



NOVA STEEL

WE POWER YOUR ENERGY!

Solar Energy Steel Construction Systems

2022



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ABOUT US

One of the most important elements in our growing and developing world is the need for energy, and most of this need is met through fossil fuels. One of the most important environmental problems in the world today is global warming caused by the increasing amount of carbon dioxide in the atmosphere due to the fossil fuels used.

In order to save our world from this bad course, we are playing a role in the importance of solar energy, which is a sustainable and more stable energy source that does not harm the environment.



Nova technologies that we produce using our products solar power plants steel as steel up to date since 2011, thanks to our experienced and expert team, we continue to exist in our environmentally friendly solutions that meet high quality, reasonable price expectations, provide easy use and energy saving, and put an end to the bad course of nature.

As Nova Steel family, we carry out all domestic and national manufacturing in accordance with ISO 9001, ISO 45001, ISO 50001, ISO 14001 standards in our factories located in sanliurfa and Osmaniye organized industrial zone.

As Nova Steel, one of the most important aspects that distinguishes us from our competitors as a solar steel construction manufacturer is our quality standards as well as the timely deadline we have given to our customers, our wide and innovative custom manufacturing range. In the solar energy sector, domestic and international export 10000 tons of 36000 tons of steel production overseas with references to well on his way to becoming the most important player in the sector we are moving.





OUR SERVICES

We want to build the bright future of the world together with our steel constructions that we manufacture using current technologies, our carefully prepared static projects, our Roof and Land Solar Power Plants construction solutions that we have designed with the importance of being compatible with nature.

Solar Power Plants Land Construction Design and Manufacturing

- ▶ Fixed Land Construction System
- ▶ Car Park Construction System
- ▶ Solar Panels Agricultural Irrigation Steel Construction System
- ▶ Tracker Construction System

Solar Power Plants Roof Construction Design and Manufacturing

- ▶ Trapezoidal Sheet Metal Roof Construction
- ▶ System Sandwich Panel Roof Construction
- ▶ System Tile Roof Construction System
- ▶ Flat Roof Construction System
- ▶ Clamp Roof Construction System

Static Projecting of Solar Power Plants

- ▶ Land Applied Stability Analysis Projecting
- ▶ Roof Applied Stability Analysis Projecting



Our Production Standards

- ▶ Low tolerance machining in desired sections and dimensions thanks to a special light steel construction machining line.
- ▶ The processes performed on S235 (ST37) and S355 (ST52) steels are manufactured in accordance with ISO 2768-1 standards.
- ▶ Hot dip galvanizing process in accordance with EN ISO 1461 Standard.
- ▶ Error-free manufacturing thanks to laser and plasma cutting line.
- ▶ Products in desired angles and sections thanks to the press brake bending line.
- ▶ High quality manufacturing thanks to our experienced and equipped team.
- ▶ Arrive on time thanks to detailed production planning.
- ▶ The manufacturing process can be tracked thanks to daily reporting.
- ▶ Transparent manufacturing assurance thanks to the delivery of EN 10204: 2004 TYPE 3.1 and TS EN ISO 1461 certificates to you.
- ▶ High customer satisfaction and strong references thanks to our innovative custom manufacturing range.





NOVA STEEL

Profiles We Produce



U Profile



U Angle Profile



C Profile



C Plus Profile



C Angle Profile



Z Profile



Z Plus Profile



Sigma Profile



Omega Profile





NOVA STEEL

Profiles We Produce



L Profile



Diamond Profile



Diamond X Profile



M Profile



M Plus Profile



Land Solar Energy Construction Fixed

Construction design in solar power plants; static (snow, panel, etc.) and dynamic (earthquake and wind loads) loads, soil class and parameters, foundation type are made depending on many variables such as module type.

Due to the fact that Turkey is located in an important earthquake zone, the earthquake zone is an important variable in construction design.

To create the most economical static account here, it is very important to choose the most suitable profiles that will come from the ground and meet the loads that will add the system, in terms of investment cost.

From the point of view of investors, the construction evaluation is carried out taking into account factors such as ease of installation, corrosion resistance, use of certified materials, environmental impacts, as well as the total weight.

In the design and calculation of carrier systems, it should be ensured that their elements have sufficient strength, rigidity and durability during the time they remain in operation, and that there is sufficient safety capacity against the possibility of overloading or strength reduction.



Our Solution for Land Applied Solar Power Plants Construction

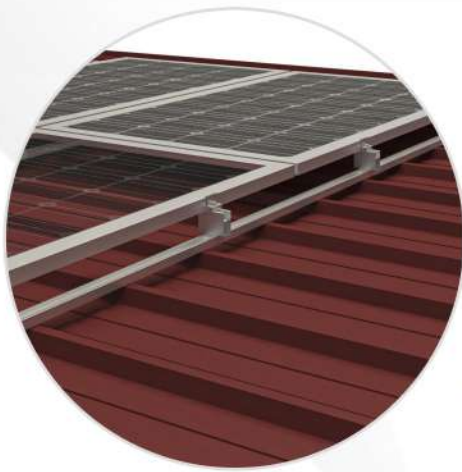
- ▶ Our construction system can be optionally used as Stainless Steel, Hot-Dip Galvanized and Pre-Galvanized.
- ▶ The construction systems can be designed as double, triple, quadruple horizontal or vertical depending on your request.
- ▶ Thanks to the small number of columns, the cost of fixing (fastening and coring) to the ground has been reduced to a minimum.
- ▶ This problem has been eliminated to the maximum extent with the slots placed in the system due to the elevation difference that is frequently encountered in the fields.
- ▶ The installation possibility of the panels is provided in accordance with the installation instructions.
- ▶ Under maximum snow and earthquake loads it is a durable system up to 2.8 meters axle December.
- ▶ Thanks to the correct installation, PV module power up to 540 kPa is provided.





We Can Design According to Your Needs

With our construction solutions designed under the light of engineering, we have special designs according to different roof coverings, different roof types or floor types.



TRAPEZE SHEET



SAW-TOOTH ROOF



CLAMP ROOF



FLAT ROOF



SANDWICH ROOF

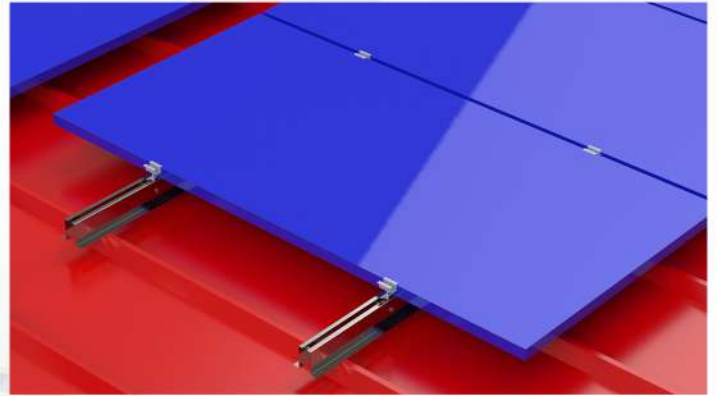
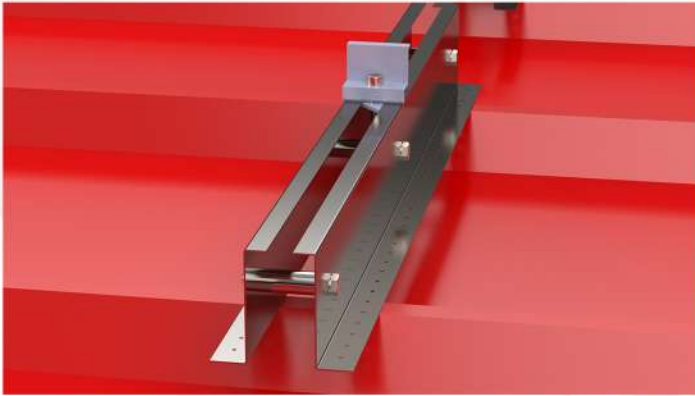


TILE ROOF



Our Trapezoidal Sheet & Sandwich Panel Solutions

A) TWO-Z



- ▶ Area of use: Trapezoidal Sheet - Sandwich sheeting (Roofing should be larger than 0.50 mm.)
- ▶ Maximum sealing thanks to EPDM Band.
- ▶ Secure installation with stainless and galvanized steel sealed roof screw.
- ▶ Fast installation thanks to the rail system.
- ▶ Length options: 100-3800 mm
- ▶ Height options: 3-12 cm
- ▶ Stainless Steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)



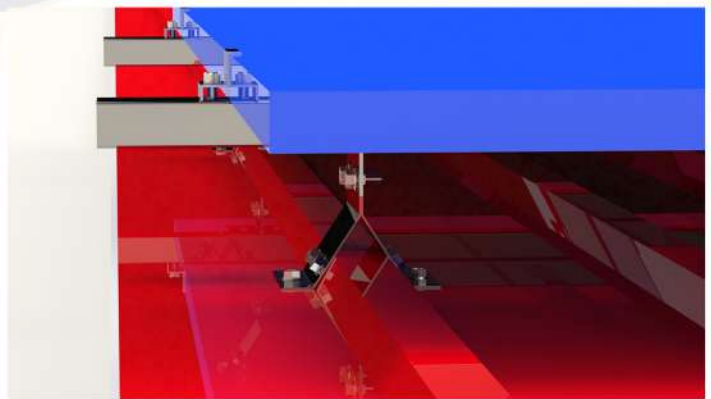
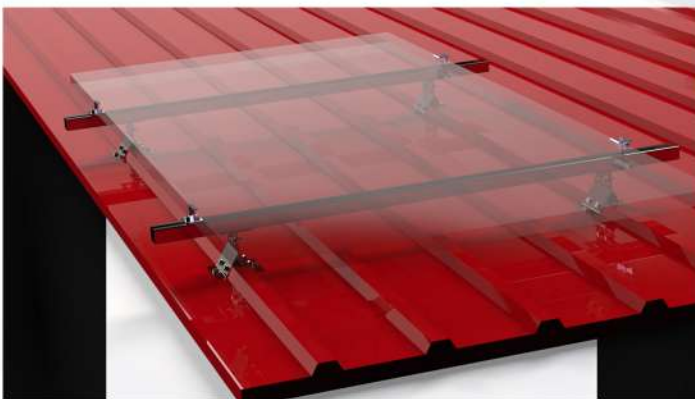


B) T-SLOT



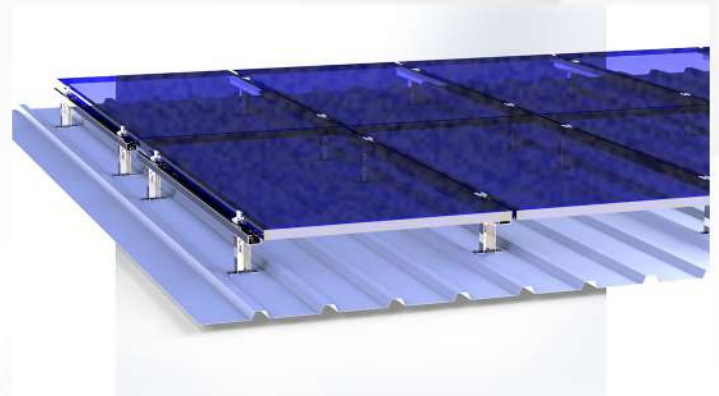
- ▶ Area of use: Trapezoidal Sheet- Sandwich sheeting (Roofing should be larger than 0.50 mm.)
- ▶ Maximum sealing thanks to EPDM Band
- ▶ Secure installation with stainless & galvanized steel sealed roof screw
- ▶ Quick installation thanks to the T-Slot
- ▶ Length options: 100-3800 mm
- ▶ Height options: 3-12 cm
- ▶ Stainless Steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

C) DOUBLE - ANGLE



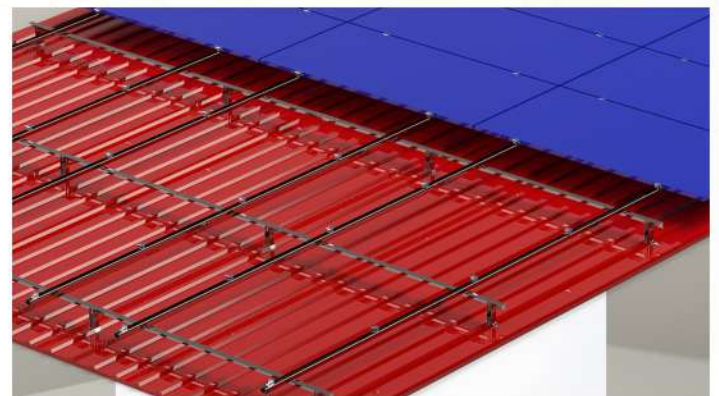
- ▶ Area of use: Trapezoidal Sheet- Sandwich sheeting (Roofing should be larger than 0.50 mm.)
- ▶ Maximum sealing thanks to EPDM Band
- ▶ Secure installation with stainless & galvanized steel sealed roof screw
- ▶ Quick installation thanks to the T-Slot
- ▶ Length options: 100-3800 mm
- ▶ Height options: 3-12 cm
- ▶ Stainless Steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

D) 20 cm Elevated Construction Systems(Waterway)



- ▶ Area of use: Trapezoidal Sheet- Sandwich coating
- ▶ Method of use: Installation on the purlins of the structure
- ▶ Maximum sealing thanks to EPDM Band
- ▶ Secure mounting with Buldex screw
- ▶ Quick and ergonomic installation
- ▶ Length options: 10-20 cm
- ▶ Stainless Steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

E) 20 cm Elevated Construction System (Road Mounting)



- ▶ Area of use: Trapezoidal Sheet - Sandwich sheeting (Roofing should be larger than 0.50 mm.)
- ▶ Method of use: side mounting of roof pitch
- ▶ Maximum sealing thanks to EPDM Band
- ▶ Secure mounting with Buldex screw
- ▶ Quick and ergonomic installation
- ▶ Length options : 10-20 cm
- ▶ Stainless Steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

Our Solutions Fort ile Roof

A) Flat Roof Construction System with Weight Method



- ▶ Method of use: Available for use on flat concrete, membrane and gravel roofs
- ▶ Maximum tightness because no drilling is done to the roof floor
- ▶ Safe installation thanks to rod mounting
- ▶ Fast and ergonomic installation
- ▶ Stand angle December: 5-13
- ▶ Stainless steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

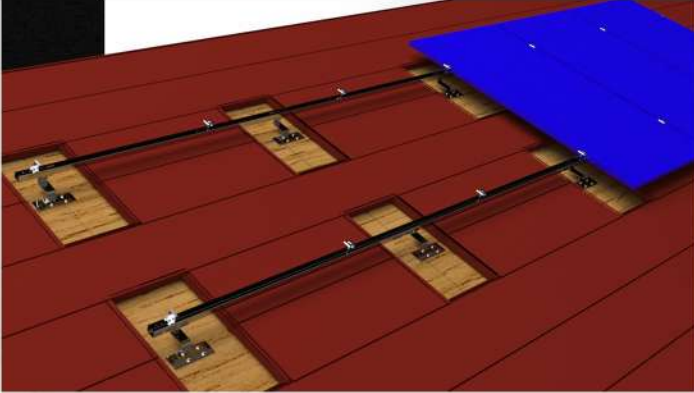
B) Flat Roof Construction System by Fastening Method



- ▶ Method of use: Available for use on flat concrete, membrane and gravel roofs
- ▶ Safe installation thanks to the steel dowel
- ▶ Quick and ergonomic installation
- ▶ Maximum sealing thanks to epoxy insulation material
- ▶ Stand angle December: 5-13
- ▶ Stainless steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)



Our Tile Roof Solutions



- ▶ Mounting Method: Installation on the wooden purlins of the structure
- ▶ Secure installation thanks to the wood screw
- ▶ Quick and ergonomic installation
- ▶ Fast installation thanks to rail rafters
- ▶ Tile bracket material quality: Hot-dip galvanized steel (S235JR) and painted (S235JR)
- ▶ Rail rafter material quality: Stainless steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)

Our Solutions For Clamp Roof



- ▶ Area of use: Clamp roof
- ▶ Fast installation thanks to the rail system
- ▶ Maximum tightness because no drilling is done to the roof floor
- ▶ Quick and ergonomic installation
- ▶ Secure installation with clamp coating compression method
- ▶ Length options: 6-12 cm
- ▶ Stainless steel (SS304), Hot-dip galvanized steel (S235JR) and Pregalvanized (DX51D+Z)



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