



**BORN ON THE ROOF.
NOT IN A LAB.
Professional solar
mounting system**

Manufacturer:  **ENERACK**



ISO 9001: 2015 quality management system certified

THE BACKBONE OF THE SOLAR PANEL SYSTEM

From experience, we know how critical it is for a solar mounting structure to be quick and simple to install, reliably robust, and offer outstanding value for money. Enerack's professional mounting solutions provide suitable fixing systems for all roof types.

Enerack's mission is to ensure our systems meet the highest technical standards while delivering long-term performance. Easy handling, intuitive design, and straightforward installation all contribute to a fast and cost-efficient installation process.

We believe safety should never be in question – which is why we provide detailed installation report with static calculations for flat roof installations, helping to ensure full compliance with the strictest regulations. Our commitment to durability, reliability, and speed gives our clients full confidence in every Enerack system.



Outstanding value for money



Permanent stock with CE and TÜV certification



Lightning fast and easy assembly



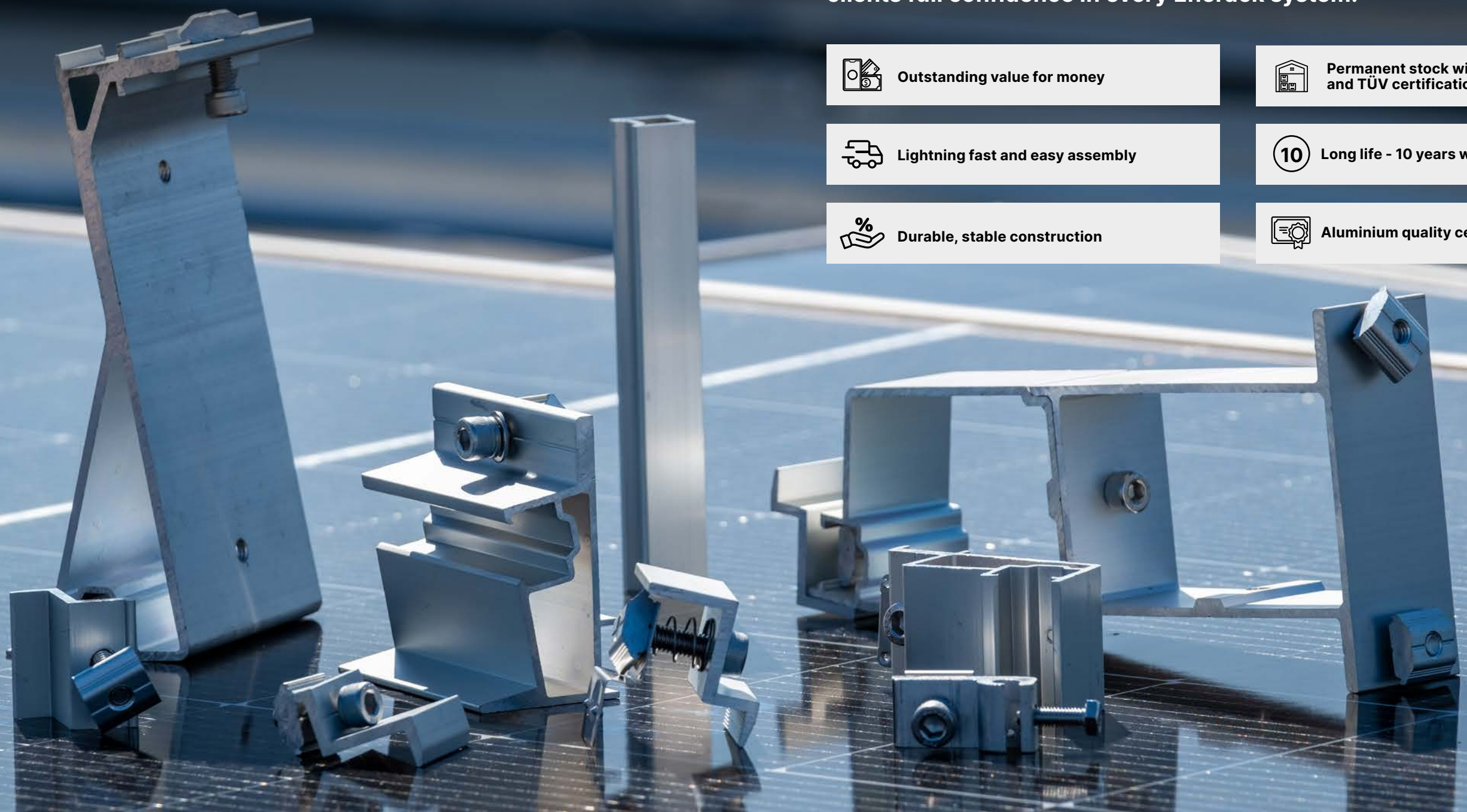
Long life - 10 years warranty



Durable, stable construction



Aluminium quality certificate



TILE ROOF

Enerack offers a wide range of tile roof mounting structures compatible with various tile types:

- standard tiles
- flat tiles
- slate tiles

These systems are designed with key technical features to reduce inventory costs and enable fast, straightforward installation. The innovative rail-connect base support increases structural strength and ensures safe operation. With a broad product selection, Enerack offers the flexibility to adapt to different installation scenarios and on-site conditions.



TECHNICAL FEATURES	
Product name	Tile roof mounting system
Application	Standard tile, flat tile, slate tile roofs
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasted
Module orientation	Landscape or Portrait

TILE ROOF ATTACHMENT

Description Tile Roof Hook - Fix 1



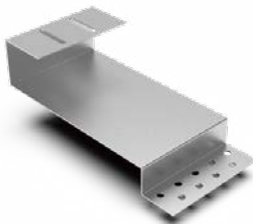
Description Tile Roof Hook - Adjustable 2



Description Tile Roof Hook - Adjustable 3



Description Flat Tile Roof Hook - Fix 4



Description Rail Clamp Hook - Rail Adapter with Nuts 5



Description Mounting Rails 3.5 m Side Mounted 6



Description Mounting Rails 4.2 m Side Mounted 7



Description End-Clamp 30-40 mm Silver 8

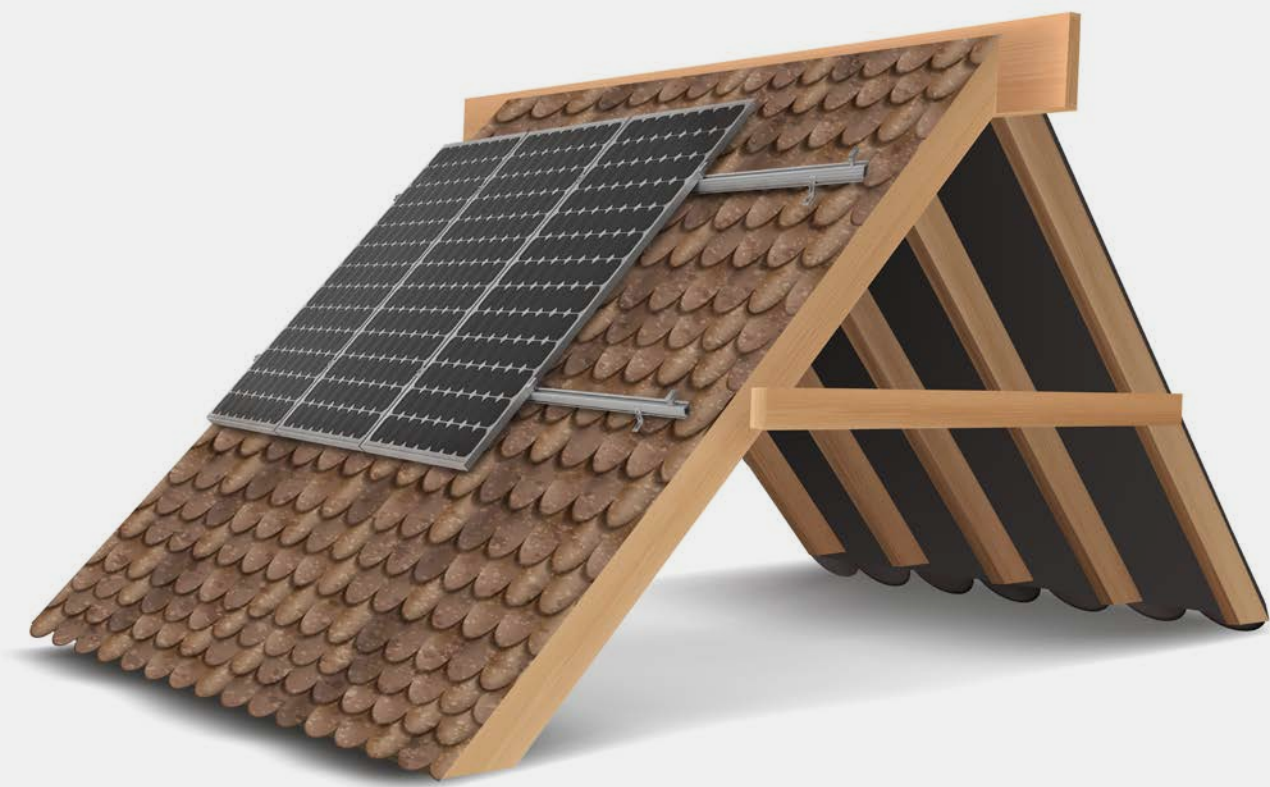


Description Mid-Clamp with Earthing Plate 9



SHINGLE ROOF

Enerack offers a wide range of mounting structures for shingle roofs, compatible with various shingle types including asphalt shingles. The uniquely designed mid and end clamps are suitable for solar modules with a thickness of 30–40 mm. With key technical features considered, our design helps reduce inventory costs and supports quick and simple installation. The innovative rail-connect base support significantly enhances structural strength and ensures safe use.



SHINGLE ROOF ATTACHMENT

Description

Mini Rail 26 mm

1

A long, narrow, silver-colored metal rail with a series of small, evenly spaced holes along its length. It has a slightly curved profile.

Description

Mini Rail 385 mm

2

A long, narrow, silver-colored metal rail, similar to the 26 mm version but wider. It also has a series of small holes along its length and a slightly curved profile.

Description

Hanger Bolt 10×200 + Plate

3

A silver-colored metal hanger bolt with a hexagonal head and a threaded shaft. A small, rectangular metal plate is attached to the head of the bolt.

Description

Shingle Roof L Fleet

4

A silver-colored metal L-shaped bracket or fleet. It has a flat base with a hole and a vertical flange. A silver-colored screw is shown next to it, intended for securing the bracket to the roof.

Description

Mounting Rails
3.5 m Side Mounted

5

A long, silver-colored metal mounting rail with a series of small holes along its length. It has a wide, flat base and a slightly curved profile.

Description

Mounting Rails
4.2 m Side Mounted

6

A long, silver-colored metal mounting rail, similar to the 3.5 m version but longer. It has a wide, flat base and a slightly curved profile.

Description

End-Clamp 30-40 mm - Silver

7

A silver-colored metal end clamp. It has a U-shaped profile with a central hole and a small protrusion on one side.

Description

Mid-Clamp with Earthing Plate - Silver

8

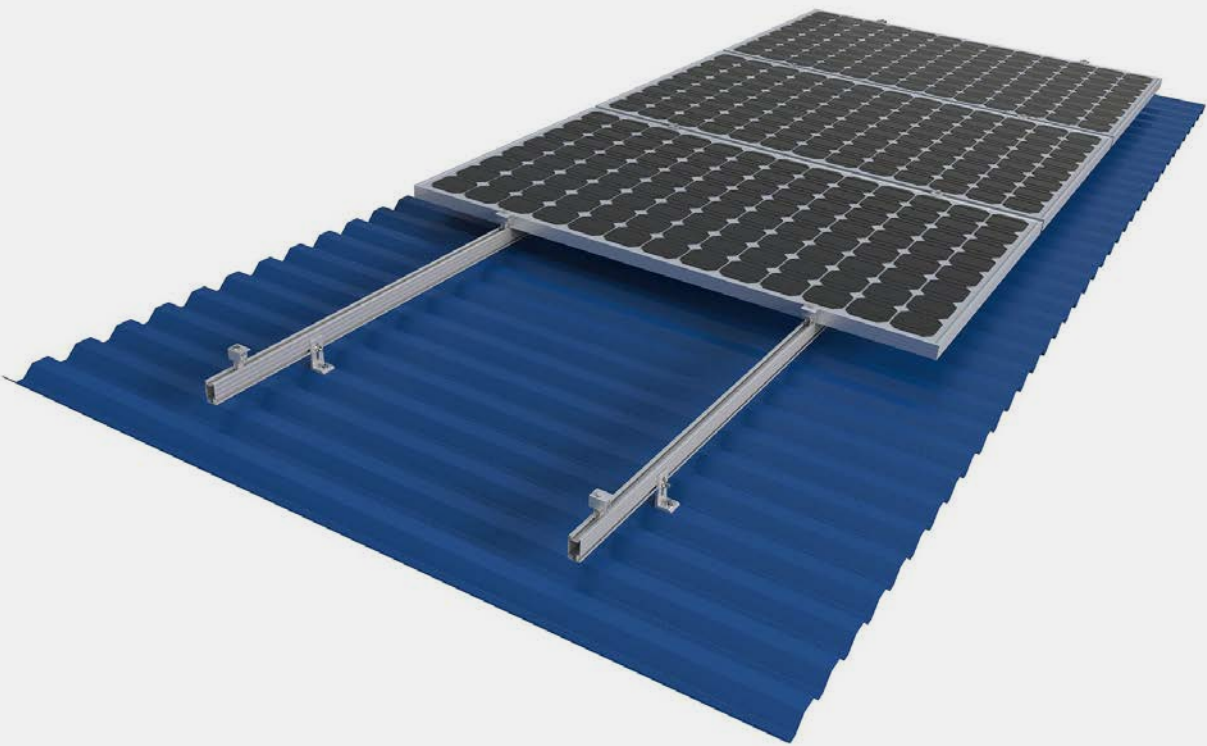
A silver-colored metal mid-clamp with an earthing plate. It has a U-shaped profile with a central hole and a small protrusion on one side. A silver-colored spring is attached to the bottom of the clamp.

METAL ROOF

Enerack metal roof systems offer two fixing methods:

- 1. Drill-fixed components such as L-feet brackets, hanger bolts and hooks.
- 2. Standing seam clamps for direct mounting without penetrating or damaging the roof covering.

Our design, based on key technical parameters, helps reduce inventory costs and supports fast, straightforward installation. The innovative rail-connect base support enhances structural strength and ensures safe operation. Enerack provides a wide selection of brackets for metal roofs, with customisation options to suit specific installation requirements.



TECHNICAL FEATURES	
Product name	Metal roof mounting system
Application	Metal roof
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304, EPDM
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasted
Module orientation	Landscape or Portrait

METAL ROOF ATTACHMENT

Description

Mini Rail 26 mm

1



Description

Mini Rail 385 mm (with bolt)

2



Description

Rail R60 3000 mm for Trapezoidal Sheet

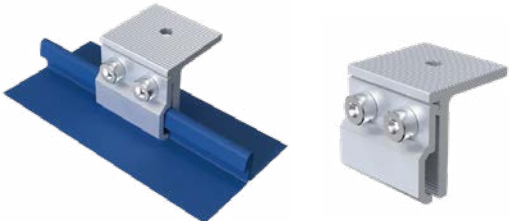
3



Description

Standing Seam Clamp

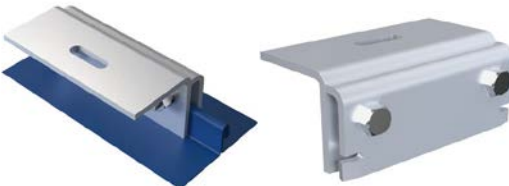
4



Description

Extended Stainless Steel Standing Seam Clamp

5



Description

Rail Clamp Hook - Rail Adapter Nuts

6



Description

Shingle Roof L Feet

7



Description

Mounting Rails 3.5 m - Side Mounted

8



Description

Mounting Rails 4.2 m - Side Mounted

9



FLAT ROOF

The Flat10 system is a flat-roof solution with a 10° tilt, installed in either south-facing or east-west configuration. Panels are mounted on their short sides, reducing the number of components needed for installation. Depending on panel size or wind/snow loads, the system can be supplemented with additional support legs. All panels are interconnected via rails, forming a continuous structure that offers enhanced resistance to environmental loads.

- Compatible with various roof surfaces:
- Concrete roofs
 - Membrane roofs (with rigid or soft insulation)
 - Bitumen roofs
 - Gravel-covered roofs

Made from extruded aluminium and secured with stainless steel fasteners, the system ensures durability and long service life without the need for welding or chemical anchoring – helping to prevent roof damage. Where needed, only EPDM rubber makes contact with the roof surface, increasing friction and compensating for unevenness. In addition, the modular design enables fast and straightforward installation, reducing labour time and costs.



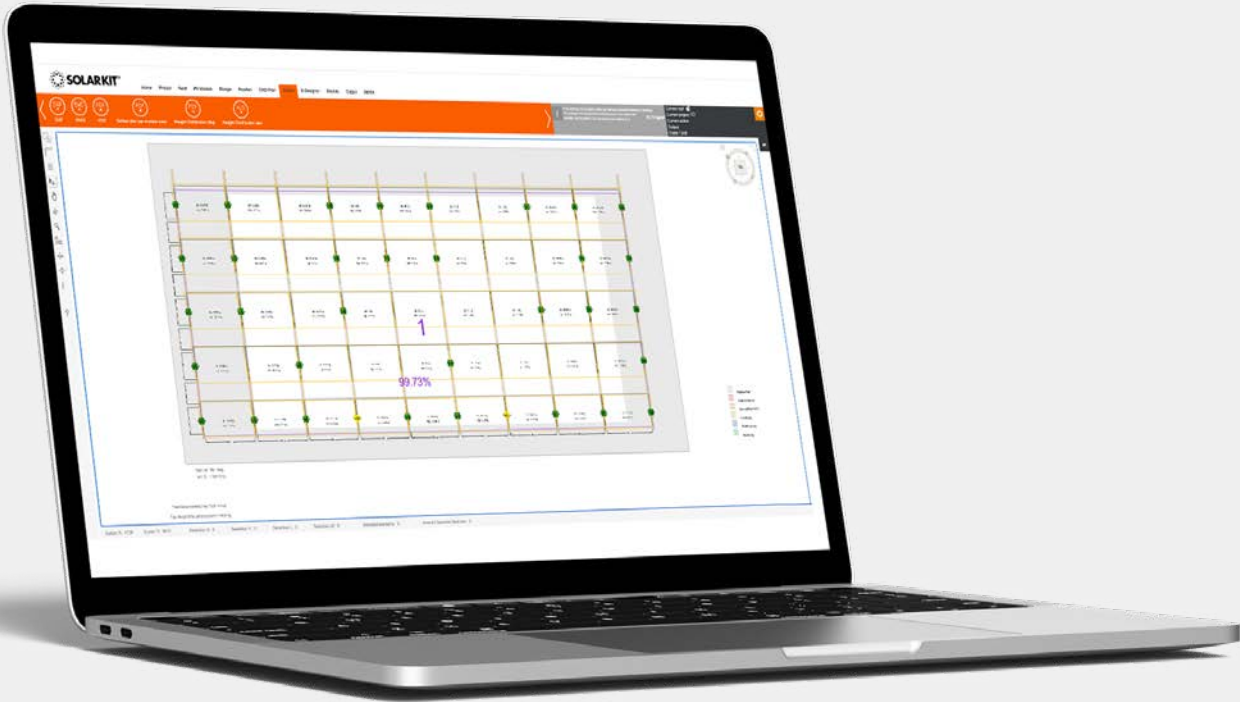
TECHNICAL FEATURES	
Product name	Enerack Flat10
Application	Flat roof
Tilt	10°
System Material	Extruded aluminum profile, AL 6005 T5
Fastener material	Stainless steel SUS 304, EPDM
Finish	Anodized
Module orientation	Landscape



STATIC CALCULATIONS FOR ENERACK FLAT ROOF SYSTEMS

For modern solar installations, ensuring optimal performance, structural stability, and avoiding excessive load on the roof structure is essential. An increasing number of countries now require a structural load analysis for PV mounting systems to ensure proper ballast configuration aligned with national standards and local site conditions. Such documentation is also frequently required for subsidy applications, making an official structural calculation a key prerequisite to qualify for certain grants.

The professional installation report by Enerack precisely determines the required ballast for safe installation and reliable, long-term system performance.



WHAT IS INCLUDED IN THE ENERACK PROJECT REPORT?

Our static analysis not only helps determine the exact ballast requirements but also provides comprehensive installation guidance for your team.



Detailed installation report: We provide a complete layout for each installation, including the exact quantity of each component and precise millimeter-level spacing instructions.



Ballast placement map: Installers receive a visual map indicating the exact positioning and quantity of ballast required. Calculations are based on local wind and snow conditions, as well as sliding forces. Validation and roof capacity checks remain the client's responsibility.



Complete project report: We provide a full project summary containing all calculated figures, installation conditions, and data required for structural verification.



Wind Tunnel Testing: Wind tunnel testing is a key part of our design process. It enables accurate measurement of the forces acting on the system, such as uplift and sliding, based on real-world wind and snow scenarios. This allows for more precise ballast design than what national standards alone would recommend, ensuring system stability in all environmental conditions.



Why is it essential for the client to verify the load-bearing capacity of the roof?
The weight and forces determined by your custom mounting system must always be assessed by the client in consultation with a person licensed in the country of use (e.g.: architectural engineer, structural engineer). While we provide all necessary technical data, the final responsibility for verifying the roof's load-bearing capacity lies with the structural engineer.

ACCESSORIES

To meet the demands of different markets, customer preferences, and project budgets, we offer a wide range of fastening components tailored to various installation requirements. All our products undergo rigorous strength calculations and are tested by third parties such as SGS. They are TÜV- and CE-certified to ensure the highest quality and reliability.



DescriptionRail Connector with Screw1



DescriptionRail End Cap made of EPDM Rubber2



DescriptionMid-Clamp - Black3



DescriptionMid-Clamp with Earthing Plate - Silver4



DescriptionEnd-Clamp 30-40 mm - Silver5



DescriptionEnd Clamp for 35 mm - Silver6



DescriptionEarthing Lug Kit7



DescriptionRail Fixing Screw Set8



DescriptionCable Clip for PV Panels - 2 Cables9



DescriptionCable Clip for PV Panels - 4 Cables10





Become our partner



shop.solar-kit.eu/hu/termek/tartoszerkezetek
nagyker@solar-kit.hu

Official Distributor



shop.solar-kit.eu