

Solar Energy Systems Catalog

"The Future is in the Sun"

Engineering the Future of Energy

Founded in 2022, our company is a dynamic engineering firm specializing in EPC (Engineering, Procurement, Construction) services in the field of sustainable energy. Rooted in the visionary expertise of Altim Aluminium, established in 2003, we stand out with our innovative and quality-driven approach to clean energy solutions.

Global Footprint in Renewable Energy

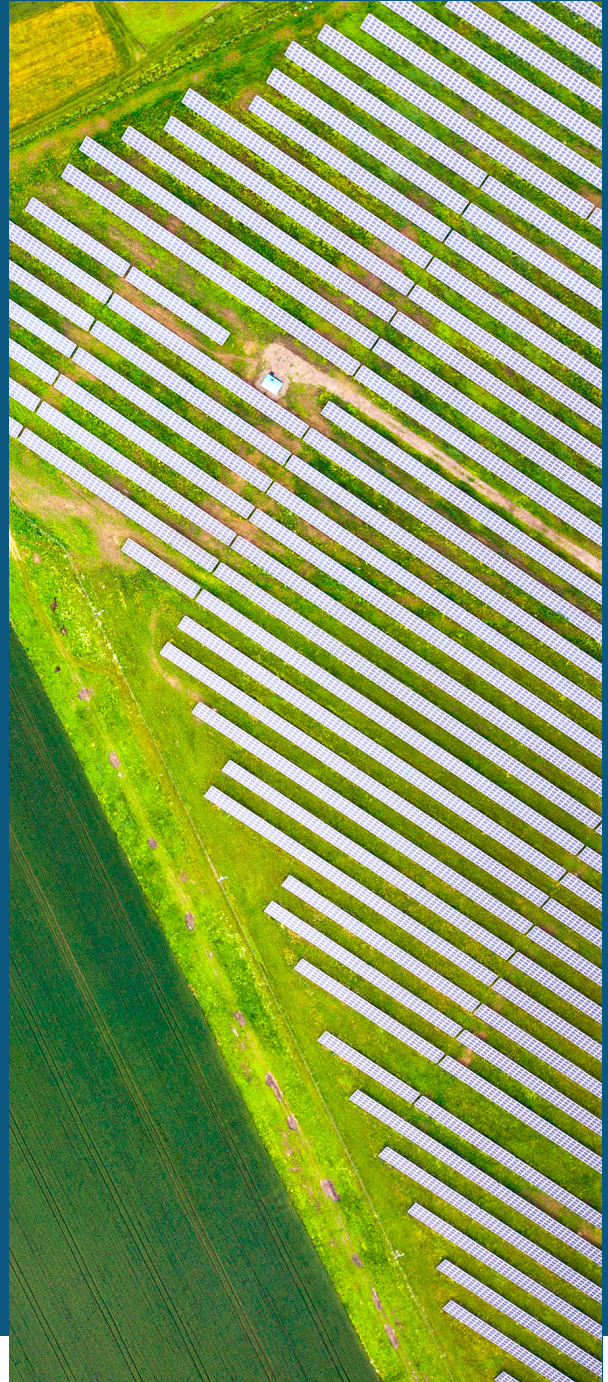
We make an impact both domestically and internationally, particularly in industrial-scale solar energy solutions and other renewable energy projects. From design and procurement to construction and commissioning, we provide comprehensive EPC services while prioritizing sustainability and energy efficiency in every project.

Our Mission

To become a benchmark in the industry by merging environmentally friendly energy solutions with engineering excellence, contributing to the preservation of natural resources.

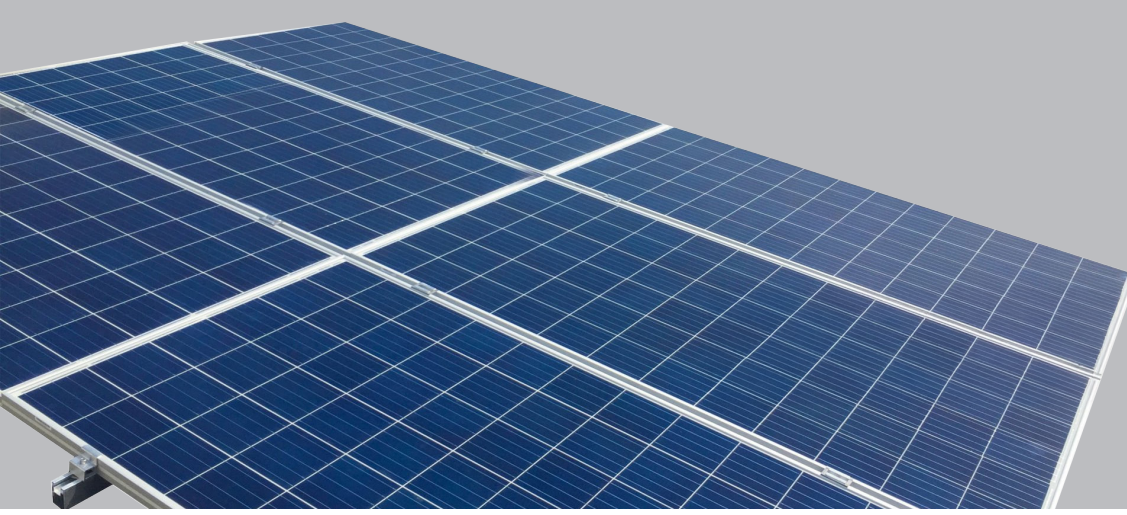
Our Vision

To push boundaries with transformative renewable energy projects worldwide, building the technological infrastructure for a sustainable future for generations to come.



+7 GWp
Supply of Solar
Mounting Systems

+100 MWp
Turnkey
EPC



Solar Energy Systems

Solar Energy Systems (SPP) are technologies that convert sunlight directly into electrical energy through photovoltaic (PV) panels. The most widespread and accessible of renewable energy sources, SPPs are used on both individual and industrial scales.

Key Features

On-Grid

Can sell excess energy to the grid.

Off-Grid

Battery-backed, energy storage.

Hybrid Systems

Grid + Battery + Solar combination.

Areas of Use



Residential Buildings



Agricultural Irrigation

“
High
Efficiency,
Low
Cost!
”



Factories



Commercial Buildings

Why Choose Us?

Experience: Over 20 years of industry expertise backed by Altim Aluminium's engineering legacy.

Innovation: Cutting-edge solar technologies and scalable energy systems.

Global Impact: Projects that combine local values with international standards.

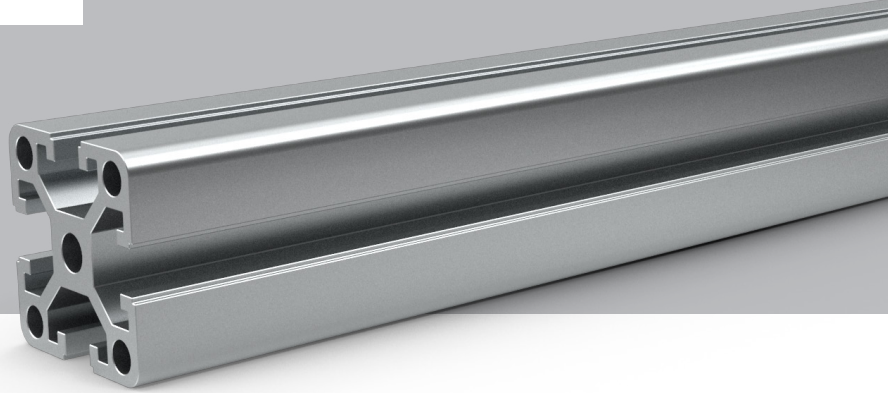
We are here to lead the green energy transformation.

+23.000

Different Molds

¹³
alupedia

Unlimited Design,
Infinite Solution



Aluminum Profile Manufacturer

Wide Product Range

With more than 23,000 extrusion dies, we offer the world's widest range of aluminum profiles. We produce special designs for architecture, automotive, energy, aerospace, white goods, furniture and many other sectors.

Sectoral Expertise

Our profiles offer lightness, durability and flexibility, responding perfectly to industrial needs. With our innovative engineering approach, we develop customized solutions for each project.

Quality and Trust

Produced with high performance alloys and advanced technology extrusion processes, our profiles offer quality and long life guarantee at global standards.

We Shape the Future

We combine the infinite potential of aluminum with unlimited design freedom. You dream, we produce!



One-stop shop for
worldwide profile diversity!





You dream,
We produce!

www.alupedia.com



Extrusion Plant

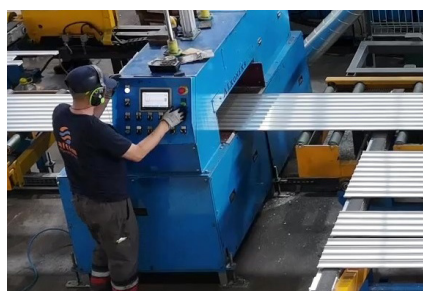
Our extrusion plant is built on a large area of 20,000 m² and has a closed area of 14,000 m². In our facility, all the necessary steps to transform raw aluminum into aluminum profiles are meticulously carried out.



Sub Processes

Quality Control

Strict quality control tests are carried out at every stage of the production process.



Tenifer

Tenifer is a special heat treatment applied to aluminum profiles to give them wear and corrosion resistance.

Treatment

Treatment of water and chemicals used in the aluminum profile production process without harming the environment.

Mold Allocation

Customers' special profile designs are analyzed by experienced engineers and the molds required for production are meticulously prepared.

Laboratory

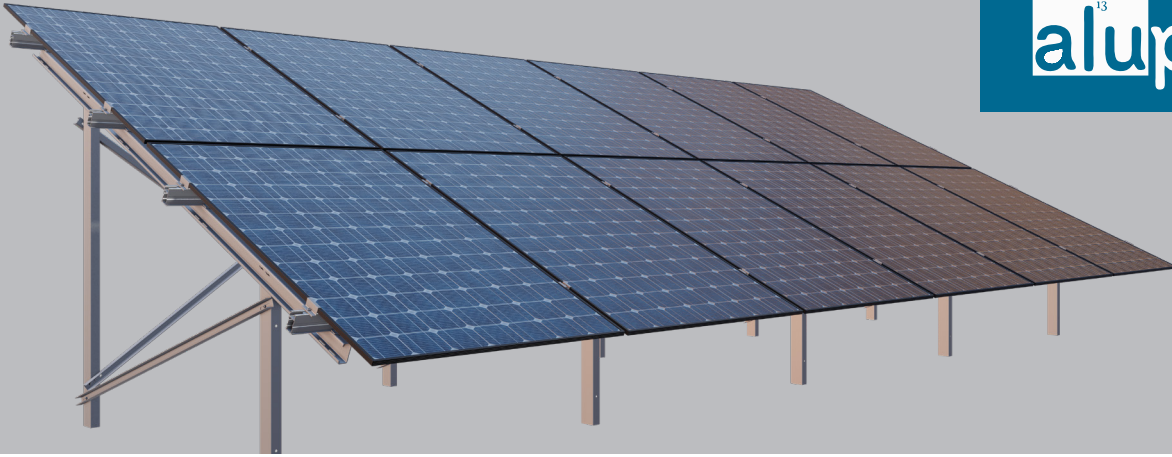
In our modern laboratory, samples of finished products are subjected to chemical and mechanical tests



Land Type

Solar Energy Systems

- ◆ Double Leg
- ◆ Patented Sliding System



Double Leg

The bipod mounting system is a structural solution used in off-road SPP applications where each solar panel is supported from two points, especially in rough terrain.

The Advantage of Double Leg

Ground Adaptability: Easy adaptation to uneven terrain

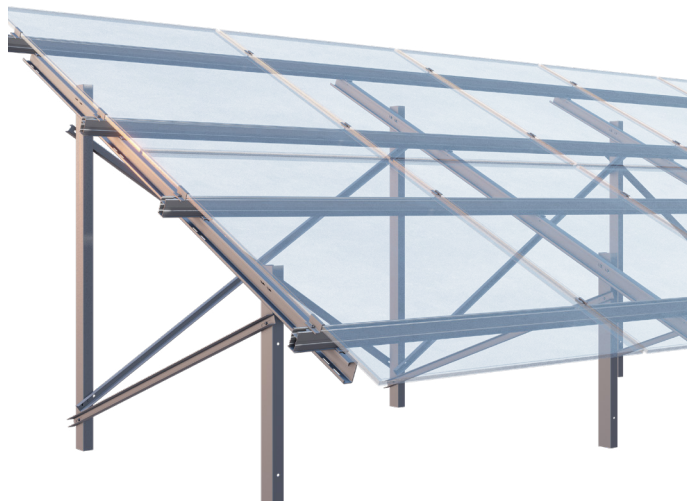
Cost Effective: 15-20% more economical than monopod systems

Wind Resistance: 150 km/h wind speed resistance

Fast Installation: 1MW+ capacity per day

Technical Information

Model	: AlpTwinFix
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Land
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



Affordable
Cost



High
Performance



Procurement
Support



Sliding System

The Advantage of Sliding System

01

Practical
Panel Installation

02

Cost
Effective

05

Fast
Mounting

03

Minimum
Labor Cost

04

Easy
Installation

06

Durable
System



Easy
Installation



10 Year
Warranty



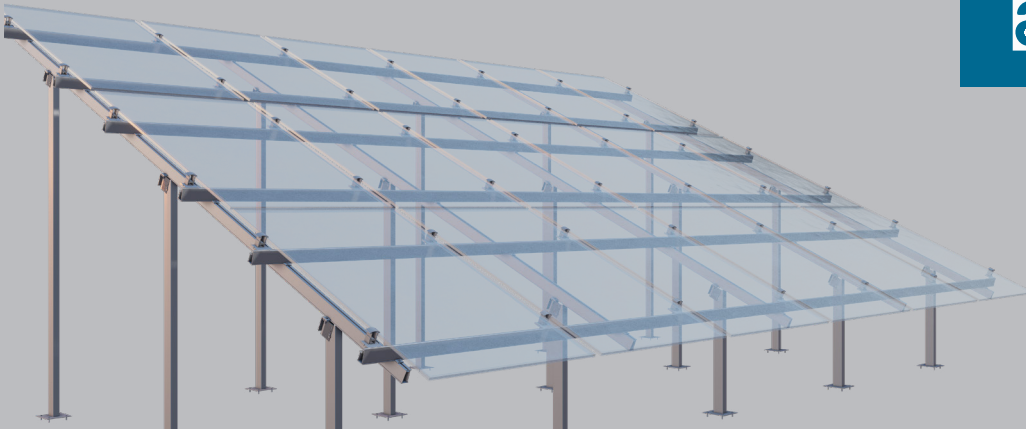
Affordable
Cost



High
Performance



Procurement
Support



Sliding System

Panels are placed by sliding on rails. Easy to load, saving labor and time. The system is designed to reduce cost and simplify installation.

The Advantage of Sliding System

Fast Installation: 40% faster installation by sliding the panels from the side.

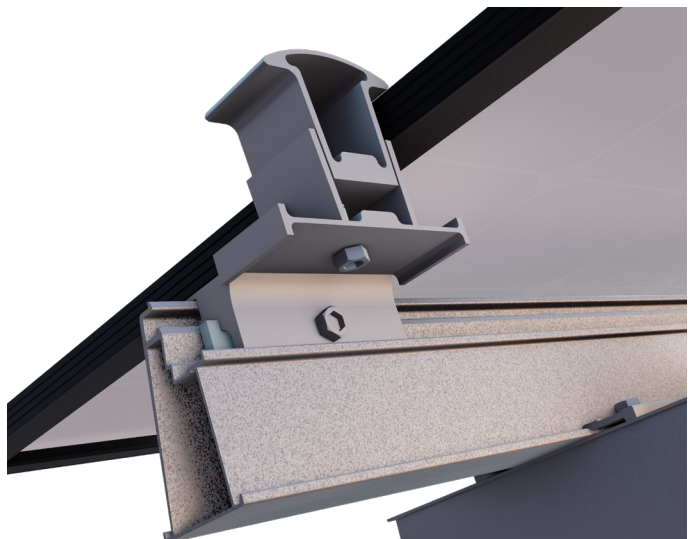
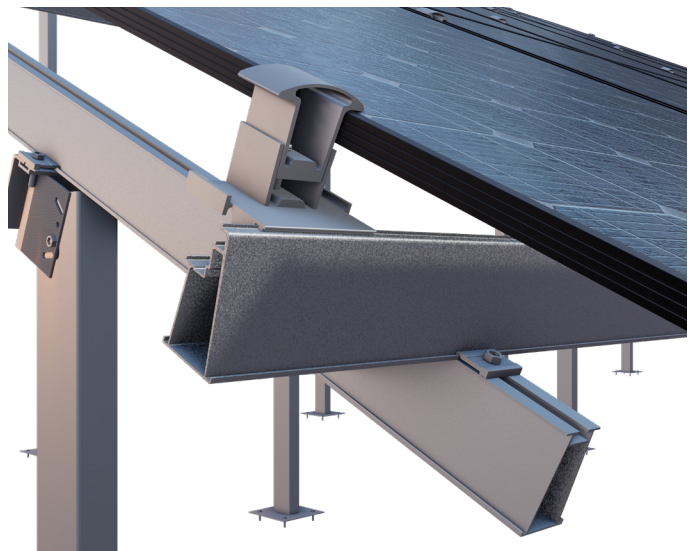
Minimal Equipment: Eliminates the need for a crane, compatible with manual labor.

Easy Access: Side access to defective panels.

Modular Design: Extra convenience in system expansions

Technical Information

Model	: AlpPrime
Alloy	: Steel / EN AW 6063 Aluminum
Layout	: Vertical
Assembly	: Slide Mount
Type	: Land
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



Affordable
Cost



High
Performance



Procurement
Support



Rooftop

Solar Energy Systems

- ◆ Standing Seam Roof
- ◆ Sandwich & Trapezoidal Roof
- ◆ Tile
- ◆ Shingle
- ◆ Membrane
- ◆ Flat Roof



Standing Seam Roof

Standing seam roofing is a roof system that is widely used in industrial and commercial buildings where metal sheets are joined by interlocking. Systems specially designed for solar mounting provide solar panel integration without damaging this roof type.

The Advantages of Standing Seam Roof

Does not damage the roof: It is fixed with special clamps without drilling.

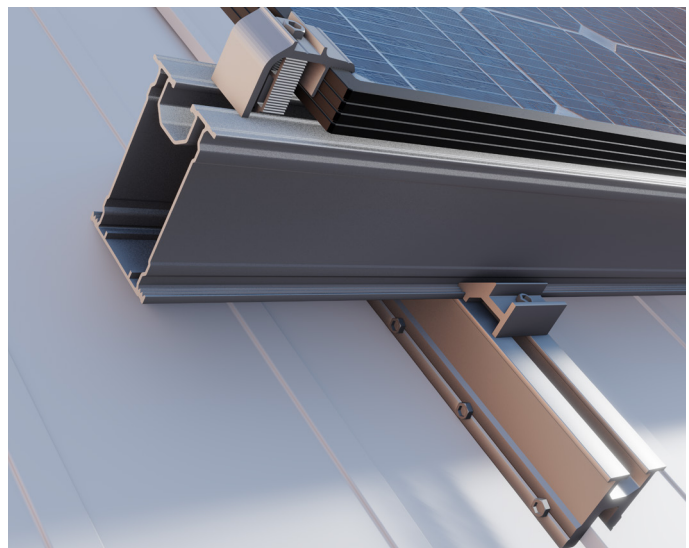
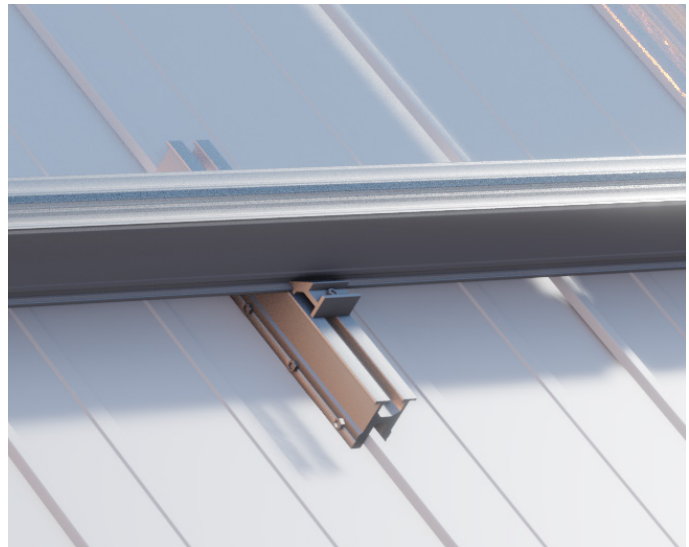
Fast Installation: Installation time is 30% shorter than traditional systems.

Aesthetic Design: Panels are placed in harmony with the roof.

Long Life: Superior durability with stainless steel/aluminum material.

Technical Information

Model	: AlpSeam
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Side Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



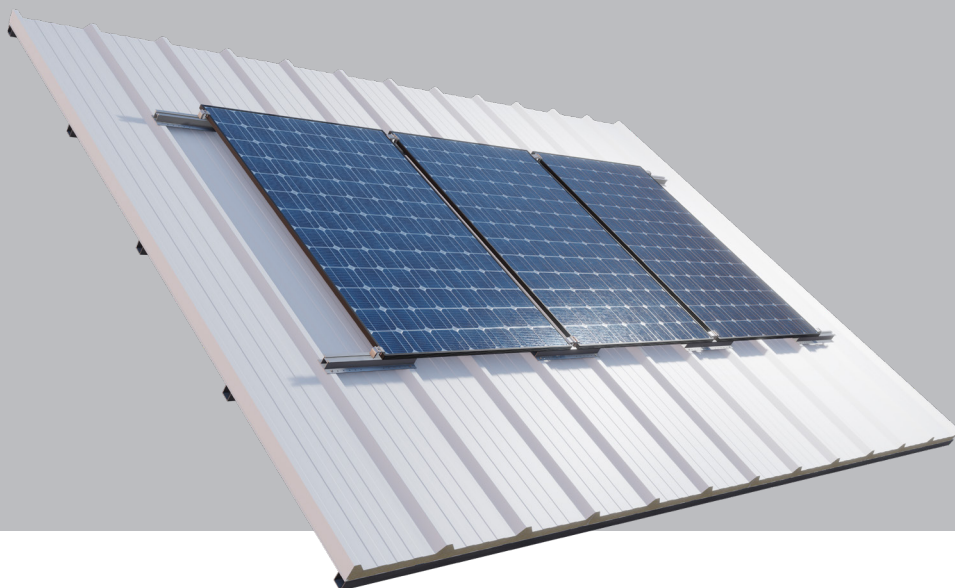
Affordable
Cost



High
Performance



Procurement
Support



Sandwich & Trapezoidal Roof

AlpPart

Sandwich and trapezoidal panel roofs are systems consisting of insulation material sandwiched between insulated metal surfaces and are widely used especially in industrial buildings.

The Advantage of Sandwich Panel Roof

Fast Installation: 500+ panels per day in large-scale projects

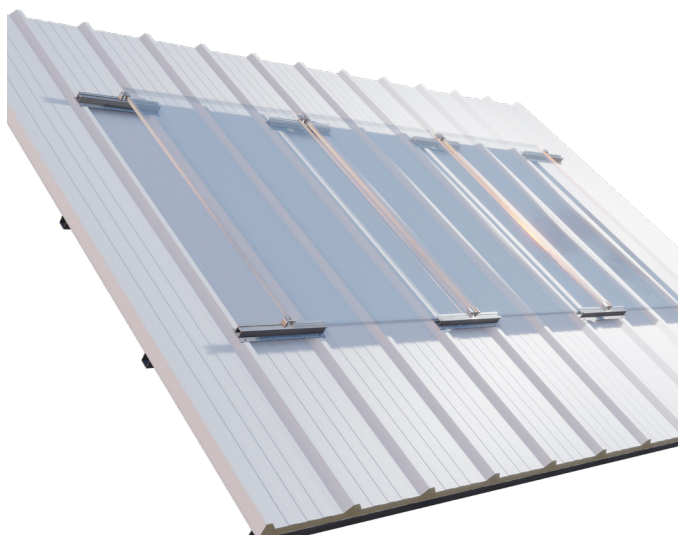
High Efficiency: Optimized panel angles thanks to flat surface (5°-15°)

Insulation Protection: Heat/water insulation does not deteriorate with special gaskets

Long Life: Corrosion resistant stainless fasteners

Technical Information

Model	: AlpPart
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



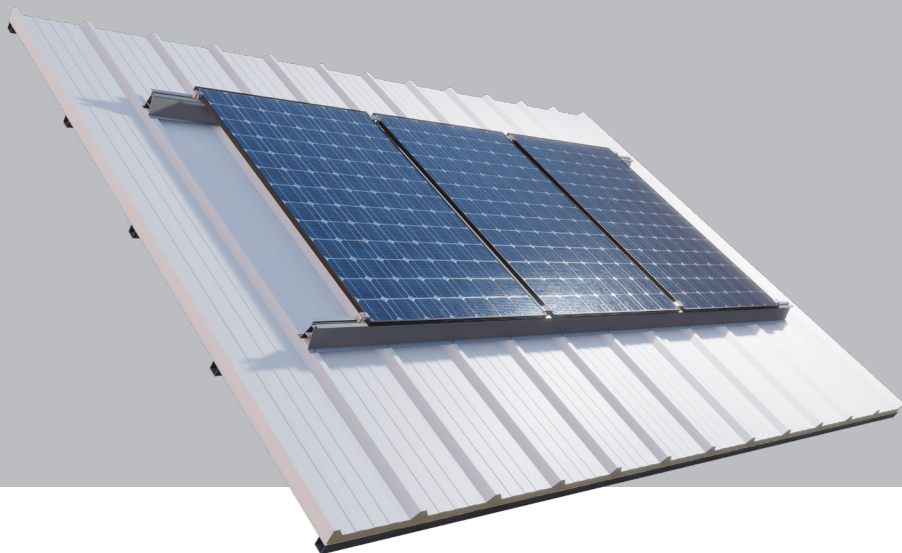
Affordable
Cost



High
Performance



Procurement
Support



Sandwich & Trapezoidal Roof

AlpFull

Sandwich and trapezoidal panel roofs are systems consisting of insulation material sandwiched between insulated metal surfaces and are widely used especially in industrial buildings.

The Advantage of Sandwich Panel Roof

Fast Installation: 500+ panels per day in large-scale projects

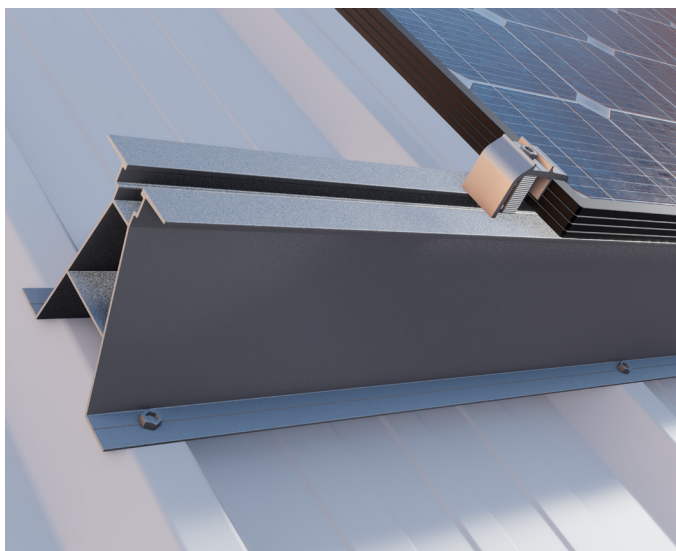
High Efficiency: Optimized panel angles thanks to flat surface (5°-15°)

Insulation Protection: Heat/water insulation does not deteriorate with special gaskets

Long Life: Corrosion resistant stainless fasteners

Technical Information

Model	: AlpFull
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



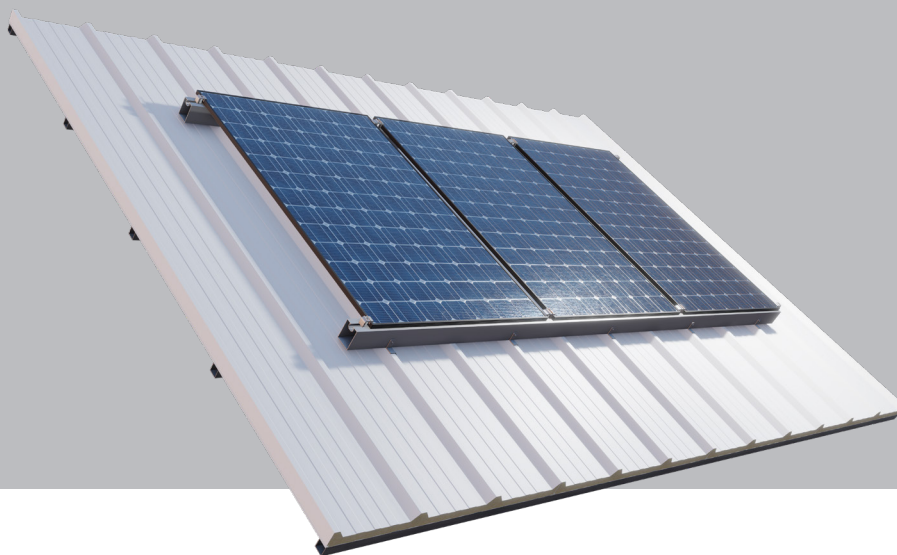
Affordable
Cost



High
Performance



Procurement
Support



Sandwich & Trapezoidal Roof

AlpSide

Sandwich and trapezoidal panel roofs are systems consisting of insulation material sandwiched between insulated metal surfaces and are widely used especially in industrial buildings.

The Advantage of Sandwich Panel Roof

Fast Installation: 500+ panels per day in large-scale projects

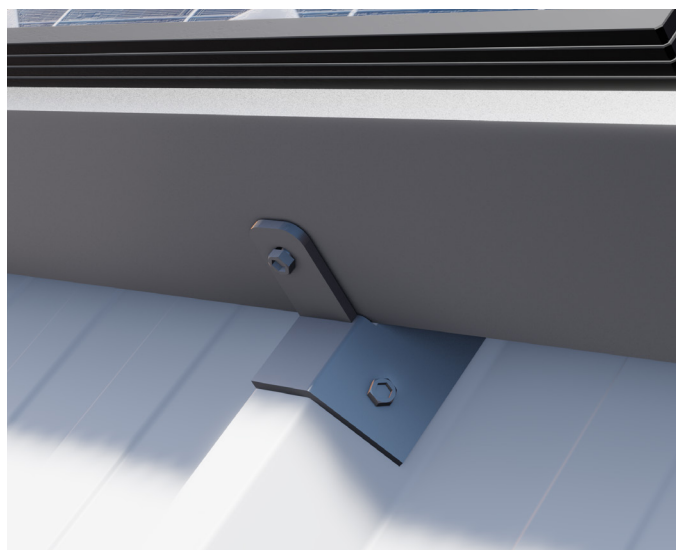
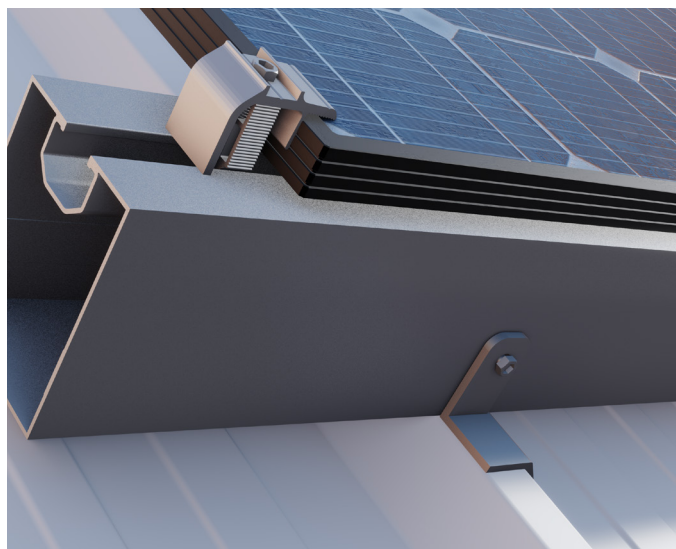
High Efficiency: Optimized panel angles thanks to flat surface (5°-15°)

Insulation Protection: Heat/water insulation does not deteriorate with special gaskets

Long Life: Corrosion resistant stainless fasteners

Technical Information

Model	: AlpSide
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Side Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



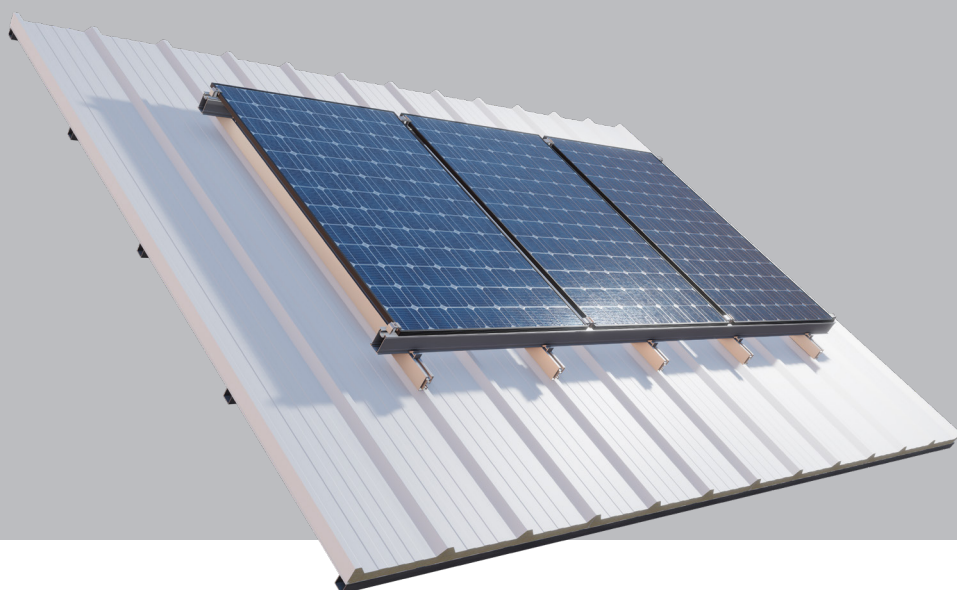
Affordable
Cost



High
Performance



Procurement
Support



Sandwich & Trapezoidal Roof

AlpDual-Screw

Sandwich and trapezoidal panel roofs are systems consisting of insulation material sandwiched between insulated metal surfaces and are widely used especially in industrial buildings.

The Advantage of Sandwich Panel Roof

Fast Installation: 500+ panels per day in large-scale projects

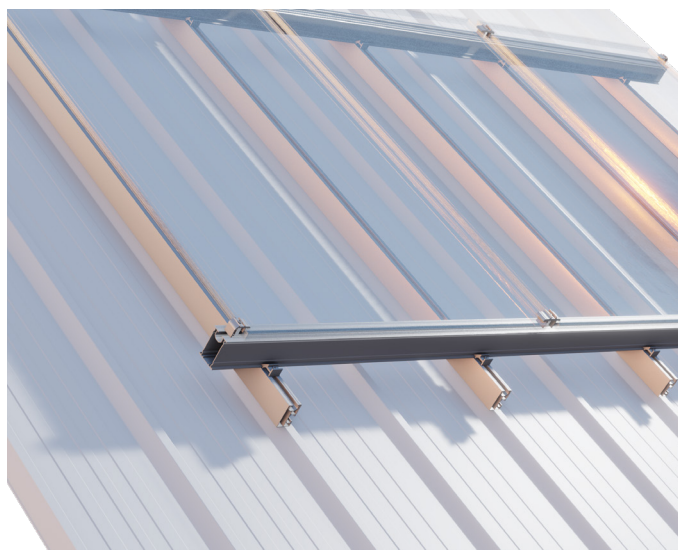
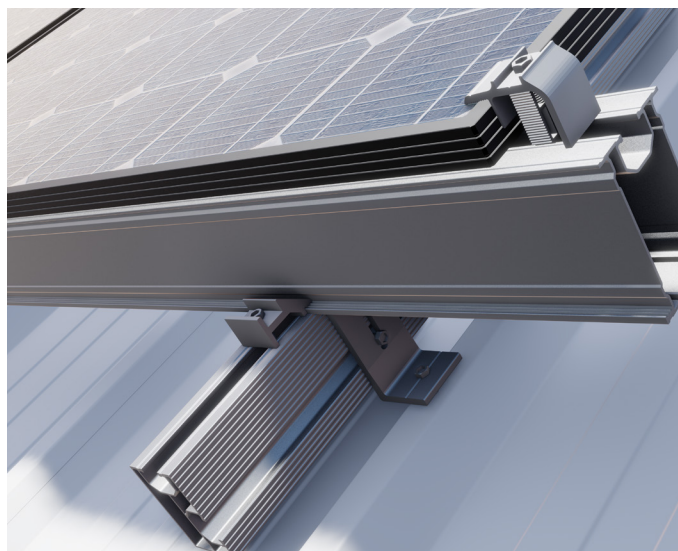
High Efficiency: Optimized panel angles thanks to flat surface (5°-15°)

Insulation Protection: Heat/water insulation does not deteriorate with special gaskets

Long Life: Corrosion resistant stainless fasteners

Technical Information

Model	: AlpDual-Screw
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



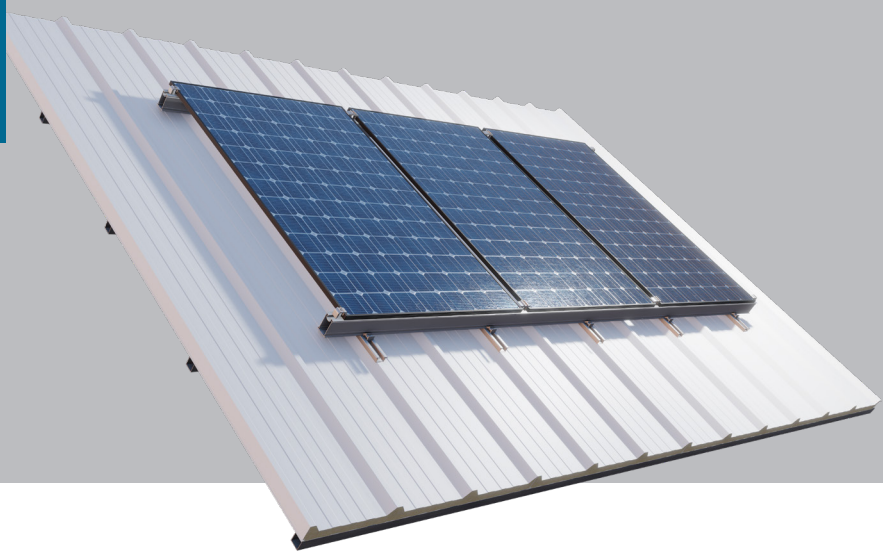
Affordable
Cost



High
Performance



Procurement
Support



Sandwich & Trapezoidal Roof

AlpDual-U

Sandwich and trapezoidal panel roofs are systems consisting of insulation material sandwiched between insulated metal surfaces and are widely used especially in industrial buildings.

The Advantage of Sandwich Panel Roof

Fast Installation: 500+ panels per day in large-scale projects

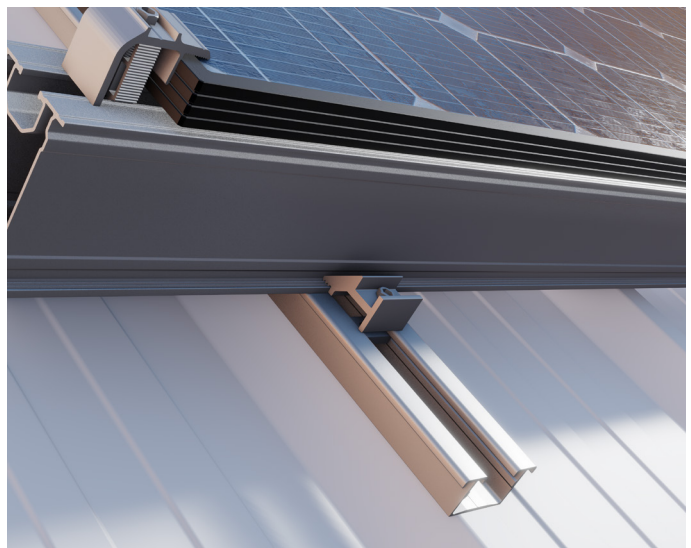
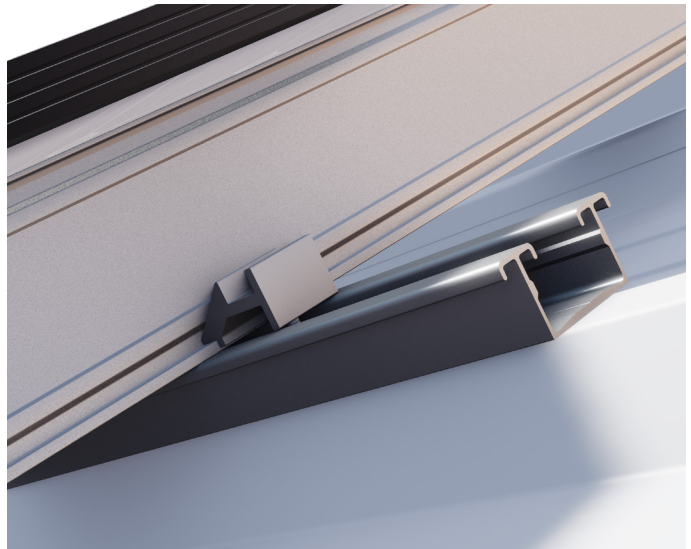
High Efficiency: Optimized panel angles thanks to flat surface (5°-15°)

Insulation Protection: Heat/water insulation does not deteriorate with special gaskets

Long Life: Corrosion resistant stainless fasteners

Technical Information

Model	: AlpDual-U
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Trapezoidal and Sandwich Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



Affordable
Cost



High
Performance



Procurement
Support



Tile Roof

Tile roofs can be made compatible with solar panels with special installation techniques. The system provides maximum energy efficiency while maintaining the physical integrity of the tiles.

The Advantage of Tile Roof

Architectural Protection: The traditional appearance of the roof is preserved

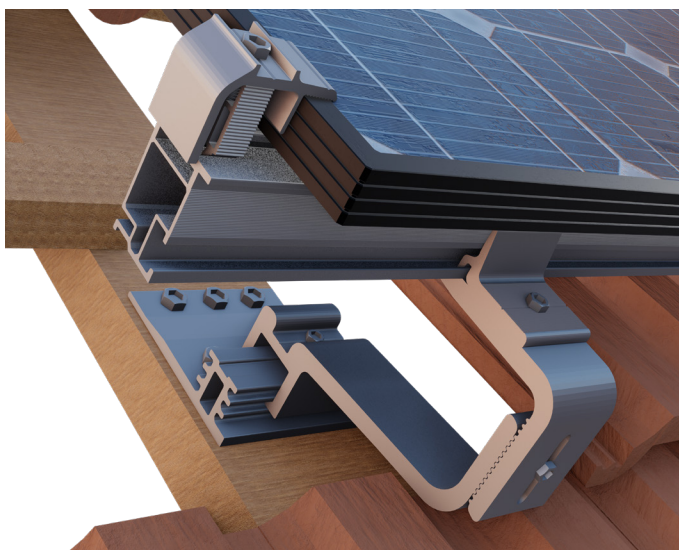
Waterproofing: Waterproofing is ensured by preserving the original tile arrangement

Flexible Installation: Suitable for roofs with slopes of 15°-40°

Long Lifetime: Corrosion-resistant aluminum/ aluminum composite material

Technical Information

Model	: AlpTile
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Tile Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



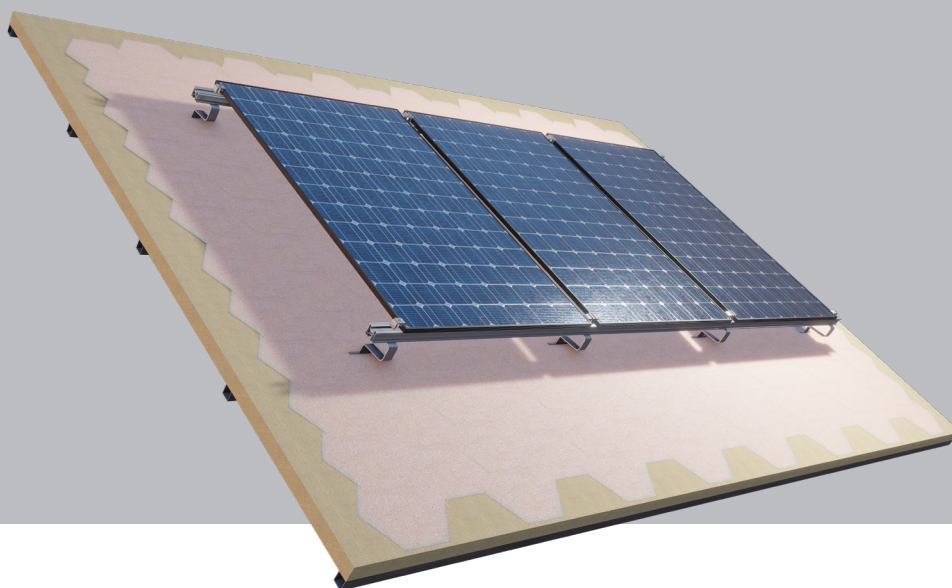
Affordable
Cost



High
Performance



Procurement
Support



Shingle Roof

Bituminous shingle roofing is a lightweight and flexible type of roofing that is widely used, especially in residential buildings. Thanks to systems specially developed for solar installation;

The Advantages of Shingle Roof

Lightweight Construction Compliance: Low weight systems for shingle roofs ($\leq 15 \text{ kg/m}^2$).

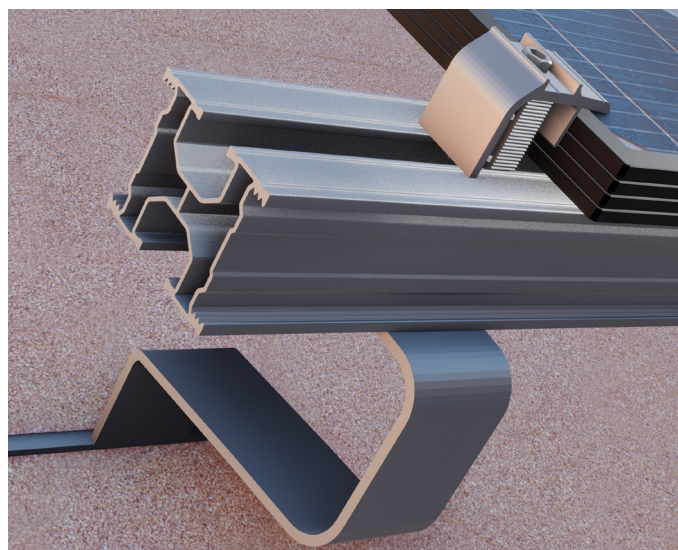
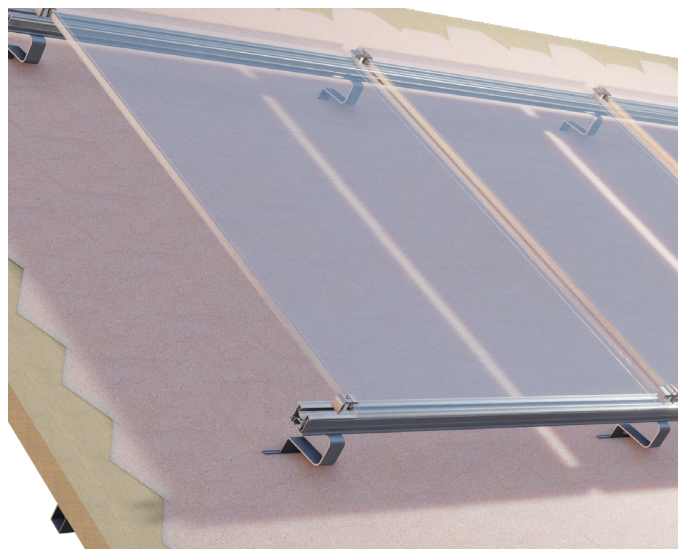
Fast Installation: 40% faster installation than conventional roofs.

Waterproofing: No risk of water leakage thanks to special gaskets and inclined design.

Aesthetic Solutions: Panel colors can be selected in harmony with shingle patterns.

Technical Information

Model	: AlpShingle
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Shingle Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



Affordable
Cost



High
Performance



Procurement
Support



Membrane Roof

Membrane roofs are roofing systems made of lightweight and durable materials such as PVC, PTFE or ETFE, used especially in modern architecture. They require special engineering solutions for solar integration.

The Advantage of Membrane Roof

Aesthetic Integration: Panels can be harmonized with the roof design

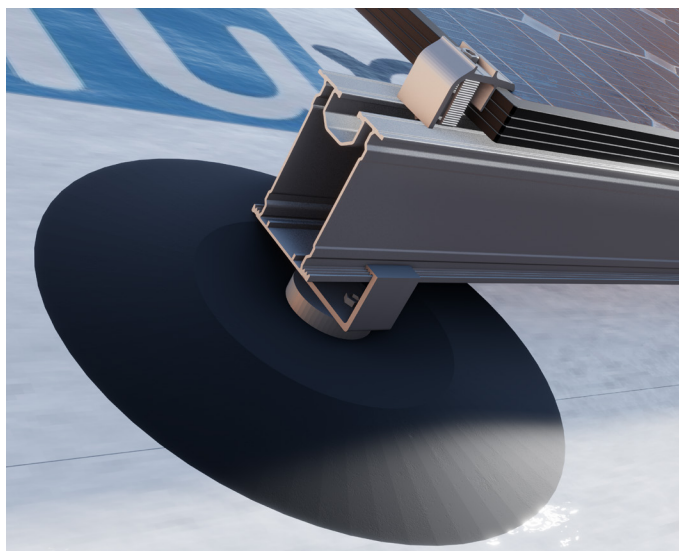
Lightweight Harmony: 80% lighter system compared to traditional roofs

Fast Installation: 300+ panels per day with special clip systems

Energy Efficiency: Natural lighting + energy production with semi-transparent membranes

Technical Information

Model	: AlpMembrane
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Tile Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



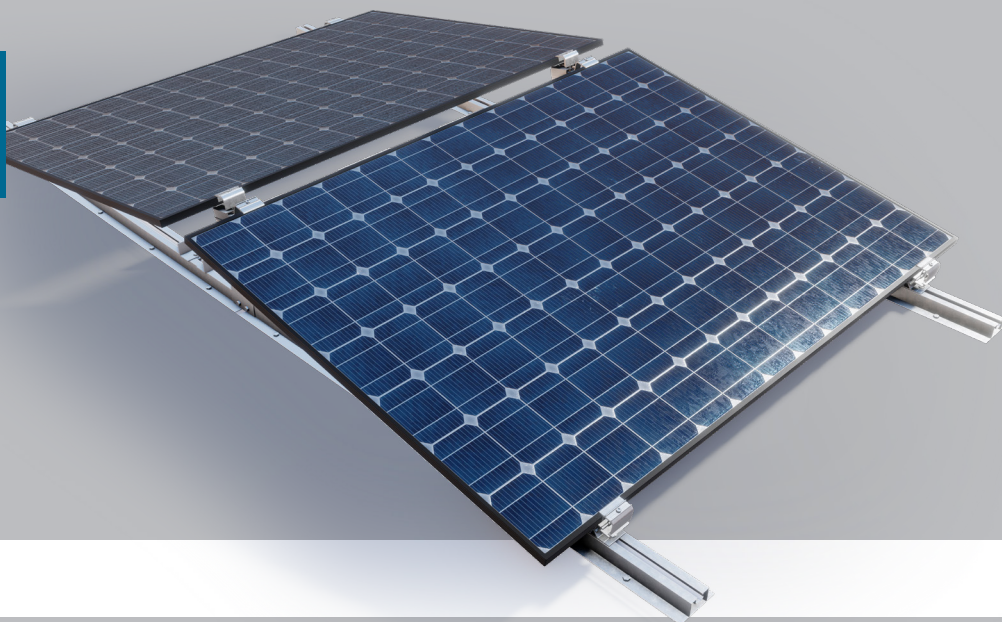
Affordable
Cost



High
Performance



Procurement
Support



Flat Roof

Rooftop solar systems are systems that generate electricity through photovoltaic (PV) panels mounted on the roofs of residential, factory, warehouse or commercial buildings.

Advantages of Rooftop SPP

Space Efficiency: Utilizes empty roof space.

Energy Savings: Reduces electricity bills by up to 90%.

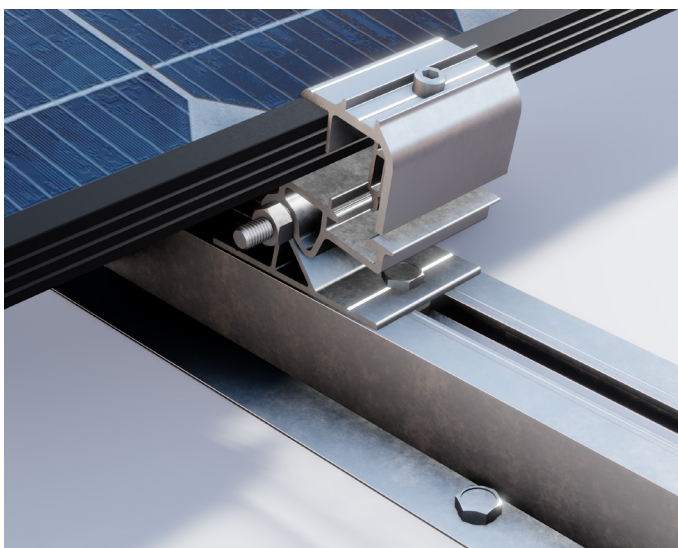
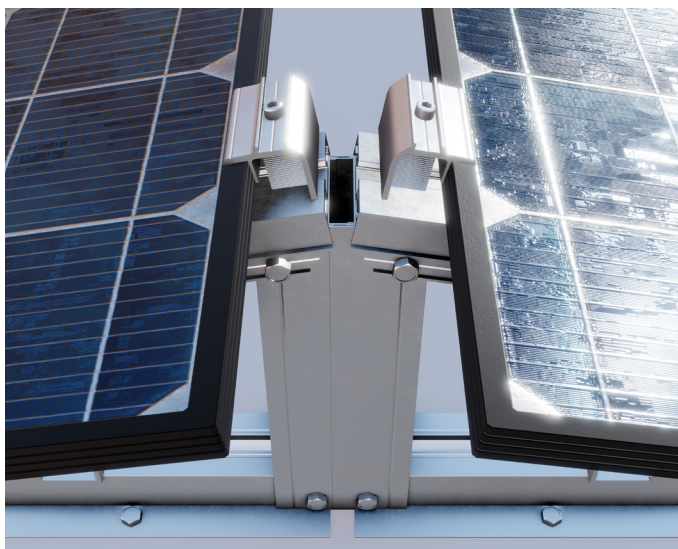
Energy Sale to the Grid: You can sell excess production to the electricity distribution company.

Ease of Installation: Design compatible with existing roof.

Long Lifetime: 15+ years of efficient use.

Technical Information

Model	: AlpEastWest
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Flat Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



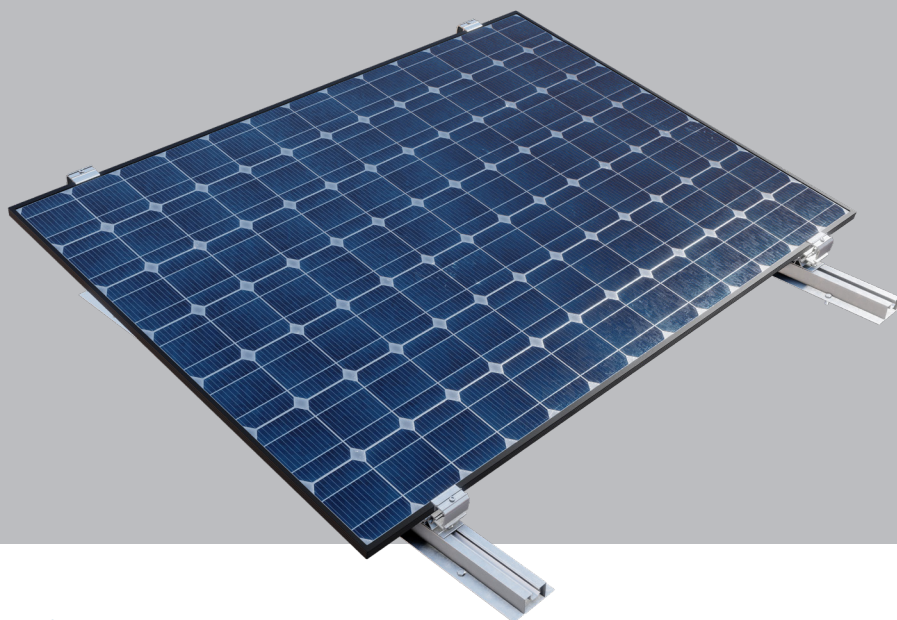
Affordable
Cost



High
Performance



Procurement
Support



Single Flat Roof

Rooftop solar systems are systems that generate electricity through photovoltaic (PV) panels mounted on the roofs of residential, factory, warehouse or commercial buildings.

Advantages of Rooftop SPP

Space Efficiency: Utilizes empty roof space.

Energy Savings: Reduces electricity bills by up to 90%.

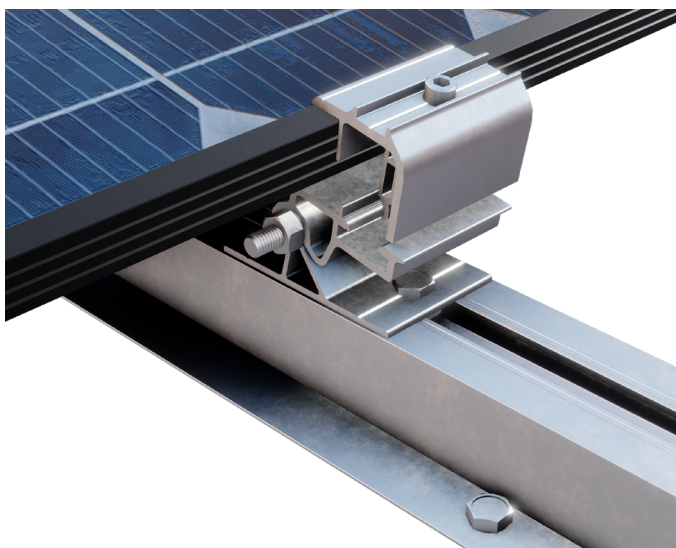
Energy Sale to the Grid: You can sell excess production to the electricity distribution company.

Ease of Installation: Design compatible with existing roof.

Long Lifetime: 15+ years of efficient use.

Technical Information

Model	: AlpSouth
Alloy	: EN AW 6063 Aluminum
Layout	: Vertical / Horizontal
Assembly	: Top Mount
Type	: Flat Roof
Length	: Changeable Size



Easy
Installation



10 Year
Warranty



Affordable
Cost



High
Performance



Procurement
Support



Turnkey SPP Solutions

Turnkey SPP projects aim to minimize the investor's burden and manage the project professionally from the first step to energy production. In these systems, every detail is meticulously planned and executed from a single source.

Product Procurement (Optimal Product Selection)

Products that offer high efficiency and long life and have quality certificates are selected specifically for the project.

Main equipment supplied:

Panel: The heart of energy production, selected according to performance criteria.

Inverter: Converts the generated direct current (DC) into alternating current (AC).

Construction: Durable carrier systems where the panels are placed.

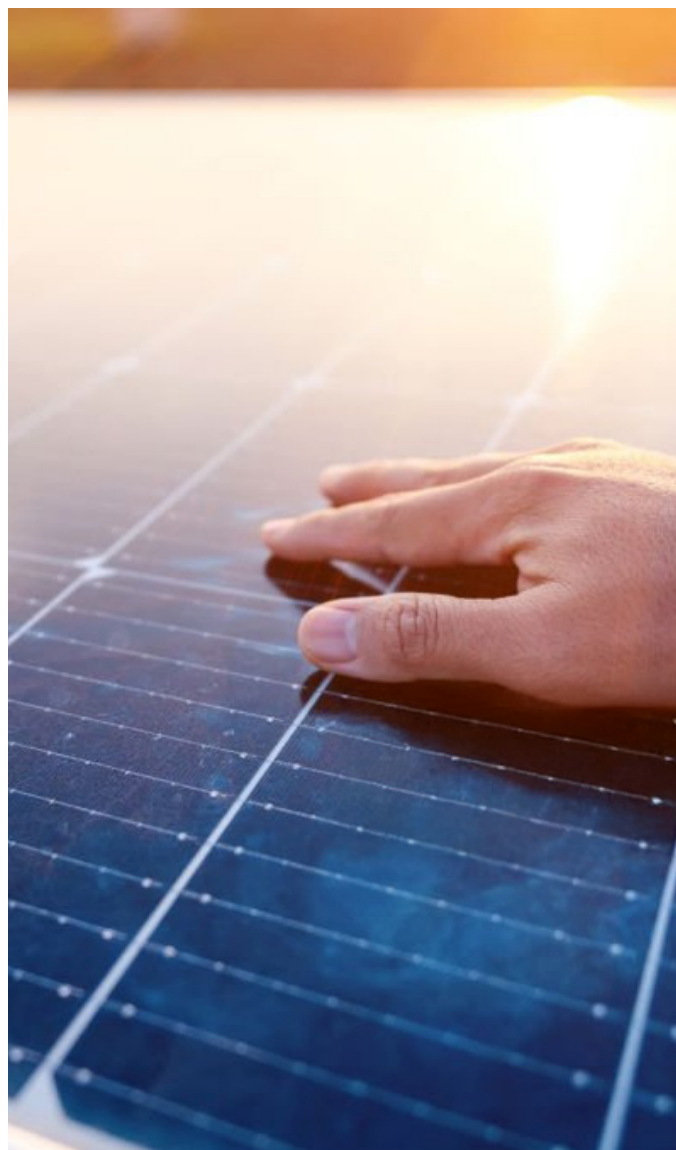
LV Panel: Provides low voltage energy distribution.

MV Switchgear: Used for medium voltage system connections.

Kiosk (Concrete Kiosk): An outdoor structure where electrical equipment is placed.

AC/DC Cable: High quality cables that provide energy transmission.

Consumables: It covers materials that are used regularly during system installation and operation and stand out with their durability and quality.



SPP Solutions from Installation to Commissioning



Management and Process Tracking

Investment and Process Management: Planning and follow-up of the project from the beginning to the end.

Production Simulations: Profitability analysis is provided with annual energy production forecasts.

Investment Feasibility: The suitability of the investment is evaluated through technical and financial analysis.

Project Design: Engineering projects are prepared according to national and international standards.

Detailed Exploration Projects: Implementation is started with the measurements and analyzes made on site.

Permit and Bureaucratic Process Management: All official procedures are carried out by expert teams.



Installation and Assembly

Project Application: Application is made in accordance with the technical conditions of the land.

Assembly Operations: Panels, inverters and infrastructure are installed by expert teams.

Testing and Commissioning: The system is tested and made operational with all its components.



Operation and Monitoring

Maintenance Operation: Periodic maintenance services ensure long-lasting and efficient operation of the system.

Production - Consumption Analysis: Performance evaluation is made by monitoring the energy produced.

Field and Operation Management: Monitoring of daily operations and instant intervention systems.



References

Projects

- ◆ Land Type SPP
- ◆ Roof Type SPP

Project : Germany Leipzig Land SPP

Location : Leipzig / Germany



Project
Informations



Project Power DC
653 MWp



Annual Energy Production
28.372.032 kWh



Annual Household
Consumption Provision
186.600



Annual CO2 Emissions
261.200.000 kg



Number of Equivalent Trees
11.610.000

Project : Altim Marketing + Aluminum Land SPP

Location : Afyon / Turkey



Project
Informations



Annual Household
Consumption Provision
547



Project Power DC
2 MWp



Annual Energy Production
1.640.760 kWh



Annual CO2 Emissions
1,016,943 kg



Number of Equivalent Trees
19.197

Project : Astor Bala Land SPP

Location : Ankara / Turkey



Project Informations



Project Power DC
17,7 MWp



Annual Energy Production
28.372.032 kWh



Annual Household
Consumption Provision
9.457



Annual CO2 Emissions
17.584.985 kg



Number of Equivalent Trees
331.953

Project : Sanliurfa Hilvan Land SPP

Location : Sanliurfa / Turkey



**Project
Informations**



Project Power DC
37,5 MWp



Annual Energy Production
52.500.000 kWh



Annual Household
Consumption Provision
12.353



Annual CO2 Emissions
23.625.000 Kg



Number of Equivalent Trees
1.530.000

Project : Nigde Bor Land SPP

Location : Nide / Turkey



Turnkey



Project Informations



Project Power DC
27,8 MWp



Annual Energy Production
38.920.000 kWh



Annual Household
Consumption Provision
9.158



Annual CO2 Emissions
17.514.000 kg



Number of Equivalent Trees
778.240

Project

:

Adiyaman Ozguclu Land SPP

Location

:

Adiyaman / Turkey



Project
Informations

Annual Household
Consumption Provision
4.612

Project Power DC
14 MWp

Annual Energy Production
19.600.000 kWh

Annual CO2 Emissions
8.820.000 kg

Number of Equivalent Trees
870.000

Project : Aksaray Armutlu 1 Land SPP

Location : Aksaray / Turkey



Project Informations



Project Power DC
24,5 MWp



Annual Energy Production
34.300.000 kWh



Annual Household
Consumption Provision
8.000



Annual CO2 Emissions
15.435.000 kg



Number of Equivalent Trees
1.530.000

Project : Altim Marketing Rooftop SPP
Location : Ankara / Turkey
Capacity : 0,57 MWp
Type : Turnkey



Project : Aksaray Armutlu 2 Land SPP
Location : Aksaray / Turkey
Capacity : 8,16 MWp
Type : Equipment Supply

Project : Eskisehir KM Land SPP
Location : Eskisehir / Turkey
Capacity : 7,9 MWP
Type : Turnkey



Project : Altim Aluminum Roof SPP
Location : Ankara / Turkey
Capacity : 0,59 MWP
Type : Turnkey

Project : Tepe Home Roof SPP
Location : Ankara / Turkey
Capacity : 2,85 MWp
Type : Turnkey



Project : Eskisehir Elcik Land SPP
Location : Eskisehir / Turkey
Capacity : 7,42 MWp
Type : Turnkey

Project : Sahinler Metal Roof SPP
Location : Ankara / Turkey
Capacity : 2,19 MWp
Type : Turnkey



Project : Konya Seydişehir Land SPP
Location : Konya / Turkey
Capacity : 11,4 MWP
Type : Equipment Supply

Project : ODTU Roof SPP
Location : Ankara / Turkey
Capacity : 0,98 MWp
Type : Turnkey



Project : Mersin Bozagac Land SPP
Location : Mersin / Turkey
Capacity : 5,24 MWP
Type : Equipment Supply

Project : Yetsan Roof SPP
Location : Ankara / Turkey
Capacity : 1 MWP
Type : Turnkey



Project : Konya Gitas Land SPP
Location : Konya / Turkey
Capacity : 11,89 MWp
Type : Equipment Supply

Project : Nurdil Phase-1-2 Rooftop SPP
Location : Ankara / Turkey
Capacity : 2,14 MWp
Type : Turnkey



Project : Konya Çumra Land SPP
Location : Konya / Turkey
Capacity : 4,1 MWp
Type : Equipment Supply

Project : Park Kent Furniture Roof SPP
Location : Ankara / Turkey
Capacity : 1,61 MWp
Type : Turnkey



Project : MPS Metal Facade SPP
Location : Kocaeli / Turkey
Capacity : 0,43 MWp
Type : Turnkey

- 📍 **Altım 1 Factory**
ASO 1. Organize Sanayi Bölgesi
Ahi Ervan Mah. Anadolu Cad. No:3
Sincan / Ankara / Turkey
- 📍 **Altım 2 Factory**
ASO 1. Organize Sanayi Bölgesi
Ahi Ervan Mah. Anadolu Cad. No:21
Sincan / Ankara / Turkey
- 📍 **Altım 3 Factory**
OSB Ahi Ervan Mah.
Altınordu Cad. No:6
Sincan / Ankara / Turkey
- 📍 **Altım 4 Factory**
OSB Ahi Ervan Mah.
Dağistan Cad. No:6 (Hasmak Alt Kat)
Sincan / Ankara / Turkey
- 📍 **Altım 5 Factory**
OSB Mah. Zeytindalı Bulvarı
İç Kapı No:13
Parsel / Aksaray / Turkey
- 📍 **New Jersey Warehouse**
183 Monroe Street Passaic
07055 New Jersey / USA
+1 862 379 7443
- 📍 **DE Warehouse**
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