



New mounting solution for trapezoidal and corrugated sheet metal roofs:

Improved rear ventilation for PV modules: K2 MultiRail High creates additional clearance between modules and roof surface

In regions with high ambient temperatures, PV systems installed on trapezoidal and corrugated sheet metal roofs often require greater spacing between the modules and the roof surface. Improved rear ventilation enhances the thermal performance of the modules and creates additional installation space for components such as microinverters or optimizers. With the new *K2 MultiRail High*, K2 Systems expands its portfolio with a one-piece elevated solution designed precisely for these requirements.

The proven K2 MultiRail system stands for material-efficient direct mounting on metal roofs, which are widely used in commercial and agricultural applications. The new MultiRail High provides a height of 100 mm, significantly increasing the distance between the modules and the roof.

Thermal optimisation for higher performance

Rear ventilation plays a crucial role in module performance, especially in hot climates or on industrial metal roofs that heat up significantly. A larger air gap improves airflow and supports natural convection, lowering the module's rear-side temperature. This reduces temperature-related efficiency losses and thereby increase annual yield gains — particularly under strong irradiation and heat. At the same time, the increased spacing creates room for the integration of microinverters or power optimisers beneath the module. "In markets with high ambient temperatures, we repeatedly see a need for improved rear ventilation on metal roofs. With the MultiRail High, we offer a structurally simple solution that creates additional clearance while keeping installation streamlined," explains Dieter Hardock, Head of Product Management at K2 Systems.

A one-piece solution with 100 mm mounting height

The MultiRail High is 150 mm long and is fastened directly to the roof using four thread-forming sheet-metal screws. An EPDM seal ensures reliable waterproofing at the fastening points. Its one-piece design significantly reduces installation time compared to using combinations of base rails and height adapters. For planners and installers, this provides a more clearly defined solution with predictable material requirements and reliable installation times

Two variants for different metal roof profiles

The MultiRail High is available in two versions:



Connecting Strength

- MultiRail High - for trapezoidal sheet metal
- MultiRail High CSM - for corrugated sheet metal

Extension of the existing K2 portfolio

K2 Systems already offers solutions to elevate the module support surface - this now provides a standardized solution for the MultiRail in addition to the MiniRail 60. For even greater flexibility, the RailUp solution remains available and can be used with all K2 rails. With the K2 MultiRail High, K2 Systems adds another option for applications where greater spacing between the module and roof surface is beneficial — particularly in warm regions or on heavily heated roofs. The solution is targeted at solar installers who seek a raised, installation-friendly substructure for metal roofs.

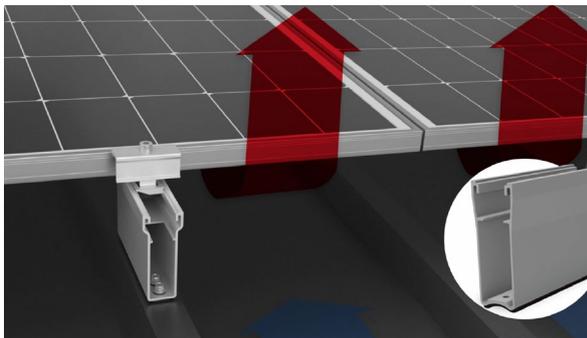
More: <https://k2-systems.com/en/company/news/now-available-k2-multirail-high/>

K2 Systems GmbH is one of the world's leading manufacturers of photovoltaic mounting systems with twenty years of experience. Founded in 2004 and headquartered in Renningen near Stuttgart, the company offers universal components for flat and pitched roofs that are easy to install, durable and safe. The company's portfolio also includes mounting systems for façades, ground mounts and carports. Digital services, such as the K2 Base planning software, support the process, making PV projects quicker and easier.

K2 Systems develops in Germany, manufactures predominantly in Europe, and focuses on a sustainable sourcing strategy. PV systems with K2 substructures are in use in over 130 countries and generate approximately 124 GWh per day. The heart of its strategy is the development of easy-to-install mounting systems that are precisely tailored to the needs of customers. With around 420 employees at eleven global locations and in close cooperation with international partners, the company is working towards the vision of global electricity generation from solar energy. This is how K2 Systems is driving the energy transition.

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Photos and graphics for download can be found at <https://k2-systems.com/en/company/press-media/>



The K2 MultiRail High creates increased spacing between the PV module and metal roof. The larger air gap enhances rear ventilation and can help reduce temperature-related power losses (© K2 Systems).