



Photovoltaics – Assembly System for Professionals





...



1. Introduction of PROFINESS

2. Standard assembly system for roofs

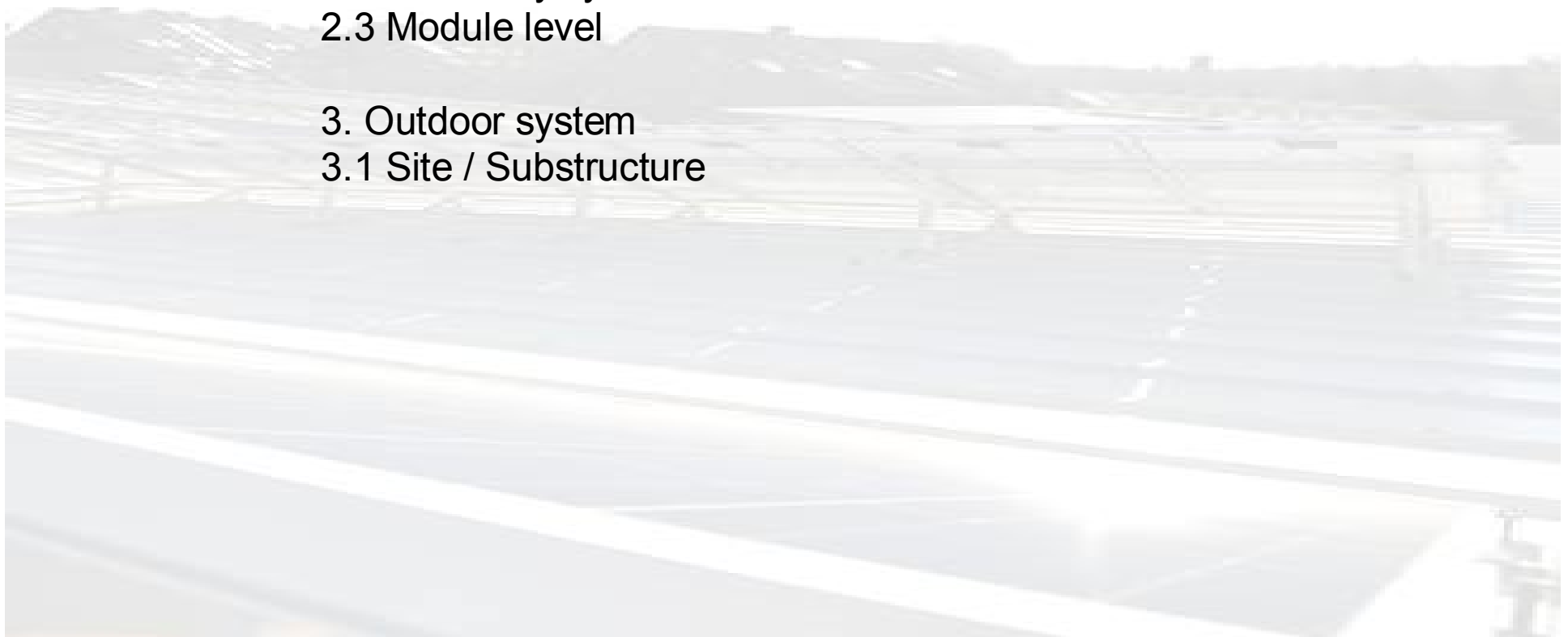
2.1 Connection to the roof substructure

2.2 Assembly system

2.3 Module level

3. Outdoor system

3.1 Site / Substructure





1 Introduction of PROFINESS



Profiness is entering the market as a young company which is taking new avenues in photovoltaic assembly systems and thereby resorts to many years of experienced gained in qualified materials management and handling.

We make sure that our customers get the right material, in the desired quality and at the desired time and indeed at wholesale prices.

Thanks to our close co-operation with our exclusive supply partners found in all interesting procurement markets we can offer you a product range that is being developed further progressively at constantly favourable conditions.

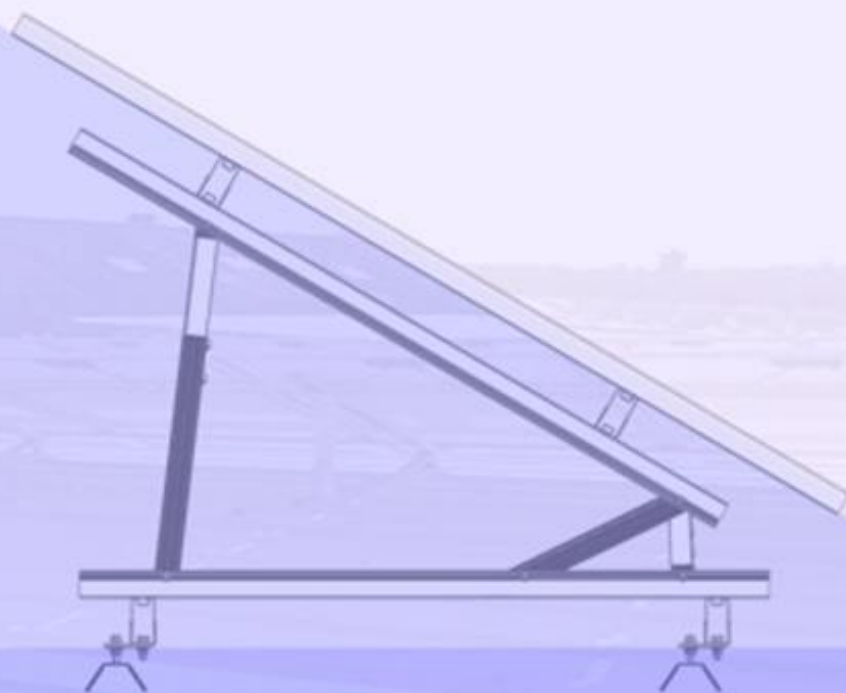
Our closely knit network of competent partners in the range of renewable energies offers you benefits in projecting investment projects such as, e.g. outdoor photovoltaic plants.

We supply approx. 50,000 different stainless steel connection elements directly from the warehouse inventory, short delivery times are our speciality. We supply extrusion moulded aluminium profiles in various lengths at very favourable conditions directly from our partners and thus save on unnecessary warehousing.

Module level

Assembly system

Connection



2 Standard Assembly System for Roofs



2.1 Connection to roof substructure / ...

Tiled roofs



Trapezoidal roofs



Corrugated roofs



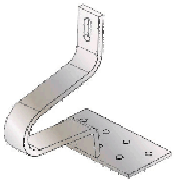
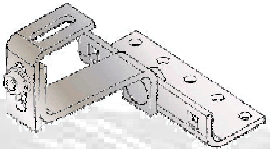
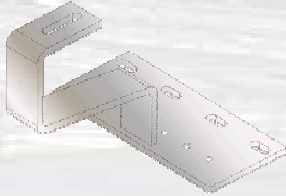
Kalzip roofing

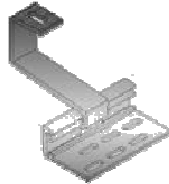
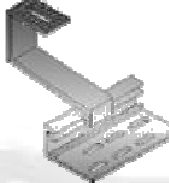
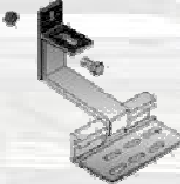



2 Standard Assembly System for Roofs



2.1 Connection to roof substructure /

Roof hook stainless steel for tiles of the type "Frankfurter Pfanne"	
	Roof hooks load A2, Completely of high quality 1.4301 stainless steel With TÜV certificate
	Roof hooks, adjustable A2 Completely of high quality 1.4301 stainless steel
	Roof hooks Standard A2, Completely of high quality 1.4301 stainless steel Various types available

Roof hooks Aluminium "Frankfurter Pfanne"	
	Roof hooks, continuous Consisting of base plate and clipfix hooks
	Roof hooks with height adjustment on the hook Consists of base plate and prefabricated hooks
	Roof hooks, lateral assembly with height adjustment Consist of a base plate and hooks with T-piece prefabricated




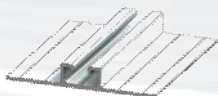
	Special hooks are available for all types of roofing tiles and shapes
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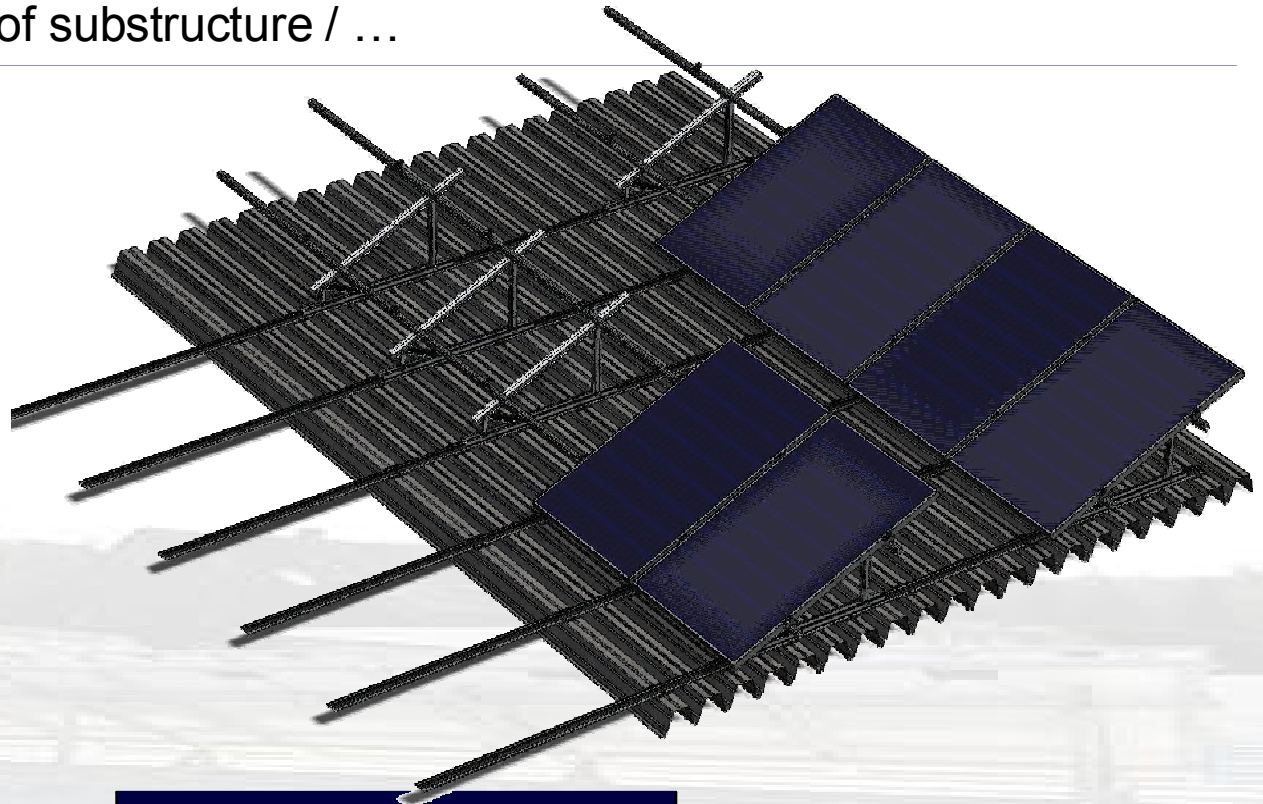
Shims (2-5 mm thick)	
	Shim


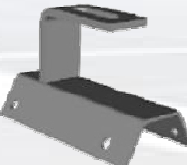
2 Standard Assembly System for Roofs



2.1 Connection to roof substructure / ...

Trapezoid roof	
	Trapeze plate fastener
	Stair bolt / Solar mounting (wood – UK)
	Solar mounting (Steel - UK)
	PROFINESS 31 Trapezoid profile



Trapeze plate fastener	
	Trapeze plate fastener with assembly plate
	Trapeze plate fastener with angle



2 Standard Assembly System for roofs



2.1 Connection to roof substructure



Corrugated roof



Stair bolt / Solar
mounting
(Wood – UK)

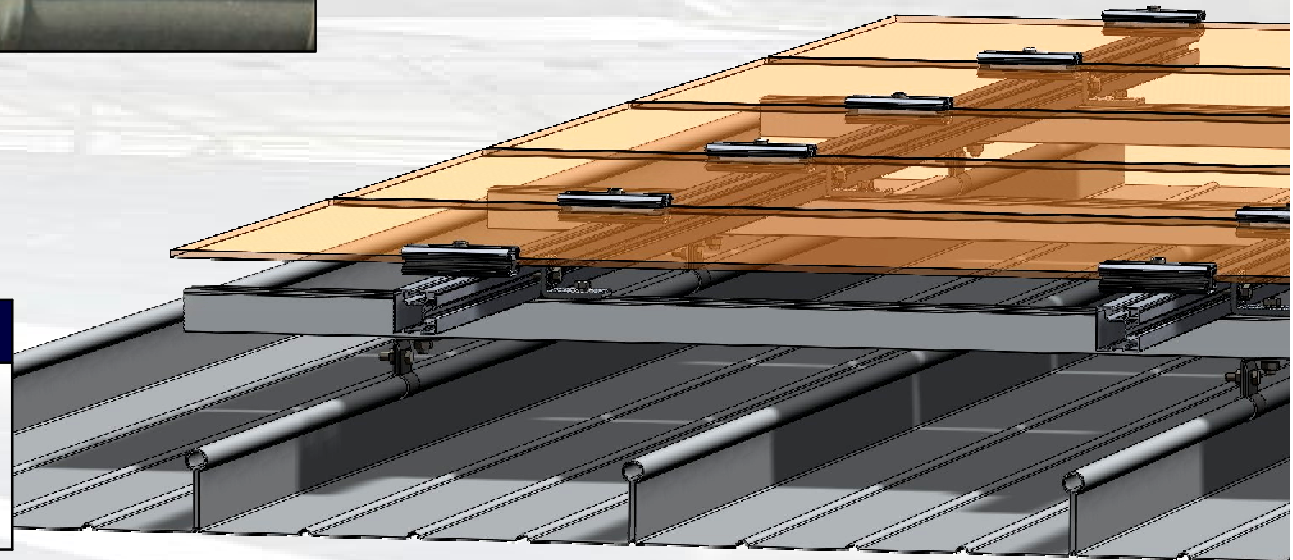


Solar mounting
(Steel – UK)

Kalzip roof




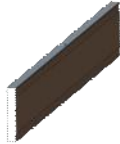





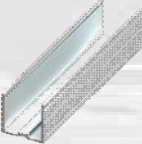
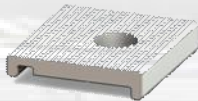

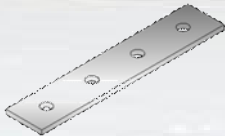
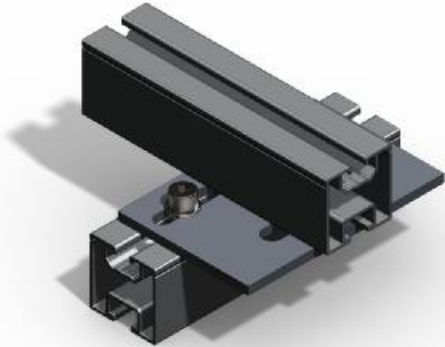


Kalzip clamp



2 Standard Assembly System for roofs



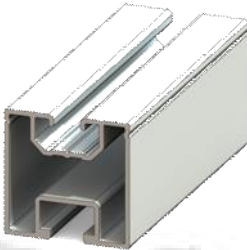
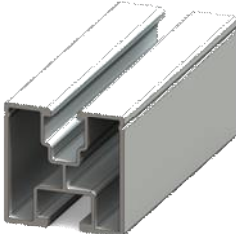
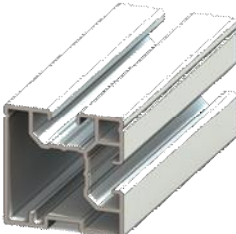
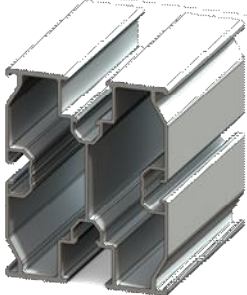



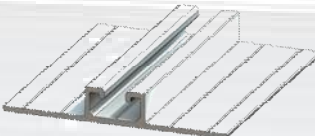
2.1 Connection to roof substructure / 2.2 Assembly system / ...

Accessories and adapters		Profile connectors		Cross connectors	
	Angle profile		Profile connector insertion module		PROFINET 14
	Z- profile		Profile connector Insertion module Light		Cross connector plate
	Adapter plates		Profile connector outside		PROFINET 26
	Round adapter		Profile connector 4-hole		
	J adapter		Heavy load support profile connector		

2 Standard Assembly System for roofs






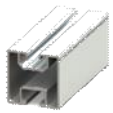
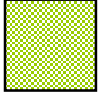
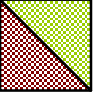
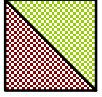

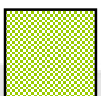
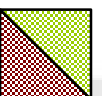
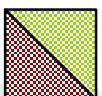
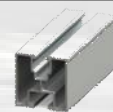
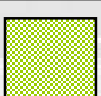

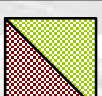

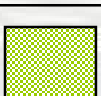

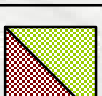











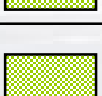
2.1 Connection to roof substructure / 2.2 Assembly system / ...

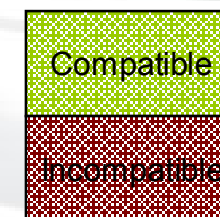
PROFILE			
 <p>PROFINET 1</p>	 <p>PROFINET 3</p>	 <p>PROFINET 15</p>	 <p>Heavy load support profile</p>
 <p>PROFINET 2</p>	 <p>PROFINET 2-2</p>	 <p>PROFINET 15</p>	 <p>PROFINET 31</p>

2 Standard Assembly System for roofs



2.1 Connection to roof substructure / 2.2 Assembly system / ...

Profiles for the respective cross connection			
Connector \ Profil			
			
			
			
			
			
			
			

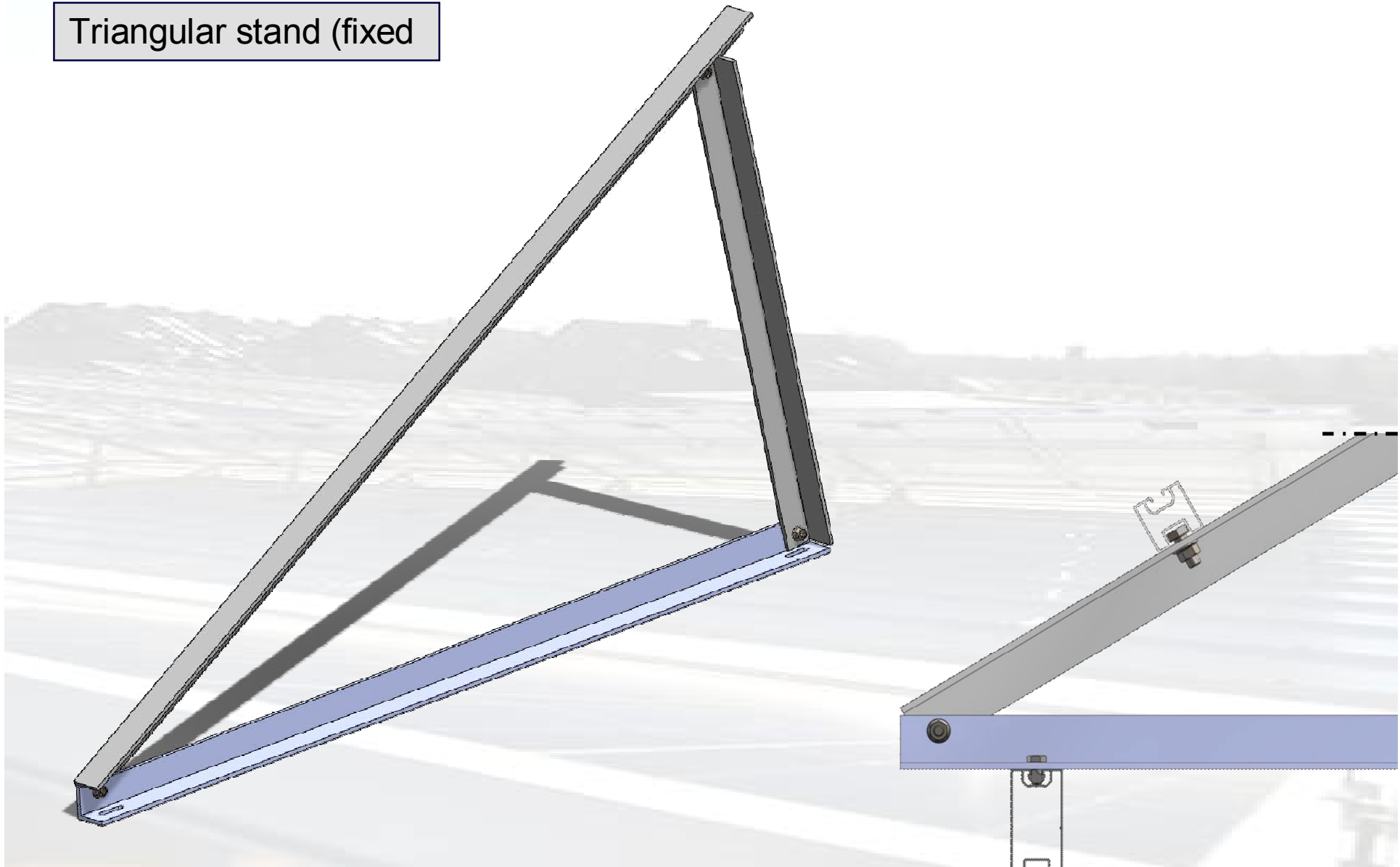


2 Standard Assembly System for roofs

PROFINES

2.1 Connection to roof substructure / 2.2 Assembly system / ...

Triangular stand (fixed)

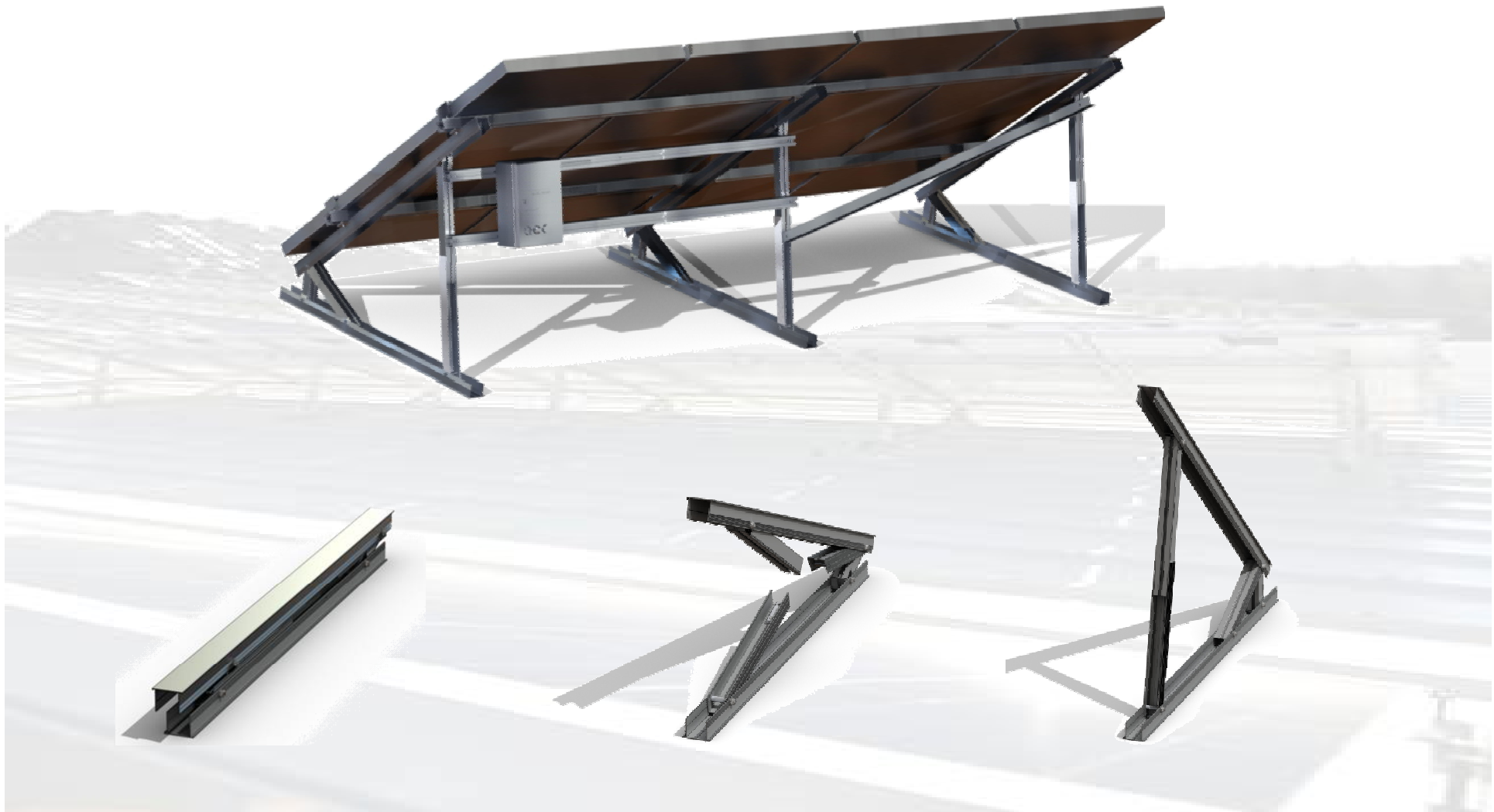


2 Standard Assembly System for roofs



2.1 Connection to roof substructure / 2.2 Assembly system / ...

Triangular stand (flexible)

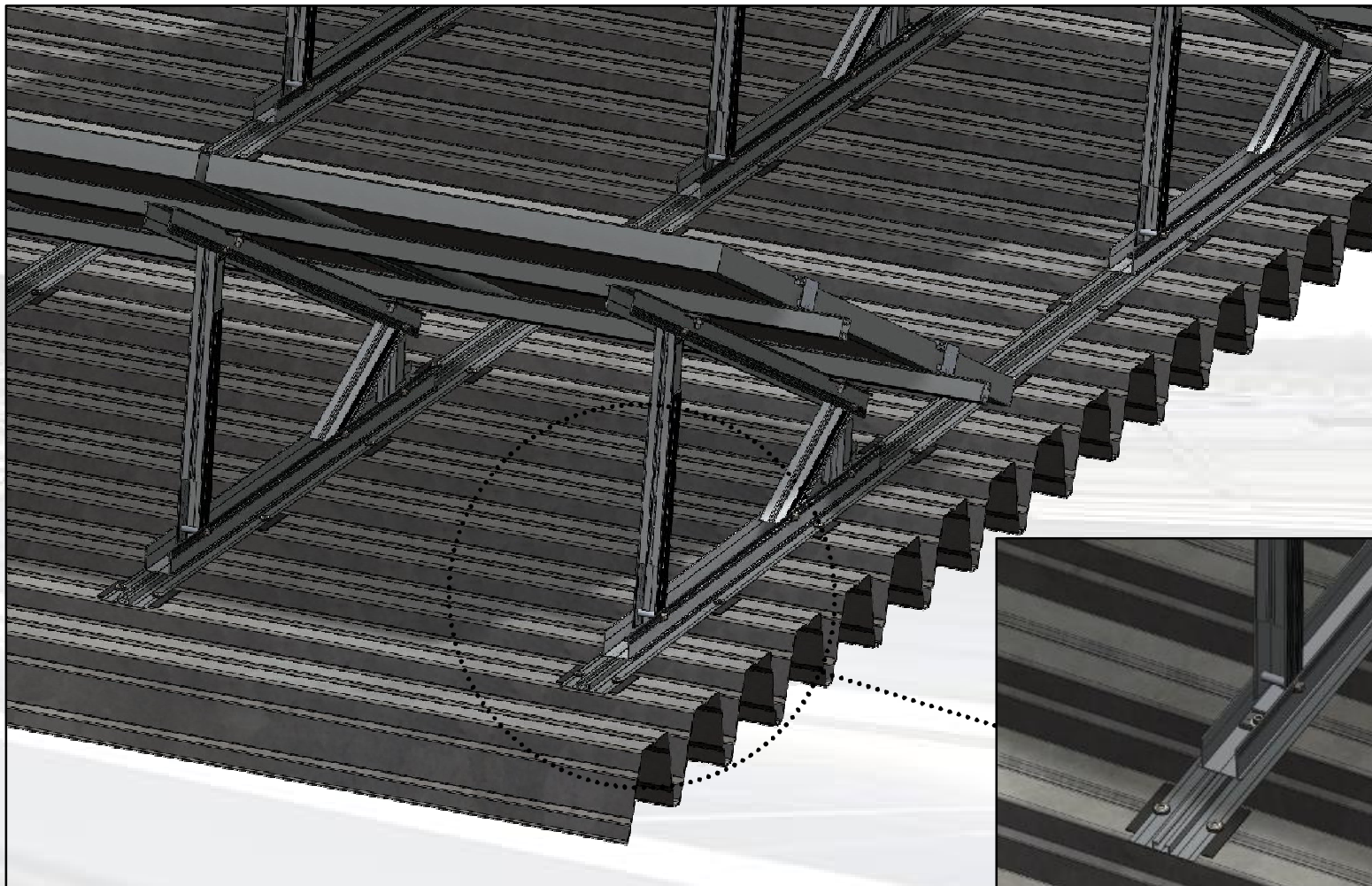


2 Standard Assembly System for roofs



2.1 Connection to roof substructure / 2.2 Assembly system / ...

Triangular stand (flexible) on trapezoid roof

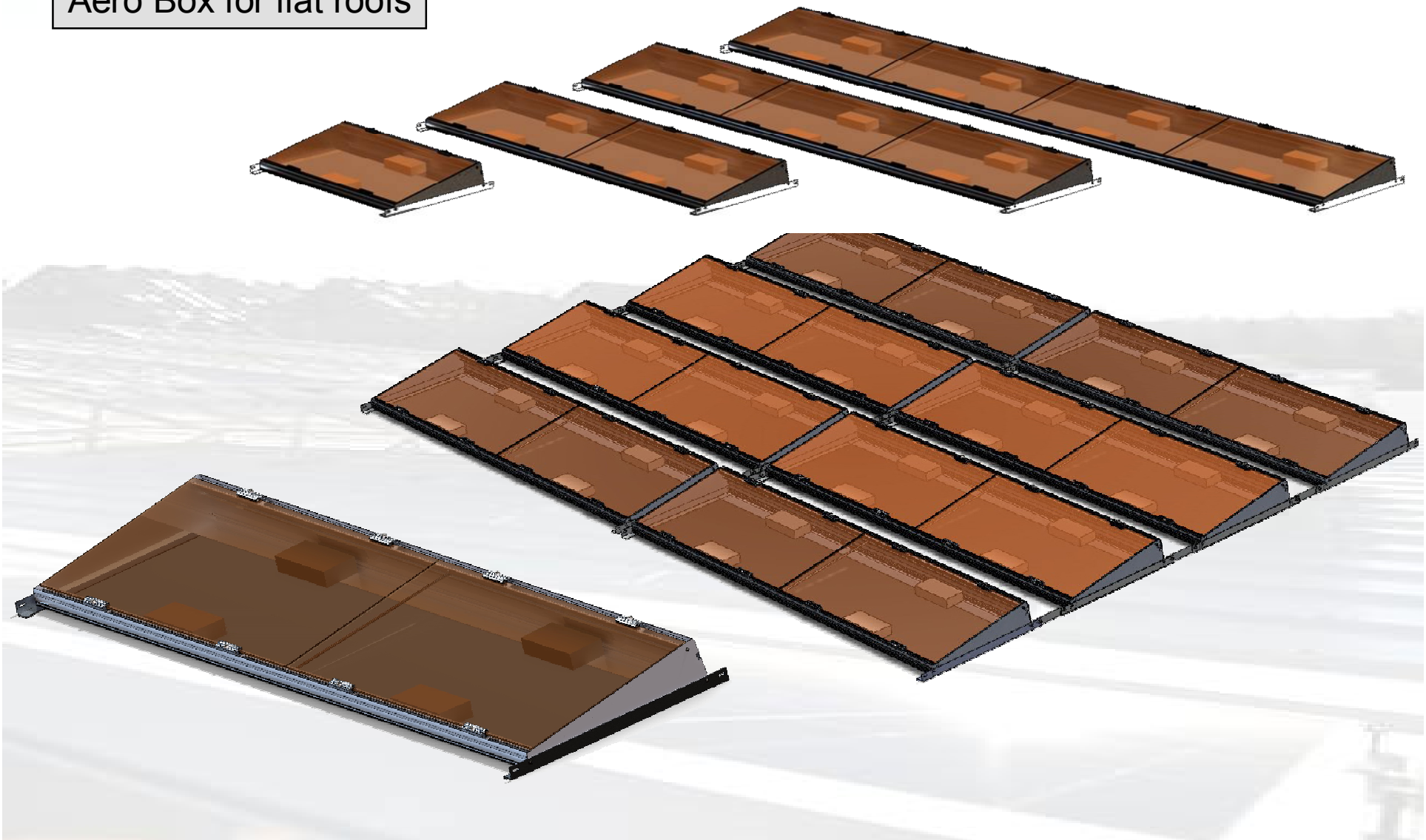


2 Standard Assembly System for roofs



2.1 Connection to roof substructure / 2.2 Assembly system / ...

Aero Box for flat roofs

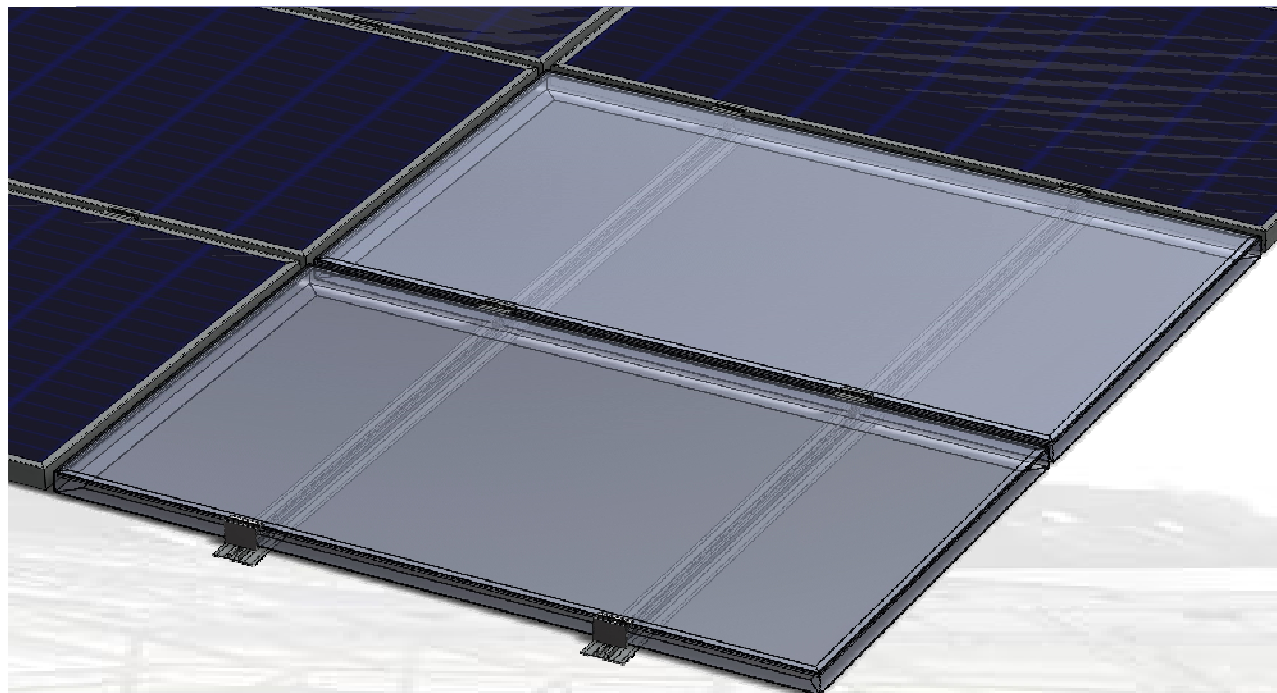




2 Standard Assembly System for roofs



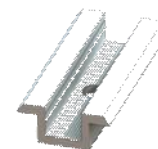
2.1 Connection to roof substructure / 2.2 Assembly system / 2.3 Module level/ ...



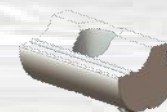
Clamps for framed modules



Terminal clamp



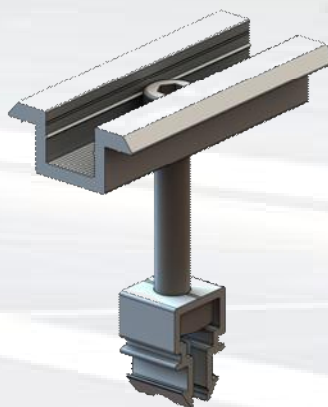
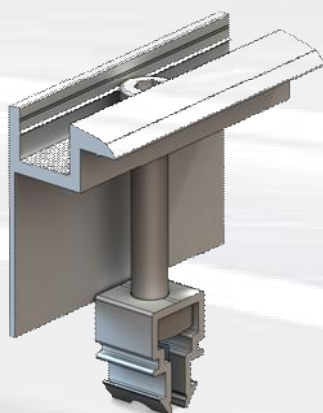
Central clamp



Slot nut



Clip

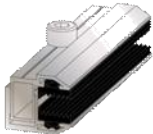
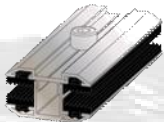
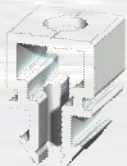


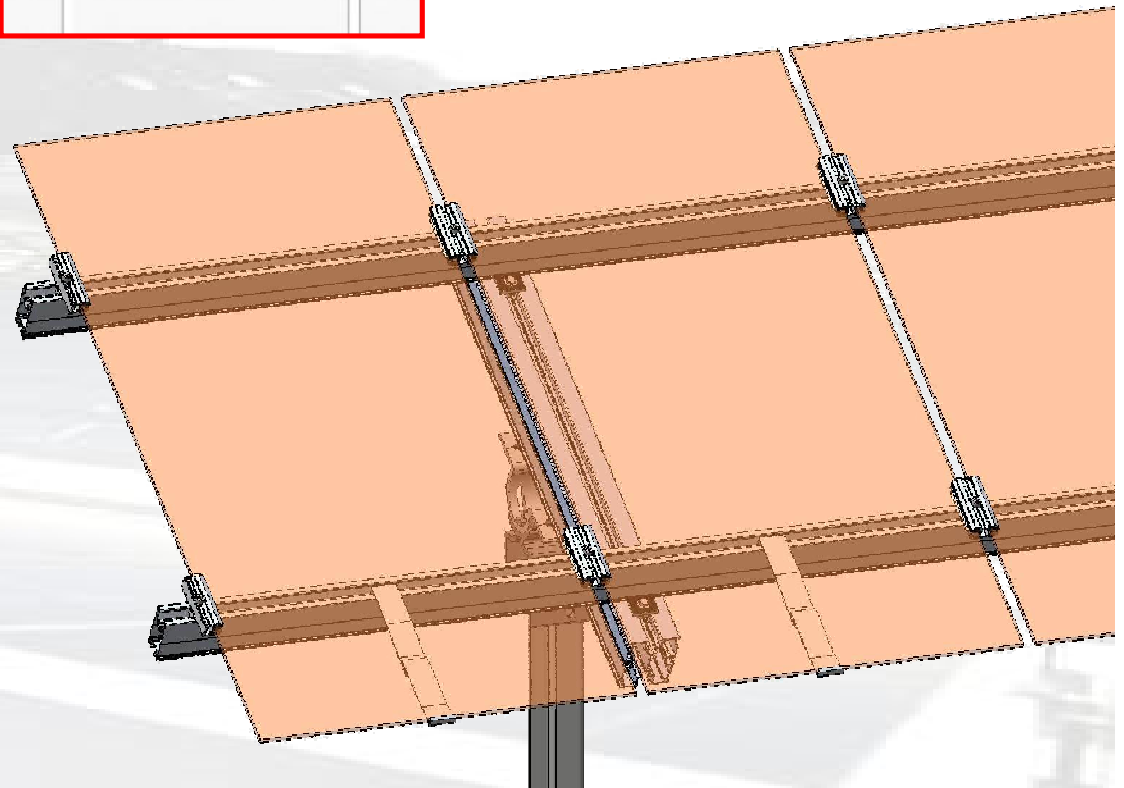
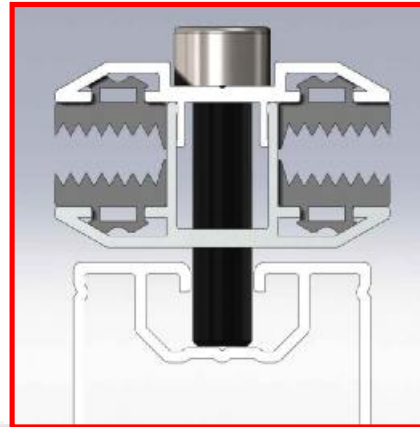
2 Standard Assembly System for roofs



2.1 Connection to roof substructure / 2.2 Assembly system / 2.3 Module level/ ...

Clamps for thin layer modules

	Terminal clamp
	Central clamp
	Clip





4 Outdoor system

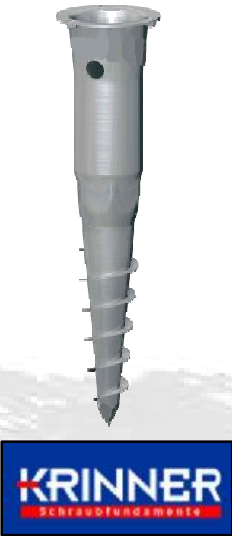

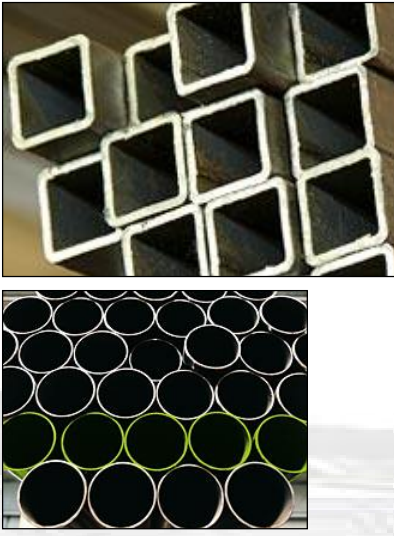


PROFINET



4 Outdoor system



3.1 Site, Substructure / ...

Screw foundations	Ram posts		
			
"KSK-M series"	T-supports	Hollow profiles	Sigma posts
Concrete foundation		Rail sleeper foundation	
			

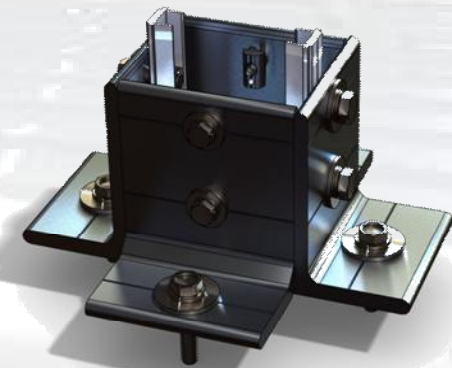
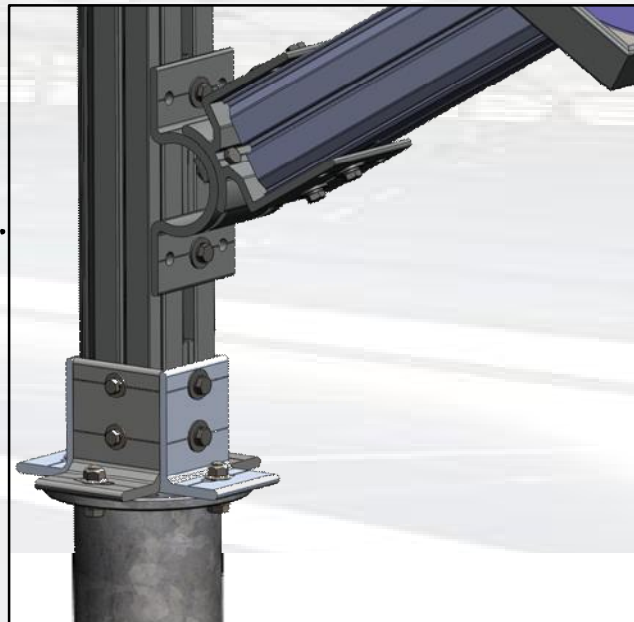
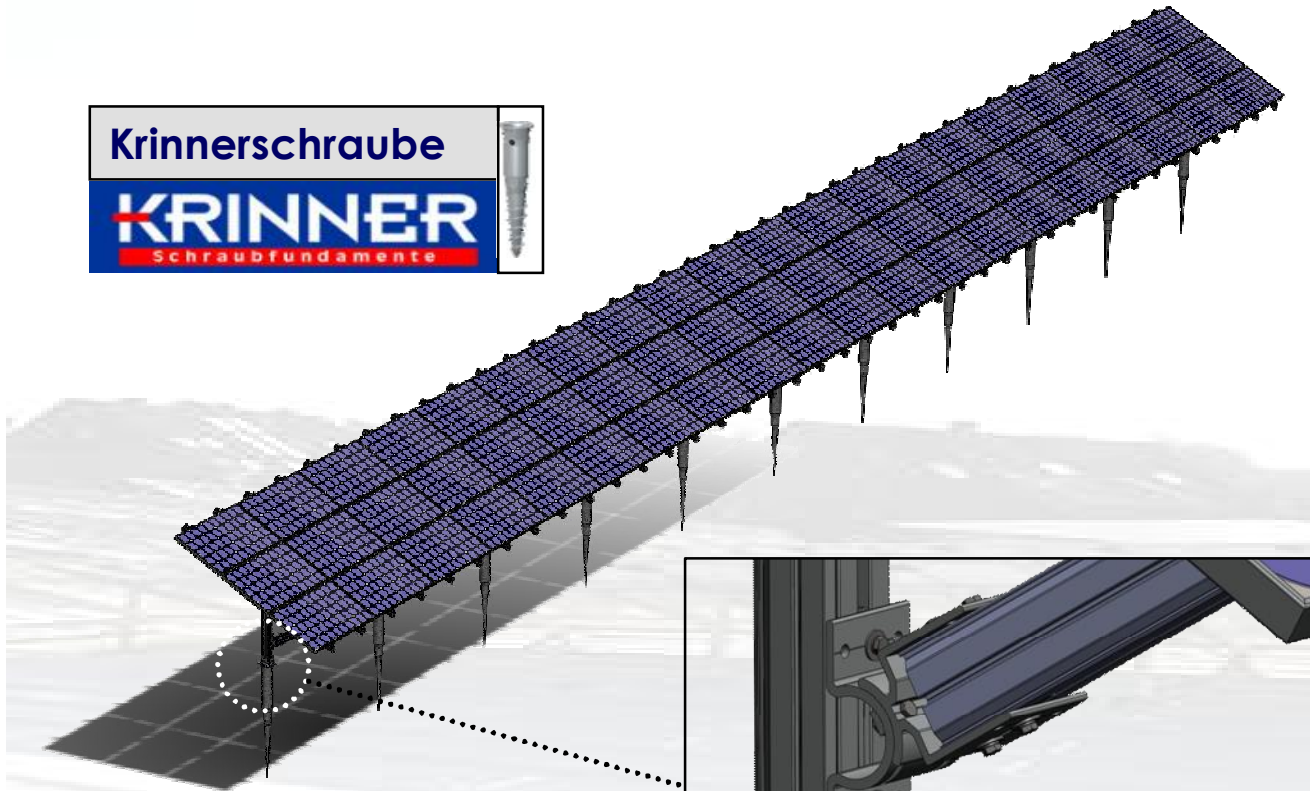
4 Outdoor system



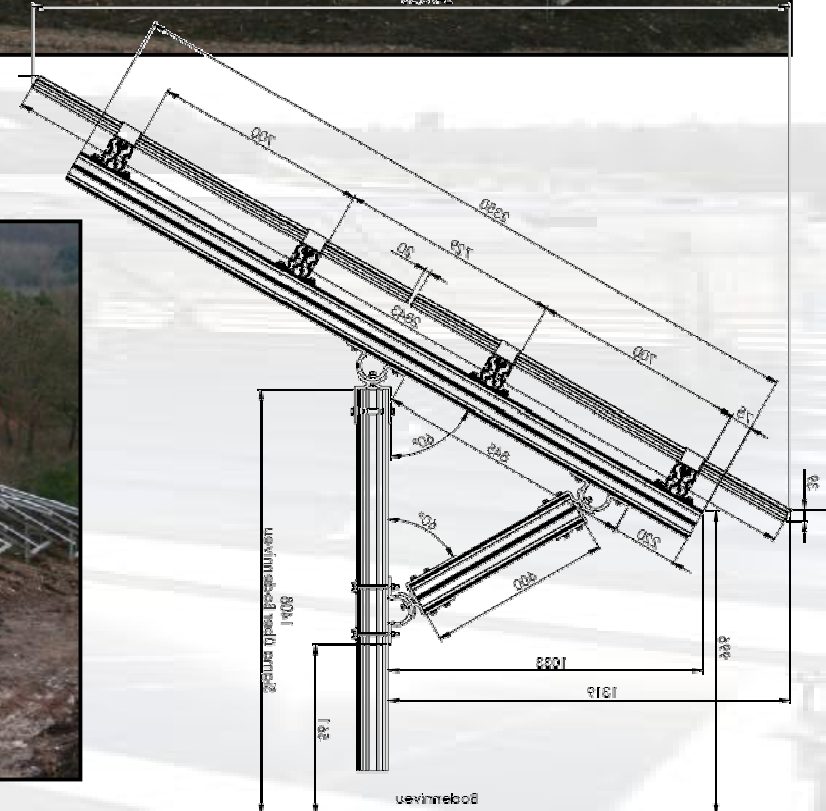
3.1 Site, Substructure / ...

Krannerschraube

KRINNER
Schraubfundamente



Connection to Sigma posts

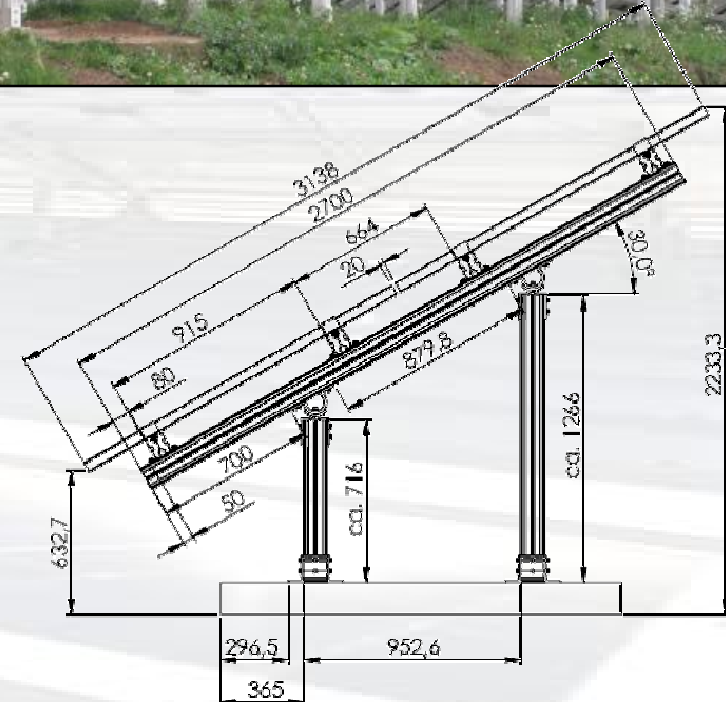


4 Outdoor system



3.1 Site, Substructure / ...

Connection to concrete foundation

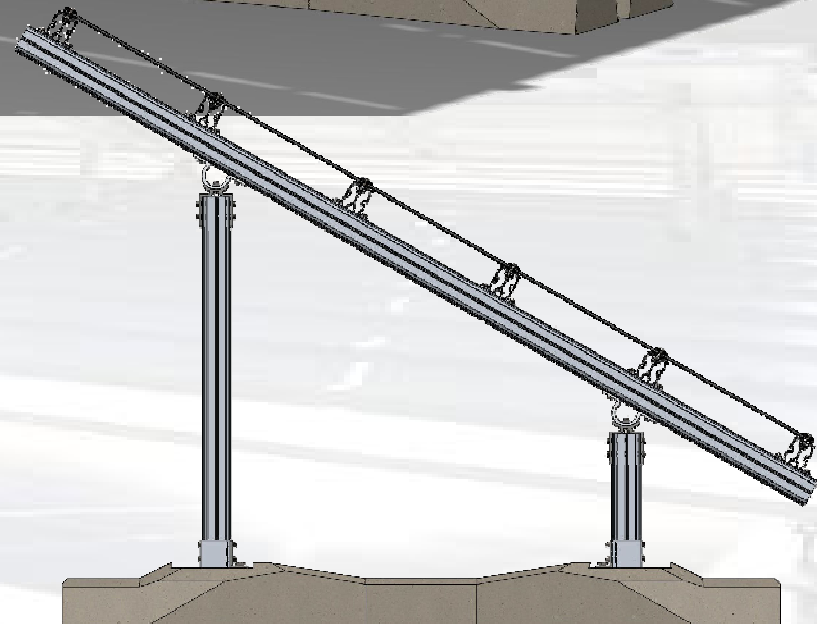
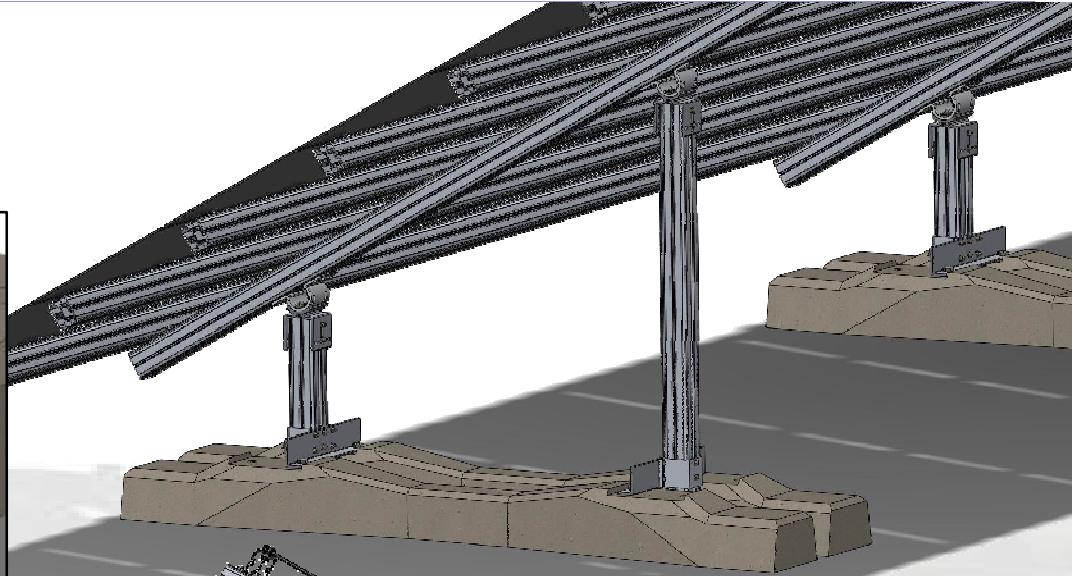
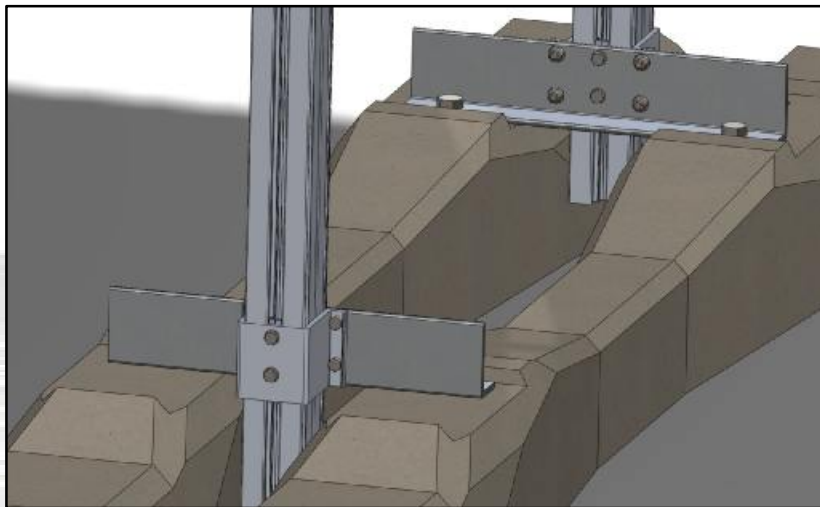


4 Outdoor system



3.1 Site, Substructure / ...

Connection to rail sleepers



A 3D CAD rendering of a mechanical assembly, possibly a mold or a connector. It features a central vertical component with a circular opening at the top, flanked by two side components. A blue arrow points from the left towards the central part of the assembly.

Thank you very much for devoting your attention

PROFINESS