



WEBINAR

Maximum flexibility – The new AeroFix G3 for flat roofs.

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Agenda

pv magazine Spotlight

- Wind tunnel test
- Systems
- General requirements
- Components
- Module support
- Cable laying

www.ibc-solar.com/AeroFixG3



Wind tunnel test

Perfect aerodynamics.





Systems

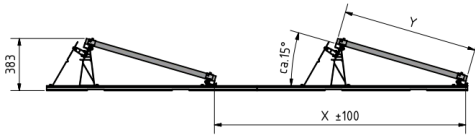
6 setup variants.



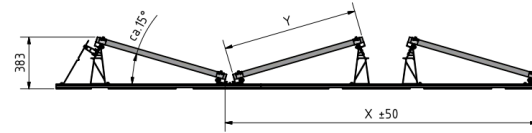
AeroFix G3 systems

- Inclination angle of the module in 15 °, 10 ° (landscape) and 8 ° (portrait)
- Each system in south and east-west orientation → 6 systems

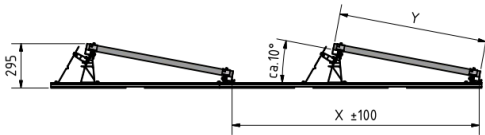
AeroFix G3 15-S



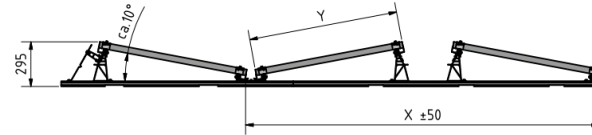
AeroFix G3 15-EW



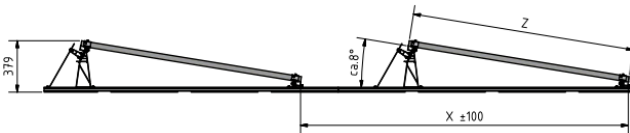
AeroFix G3 10-S



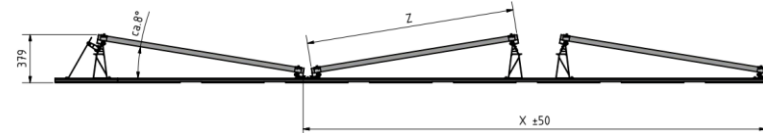
AeroFix G3 10-EW



AeroFix G3 8-S



AeroFix G3 8-EW



General requirements

That's how it works.



General requirements

- Roof pitch 0°-10°
 - From 5% or 2,8° secure the system against thermal hiking
- Roof covering foil, bitumen, gravel, green roof
- Building height max. 35 m
 - Higher buildings only with IBC SOLAR approval
- Minimum field size 2x3 or 3x2 modules
- Maximum field size 20x20 m
- Module size
 - Length: 1500 – 2100 mm width: 980 – 1150 mm
- Only one tool plug nut SW10
 - Clamp for potential equalization TX40
 - G3 Module clamp TX40

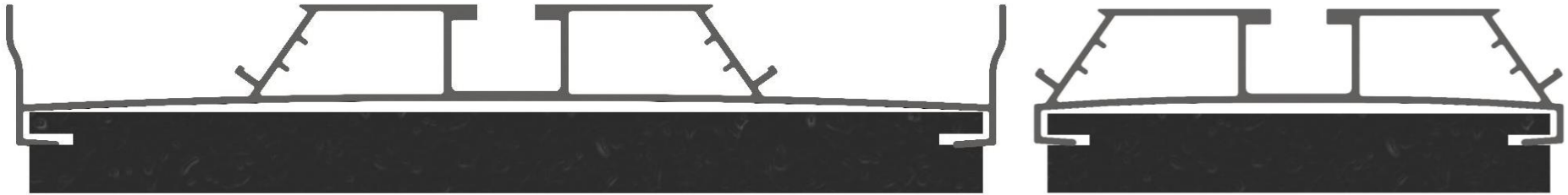


Components

Less is more.



Base rail



Wide base rail

184 mm wide base rail with building protection mat / ak

Narrow base rail

100 mm narrow base rail with
building protection mat / ak

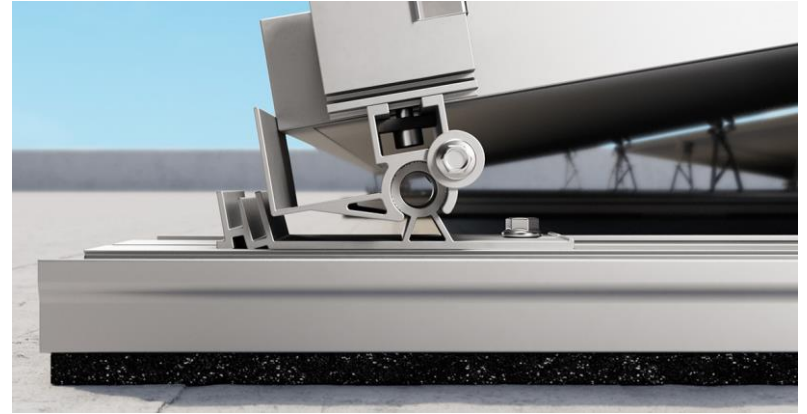
The base rail is curved in order to distribute the pressure load over the entire surface.



Base rail connector

- Position on the side of the base rail
- Fastened with a 6.3x16 drilling screw
- Narrow and wide rails can be combined

Supports



- All supports have a tilt joint
 - Full contact surface of the module frame

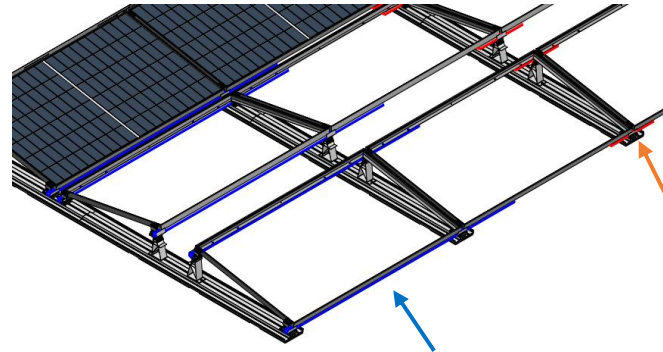
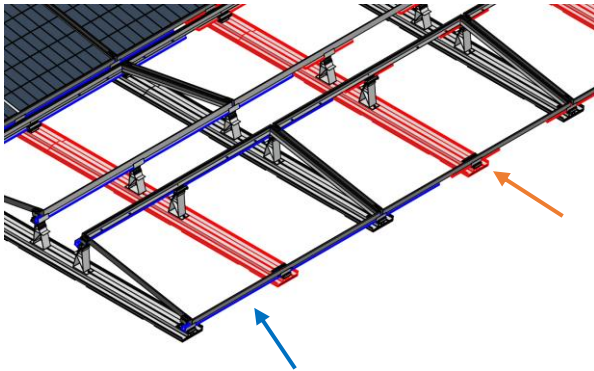
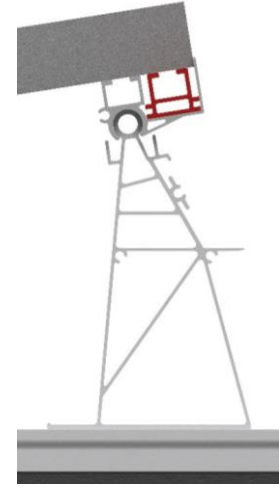
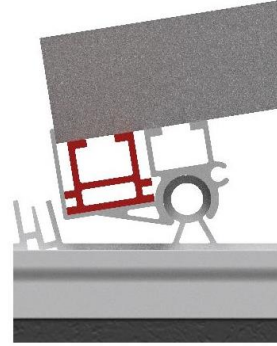
Module support

From small to large.



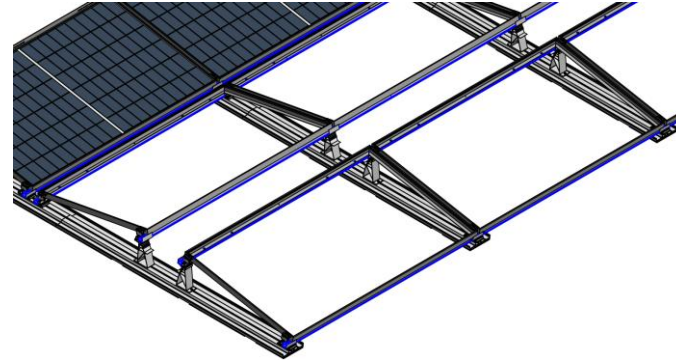
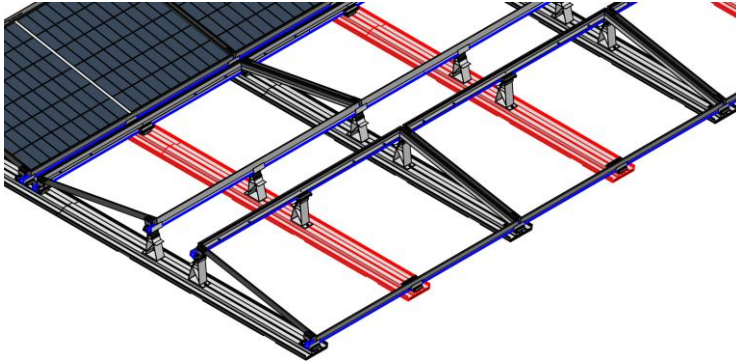
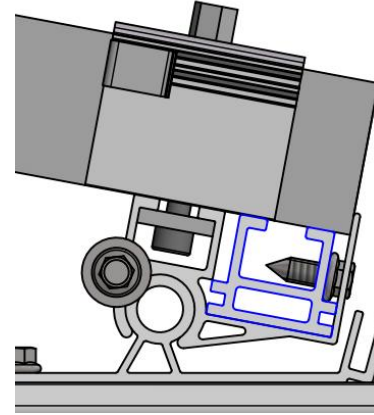
Landscape

- TF27-T short in the upper and lower support
- In each support where two modules are placed
- At the edge TF27-T 2250 mm (blue)
 - Only one-sided load on the edge support
 - Profile is placed also on next row support and cannot tilt away
- 3rd base rail with TF27-T short



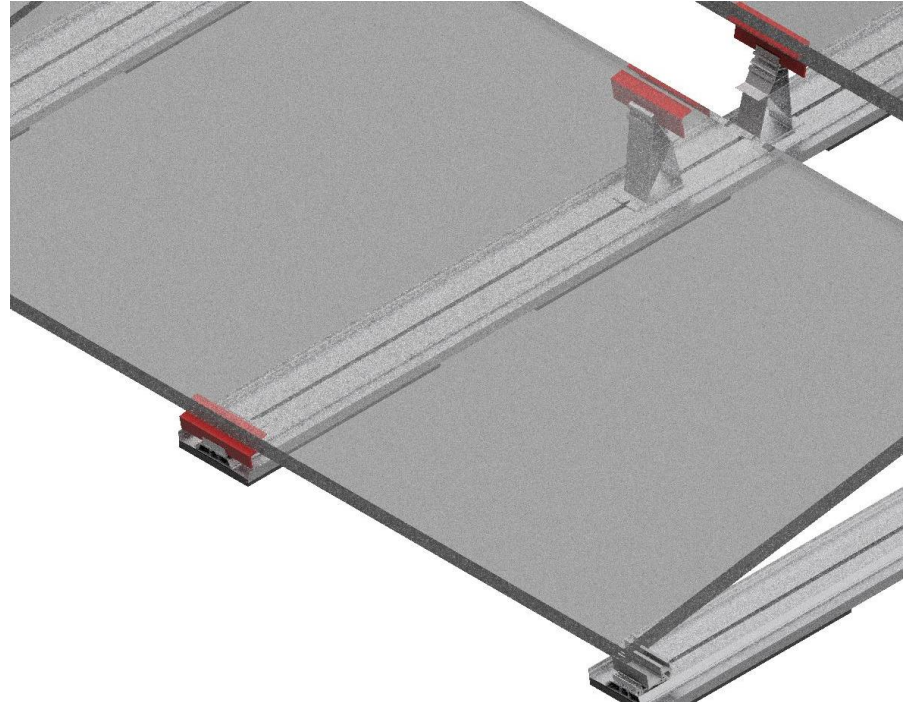
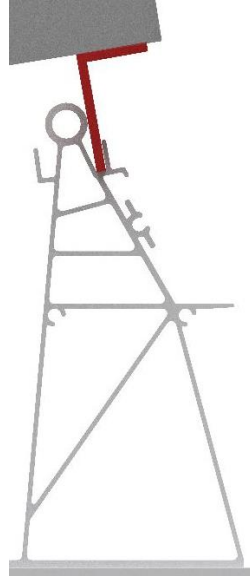
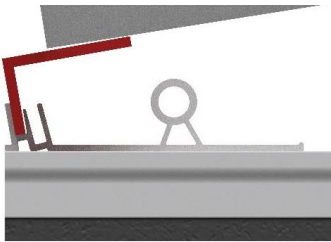
Landscape

- TF27-T long rails placed in each support
- Extension via rail connector
- 3rd base rail with TF27-T long rails



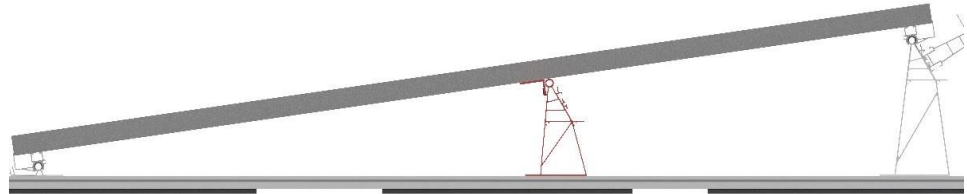
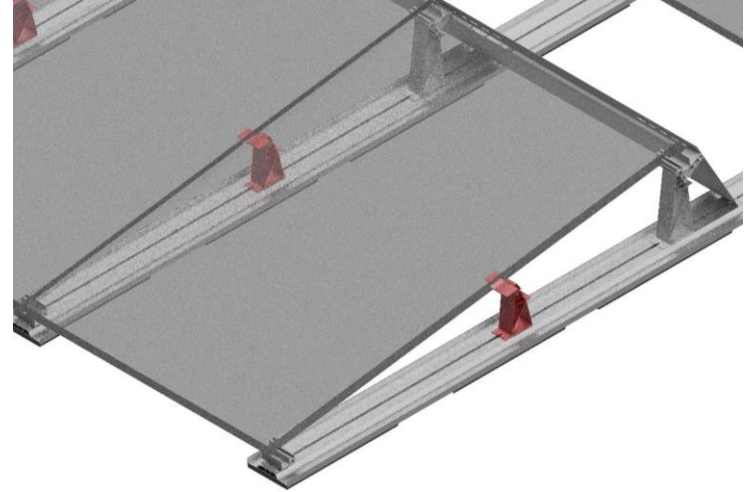
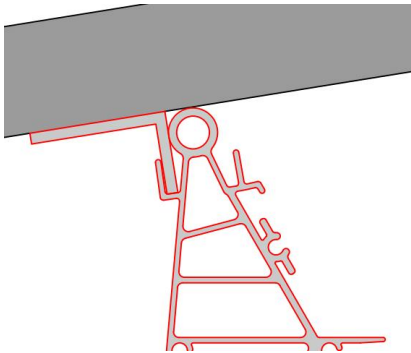
Landscape

- 3rd base rail with support Alu-L-Profile
- Alu-L-Profile is placed in the base supports



Portrait

- Base support positioned approx. in the middle on the same base rail
- Top support G3 10° base with Alu-L-Profile

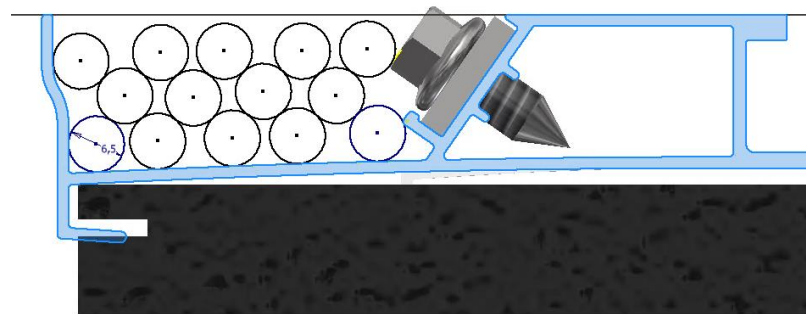
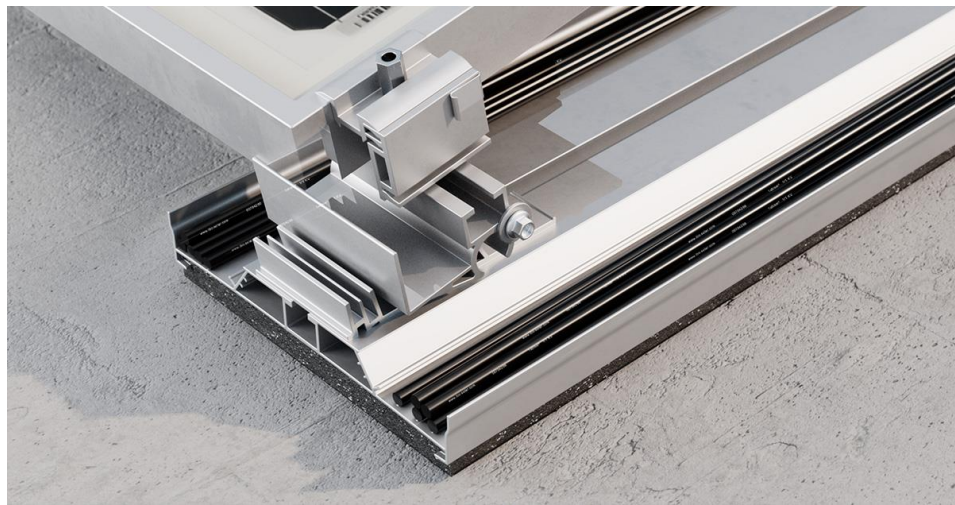


Cable laying

Practically integrated.



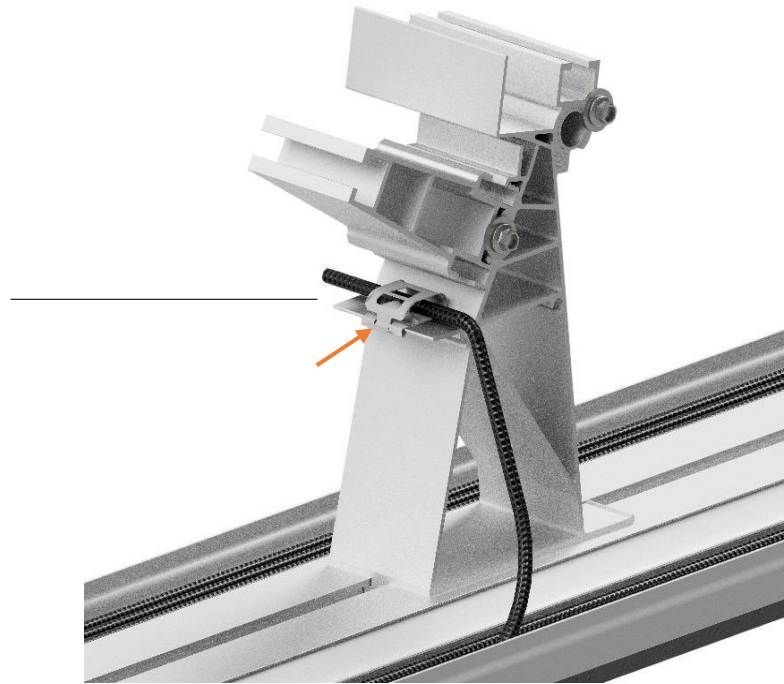
AeroFix G3 Base rail



Up to 14 x 6 mm² cables on one side

Top support

Cable clips can be attached to the supports.
Free choice to attach other things at the flap.



Thanks a lot and stay flexible.

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