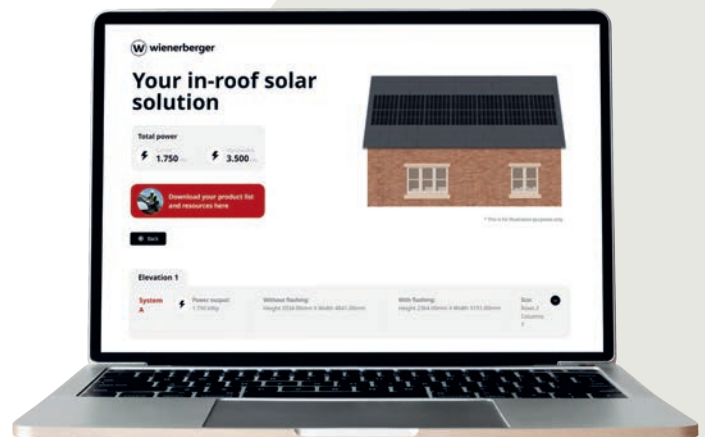
- Tailored roof specification plan
- Panel placement (arrangement, spacing, alignment)
- Positioning /layout recommendation
- Shading graphs
- Payback estimations
- Electrical connection advise
- Safety measures and compliance regulations (Considerations document)
- Recommendation on inverter sizing and string information



Our PV-configurator tool

This user-friendly tool simplifies the process of determining the maximum kWp capacity that can fit within your roof space for in-roof solar panels. By inputting your roof dimensions, the tool calculates the maximum capacity and allows you to design your array system with minimal effort. Once you're done, you can generate a bill of materials that specifies the quantity needed to achieve your desired design.

Visit wienerberger.co.uk/solar to get started.





Date issued: May 2026

Wienerberger House, Brooks Drive, Cheadle Royal Business Park, Cheadle SK8 3SA
T 0161 491 8200, E wbukmarketing@wienerberger.com, wienerberger.co.uk