

alusín solar

2025 Catalogue 

PRESENTATION

At Alusín Solar we are specialists in the design, manufacture and installation of structure systems for photovoltaic solar panels.

Since 2020, we have also been developing technical **safety walkways** to walk about building roof walkways.



Since 2010 we have been involved in the supply of structures for more than **950 megawatts in 32 countries**.



We advise you on the **choice of the solar structure** which best suits your project.



ECO 100% **recyclable materials** with CE marking.



We are ISO **9001, 14001 and 45001** certified.



Having over **5000 m² of factory** facilities in Avilés, Asturias. Industrial heartland of Spain



“ Since 2010 helping to hold the sun ”

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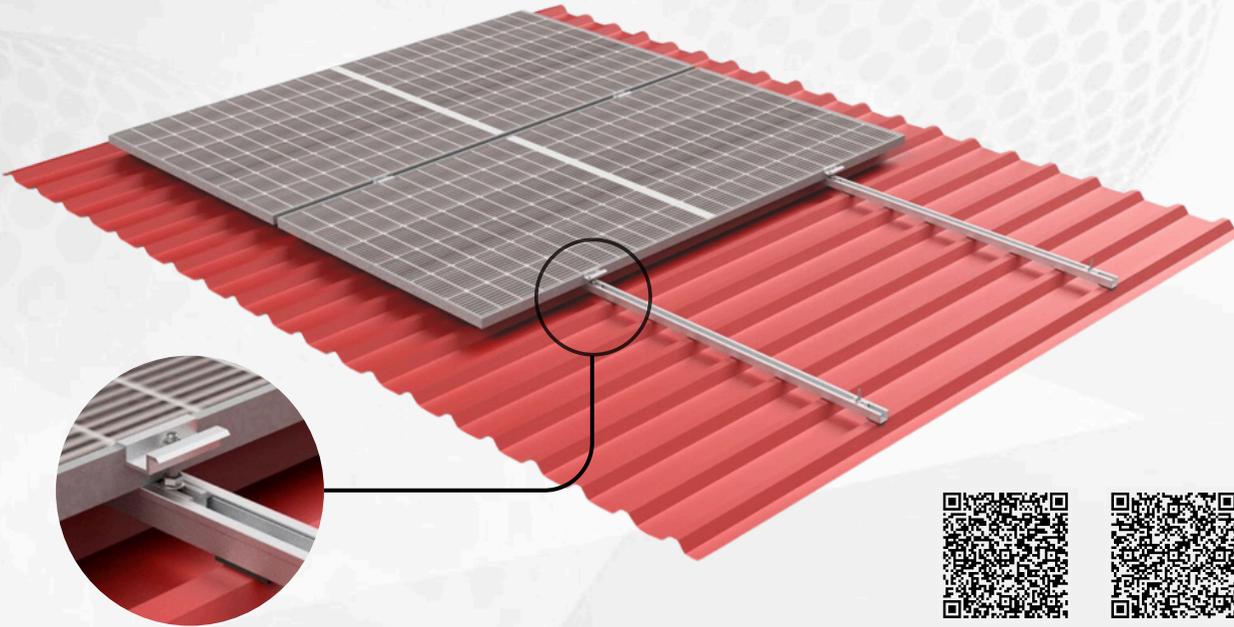


Structures for industrial roof structures

01

GULPIYURI 30 SYSTEM – BARS

This sectional structure system has been specially designed for the assembly of solar panels in a coplanar manner on sheet metal roofs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Structure system valid for installation on sheet metal roofs.
- Variable length bars for installation on ribbed sheet metal (horizontal panel) and from ribbed sheet metal to ribbed sheet metal (vertical panel).
- 30mm panel elevation.
- Configurable for all types of panels.
- Option of fastening the structures directly to sheet metal or to purlins.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW Standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Guaranteed watertightness through a double EPDM gasket system.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The name Gulpiyuri is taken from a breathtaking beach declared a natural monument. It is located between Ribadesella and Llanes, Asturias.

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Avilés Madrid Lisbon Bogotá



CE Marking



ISO 9001, 14001 and 45001 certifications



Up to 25-year material warranty



100% recyclable materials



Rapid on-site response



Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

G30 BAR



INTERMEDIATE CLAMP



END CLAMP



EDPM

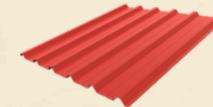


FASTENING

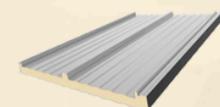


COMPATIBLE ROOF TYPES

RIBBED SHEET METAL

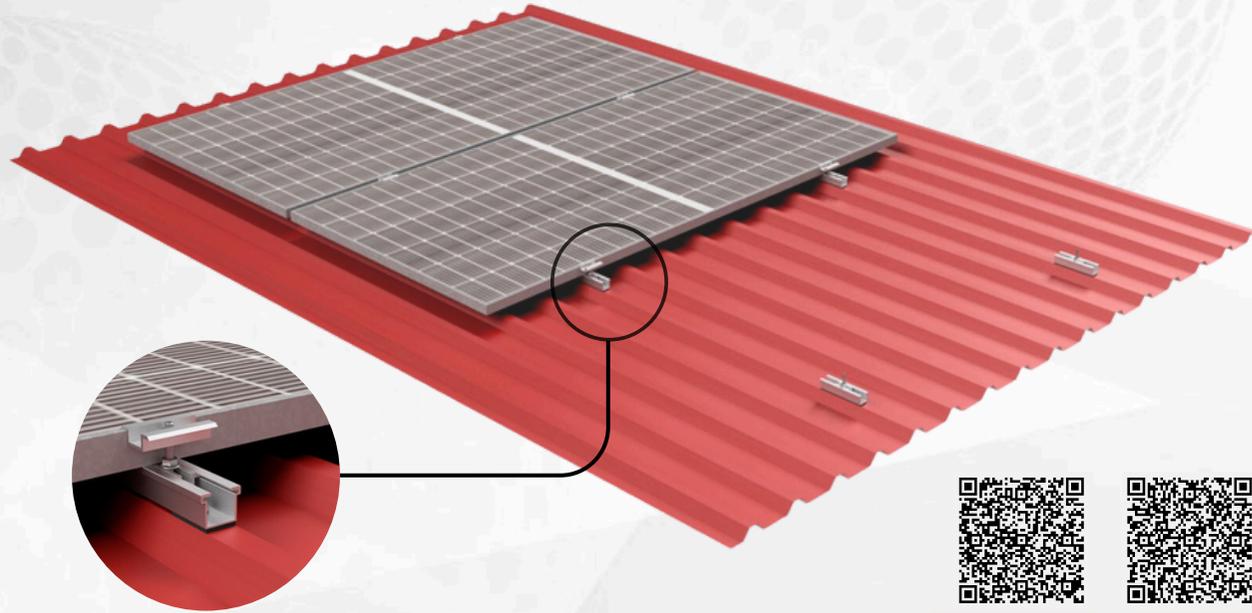


SANDWICH PANEL



GULPIYURI 30 SYSTEM – SECTIONS

This sectional structure system has been specially designed for the assembly of solar panels in a coplanar manner on sheet metal roofs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Structure system valid for installation on sheet metal roofs.
- 150mm. long sections for installation on ribbed sheet metal (horizontal panel), with the option of customising the section length for the ribbed sheet metal to ribbed sheet metal (vertical panel) assembly.
- 30mm panel elevation.
- Configurable for all types of panels.
- Fastening of the structures directly to the sheet metal.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW Standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Guaranteed watertightness through a double EPDM gasket system.
- Option of grounding accessories and anti-theft nuts.



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National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h

Configurable up to 250 km/h



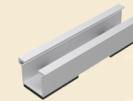
SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

G30 SECTION



INTERMEDIATE CLAMP



END CLAMP

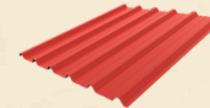


FASTENING

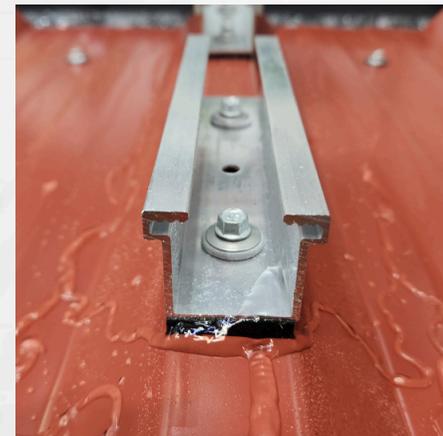
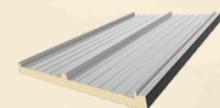


COMPATIBLE ROOF TYPES

RIBBED SHEET METAL

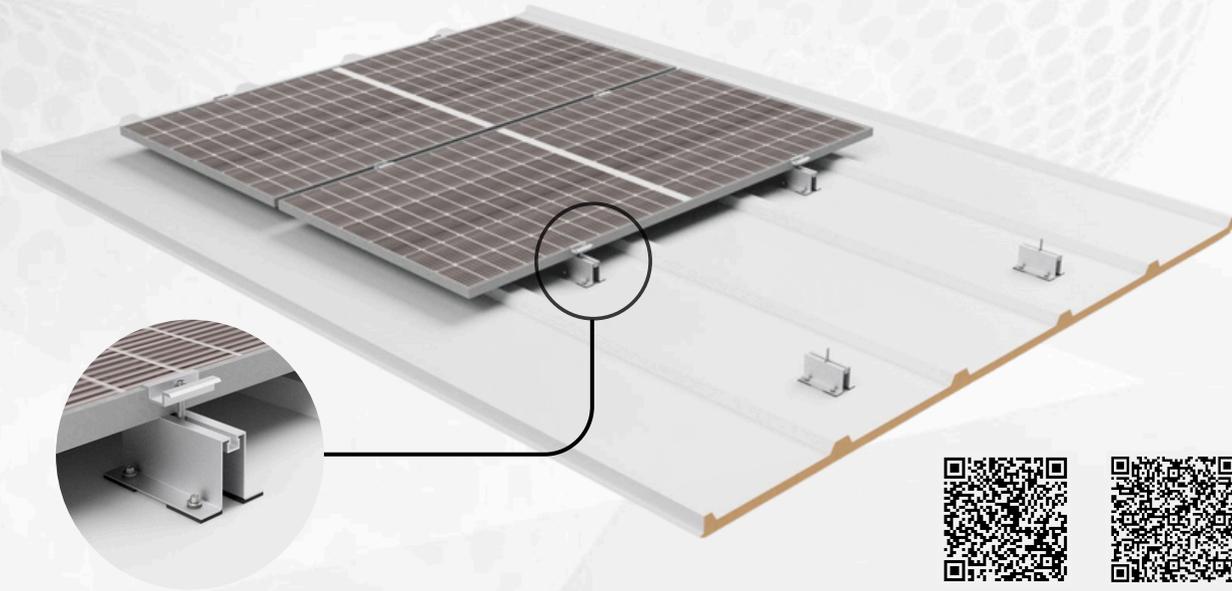


SANDWICH PANEL



GULPIYURI 75 SYSTEM- SECTIONS

This structure system is designed to install solar panels on sandwich sheet metal roofs, anchoring the section to the valley of the sheet, between the ribs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Structure system valid for installation on sandwich panel roofs.
- 150mm. long sections for installation on the valley of the sandwich panel and solar module in horizontal position.
- 75mm panel elevation.
- Configurable for all types of panels.
- Fastening of the structures directly to the sheet metal.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW Standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Guaranteed watertightness through a double EPDM gasket system.
- Option of grounding accessories and anti-theft nuts.



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CE Marking



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100% recyclable materials



Rapid on-site response



Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

G75 SECTION



INTERMEDIATE CLAMP



END CLAMP



FASTENING



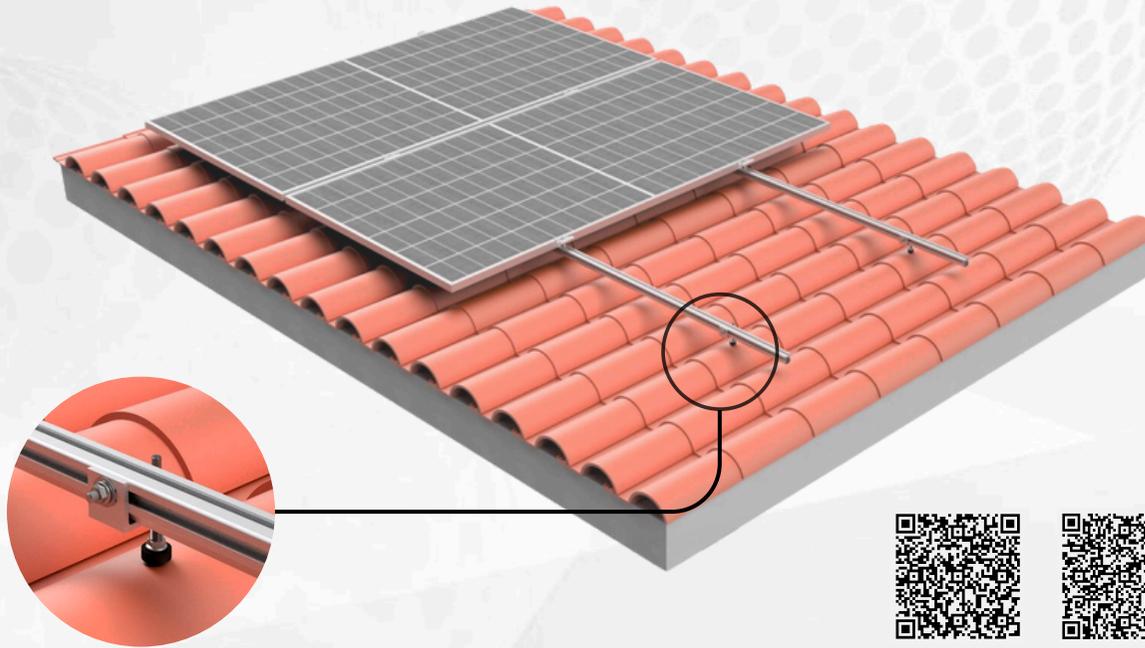


Residential roof structures

02

LAGOS TILE TROUGH SYSTEM

Structure system designed for residential rooftops.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Roof fastening suitable for all types of roof tiles.
- Structures adapted to market requirements and designed to installer requirements, highlighting the ease and convenience of assembly.
- Solar panel fastening clamps configurable for frame thicknesses from 30 to 40mm.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The Covadonga Lakes (and small Enola and Ercina lakes), of glacial origin, are located in the Asturian part of the Picos de Europa National Park.

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CALCULATED CLIMATE LOADS



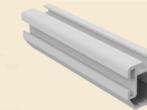
WIND
for 140 km/h



SNOW
for 40 kg/m²

SYSTEM COMPONENTS

V8 PROFILE



INTERMEDIATE CLAMP



END CLAMP



FASTENING



SEALANT



COMPATIBLE ROOF TILE TYPES

ARABIC ROOF TILE



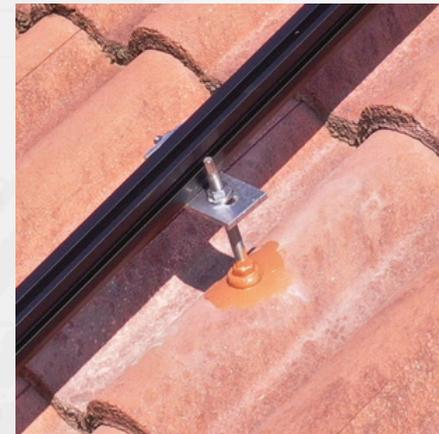
MIXED ROOF TILE



FLAT ROOF TILE

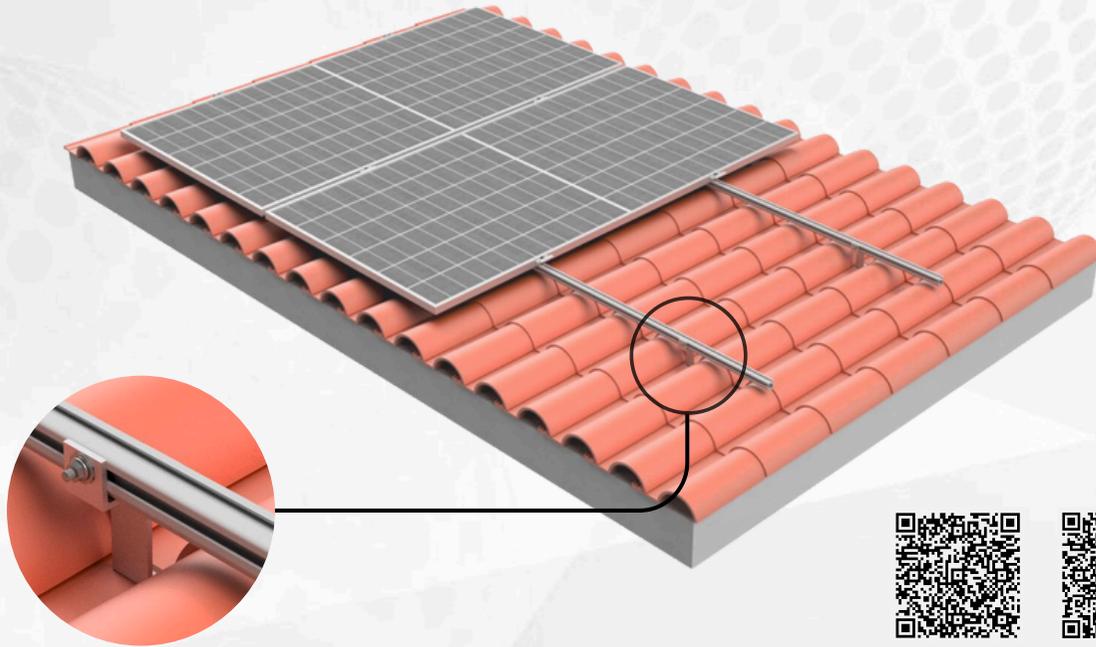


SLATE ROOF TILE



FLAT LAGOS ROOF SAVER SYSTEM

Structure system designed for residential rooftops.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Roof fastening suitable for flat and mixed tiles.
- Structures adapted to market requirements and designed to installer requirements, highlighting the ease and convenience of assembly.
- Solar panel fastening clamps configurable for frame thicknesses from 30 to 40mm.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



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CALCULATED CLIMATE LOADS



WIND
for 140 km/h



SNOW
for 40 kg/m²

SYSTEM COMPONENTS

V8 PROFILE



INTERMEDIATE CLAMP



END CLAMP



FASTENING



SEALANT

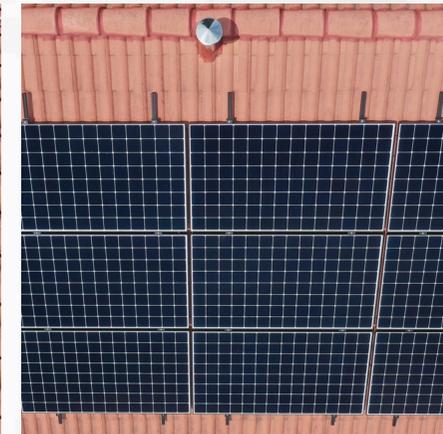


COMPATIBLE ROOF TILE TYPES

MIXED ROOF TILE

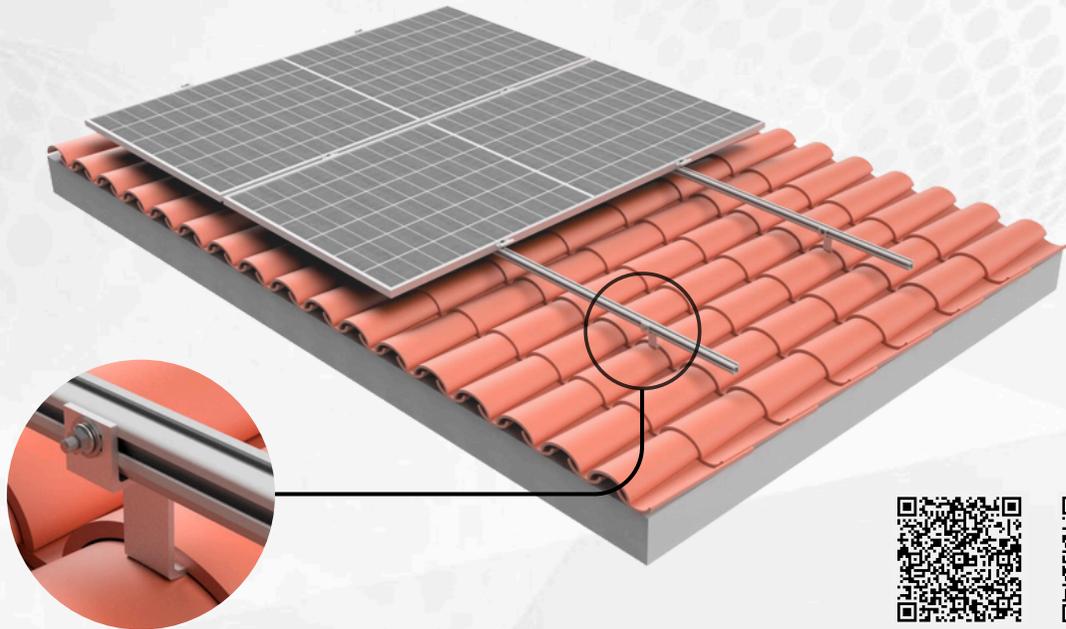


FLAT ROOF TILE



ARABIC LAGOS ROOF SAVER SYSTEM

Structure system designed for residential rooftops.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Roof fastening suitable for Arabic and mixed tiles.
- Structures adapted to market requirements and designed to installer requirements, highlighting the ease and convenience of assembly.
- Solar panel fastening clamps configurable for frame thicknesses from 30 to 40mm.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



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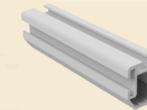
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- ✓ Up to 25-year material warranty
- ✓ 100% recyclable materials
- ✓ Rapid on-site response
- ✓ Convenient installation
- ✓ Watertightness warranty
- ✓ National manufacture

CALCULATED CLIMATE LOADS



SYSTEM COMPONENTS

V8 PROFILE



INTERMEDIATE CLAMP



END CLAMP



FASTENING



SEALANT



COMPATIBLE ROOF TILE TYPES

ARABIC ROOF TILE



MIXED ROOF TILE



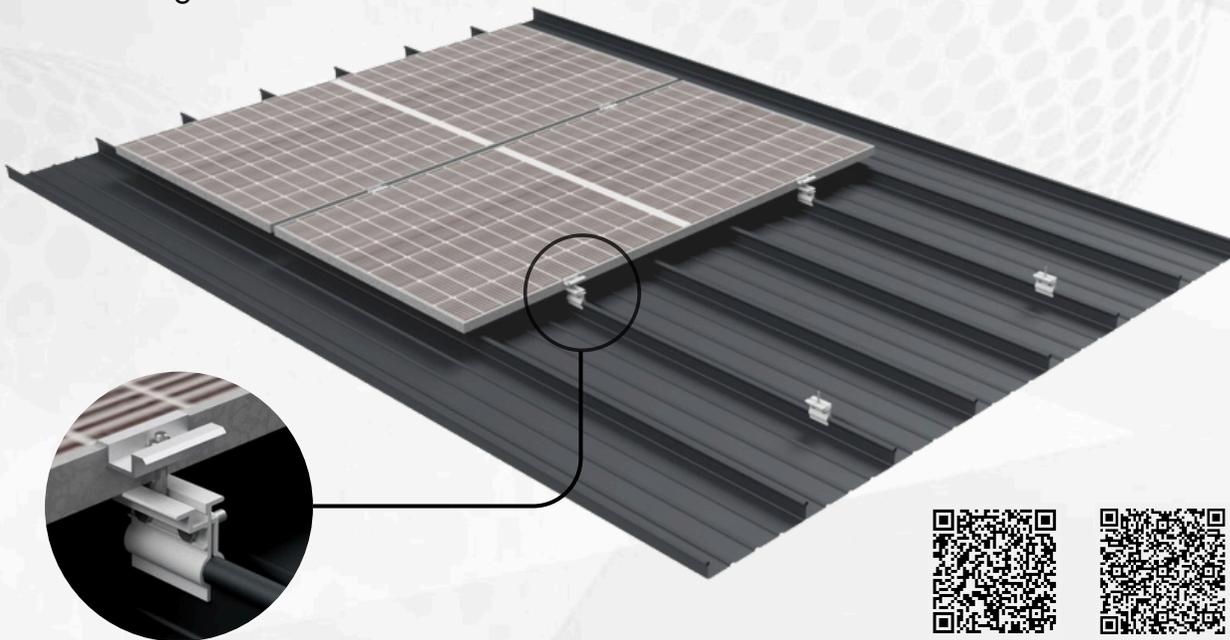


**Structures
for other roof
types**

03

UROGALLO CLAMP

Special aluminium fasteners for standing seam sheet metal roofs, seam roofs or standing seam roofs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Structure system valid for installation on zinc, standing seam sheet metal or standing seam roofs.
- 70mm. long clamps to ensure a correct fastening to the roof.
- Horizontal solar panel installation. Option of installing strap profiles over the clamps for vertical panel installation assembly.
- 50mm panel elevation.
- Configurable for all types of panels.
- Fastening of the structures directly to the sheet metal.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW Standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The capercaillie is a species of galliform bird native to the forests of the Siberian taiga. In Spain the species lives in the Pyrenees, Asturias and Galicia.

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CE Marking



ISO 9001, 14001 and 45001 certifications



Up to 25-year material warranty



100% recyclable materials



Rapid on-site response



Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

STANDARD UROGALLO

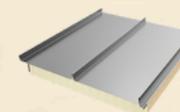


UROGALLO P

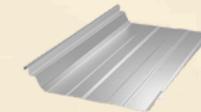


COMPATIBLE ROOF TYPES

ZINC PANEL



STANDING SEAM SHEET



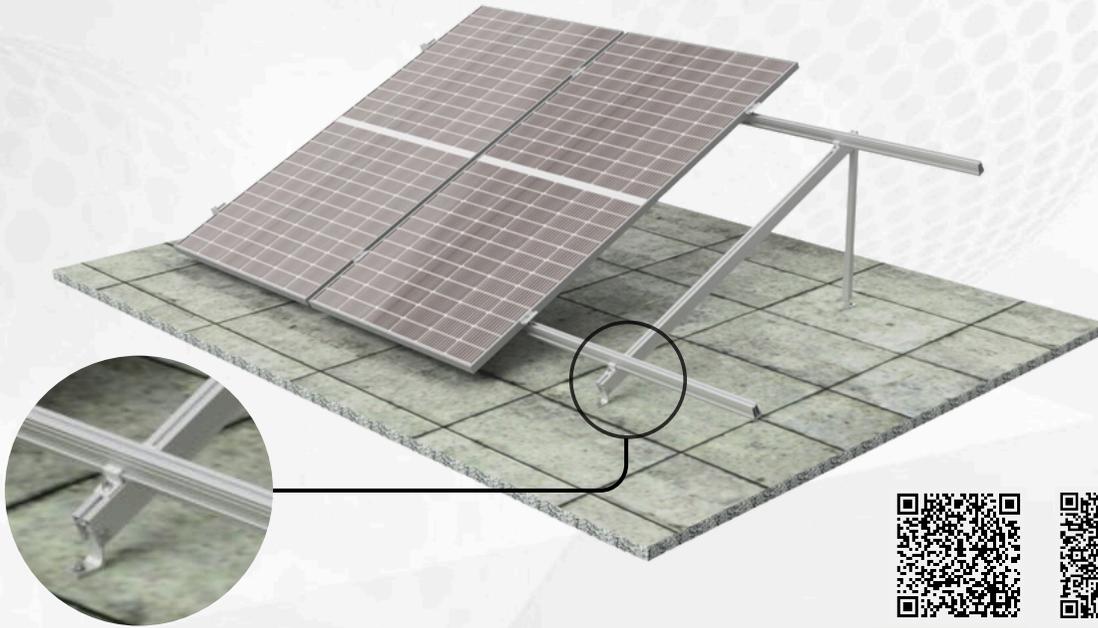


**Angled
structures**

04

BULNES FIT SYSTEM

Structure system designed for angled photovoltaic panel installations by means of an open frame.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Suitable for installations on concrete slabs, metal purlins or various substructures.
- Possibility of vertical and horizontal panel configuration.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards. A2 stainless steel screws.
- Option of A4 screws depending on the aggressiveness of the environment.
- Guaranteed watertightness through a double EPDM gasket system.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The Naranjo de Bulnes, also known as Picu Urriellu, is located in the Central Massif of the Picos de Europa in Asturias.

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Rapid on-site response



Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

BULNES FIT FRAME

V5 PROFILE

INTERMEDIATE CLAMP

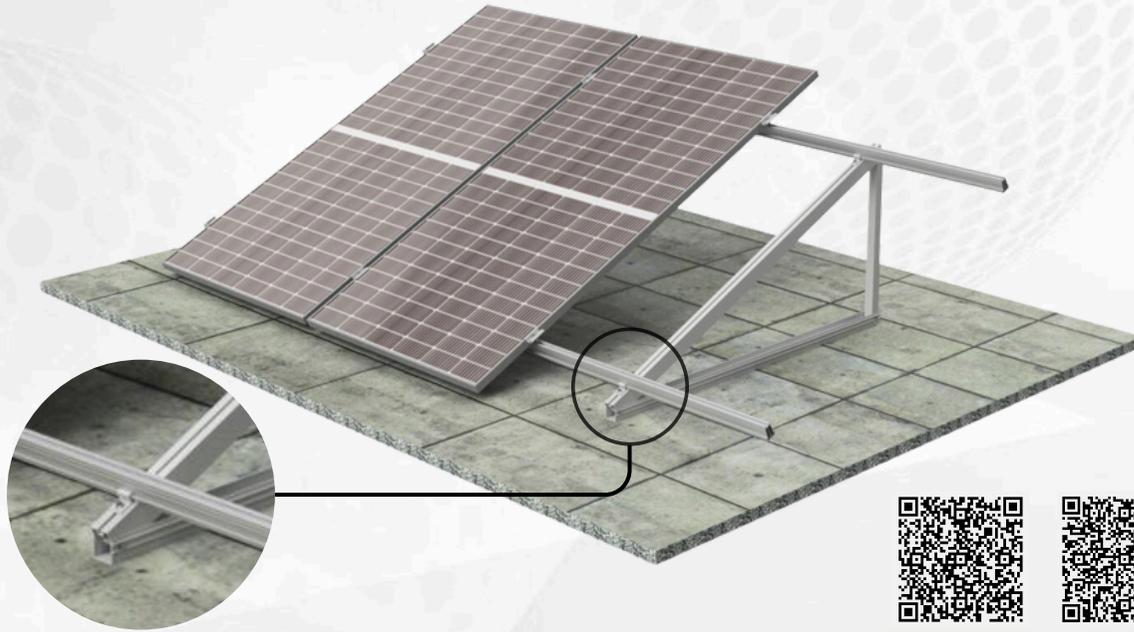
END CLAMP

BRACING



BULNES SYSTEM

Structural system designed for photovoltaic panel installations for angled photovoltaic panel installation using/by means of a closed frame.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Suitable for installation on concrete slabs, metal purlins or various substructures.
- Possibility of vertical and horizontal panel configuration.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Guaranteed watertightness through a double EPDM gasket system.
- Option of grounding accessories and anti-theft nuts.



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WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

BULNES FRAME

V5 PROFILE

INTERMEDIATE CLAMP

END CLAMP

BRACING



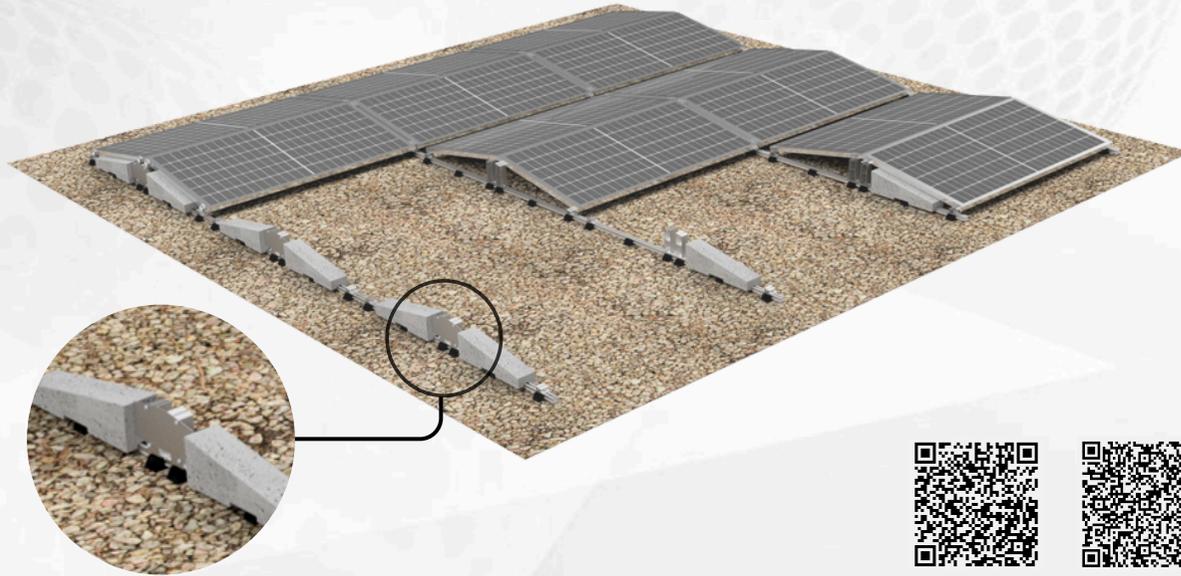


**Ballasted
structures**

05

EAST-WEST PICOS SYSTEM

Ballasted structure system designed for flat roofs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Suitable for DECK, PVC or asphalt fabric type roofs.
- Wind tunnel validated structure system.
- Suitable configuration for horizontal panel at 10° with E-W orientation.
- Supply of pre-assembled profiles and frames.
- Ballasts included in the system.
- Supports on rubber to avoid direct contact of the structure and ballasts with the roof itself, preventing all types of damage.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The Picos de Europa are an extraordinary mountain range located in northern Spain. It is the second most visited national park in Spain.

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Watertightness warranty



National manufacture

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WIND

Up to 144 km/h

Configurable up to 250 km/h



SNOW

Up to 1 kN/m²

Configurable up to 2 kN/m²

SYSTEM COMPONENTS

INTERMEDIATE CLAMP

END CLAMP

BALLAST

SUPPORT

COVER



FRAME



SOUTH PICOS SYSTEM

Ballasted structure system designed for flat roofs.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Suitable for DECK, PVC or asphalt fabric type roofs.
- Wind tunnel validated structure system.
- Suitable configuration for 1 horizontal panel at 10° with south orientation.
- Unique ballasted system on the market with south facing orientation with 6 fastening points on the solar panel.
- Supply of pre-assembled profiles and frames.
- Ballasts included in the system.
- Supports on rubber to avoid direct contact of the structure and ballasts with the roof itself, preventing all types of damage.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



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CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h
Configurable up to 250 km/h



SNOW

Up to 1 kN/m²
Configurable up to 2 kN/m²

SYSTEM COMPONENTS

INTERMEDIATE CLAMP

END CLAMP

BALLAST

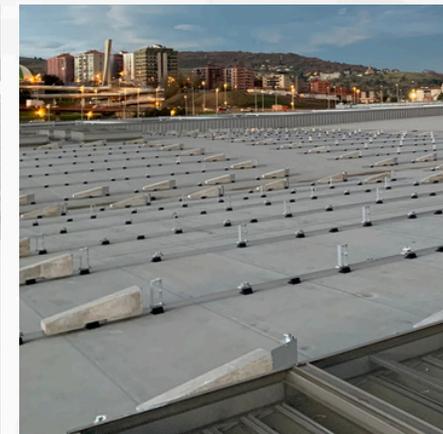
SUPPORT

PLATE

DEFLECTOR



FRAME





**Floor
structures**

06

ALUBLOCK SYSTEM

Structure system designed for ground-mounted solar installations by ballasted panels with a 10° inclination angle.



BLUEPRINT TYPE

NEW

TECHNICAL SPECIFICATIONS

- Superior stability structure system which enables the installation of solar panels with a 10° inclination angle without risk of overturning due to their weight and low centre of gravity.
- Vertical installation of the solar panel, fastening the panel on the long side, preventing its buckling.
- Straightforward assembly due to the reduced number of structural components.
- Ergonomic design of the concrete ballasts which facilitates their distribution both by forklift as well as manually.
- Wind resistance certification.
- Clamps and accessories manufactured in aluminium as per EN AW Standards.
- A2 stainless steel screws.
- Option of A4 screws depending on the aggressiveness of the environment. Option of grounding accessories and anti-theft nuts.



Did you know that?

The Alublock system is registered and patented by Alusín Solar in June 2023, highlighting its exclusive design and operation.

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Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 144 km/h



SNOW

Up to 2 kN/m²

SYSTEM COMPONENTS

BLOCK



INTERMEDIATE CLAMP



END CLAMP



MUNIELLOS SYSTEM

This structure system is designed for solar farms. Designed for ground-mounted solar installations.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Custom design for all types of structure and panel angles.
- Bipole system, much more sturdier than monopole systems.
- Piling depth at 1500mm for back piling and 1250mm for front piling. Configurable for fastening to footings.
- 3 mm thick front and back piles, manufactured in a single piece, in hot-dipped galvanised steel or with Zinc-Magnesium coating, subject to availability.
- Lintel, purlins and 1.5 mm thick bolts manufactured from Zinc-Magnesium coated steel.
- Including braces. This bracing confers great structural strength to the assembly.
- The solar panels are fastened using extruded aluminium clamps, therefore avoiding the use of holes in the thin frames of the solar panels.
- A2 stainless steel panel fastening screws. Option of A4 screws depending on the aggressiveness of the environment.



Did you know that?

Muniellos is a strict nature reserve located in the southwest of the Principality of Asturias. It is located between the municipalities of Cangas del Narcea and Ibias.

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- ✓ Watertightness warranty
- ✓ National manufacture

CALCULATED CLIMATE LOADS



WIND
Up to 240 km/h



SNOW
Up to 2 kN/m²

SYSTEM COMPONENTS

FRAME



PURLIN



INTERMEDIATE CLAMP



END CLAMP



EAST-WEST MUNIELLOS SYSTEM

This structure system is designed for solar farms. Designed for ground-mounted solar installations.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Custom design for all types of structure and panel angles.
- Bipole system, much more sturdier than monopole systems.
- Piling depth at 1500mm for back piling and 1250mm for front piling. Configurable for fastening to footings.
- 3 mm thick front and back piles, manufactured in a single piece, in hot-dipped galvanised steel or with Zinc-Magnesium coating, depending on availability.
- Lintel, purlins and 1.5 mm thick bolts manufactured from Zinc-Magnesium coated steel.
- Including braces. This bracing confers great structural strength to the assembly.
- The solar panels are fastened using extruded aluminium clamps, therefore avoiding the use of holes in the thin frames of the solar panels.
- A2 stainless steel panel fastening screws. Option of A4 screws depending on the aggressiveness of the environment.



Did you know that?

Muniellos is a strict nature reserve located in the southwest of the Principality of Asturias. It is located between the municipalities of Cangas del Narcea and Ibias.

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CE Marking



ISO 9001, 14001 and 45001 certifications



Up to 25-year material warranty



100% recyclable materials



Rapid on-site response



Convenient installation



Watertightness warranty



National manufacture

CALCULATED CLIMATE LOADS



WIND

Up to 240 km/h



SNOW

Up to 2 kN/m²

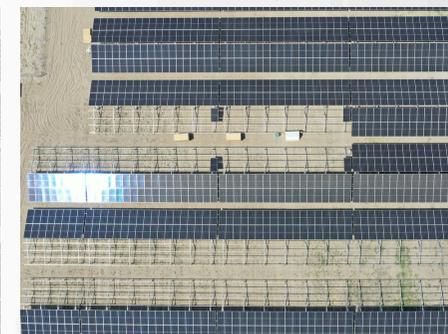
COMPONENTES DO SISTEMA

FRAME

PURLIN

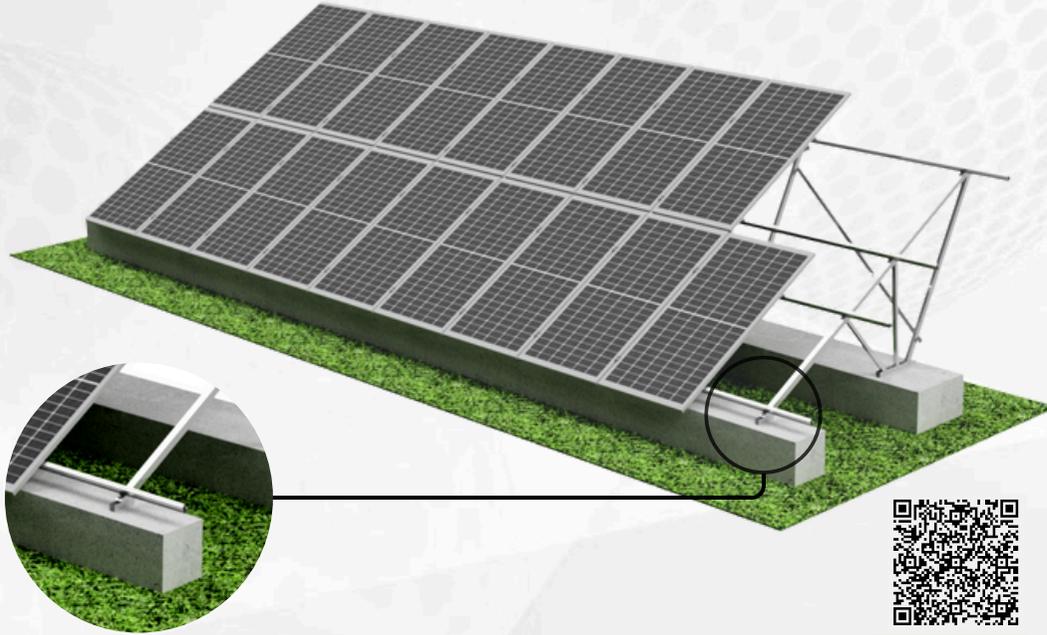
INTERMEDIATE CLAMP

END CLAMP



CANTABRICO SYSTEM

Structure system designed based on our Bulnes system for ground installations on footings.



BLUEPRINT TYPE



WARRANTY

TECHNICAL SPECIFICATIONS

- Solution for small solar installations in open fields.
- Highly versatile and suitable for multiple configurations.
- The frames are supplied pre-assembled.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- Screws for fastening panels in A2 stainless steel. Option of A4 screws depending on the aggressiveness of the environment.
- Option of grounding accessories and anti-theft nuts.



Did you know that?

The Cantabrico Sea washes the northern coast of Spain and the extreme southwest/southwestern tip of the Atlantic coast of France. It stretches from the Punta da Estaca de Bares point to the Adur River.

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Up to 2 kN/m²

SYSTEM COMPONENTS

V5 PROFILE



INTERMEDIATE CLAMP



END CLAMP



BRACING



FRAME OPTIONS

OPTION A



OPTION B

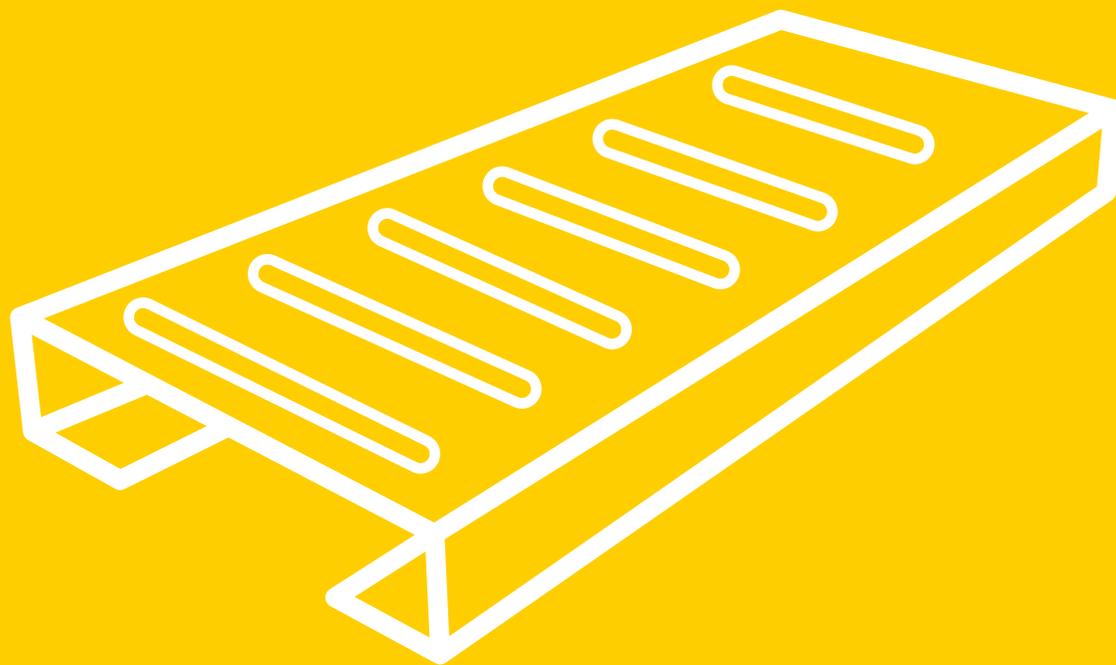


OPTION C



OPTION D





CAREX[®]

**Technical
Safety Walkways**

07



CAREX

TECHNICAL WALKWAY

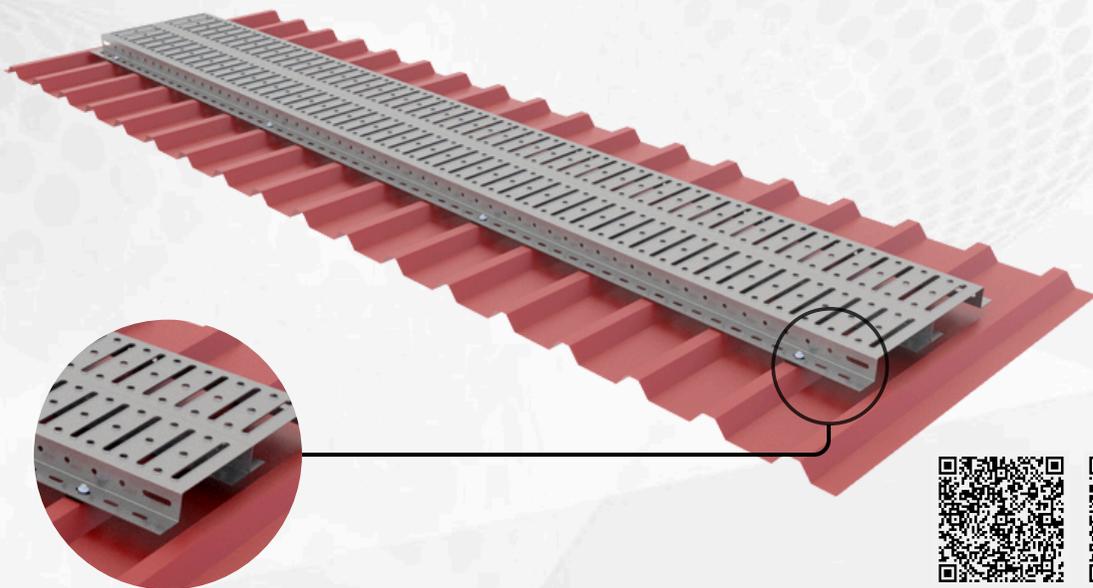
“

A technical safety walkway specifically
designed for roof traffic

”

CAREX TECHNICAL WALKWAY

Anti-slip safety system configurable according to the roof requirements.



CATALOGUE



WARRANTY

TECHNICAL CHARACTERISTICS

- S280GD + ZM310 steel as per UNE-EN 10346 or higher.
- MAGNELIS® Steel coating.
- Useful width: 400 mm.
- Weight 9.17 kg/m.
- Available in two lengths: 3 y 1.5 m.
- 50 mm bottom flanges for better weight distribution on the roof.
- Guaranteed watertightness through a double EPDM gasket system.
- 100% compatible with Alusín Solar structures.
- Option of adaptation to the desired width.



Did you know that?

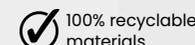
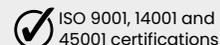
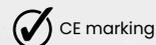
The Cares River route is one of the best known trails in Northern Spain. It runs between the Leonese village of Posada de Valdeón and the town of Poncebo.



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CALCULATED LOADS



OVERLOAD
Maximum use 2 kN/m²



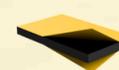
POINT
200 Kg as per UNE-EN 12811-1: 2005

SYSTEM COMPONENTS

CAREX



EPDM



FASTENING



G30 PROFILE



SUPPORT



SYSTEM OPTIONS

400



600



800



1000



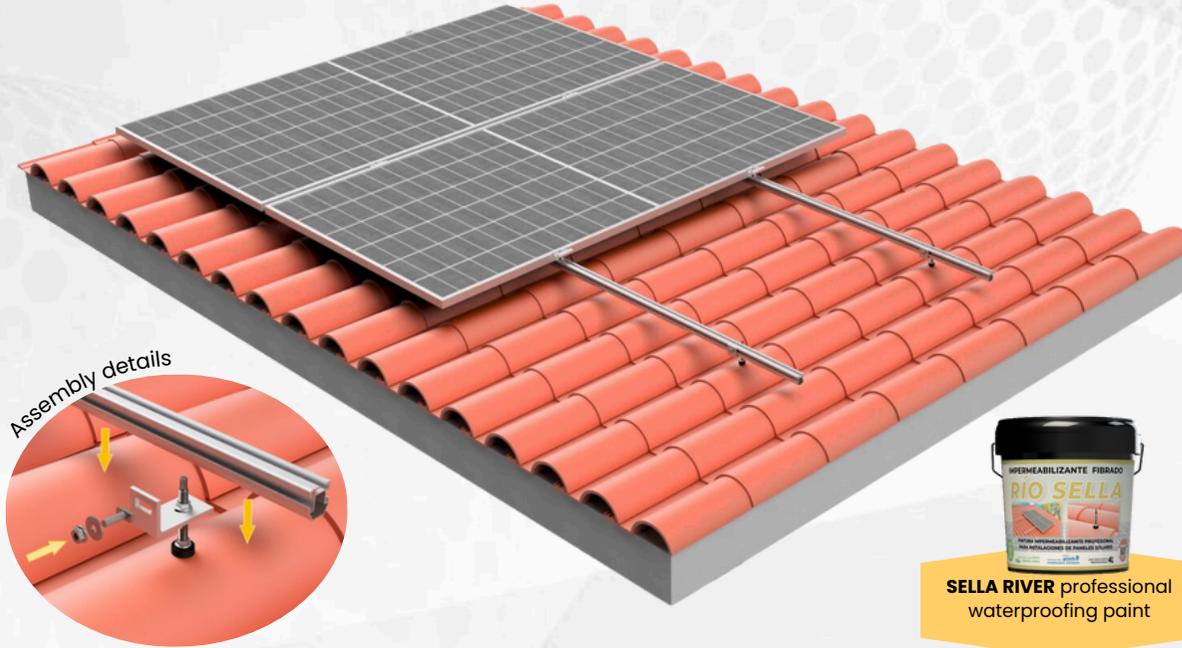


Lagos series

08

LAGOS SERIES

Series specially designed for structures in residential installations.



SELLA RIVER professional waterproofing paint

- Series of components suitable for residential installations.
- Structures adapted to market requirements and designed for installer requirements, highlighting the ease and convenience of assembly.
- Sale in closed boxes for material stocks.
- Availability of stock for fast delivery anywhere in Spain.
- Several roof fastening options depending on roof characteristics.
- Solar panel fastening clamps can be configured for frame thicknesses of 30 to 40mm.
- Profiles, clamps and accessories manufactured from aluminium as per EN AW standards.
- A2 stainless steel screws.
- Availability of accessories and consumables so that everything one requires is available for the assembly of one's solar installation.
- Wind load: 144 km/h | Snow load: 40 kg/m²

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- ✓ CE Marking
- ✓ ISO 9001, 14001 and 45001 certifications
- ✓ Up to 25-year material warranty
- ✓ 100% recyclable materials
- ✓ Rapid on-site response
- ✓ Convenient installation
- ✓ Watertightness warranty
- ✓ National manufacture



*Solar installation on the roof of the Alusín Managing Director



SL001/2- V8 profile SL003- Connector SL004- Intermediate Clamp SL005- End Clamp SL006- Flat Bracket SL007- Arabian Bracket SL008- Tile trough SL009/10- Frames

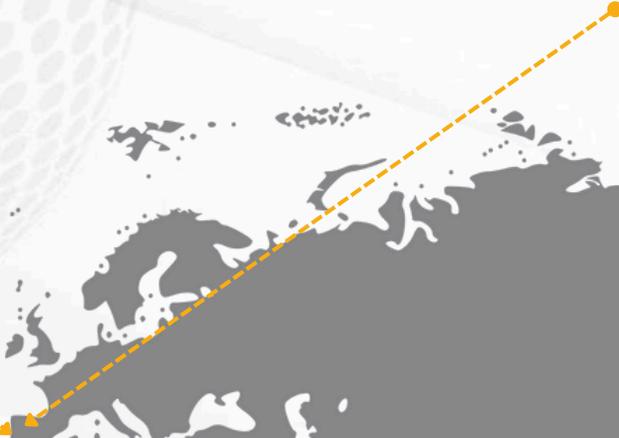


CATALOGUE

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