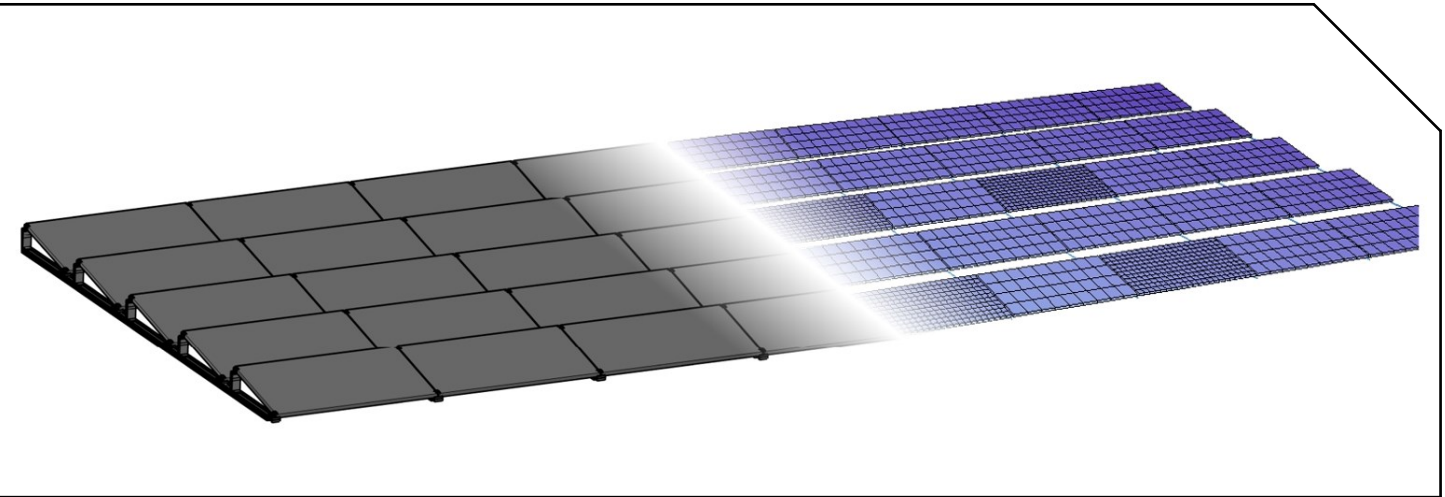


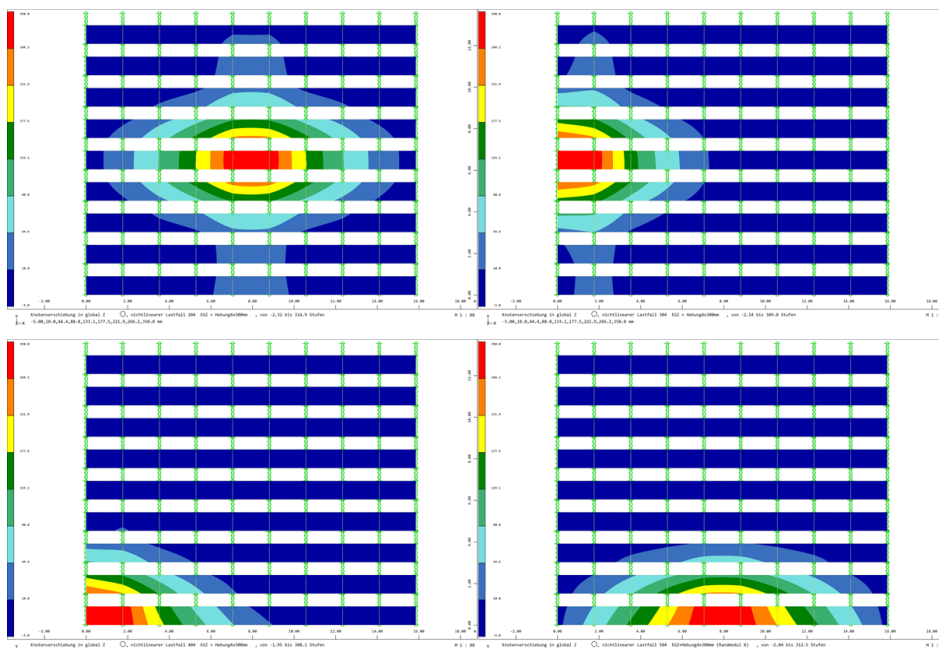
Renusol Europe GmbH – Mounting system FS Pro



On behalf of Renusol Europe GmbH, ZPP Ingenieure AG carried out a computer-aided static calculation to determine the maximum forces that can be absorbed by the FS Pro mounting system. In the process, the individual components were verified considering the stiffnesses of adjoining components as well as different ballasting situations. The material used for the construction (excl. the plug-in bolts) is EN AW 6063 T66.

Furthermore, a lifting test of different modules by 300mm was simulated computer assisted based on various technical literature. For this purpose, the stiffness of the entire system was determined by calculation and the vertical displacement of the system was examined.

As a result of the stiffness analysis, the following displacement conditions are obtained.



Lifting modules due to a 300mm lift (exemplary for the FS Pro 10° Landscape), minimum displacement 10mm

The calculation was made on a finite element model using the SOFiStiK software. The system configurations 10° Landscape, 10° Portrait, 18° Landscape, 10° OW Landscape and 10° OW Portrait were investigated.