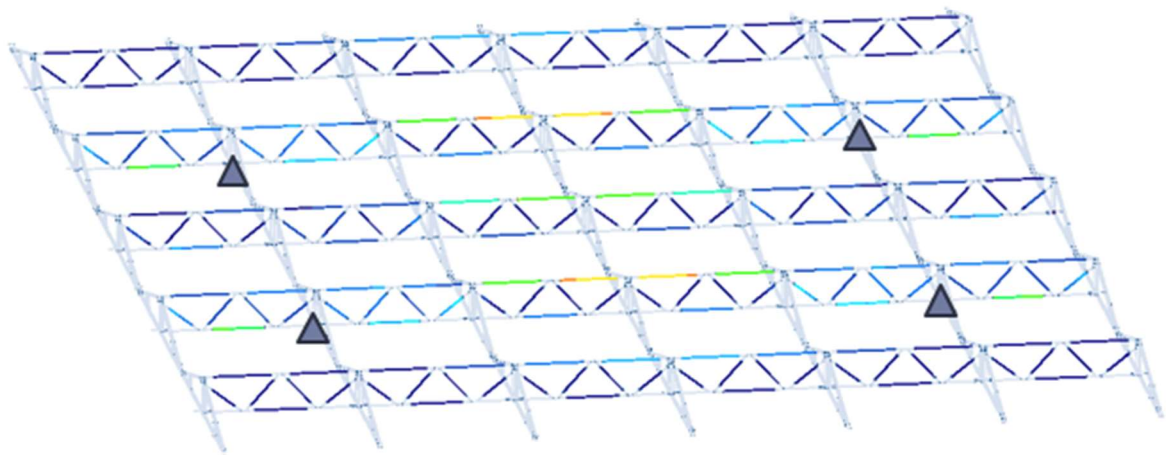


Finite Element Analysis of the RABLE mounting system



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RABLE has requested SDC Verifier to structurally analyze the RABLE4roofs PV mounting system. In this report a summary is given of the RABLE mounting structures analyses.

The RABLE system has been checked for various spans where the beam members of the centers and of the sides, including the connections, are checked according to Eurocode 3 for buckling as well as stresses. A global linear buckling analysis and stresses check has been executed for the sides for the various spans.

The calculations executed show that the standard RABLE PV mounting structure complies with Eurocode rules in accordance with the installation limits provided by RABLE of the mounting structure.

Analysis of the RABLE mounting system is shown in the report "Analysis of the regular solar panel frames (Results Overview)_v2"

System application: Flat roofs and exoskeletons

System Conformity:

EN 1990	Basis of Structural design
EN 1991-1-1	Actions on structures: Densities, self-weight, imposed loads for buildings
EN 1991-1-3	General actions - Snow actions
EN 1991-1-4	General actions - Wind actions
EN 1993	Design of steel structures

On behalf of SDC Verifier,



Ir. Roman Samchuk

Head of Engineering of SDC Verifier

On behalf of RABLE Group B.V.,



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