

The Fifth Evolution - More than one step further.

The new flat roof system: Dome V



Your speaker for today



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- As roof-top specialists, we offer **effective and economical solutions** for roofs all around the world and provide **professional, fast and reliable support** for our customers in the solar industry.



130
EMPLOYEES



**GLOBAL
LOCATIONS**



**WORLDWIDE
DISTRIBUTORS***

> 7 GW

INSTALLED CAPACITY

* <https://k2-systems.com/en/contact/distributors-locations>

One company, two brands



K2 Systems

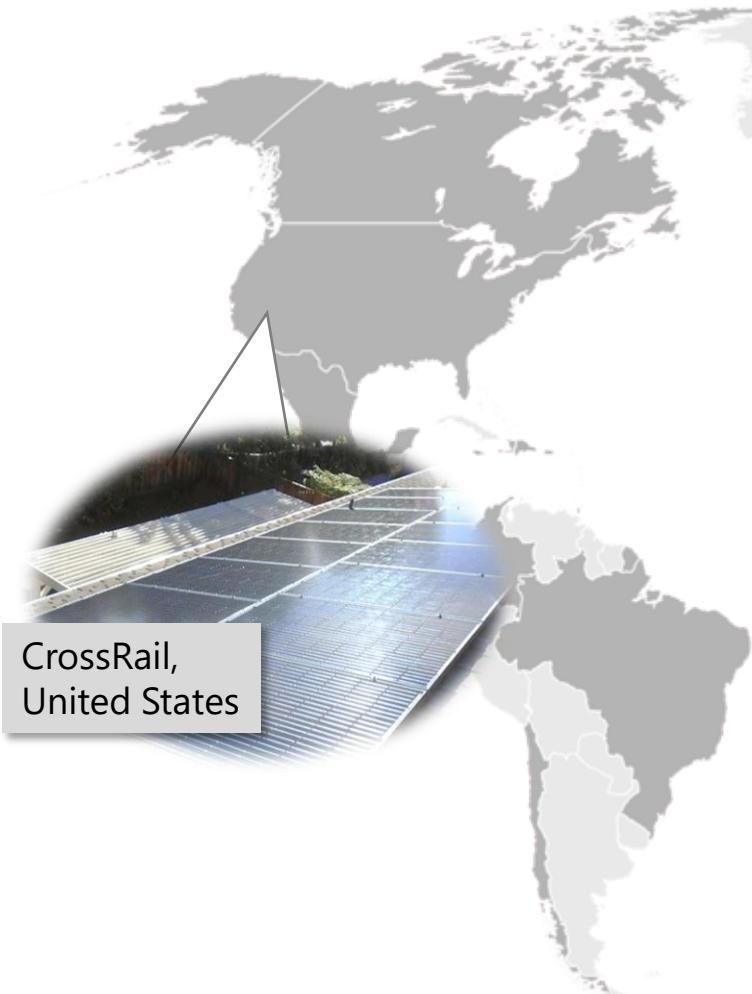
- Germany
- France
- Italy
- England
- South Africa
- Brazil

Everest Solar Systems

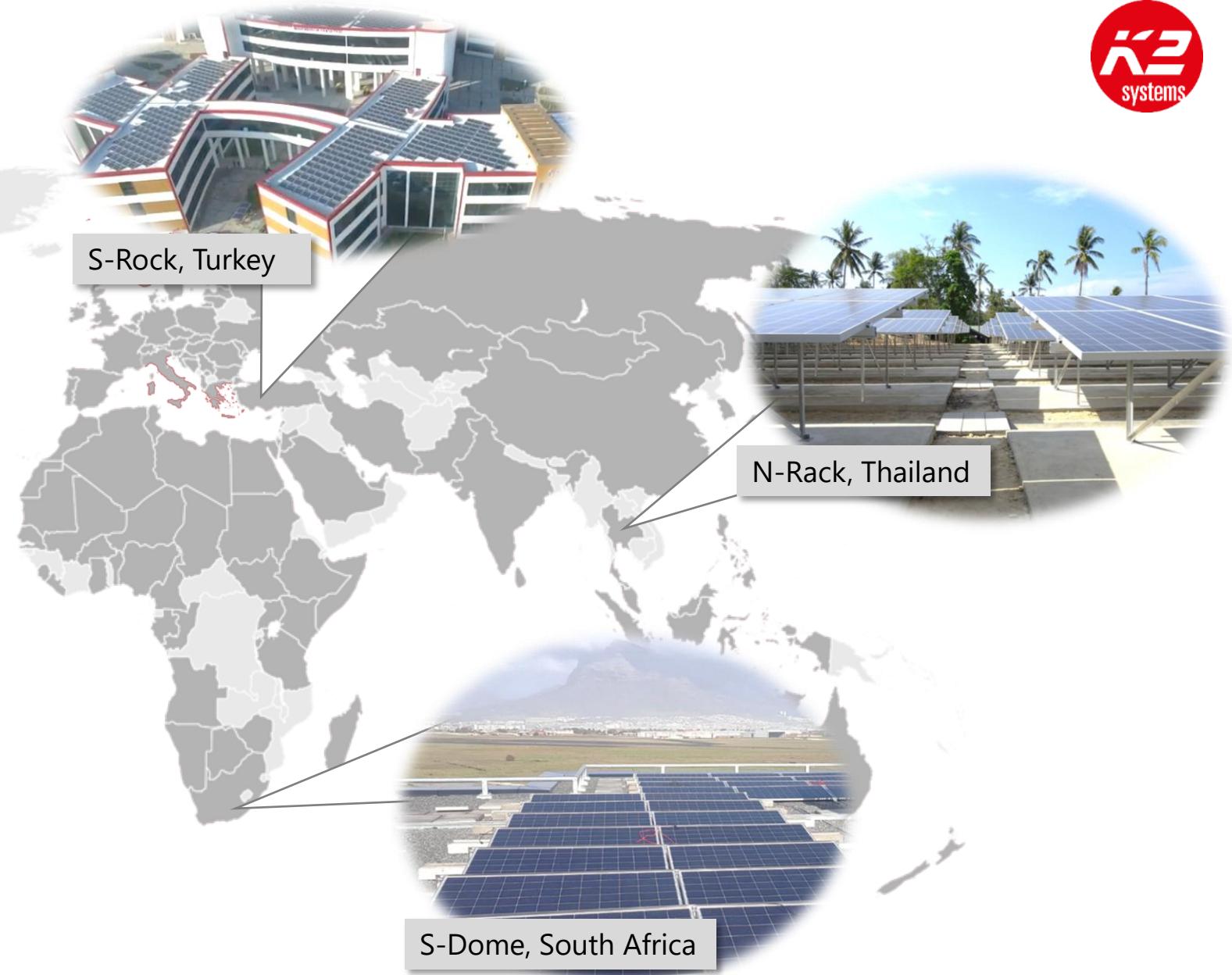
- USA
- Mexico



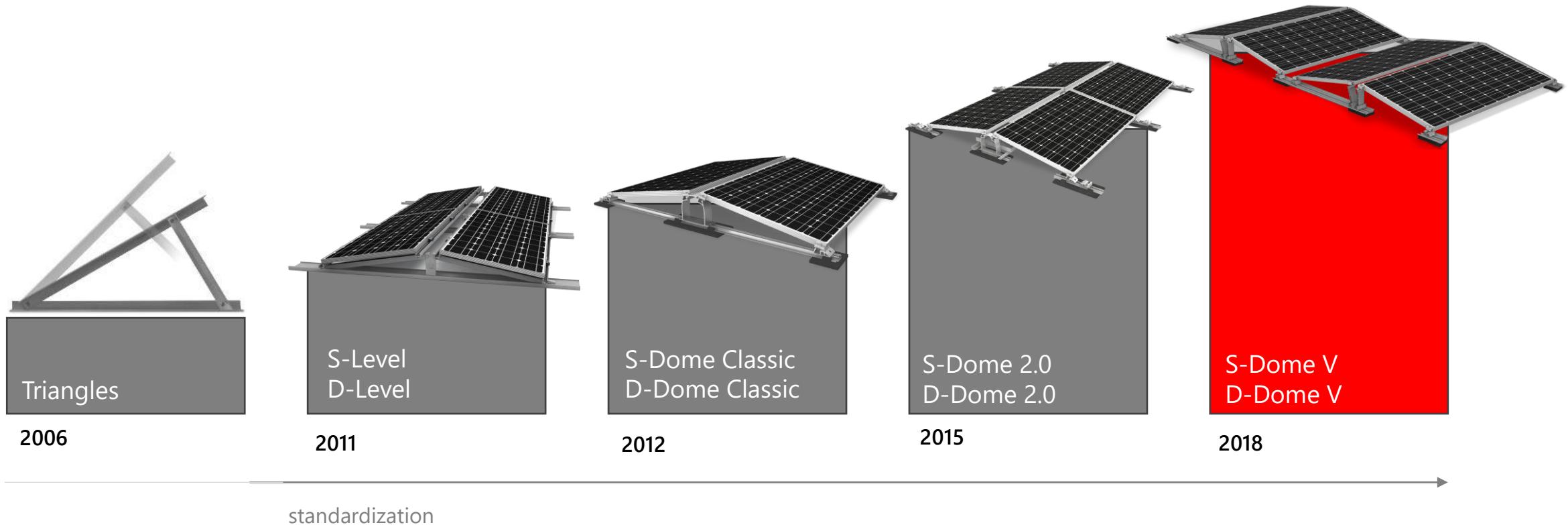
K2 systems installed worldwide



CrossRail,
United States



Dome V: The fifth evolution



Have a look on Dome V



S-Dome V

- ▶ Single-sided elevation: 10°

D-Dome V

- ▶ Double-sided elevation: 10°



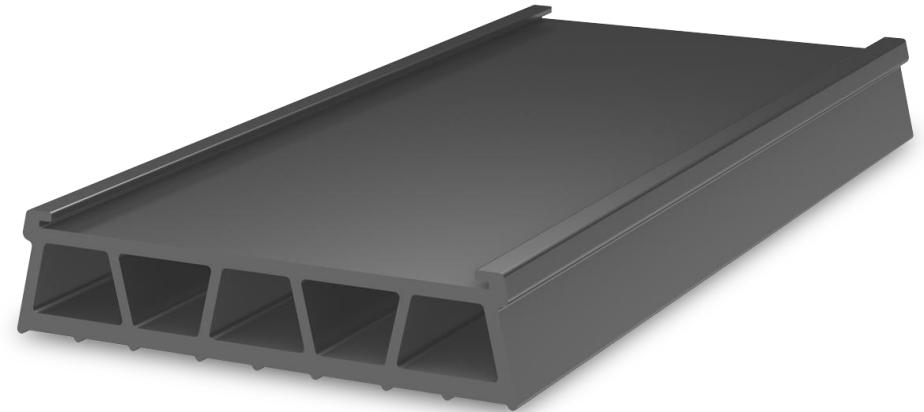
Premiere at the Intersolar Europe 2018



Benefits at a glance



- ▶ Flexible „Mat V“ EPDM support pad
 - Absorb tolerances and protects the roof cover
 - No chemical interactions with the roof covering
- ▶ EPDM enabled better friction coefficient
 - Larger module blocks are possible
 - And it reduces ballasting
- ▶ Highly material-optimised and therefore a cost-effective system
 - Low transport volume, reduced transport costs
- ▶ Free planning in Base On



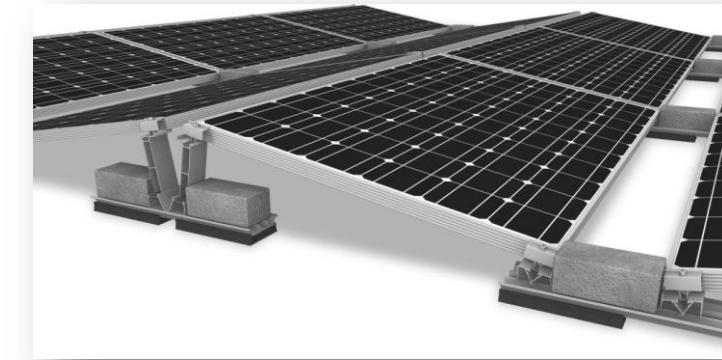
1. details: rail and components



- ▶ Modular rail system
 - Integrated thermal separations
 - Enables larger module blocks



- ▶ Short mounting rails with an integrated ballast tray
 - In most cases no additional ballast adapters required



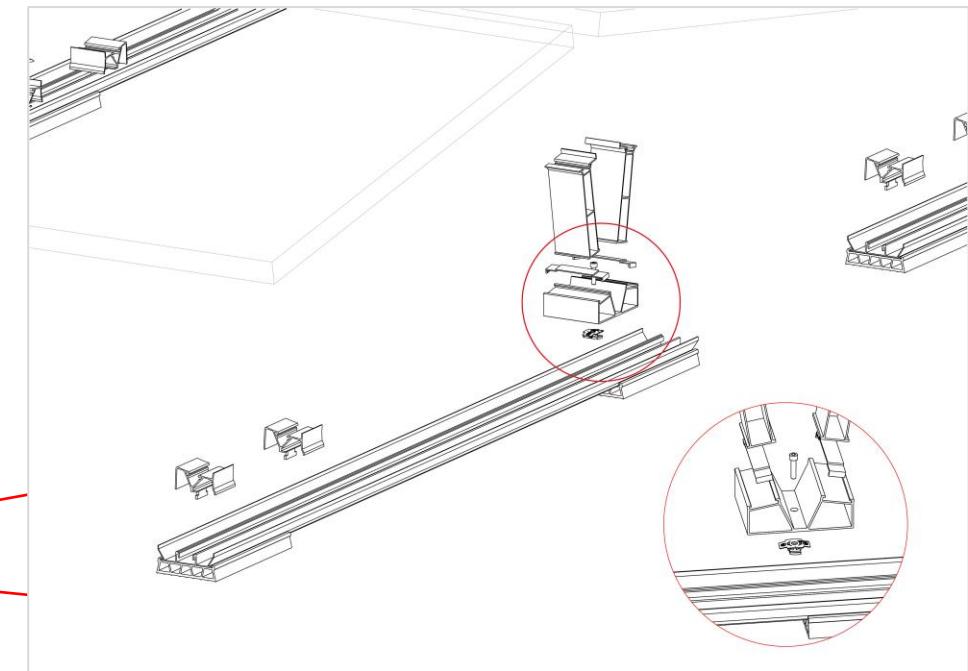
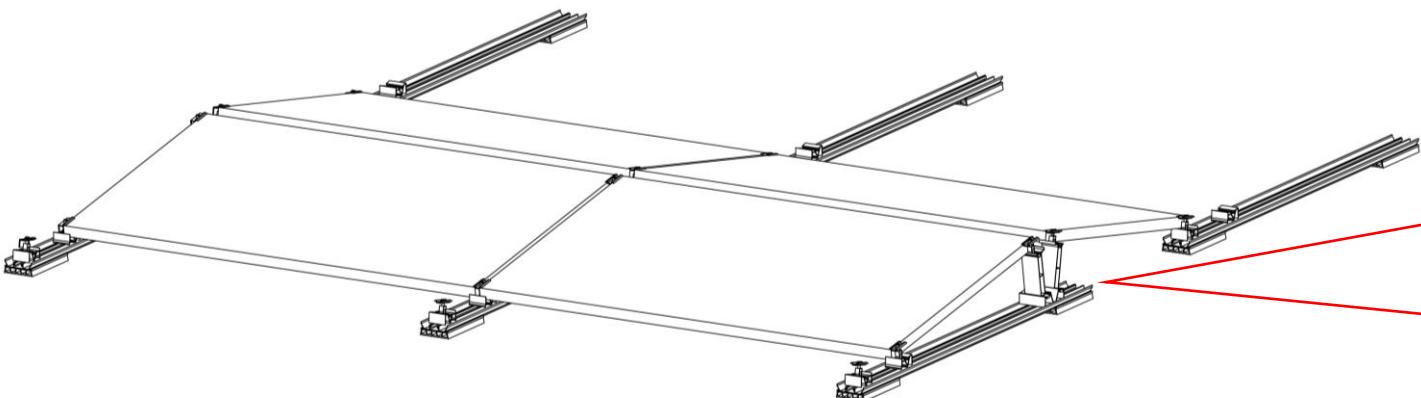
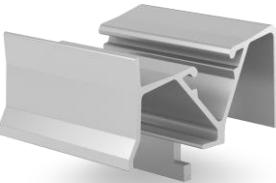
- ▶ Clamp: MiniClamp (30-50 mm)
 - Universal module clamp of the K2 modular system (MiniRail System, S-Rock System)



1. details: rail and components



- ▶ Main Dome components for module tilt mounting with integrated tolerance compensation
- ▶ Dome SD without additional screw connection
 - For 4 modules only 3 screw connections
 - Thus shortened installation time



1. details: comparison of ballast of Dome and Dome V



* Exemplary calculation; flat roof in Berlin, wind pressure 0.59 kN/m², snow roof load 0.63 kN/m².

2. details: flexible pad „Mat V“



- ▶ Features of the pad:
 - Flexible
 - Absorbs the usual movements on the building site (resulting from temperature etc.)
 - One length for the system

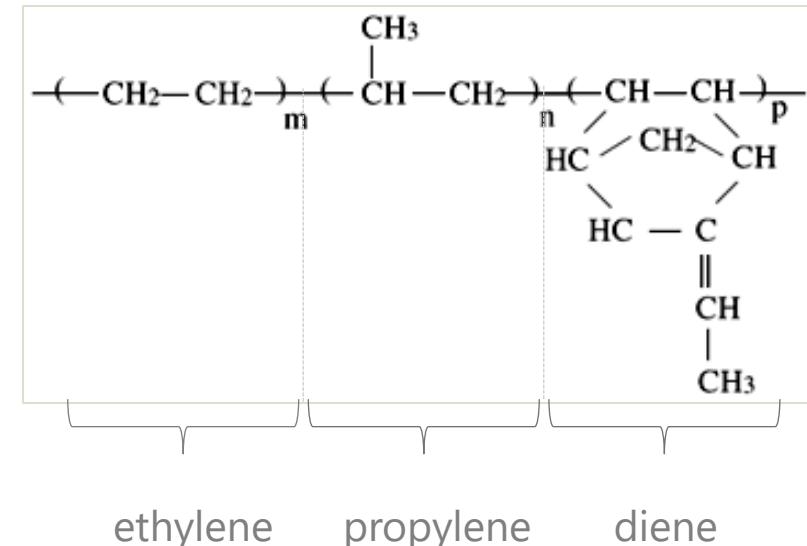


2. details: flexible pad „Mat V“



► Material of the elastic mat:

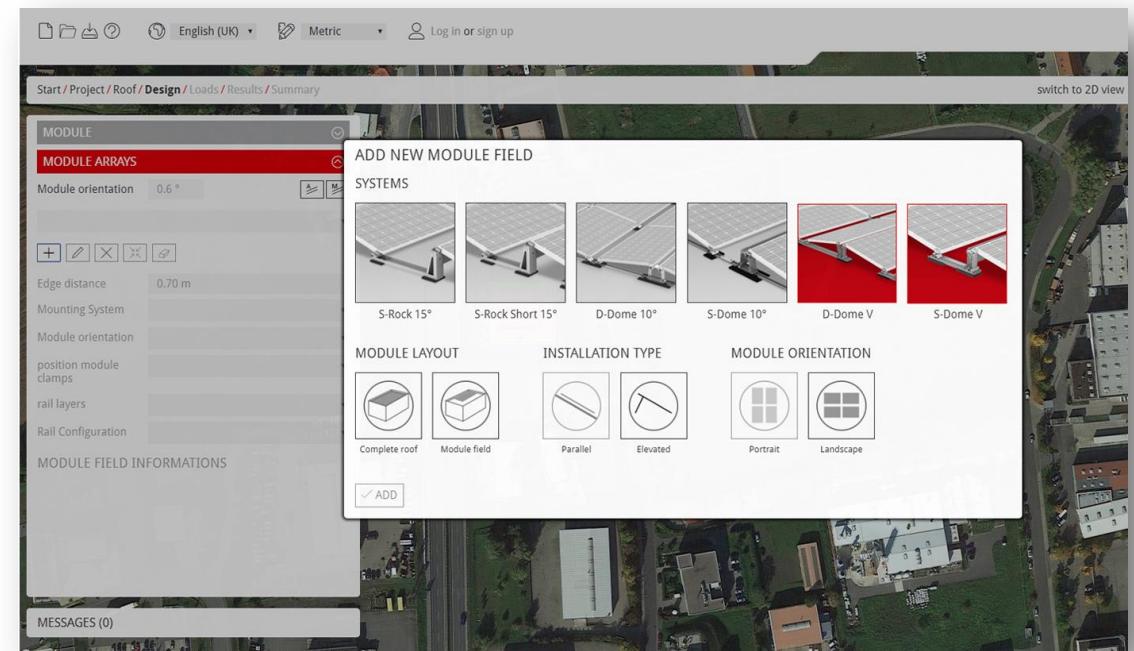
- EPDM (ethylen-propylene-diene-polymer*)
- Good chemical compatibility
 - Has no plasticizers and does not absorb plasticizers due to the saturated compound
- High coefficient of friction compared to the roofing membrane
 - System requires less ballast
- Best low-temperature and weather resistance
- Best ozone and UV resistance



3. details: planning with Base On



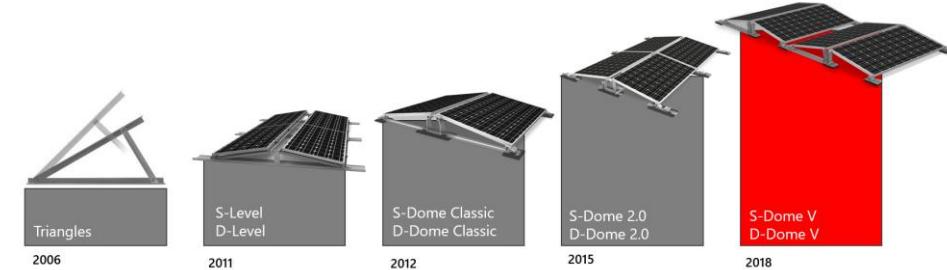
- ▶ Free planning tool base.k2-systems.com
- ▶ Available in 11 languages*
- ▶ All flat roof and most pitched roof systems are available
- ▶ In 5 steps to the finished design and article list
- ▶ Detailed load and ballast planning
- ▶ Graphical drawing tools for roofs and module fields
- ▶ Regular Base On webinars
<https://k2-systems.com/en/your-project/webinars>



Conclusion: Dome V - the fifth evolution

► S-Dome V and D-Dome V: The fifth flat roof generation

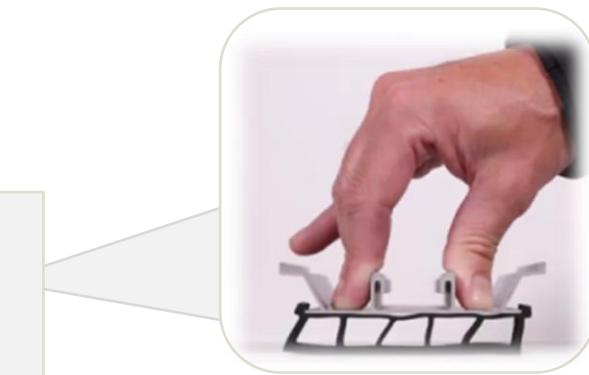
- Further development of S- and D-Dome
- Plus new components and materials with new functions



► Features of the new flat roof systems

- Single-sided and double-sided elevation
- Compensates for roof tolerances
- Integrated ballast tray directly in the rail
- Hardly any screws, therefore fast assembly
- Material-optimised and thus a cost-effective system solution
- Simple planning in the free online tool

- Flexible EPDM pad „Mat V“
 - high coefficient of friction and thus lower ballasting of the system
 - No chemical interaction with the roof covering



Thank you for your attention



- ▶ For more information, see also:
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- ▶ Do you have any further questions?



<https://www.youtube.com/watch?v=68eWO0TrBtI>