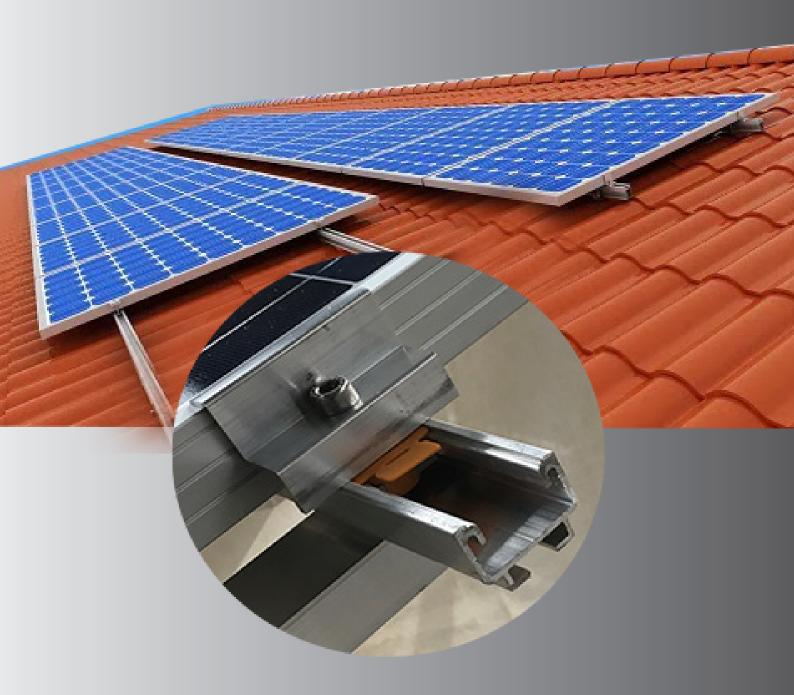
INSTALLATION GUIDE EASY ROOF









ENERGY SYSTEMS

Energy Systems is a company with main office and headquarters located in Braga, within the north Portugal region. We are specialists in the development and production of photovoltaic mounting systems and carport structures, with standard or tailored solutions. Our main focus is to offer high quality and reliability products, that satisfy our customers needs. We have our own production and engineering departments, with experienced professionals always acting according with the Eurocode rules and and standards. We and produce develop components mounting systems with guarantee of high performance. All our products are designed and developed to become the assembly easier and faster, reducing the time spent on installation.

info@energysystems.pt



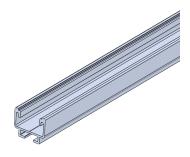


Easy Roof

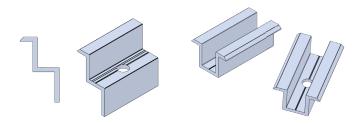
Easy Roof is produced under a The rigorous process of engineering and quality, which ensure excellent performance an fixation of photovoltaic modules on ceramic The rail is made of extruded aluminium (EN AW-6060) with thermal treatments (EN 573-3 and EN 755-2) and it has 15 years of manufacturing warranty. All the accessories are made of Stainless Steel A2, following the DIN ISO 4759/1 and DIN 267/2 rules. The Easy Roof has a wind load for a maximum height of 9m and in type II exposure in compliance with Eurocode, maximum wind speed according to structure calculation, for maximum inclination up to 35°. Snow kN/m2 for locations under 1.000 m above level. Easy assembly structure with no need to drill every component that holds that between same structure.



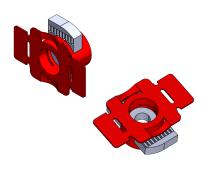
List of components



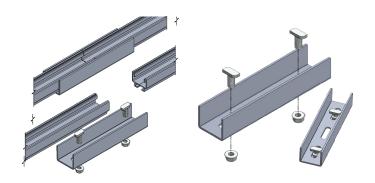
Aluminum Profile Easy Roof 4.8m (optional sizes);



End and Middle clamps;



Nuts with plastic clip;



Connector Kit;

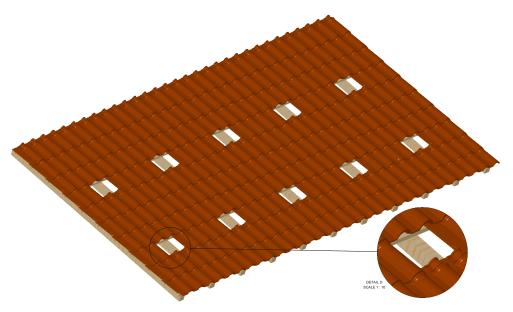


Screw DIN 912 M8 Stainless Steel.

Installation steps

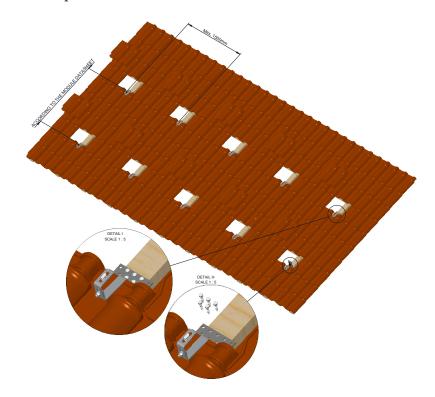
01

Remove the ceramic tiles at the points of the wood beam where the supports will be installed.



02

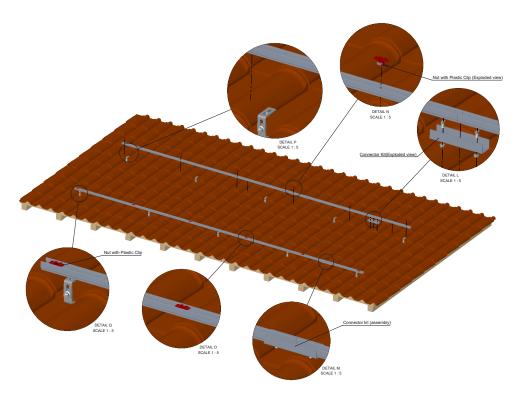
Fix the supports on the wood beam structure. In this case the Adjustable Hook is used as example:





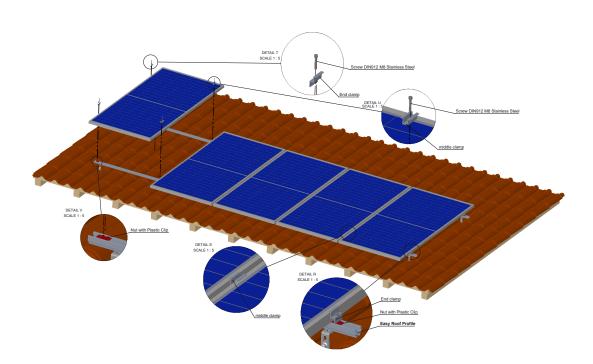


Assembly the Ceramic tiles, before removed. Assembly EasyRoof Profile + Connector Kit (If necessary) + Nuts with Plastic Clip.



04

Assembly the PV Panels on the EasyRoof profile, using the screws and clamps.

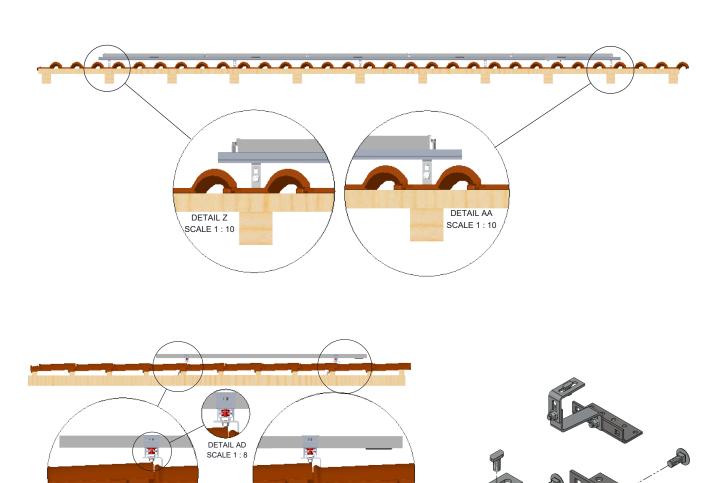


Optional fixation accessories

Adjustable Hook:

DETAIL AB

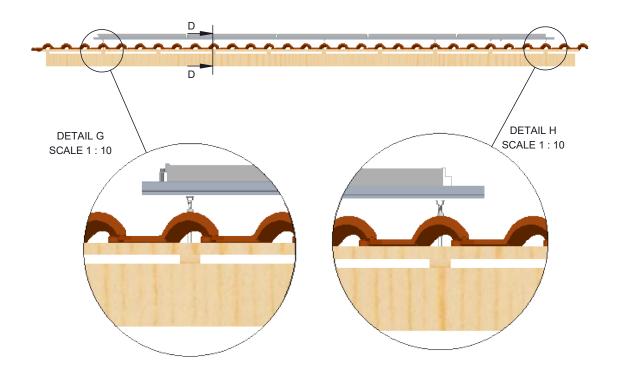
SCALE 1: 10

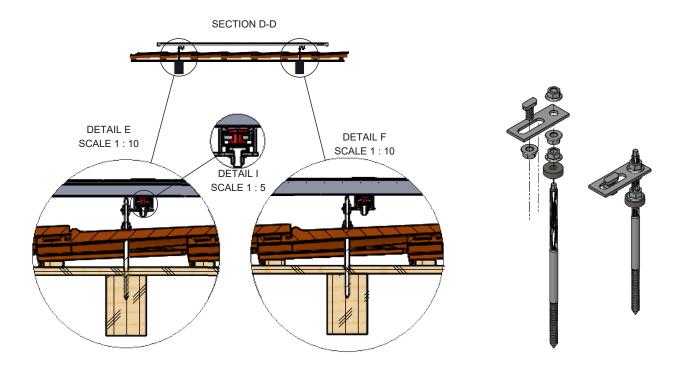


DETAIL AC

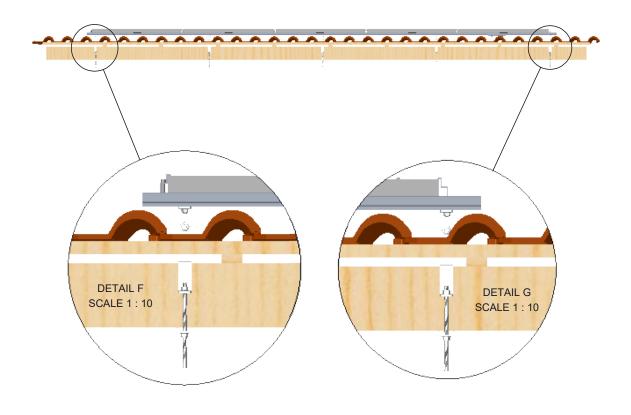
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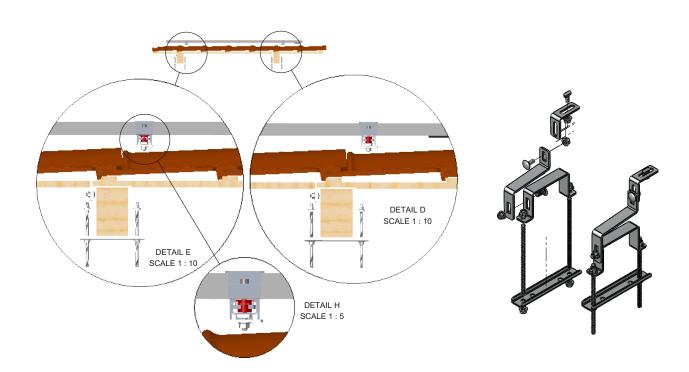




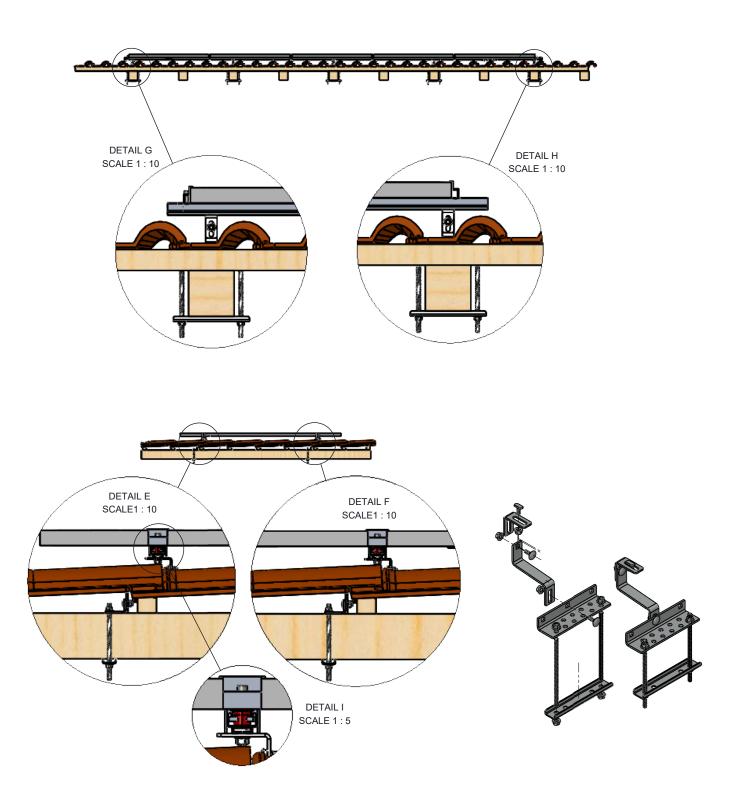


Landscape Beam Bracket:



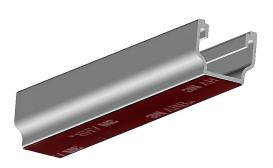






In case of doubt or any further information, please contact the Energy Systems.

Other products



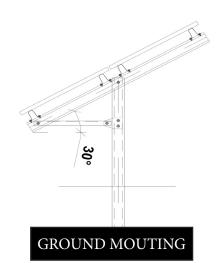
EASY PLAN 3M



EASY PLAN LIGHT



TRIANGLE





BALLAST



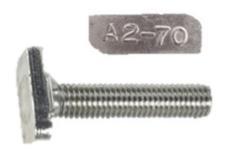
CARPORT



Our components



Allen Bolt Din 912 Inox A-2



T Bolt Inox A-2



Flanged Nuts Inox A-2



Adjustable Hook Inox A-2



Fixing screw with double thread + Adapter plate Inox A-2



End Clamp Aluminium 35mm/40mm/45mm



Nuts with Plastic Clip M8 Inox A-2



Ground Wire Clip (Electrical Protection)



Middle Clamp Aluminium