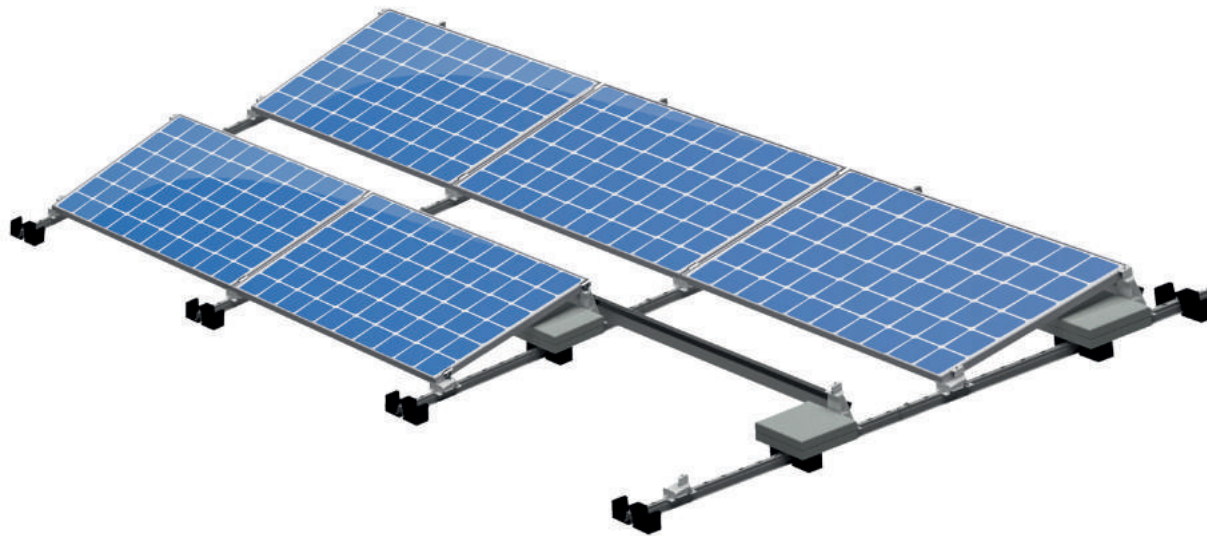


ValkPro+

Installation manual

Use in combination with the Project Report of the ValkPVplanner



Van der Valk Solar Systems
Solar Mounting Systems



Please Note

- This manual is not project specific.
- This manual is not legally binding.
- No rights may be derived from this manual.
- Use this manual in combination with the ValkPVplanner project report.
- Check 'Datasheet Cable management' for cable suggestions.
- The system can be placed both in the middle zone and edges of roof.
- Side panels are optional in the middle zone and mandatory in the edges of the roof.
- The need for mass carriers depends on the amount of ballast needed or when side panels are used.

Table of contents

Disclaimer	Page -
Recommended tools for installing ValkPro+	Page 00
Required materials	Page 00
Placing roof carrier rows	Page 01
Placing ballast	Page 02
Mounting side panels	Page 03
Placing panels	Page 04
Mounting back panels	Page 05

Table of contents

ValkPro+

Van der Valk Solar Systems
Solar Mounting Systems



Disclaimer

This installation manual must be seen in addition to the project report which shows you specific information about your project like a project drawing and ballast plan for flat roofs.

The project report is a result of the calculation tool, the ValkPVplanner. This online calculation tool and/or the project reports derived from this tool were composed with the greatest possible care. Nonetheless, it is possible that some information might not be entirely correct as the results for each project report can be based on default values, which values always need to be checked by you. The instructions provided in this project report must be observed at all times. All applicable standards and appendixes have been integrated in this online calculation tool.

All current structural, safety and building regulations must be observed. Solar mounting systems installed on roofs will be exposed to wind and snow. The building in question will be subject to a load as a result of the PV system. A design calculation must be used to establish whether or not the building will be able to withstand the extra load. Where necessary, modifications need to be made.

Flat roof systems should either be attached to the roof or need to be supported by ballast, to make sure that the system is unable to be lifted or tipped over. The ballast specified in the ValkPVplanner project report will be vital to ensure that the mounting system can be used. Flat roofs with an angle above 5 degrees must be attached to the roof.

The calculations in the online calculation tool do not take into account obstacles in the near surrounding like high buildings, cliffs and mountains. Restrictions also apply for the position of the system on a roof. The solar panels must be installed at a certain distance from edge of the roof as shown in this project report and the installation manual.

The standard warranty for pitched roof, flat roof and ground mount systems is 10 years, which can be extended under certain conditions. The guarantee provided is subject to the guarantee conditions stated in the general terms and conditions stipulated by Van der Valk Solar Systems B.V. Our terms and conditions shall apply to all our products and can be found on our website: www.valksolarsystems.nl.

Van der Valk Solar Systems B.V. does not accept any liability for any direct and/or indirect consequences of any act (or omission) ensuing from the information in or the failure to observe the instruction provided in the project report and the installation manual and for possible incorrect results resulting from the use of this online calculation tool which was made available to you.

The mounting system is a product that has been produced by:
Van der Valk Solar Systems B.V.,
Registered with the chamber of commerce for
Haaglanden under number 27355116.
Internet: www.valksolarsystems.nl

Issue date: july 2017:
Version: General user instructions v2 EN

Van der Valk Solar Systems
Solar Mounting Systems

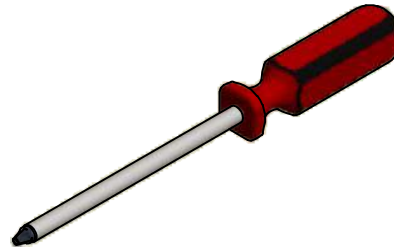


Recommended installation tools

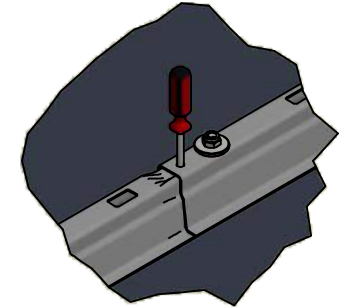
ValkPro+ South



Cordless drill
(for socket 13 and bit T-30)



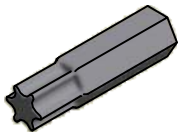
Screw driver (for aligning roof carriers)
(Shaft Ø4-6mm)



Alignment key (for aligning roof carriers)



Socket 13



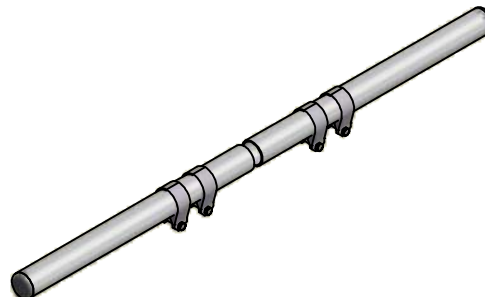
Torx bit T-30



Disassembly key (743000)



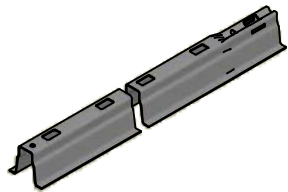
Measuring tape



Alignment set (743220)
Installation: Page 01

Required Materials

ValkPro+ South



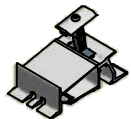
Roof carrier profile (741801500)
Installation: Page 01



Back foot middle (724650)
Installation: Page 01



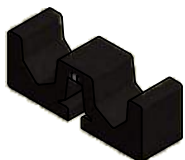
Back foot side (724651)
Installation: Page 01



Front foot middle (724660)
Installation: Page 01



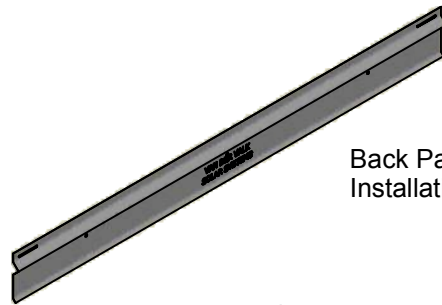
Front foot side (724661)
Installation: Page 01



Rubber tile carrier (729625)
Installation: Page 01



Coupling set (774221)
Installation: Page 01

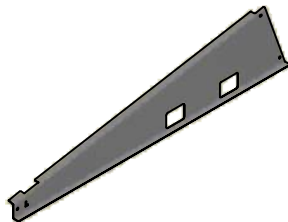


Back Panel (742510)
Installation: Page 05

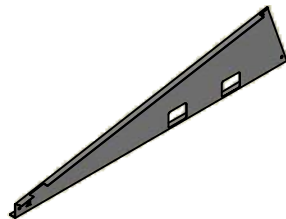


Thread forming bolt T30 (773320)
Installation: Page 03&05

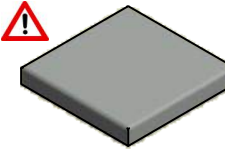
Optional:



Side panel - left (742530)
Installation: Page 03



Side panel - right (742531)
Installation: Page 03



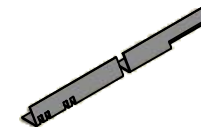
300x300x45mm

Tile each 9kg (7506303045)
Installation: Page 02

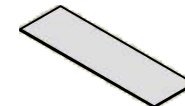


300x150x45mm

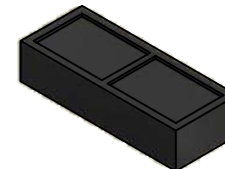
Tile each 4,5kg (7506301545)
Installation: Page 02



Mass carrier (742550)
Installation: Page 02



PVC underlay (729613)
(To be placed under Rubber tile carriers on PVC roofs.)



Rubber elevation block (729627)
(To be placed under Rubber tile carriers on roofs with gravel.)



Cable clamp (732001)

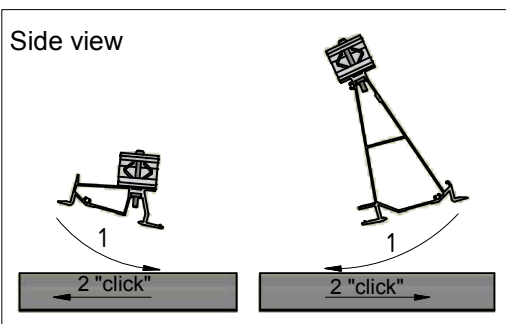


Attention! The required No. of tiles must always be placed under the system, only the delivery of the tiles by Van der Valk is optional.

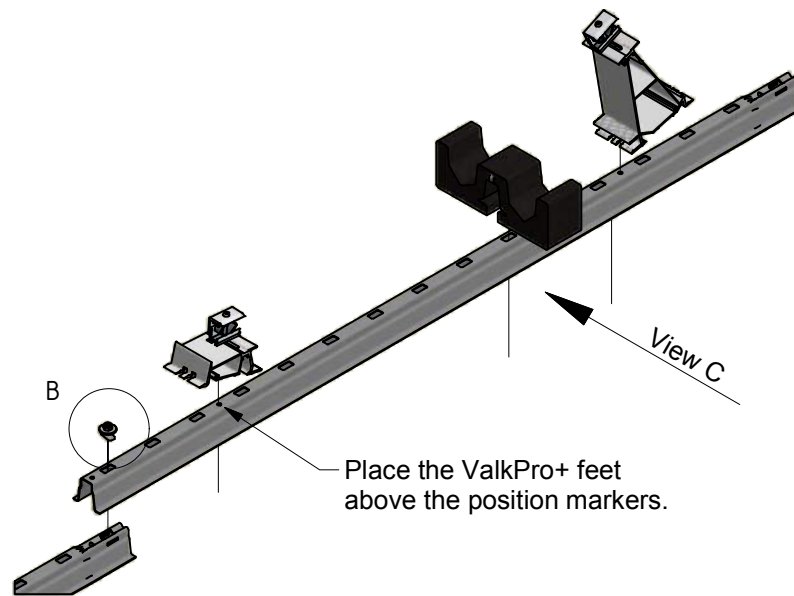
Valk Hint!

- 1) Pre-assemble the roof carriers with the rubber tile carriers and the aluminium feet first, before placing/aligning them on the roof.
- 2) The optional alignment tool can be used for spacing the rows on the right distance from each other.

Side view



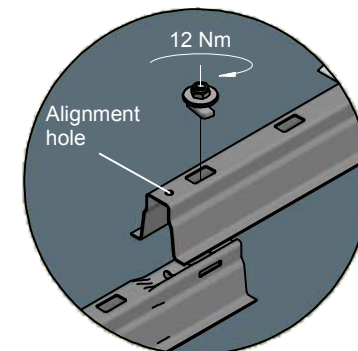
Detail A



VAN DER VALK

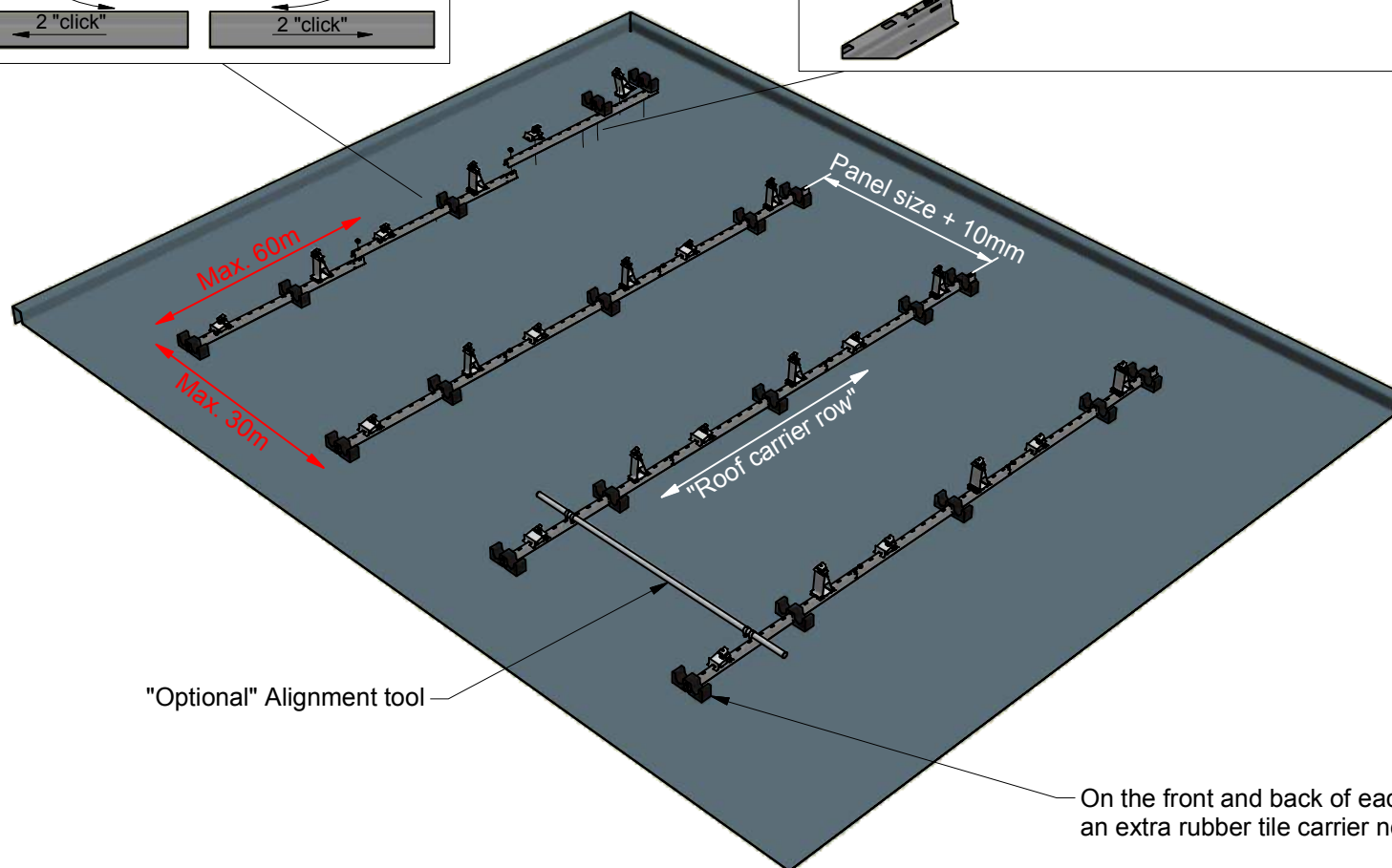
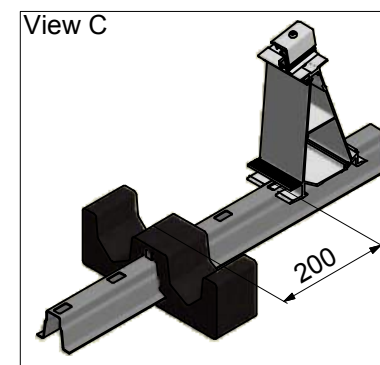


Detail B



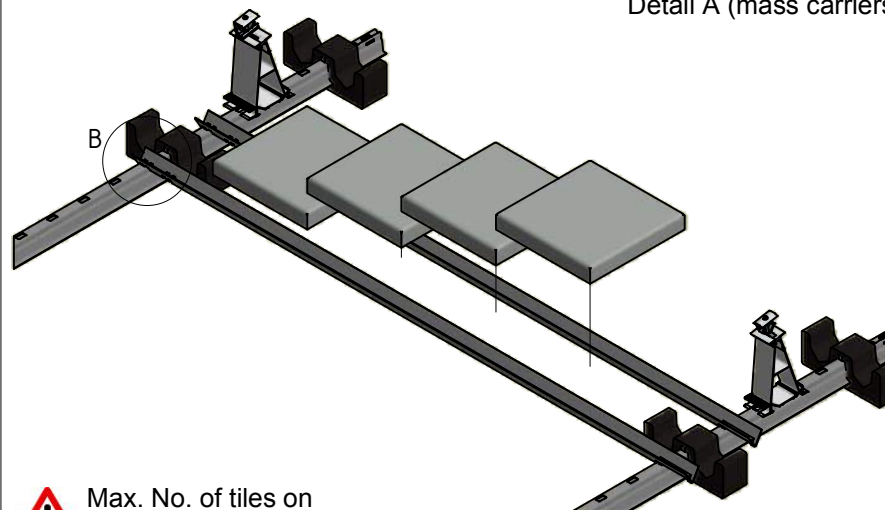
The groove of the bolt corresponds with the orientation of the bolthead!


View C



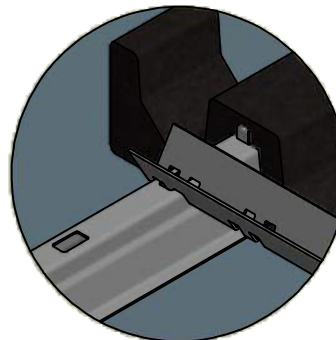


Detail A (mass carriers)



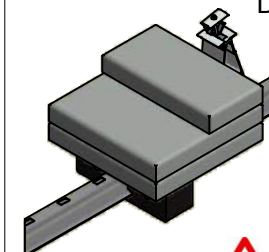
 Max. No. of tiles on mass carriers: 10 tiles


Detail B



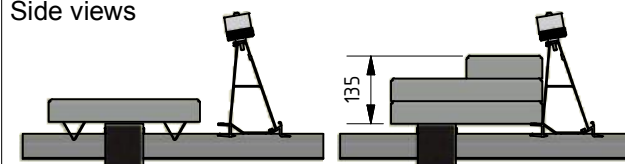
Place the mass carriers on top of the roof carriers. (only if needed)

Detail C (rubber tile carriers)



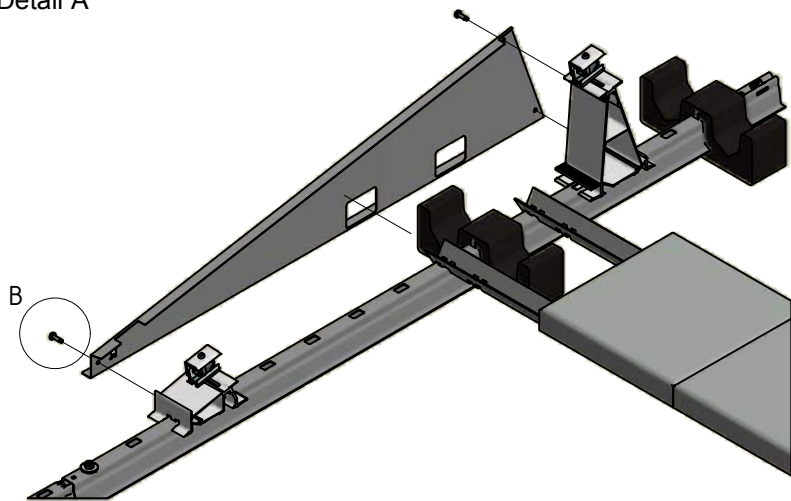
 Max. No. of tiles on rubber tile carriers: 2,5 tiles

Side views

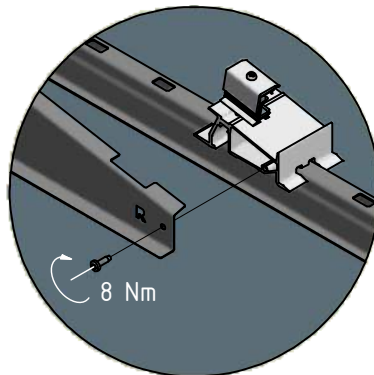


Check the Project report from the ValkPVplanner for the required ballast.

Detail A



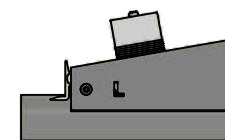
Detail B (rotated view)



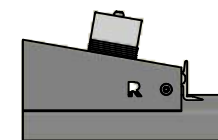
VAN DER VALK



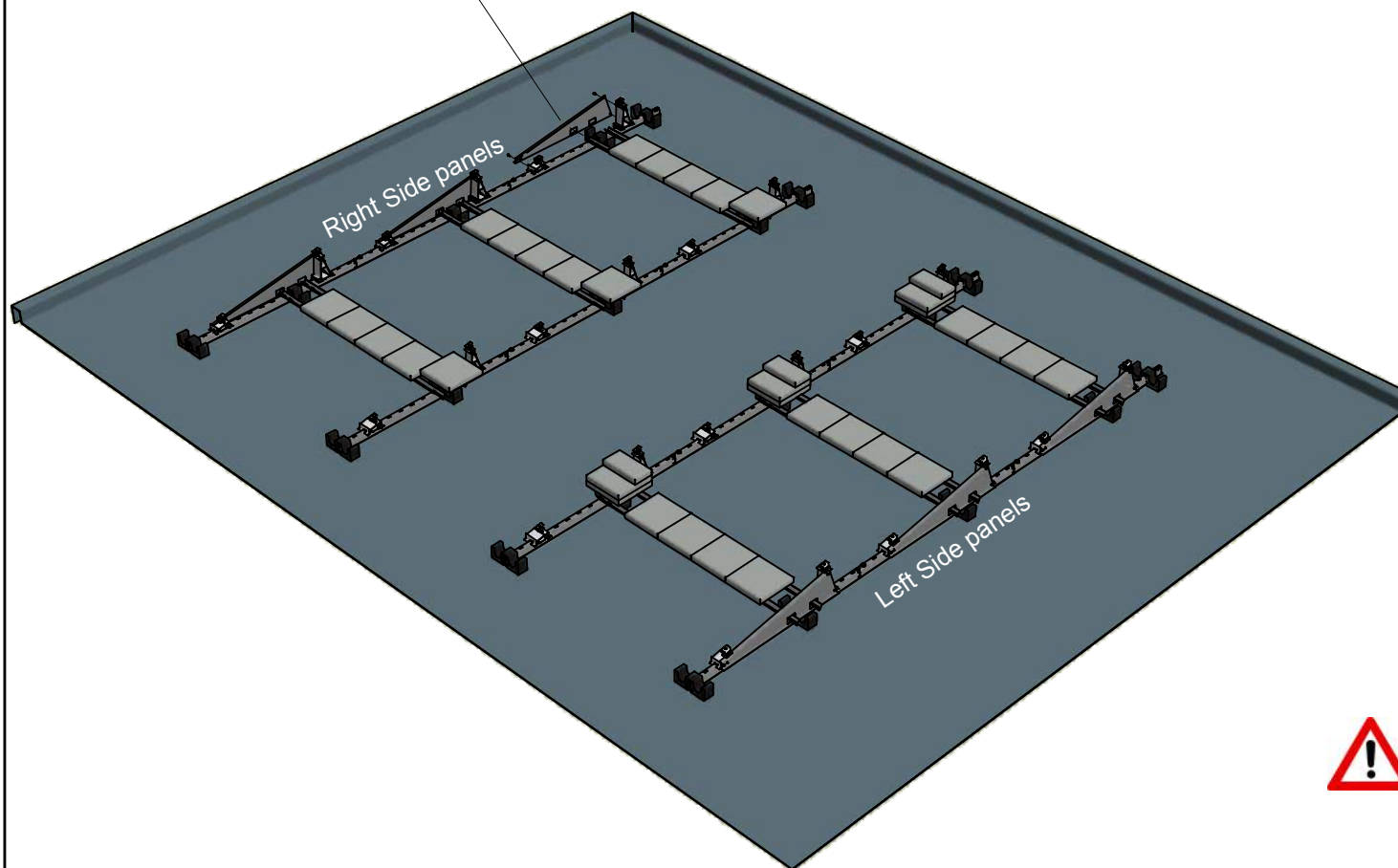
Side views



Left side panel



Right side panel

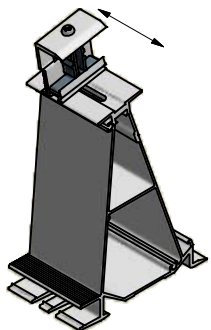


Attention! Please be aware of the following facts:

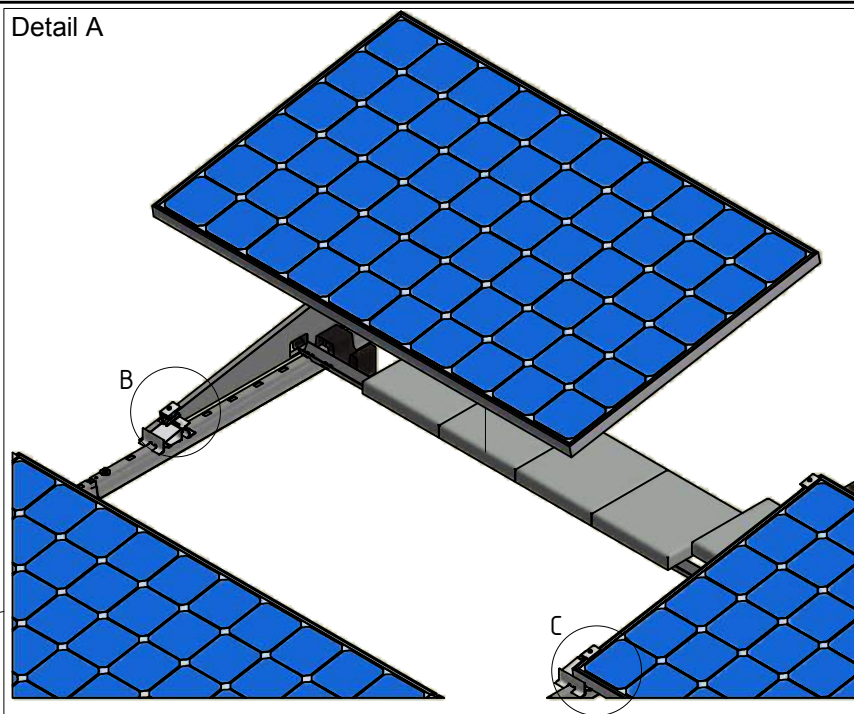
- panels that are placed in the edge and corner zones must have Side panels attached to them.
- Panels with side side panels attached to them will have mandatory mass carriers if extra ballast is required.

Valk Hint!

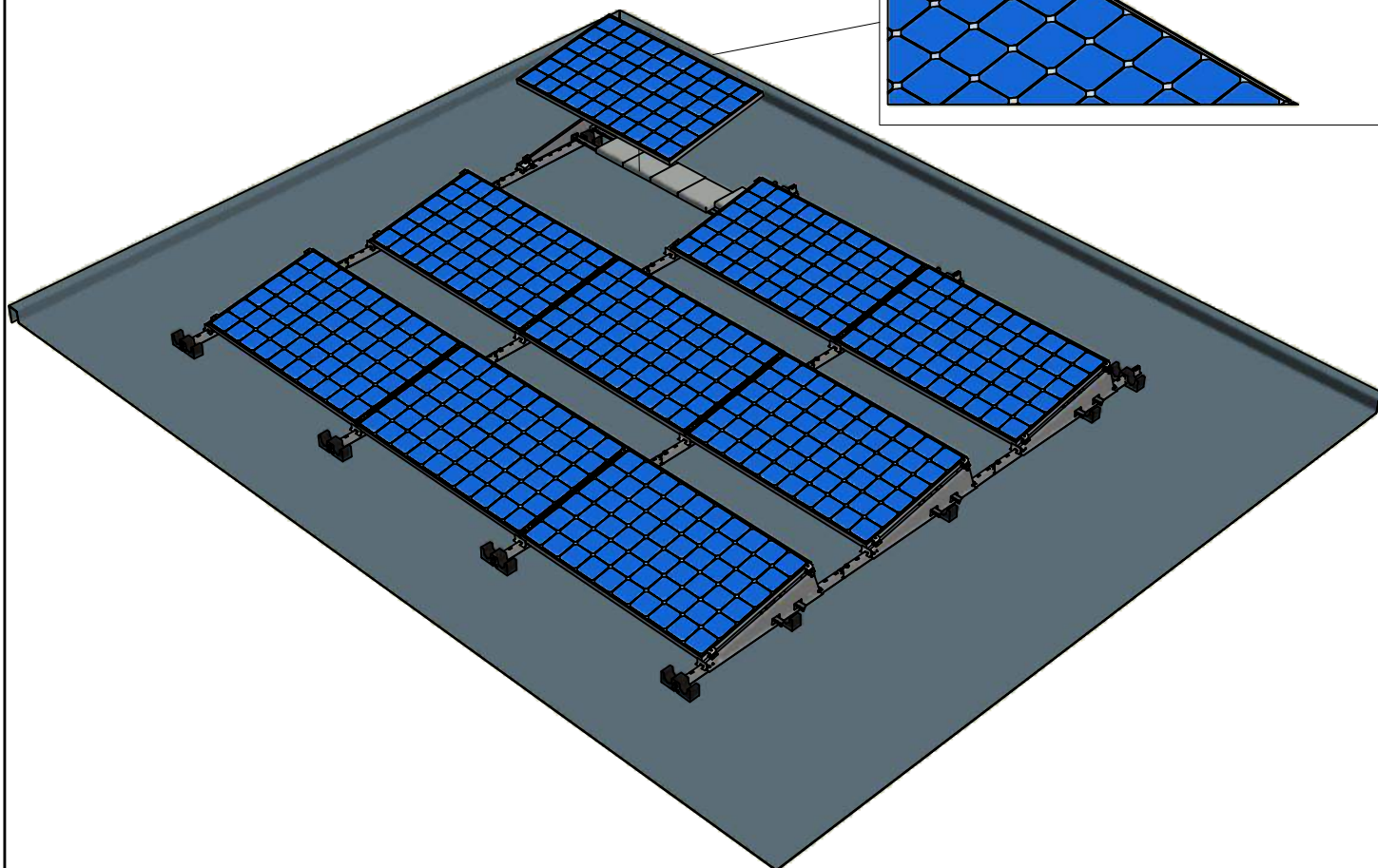
Use the oblong holes to make space for the solar panel.



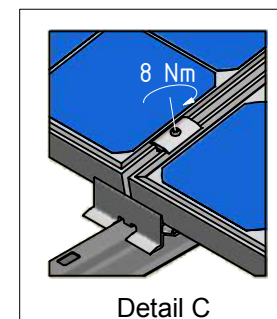
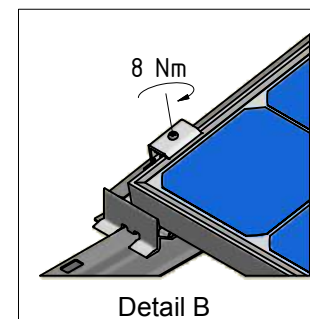
Detail A



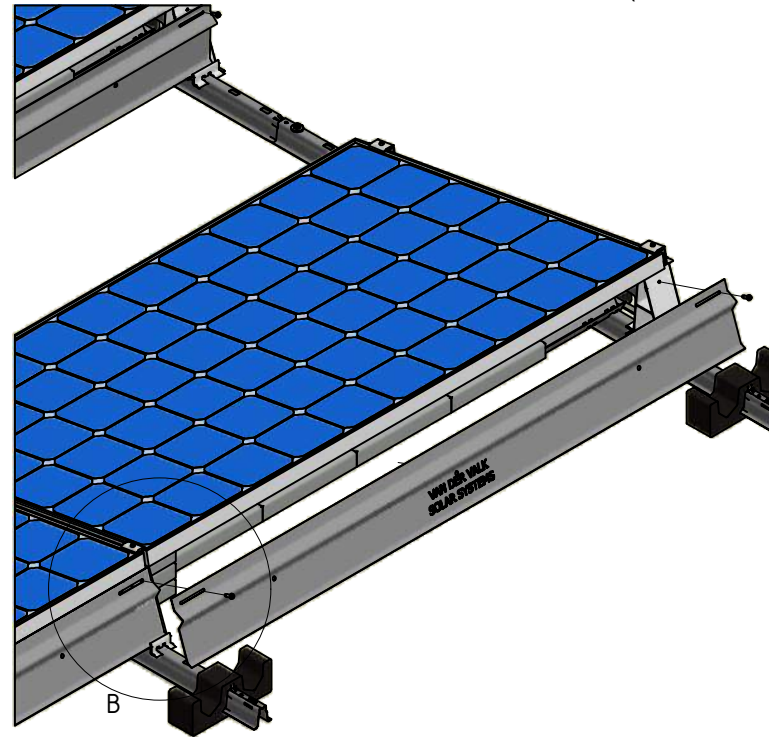
VAN DER VALK



Same installation for
the back feet.



Detail A (Rotated view)

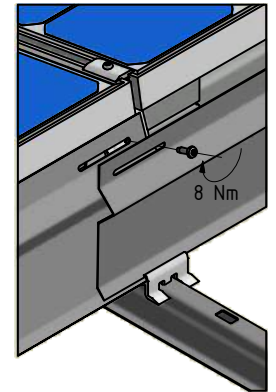


VAN DER VALK



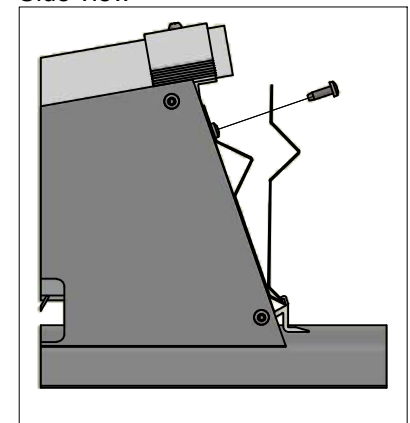
SOLAR SYSTEMS

Detail B



The back panels that overlay each other are fastened with 1 threadforming bolt.

Side view



Van der Valk Solar Systems

Van der Valk Solar Systems is one of the fastest growing companies in the solar industry. It concentrates solely on developing and manufacturing solar panel mounting systems for pitched roofs, flat roofs and open fields. Van der Valk Solar Systems also has an office and warehouse located in the UK.

Our mounting systems are developed and manufactured in our own factory in the Netherlands and are distinguished by their versatile application, very fast mounting and top quality. They comply with the latest Eurocodes and thus meet the requirements set by banks and insurance companies for solar systems.

Van der Valk Solar Systems works closely together with Van der Valk Systemen, which since 1963 has upheld an international reputation in the field of mobile systems and fixation components.

Our joint industrial complex includes 20,000 m² of offices and industrial buildings. By using modern machinery and the latest technology, products and systems can be developed, manufactured and tested quickly and precisely.

Developer and producer of solar mounting systems for:



Pitched Roofs



Flat Roofs



Open fields



Greenhouses



Water Features

Please contact Van der Valk Solar Systems, your installation company or project organisation for full information.

Why choose Van der Valk Solar Systems?

- Innovative systems developed in compliance with applicable worldwide standards
- Fast and reliable deliveries thanks to modern machinery and large stocks
- System supplier since 1963
- Free software for project design and project calculation
- All systems applicable to any type of roof or surface
- Quick assembly thanks to premounting of essential components
- All systems available in portrait as well as landscape configuration
- Various systems also available as ready-to-use kits



Zwartendijk 73, 2681 LP Monster
Nederland
T +31 (0)174 21 22 23
F +31 (0)174 24 27 27
info@valksolarsystems.nl
www.valksolarsystems.nl

Innovation House, Discovery Park
Ramsgate Road, Sandwich CT13 9FF
United Kingdom
T +44 (0)1304 897658
info@valksolarsystems.co.uk
www.valksolarsystems.co.uk

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