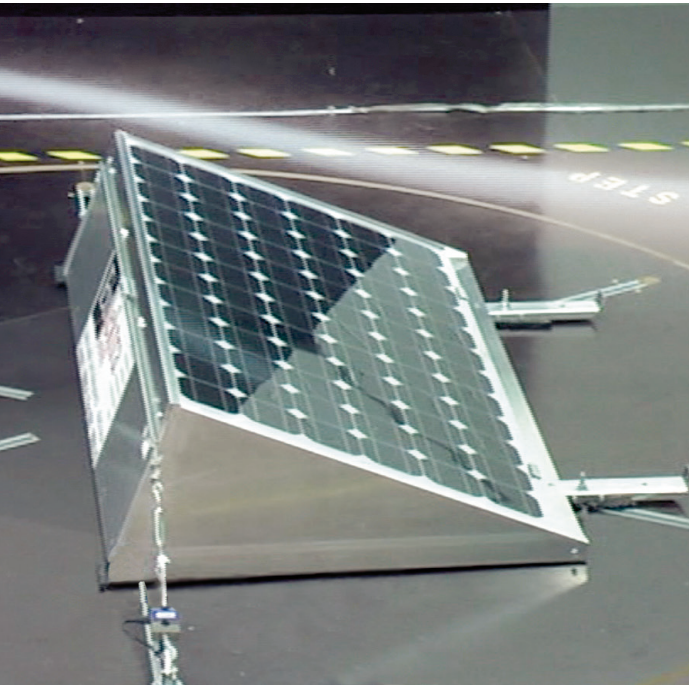
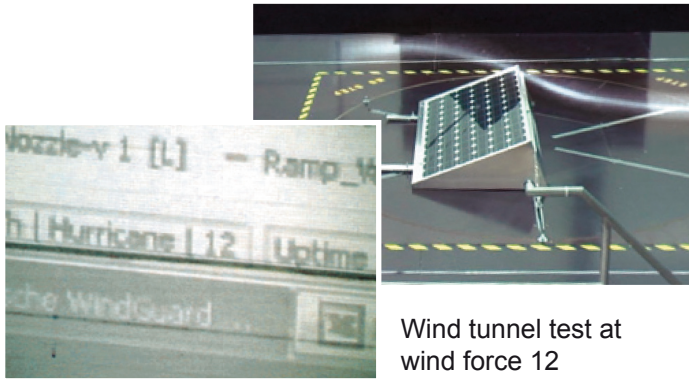
Hurricane Test in the Wind Tunnel:





Wind tunnel test at
wind force 12
(hurricane)

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Eulektra®

The new ALVA system

Systematic increase in yield:

Eulektra reduces weight for module elevation with the newly developed ALVA system

We let the power flow.

Eulektra module elevation system

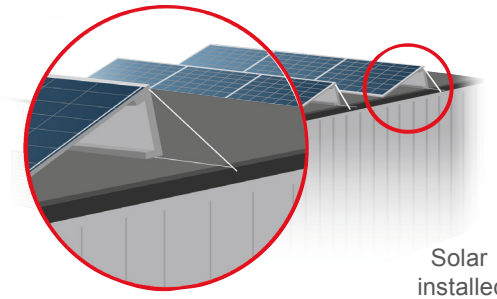
The Eulektra module elevation system for flat roofs offers a significant reduction in weight: it has a weight of just 10 kg per square metre. With its simple set-up technique and low material usage, the system is comparatively inexpensive overall.

With the Eulektra solution the system is laid „floating“ at the corners with the help of 10/10 cm installation pads, connected with adjustable distance pieces and braced at the side with wire cables. The bracing is anchored in the parapet so that the roof cladding remains completely undamaged – ensuring that no rain water penetrates the slab and damages the building.

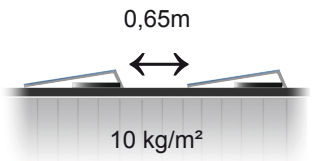
The light Eulektra module elevation system is an interesting solution for halls and flat roofs which until now have been considered structurally unsuitable. It allows the installation of photovoltaic systems, for example on manufacturing and sports halls, as well as warehouses of a lightweight construction.

In combination with the Eulektra module interconnection (Kara system) it is possible to prevent a reduction in power even where shadows are formed, e.g. by chimneys, antennas or high-voltage lines.

How the Eulektra ALVA system works

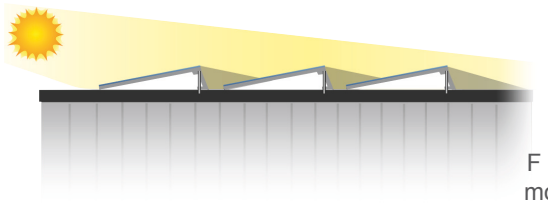


Solar modules are installed together with the weight-reduced Eulektra module elevation system; the roof cladding remains undamaged.



Eulektra
Module Elevation System

With a weight of just 10 kg/m² the modules can be set up with a distance between the rows of 0.65 cm without causing any shadows: in this way more modules can be placed on a flat roof, the photovoltaic systems produces more electricity and the yield is increased.



Furthermore, the modules are connected in such a way that if one cell is in the shade the power of the entire line is no longer impaired (as before). This also increases the yield.

Benefits at a Glance

- ✓ **Weight-saving installation: only around 10 kg per m² including module and elevation system**
- ✓ **Very low system costs**
- ✓ **Resistant to swirling winds**
- ✓ **Closer positioning of solar modules is possible**
- ✓ **No damage to the roof cladding**
- ✓ **Reduction in the drop in power in the case of shadows**
- ✓ **Increase in yield due to precise alignment of the rows of modules towards the south**
- ✓ **Minimisation of losses from shadows through the use of the Kara system**