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Renusol Europe GmbH

Renusol New Products / Solutions

Renusol
Mounting Solutions
New developments

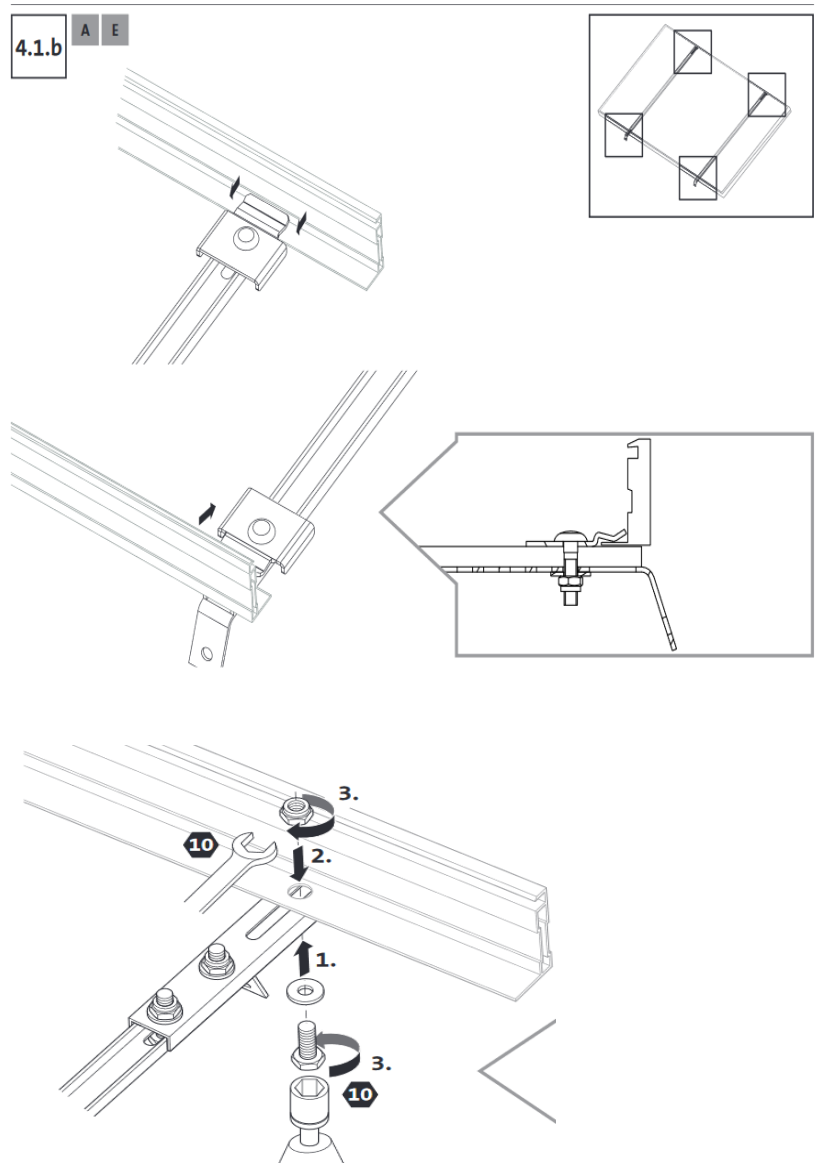
www.renusol.com

Cologne, October 2020

New developments

1. The Rear grip clamp for CS+

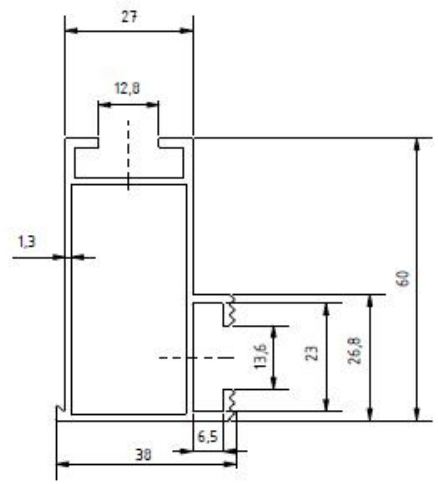
- The Rear grip clamp for CS (R 420023) + enables the mounting of solar modules which do not have mounting holes in their frames on the ConSole.
- PV-Modules without mounting holes or modules which have the module holes on unfavourable positions (e.g. 72 cell modules) can be mounted with this item. This was not possible before with our CS+ solution. Due to that the classical (iconic) system Renusol CS+ can be used in even more cases.



New developments

2. 60 mm rail VS+ mounting rail 60 x 38 mm

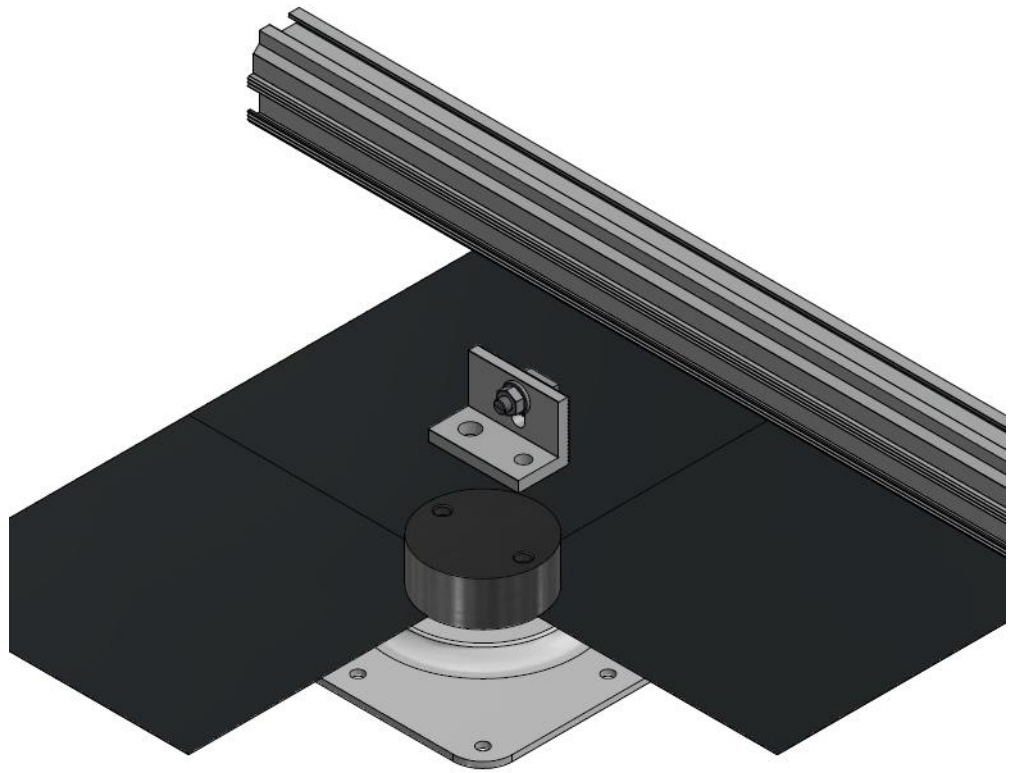
- It is the VS+ mounting rail 60 x 38 mm (R 400535) . The profile is **10 mm higher** than our VS+ 50 mm rail.
- A new mounting rail, usable with roof hooks, hanger bolts and alternative fixing points (e.g. CWL Products, Nicholson Rooftrak ™).
- We provide it in the **length of 3,3 m**.
- Due to the higher profile the new rail has a 60 % higher load bearing capacity. This has two effects. A) **Projects that were not possible become possible** B) **Projects become cheaper and faster due to lower amount of necessary fixings**. A) For projects with extremely high snow / wind loads , the 60 mm rail can provide a good solution, in case the 50 mm rail would have had bearing capacity problems. B) In combination with fixing points and roof hooks with very high load capacity this rail makes it possible to reduce the amount of necessary fixing points, as the rail can span wider.



New developments

3. Universal Fixing points implemented in PV-Configurator

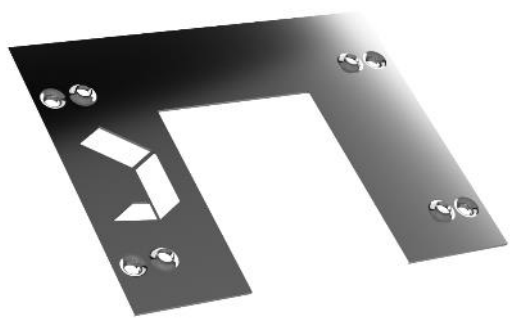
- Renusol works together with roof products manufacturers. One of them being Nicholson from the U.K. For bespoke projects. Renusol products are combined with Nicholson fixings. One example would be the combination of our Trisole (TS+) with Nicholson ROOFTRAK™ fixings.
- Renusol has implemented the design of universal fixing points in our PV-Configurator 3.0 software.
- The amount of necessary fixing can be calculated accurately according to local wind and snow load conditions and country specific codes. The design process is faster. The accuracy and quality gets higher. The amount of fixings is exact, overdesign is avoided, which saves material and labour cost on site. An especial economic solution can be reached with the new Renusol 60 mm rails, see above.

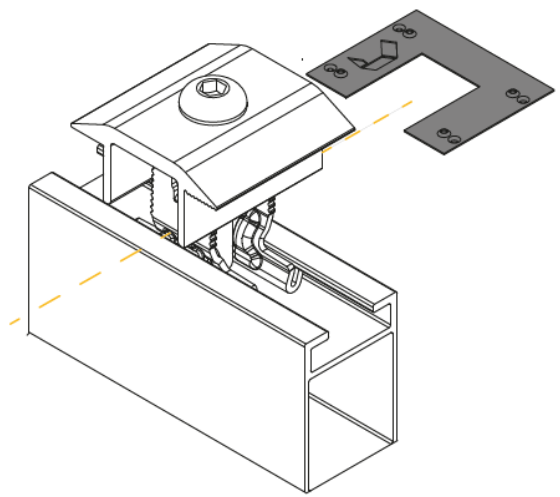


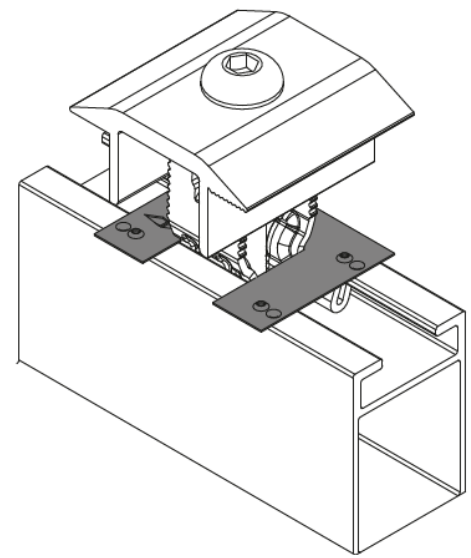
New developments

4. P-Clip for Module grounding and lightning current protection

- The equipotential bonding clip is inserted under the clamps between the module and the mounting rail and creates a conductive connection between the solar modules and the substructure.
- Comprehensive testing by TÜV Rheinland to ensure grounding and lightning current carrying capacity
- No influence of aging and corrosion
- In accordance with IEC regulations
- Can be used with all Renusol mounting systems







New developments

5. Eco Ballast Set for longer modules

- The **ECO Ballastset FS 2100** mm consists of L profiled rails , stainless steel cable straps, stainless metal screws and PE protection pads.
- Until now we had only available the ECO Ballast set FS (520501) with a length of 1750 mm. The maximum possible module length with that option has been 1770 mm. With the new Eco Ballastset FS 2100 mm (520502) we can cater modules up to a length of 2120 mm. This is very important as the module sizes have increased in the recent time, see mailings before.
- Further advantages: Ballast is hidden, Ballast is secured (with metal cable straps), in low wind zones no streamliners are required. The PV-Configuraror informs automatically if streamliners can be omitted. It is very easy to install and adjustable to suit all types of ballast.

- Hidden ballast
- Ballast is secured (metal cable straps)
- No streamliners required (depending on wind zone)
- Up to 50 m building height
- Easy to install
- Adjustable to suit all types of ballast

New developments

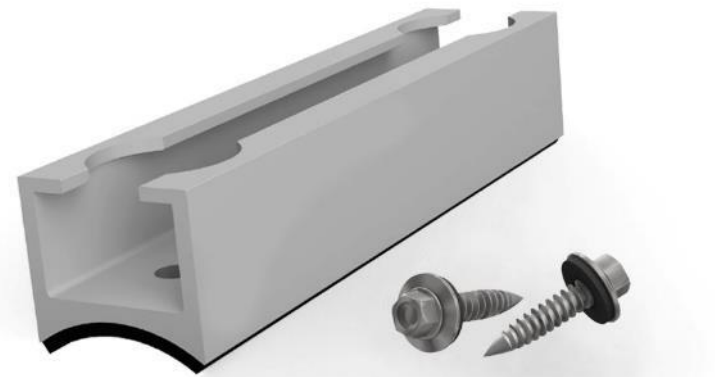
6. New FS18 Streamliner

- We have introduced new wind deflectors (we call them Streamliners) for our flat roof system FS18-S. The two new products are 500454 Streamliner FS18-S 1800 mm and 500455 Streamliner FS18-S 2150 mm. The two different lengths are necessary to cater for 60 cell and 72 cell modules. The new streamliners will replace the items 520431 and 520432.
- The streamliners used before with the FS18-S systems consisted of two parts. The streamliner itself and a bracing plate. With the new design it was possible to reduce it to one part. This reduces the amount of work needed on site and helps to minimize the parts that have to be held on stock by our wholesalers.

New developments

7. MS+ corrugated sheet

- It is a product for application on metal roofs, especially corrugated roofs. For this application Renusol has offered in the past a solution consisting of two parts. The corrugated adapter and the MS+.
- Now Renusol has merged the two parts in one: the MS+ corrugated sheet radius 24 (420411). This part can be used on corrugated sheets with a radius of 24 mm. The attachment to the roof happens with our high quality metals screws which are self cutting and sealing.
- Reducing parts is always great. It saves mounting time on site, makes installation easier, as the alignment of the parts is easier. Furthermore we have achieved a price reduction of appr. 13-17% (depends on quantity).



New developments

8. ECO High roof hook (420166)

- A new roofhook from Renusol. Based on the geometry of our Roof hook stainless steel (420150) and Eco Basic (420165). In comparison to the Eco Basic Roof hook, the distance to the roof of the horizontal arm has been increased by 10 mm. This gives more flexibility with higher tiles.
- Dense hole pattern in the base plate, therefore the attachment is possible also on thin rafters. 6 mm self drilling screws avoid splitting of the rafters. Material is galvanized steel, this helps to achieve a very attractive price. We recommend to use this roof hook in mild to medium corrosion environments. (up to corrosion category C3 according to EN ISO 12944.)

New developments

9. UK Plain Tile HL (420184)

- Due to the huge success with the UK Roof Hook Plain and the necessity for even higher load capacities we decided to come up with a new roof hook. A higher load capacity was needed as we were facing more projects in higher snow load areas like Scotland.
- In order to improve the load capacity we did two things. We increased the thickness of the roof hook. 8 mm instead of 6 mm is now the thickness of the arm. Furthermore we are using steel with a higher strength. S460 instead of S355. The number indicates the yield strength.
- What is the benefit: A big gain in the load capacity compared to the before exiting UK plain roof hook. 130% increase for suction loads (wind), 112% increase for pressure loads (self weight and snow) and 53% more capacity for shear loads (combined loads).
- We recommend to use this roof hook in mild to medium corrosion environments. (up to corrosion category C3 according to EN ISO 12944.)

New developments

10. Module Data Base PV-Configurator 3.0

- Renusol has introduced an extensive new module data base in its PV-Configurator 3.0 tool. It contains more than 110.000 modules from all established module manufacturers.
- What is the benefit:
- The user gets access to all relevant module data with a comfortable search option. He does not have to input any more the module data by himself. That makes the whole design process even more faster and easier.
- The module data base is updated on a regular basis, so the accuracy is very high.
- Modules can be marked as favourites and appear in the future in the top section of the list. This is very useful when the customer has a common module, that he wants to use for many projects.
- The module data is editable. So if the module manufacturer changes for a delivery of modules some of the module characteristics, it can be easily and quickly changed by the user himself. The regular update of module data happens in the module data base itself.
- Apart from the mechanical data (that is used today for the configuration) we have also access to the electric parameters of the module. This will be used in the future for nice functions which take care of the electric side of the PV-System. Stay tuned.

New developments

11. Roof hook heavy load (420170)

- A new roof hook for high wind and snow loads.
- What is the benefit?
- Compared to our Roof hook aluminium we have achieved the following improvements:
- -the arm is a little bit longer, so that longer tiles can be covered.
- -hole pattern is made for 8 mm screws. This makes it possible, to use only two 8mm screws instead of three 6 mm screws. This makes the mounting process faster and easier. It has to be noted that this works only with rafters who are wide enough (min. 60 mm). This is the case in many regions of Germany, Austria and Switzerland.
- -the hole pattern is more dense, therefore more flexibility in attachment options
- - 10% more load capacity compared to our strongest roof hook before
- The roof hook is made out of hot dipped galvanized steel and we recommend to use this roof hook in mild to medium corrosion environments. (up to corrosion category C3 according to EN ISO 12944.)

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