



Connecting Strength

Mounting systems





Content

Everything at a glance - find the right system:

Pitched roof	Page	Pantile	Plain Tile	Slate	Trapezoidal sheet metal	Trapezoidal sandwich panel	Corrugated sheet metal	Corrugated fibre cement	Standing seam	Bitumen
K2 SingleRail System	6	●	●	○	○	○	●	●	●	●
K2 SolidRail System	7	●	●	●	●	●	●	●	●	○
K2 Insertion System	8	●	●	●	●	●	●	●	●	○
K2 MultiRail/MultiRail CSM System	9	○	○	○	●	●	○	●	○	○
K2 MiniRail System	10	○	○	○	●	○	○	○	○	○
K2 BasicRail System	11	○	○	○	●	●	○	○	○	○

Flat roof	Page	Green roof	Gravel	Concrete	Membrane	Trapezoidal sheet metal	One-sided	Two-sided
K2 Dome 6 System	14	●	●	●	●	●	●	●
K2 Dome Zero System	15	●	●	●	●	○	○	○
K2 TiltUp Vento System	16	●	●	●	○	○	●	○
K2 GreenRoof Vento System	17	●	●	○	○	○	●	●



Warranty

We offer a 12-year warranty on all K2 components in the system:
k2-systems.com/en/warranty

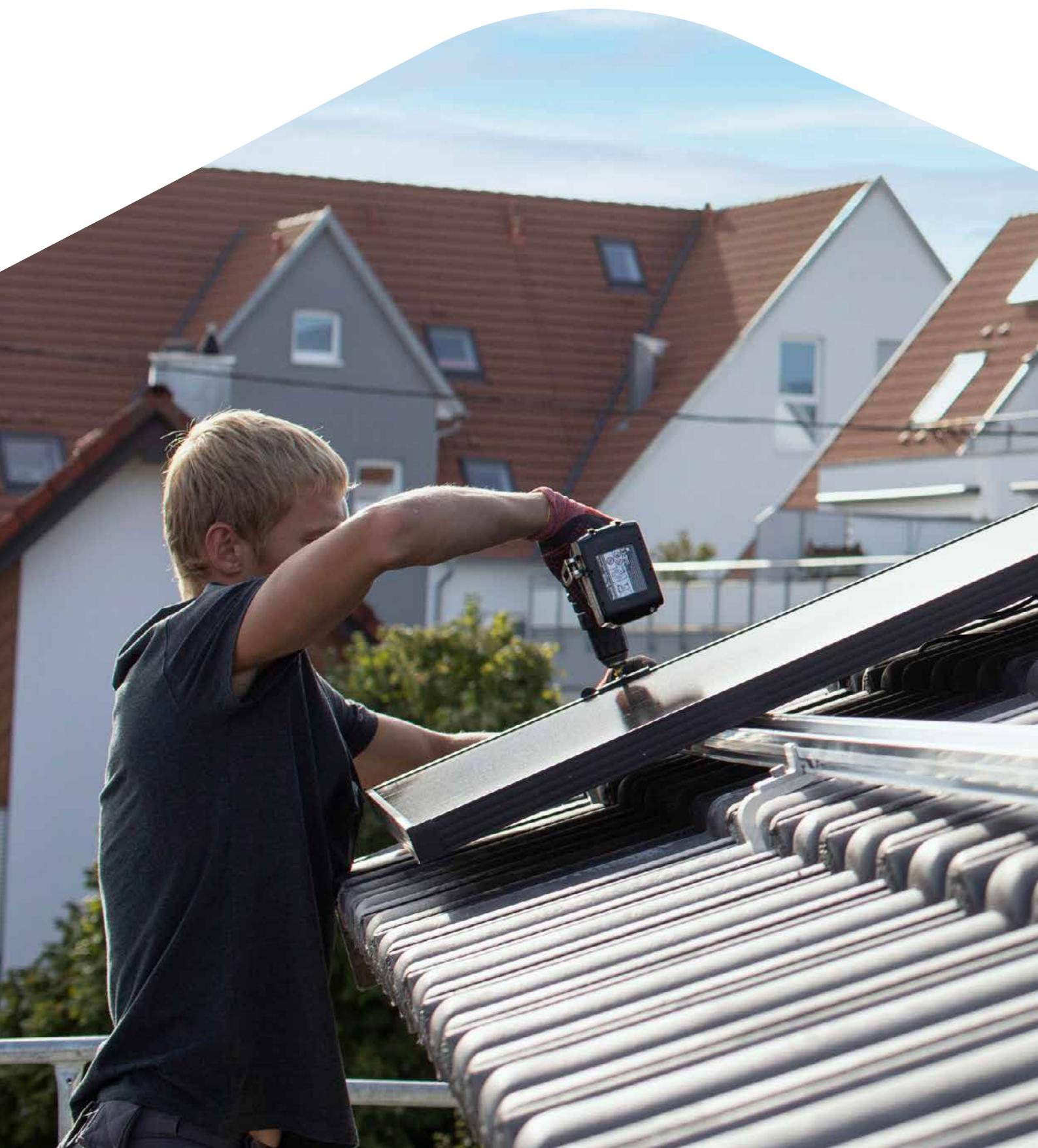
Facade	Page	Concrete/masonry*	Trapezoidal sandwich panel	Trapezoidal sheet metal	Corrugated sheet metal
					
K2 WallPV FacadeRail System	20	●	○	○	○
K2 WallPV CarrierRail System	21	○	●	○	○
K2 WallPV MultiRail System MultiRail CSM System	22	○	○	●	●
K2 WallPV PerfoRail M System	23	●	○	○	○

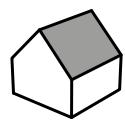
Ground-mounted	Page
K2 N-Rack System	26

Carport	Page
K2 Carport System	30

* Load tests on masonry necessary

● Suitable ○ Unsuitable





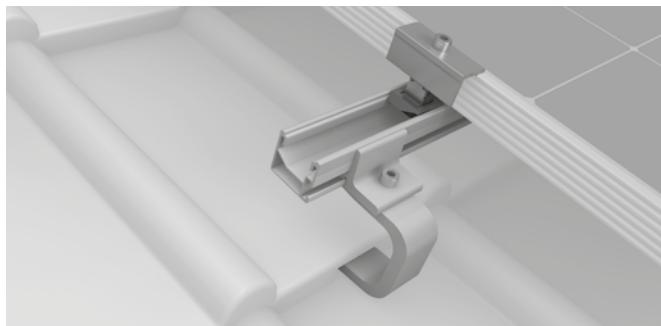
Pitched Roof





K2 SingleRail System

Extensive range of rails suitable for various load cases and many spans. Direct lateral connection to the rail enables fast and cost-effective installation. Individual height adjustment provides additional flexibility during installation.



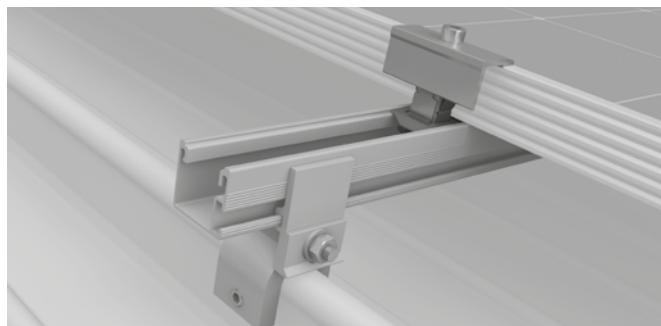
Roof tiles and slate

- Roof hooks for the majority of clay tiles, pantiles and concrete roof tiles
- Simple height adjustment on base plate, cantilever or on slotted hole connection
- 80% of all applications can be solved with SingleHook 3S or 4S



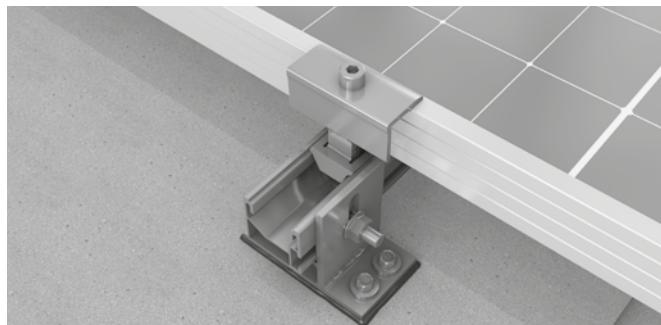
Corrugated fibre cement and corrugated sheet metal

- For all corrugated fibre cement and corrugated sheet metal roofing with wooden substructure
- Secure sealing on the roofing
- Climber connection
- abZ (general technical approval) in Germany



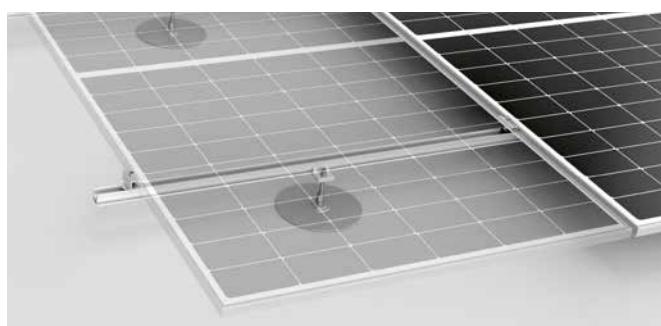
Standing seam

- Multitude of application possibilities: Double standing seam, angled seam, snap seam and round seam
- Direct lateral rail connection
- Penetration-free assembly



Bitumen

- Mounting with the SpliceFoot
- Fastening in the rafter or in the wooden boarding
- Watertight sealing due to butyl layer pre-mounted on the component



Foils

- Secure and stable fastening to pitched foil roofs with the aid of anchor plates or mounting feet
- Simple installation with the proven SingleRail components

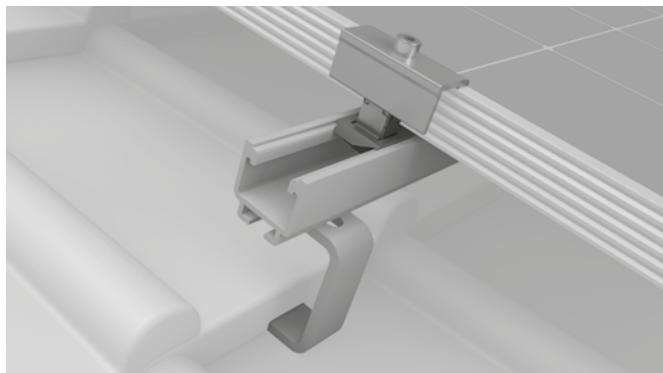


Further information,
all technical data and
components



K2 SolidRail System

Extensive range of rails suitable for various load cases and many spans. Can be installed quickly and easily on tile, trapezoidal sheet metal, corrugated fibre cement and sheet metal seam roofing.



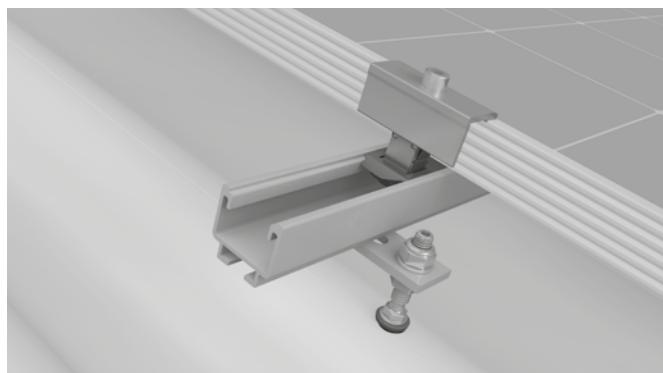
Roof tiles and slate

- Roof hooks for the majority of clay tiles, pantiles and concrete roof tiles
- Stainless steel roof hooks for tiles with low machining possibilities
- Maximum flexibility thanks to the adjustable connection – ideal for installation on narrow rafters or at different heights



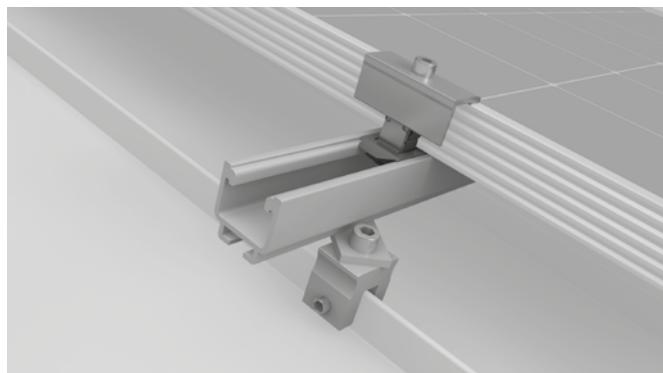
Trapezoidal sheet metal

- Mounting with solar fasteners on trapezoidal sheet metal and sandwich element roofing.
- Fastening in the steel or wooden substructure
- abZ (general building approval) in Germany.



Corrugated fibre cement and corrugated sheet metal

- For all corrugated fibre cement and corrugated sheet metal roofing with timber or steel substructure
- Secure sealing at the roofing
- abZ (general technical approval) in Germany



Standing seam

- Many application possibilities: Double standing seam, angled seam, snap seam and round seam
- Penetration-free assembly



Further information,
all technical data and
components



K2 Insertion System

For a shapely overall appearance without the need for module clamps. The closed surface forms an attractive roof construction with no gaps or additional edges. Lightning-fast installation of the modules by just one person - without any screws or module clamps.



Roof tiles and slate

- Roof hooks for majority of clay tiles, pantiles and concrete tiles as well as roofing tiles
- Simple height adjustment on base plate or bracket
- 80% of all applications can be solved with SolidHook 3S+ or 4S+ solvable



Trapezoidal sheet metal

- Connection with MultiRail mounting rail
- Simple assembly and quick planning with few components



Corrugated fibre cement and corrugated sheet metal

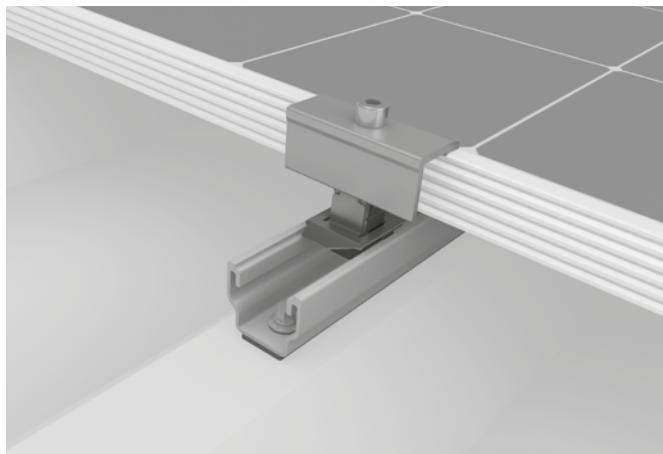
- For all corrugated fibre cement and corrugated sheet metal roofing with wooden substructure
- Climber connection possible
- abZ (general technical approval) in Germany
- Further connection with MultiRail CSM on corrugated sheet metal possible (*Further information on p. 22*)





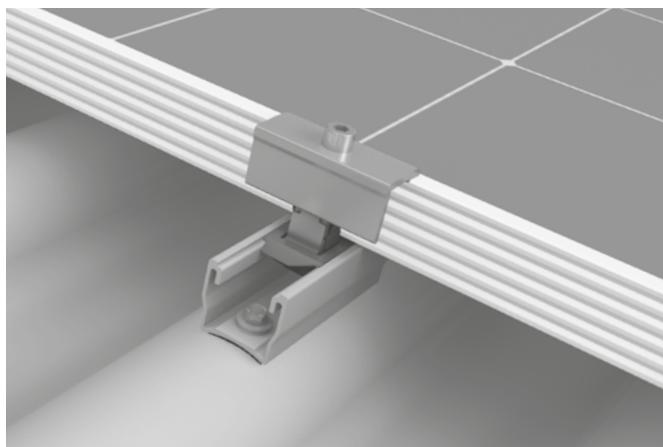
K2 MultiRail System

Roof connection and mounting rail in one component. Quick planning with little use of materials is possible. The system can be easily installed on pitched roofs from 5 – 75° with trapezoidal sheet metal and corrugated sheet metal. No pre-drilling or time-consuming fixing in the roof substructure is necessary during installation.



K2 MultiRail

- Mounting with only one component on trapezoidal sheet metal and sandwich elements
- Short rail available in different lengths for different applications such as high load requirements



K2 MultiRail CSM

- Quick and easy installation on corrugated sheet metal
- Various lengths available

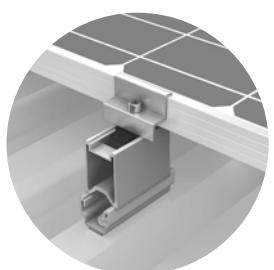
System-Highlights

RailUp for more profit

- Elevation results in improved ventilation of the modules and thus the possibility for higher yields
- Easy installation of micro-inverters and power optimisers

With elevation for more yield

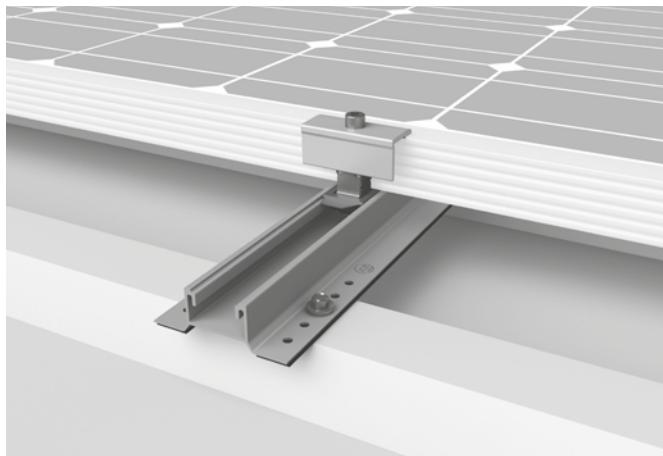
- Combination of the MultiRail and components from our flat-roof system Dome 6
- Better irradiation angle and thus higher yield





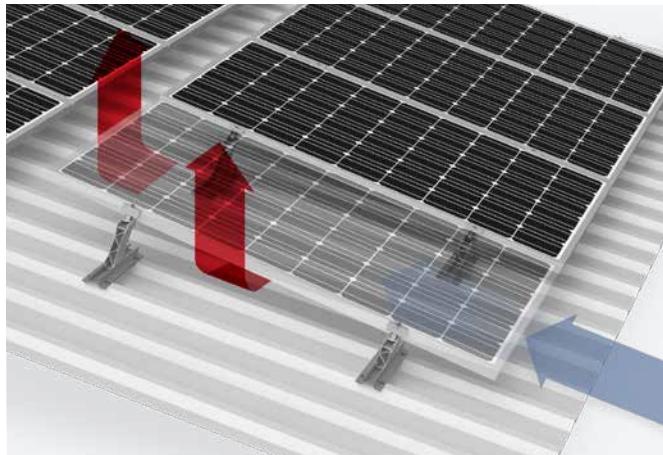
K2 MiniRail System

The system's compact dimensions allow for small packing dimensions and low weight. This results in optimised storage and easy transport. No pre-drilling or time-consuming fixing in the roof substructure is necessary during installation.



K2 MiniRail MK2

- Simple and fast installation due to a small range of components required
- MK2 rail channel enables mounting with the same module clamp on all pitched roof systems



K2 MiniFive MK2

- Additional 5° inclination possible with easy to install MiniFive MK2
- Improved rear ventilation and more yield
- Optimisation of module inclination and angle of incidence

System-Highlights

MiniRail 60 MK2

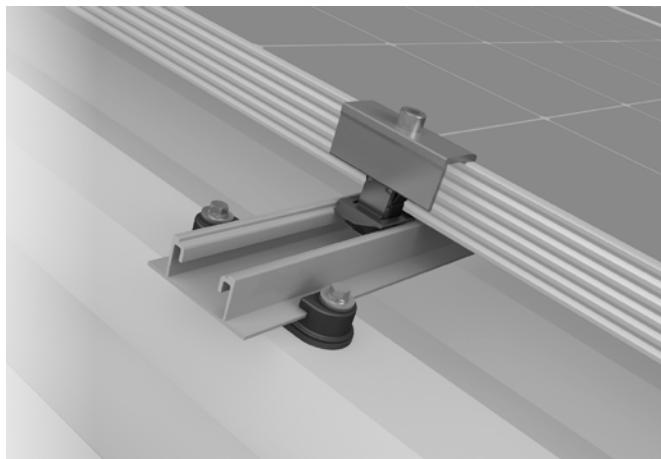
- Greater distance between module and trapezoidal sheet (60 mm)
- Optimiser and micro inverter can be installed underneath
- Improved rear ventilation and higher module output





K2 BasicRail System

Only four installations steps required and suitable for high loads. Controlled thermal expansion in rail direction through the floating rail fixation of the BasicClip. The system has general building authority approval (abZ) in Germany. No pre-drilling or time-consuming fixing in the roof substructure is necessary during installation.



Controlled linear expansion

- The floating rail fixation of the BasicClip results in a controlled thermal expansion of the rail.
- No transfer of forces into the roof cladding

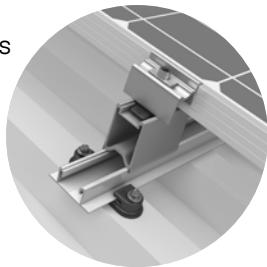
System-Highlights

Landscape mounting option

- Landscape mounting is possible with the K2 AddOn
- Without additional rail layer and with interruption-free module blocks

RailUp for more yield

- Elevation results in improved ventilation of the modules and thus the possibility for higher yields
- Easy installation of micro-inverters and power optimisers



Mounting on sandwich panels

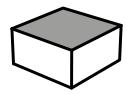
- BasicRail System suitable for sandwich roofs
- abZ (general building authority approval) for panels from different manufacturers
- High installation speed of the BasicRail system and direct fastening in the sandwich elements

With inclination for more yield

- Combination of the BasicRail system with the Peak from our Dome 6 flat roof systems
- Increased yield with better angle of incidence







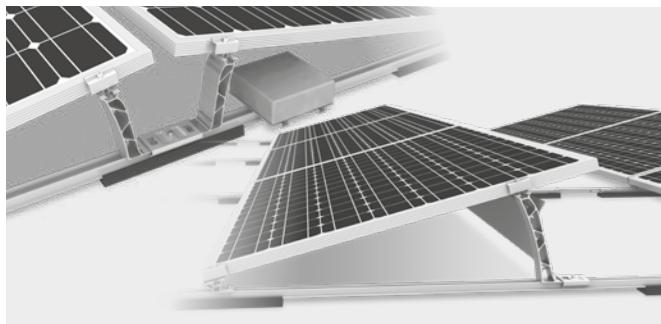
Flat Roof





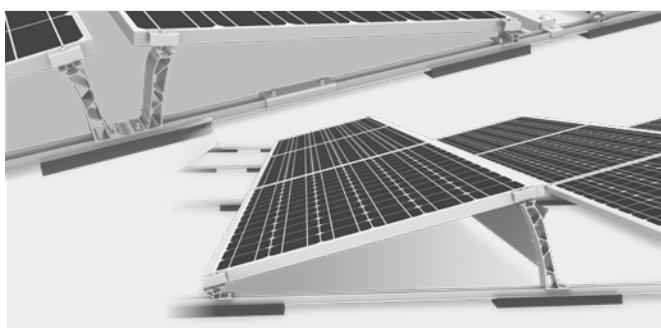
K2 Dome 6 System

For almost all flat roof coverings. Ballast is optimised by system aerodynamics and wind tunnel tests. Secure anchoring by fixed connection to roofs with more than 3° pitch and low load reserves. With elevation of 10° or 15° and South or East-West orientation, the optimum angle of incidence can be created. Certified with abZ (general building authority approval).



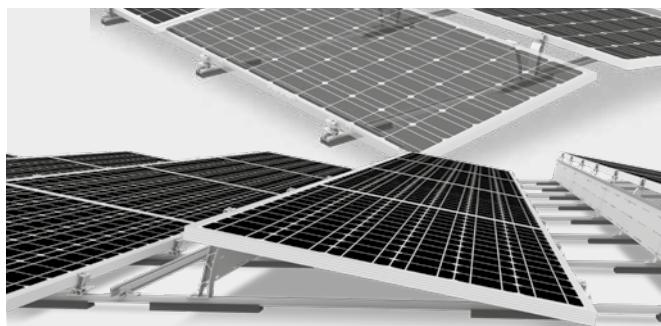
K2 Dome 6 Xpress

- Super-fast assembly in just a few steps
- Snap-in function for peaks and tool-free rail connectors
- Optimisation of the angle of incidence through the option of elevation to 15°



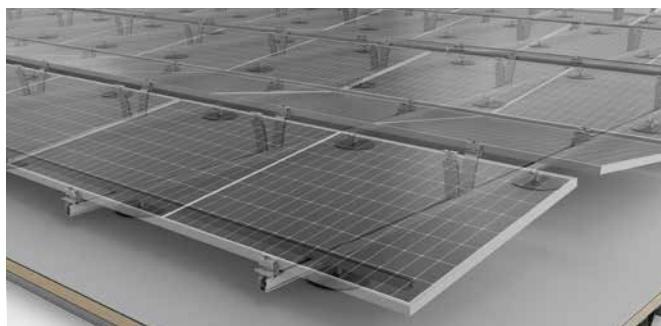
K2 Dome 6 Classic

- Flexible row spacing enables customisable maintenance accesses
- Installation with many obstacles for performance-oriented utilisation of the roof area



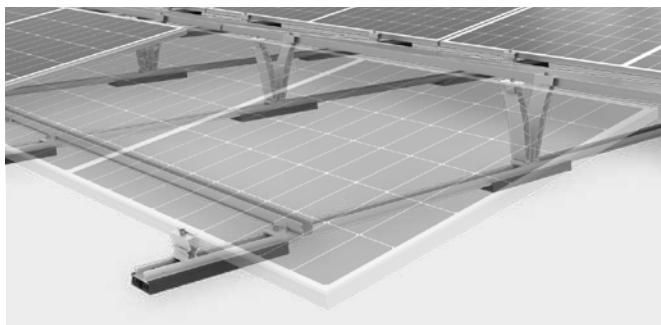
K2 Dome 6 Classic LS

- Fastening on the long side of the module makes it suitable for higher loads



K2 Dome 6 Lifted LS

- Fastening with mounting anchor for raised installation above the roof membrane
- Particularly suitable for roofs with low load reserves
- Compatible with multiple roof anchors types
- Existing components for easy installation



K2 Dome 6 Xpress LS

- Pre-assembled system for higher load cases
- Time-saving installation: pre-assembled components and partially tool-free click mechanism
- Clamping on the long module side for higher load cases and the current module generation

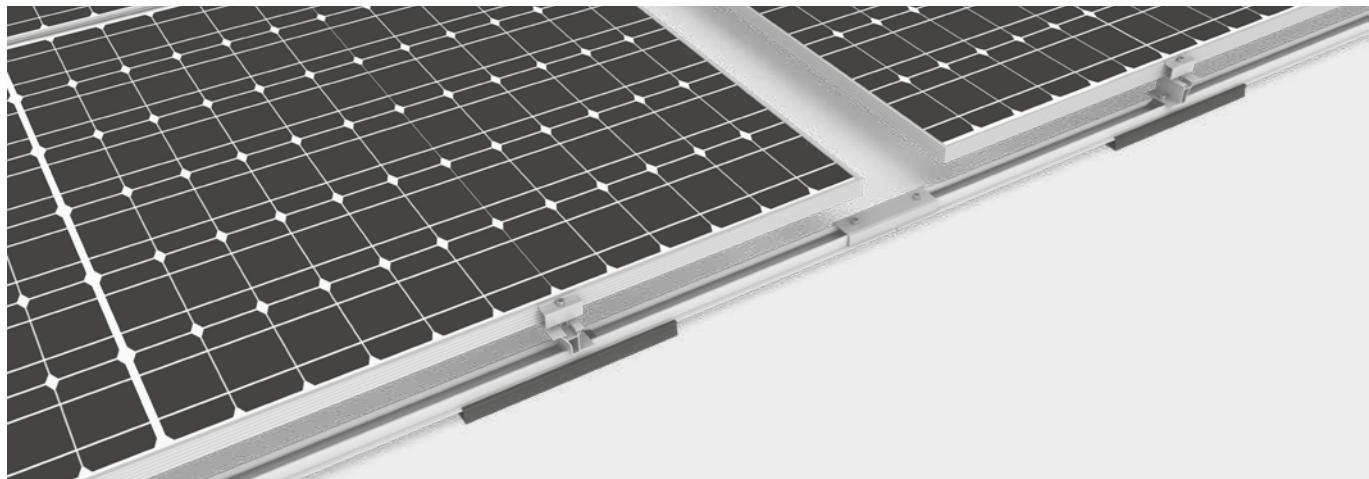


Further information,
**all technical data and
components**



K2 Dome Zero System

For roof-parallel mounting using many of the Dome 6 components. A secure anchoring with fixed connection can be made for roofs with more than 3° and low load reserves.



System-Highlights

Roof pitch up to 10°

- Dome FixPro S fixed connection enables use on roofs with a pitch of up to 10°.

Few components

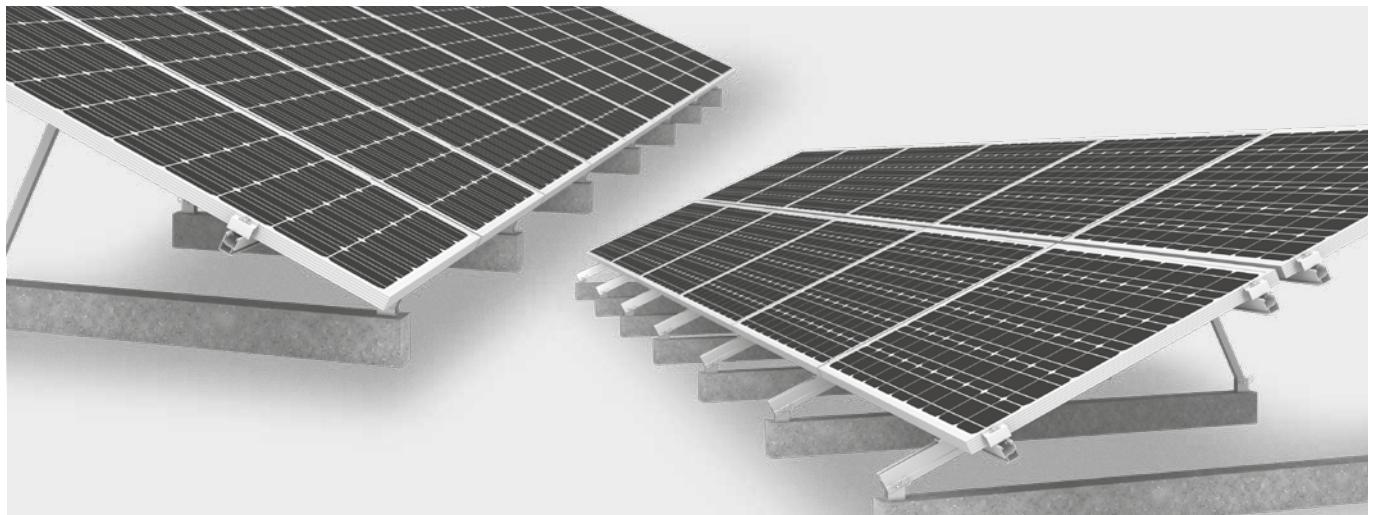
- Majority of components compatible with Dome 6 System
- Dome Zero Peak is used for roof-parallel modules (0°)





K2 TiltUp Vento System

Various module arrangements and three different angles of inclination (20°, 25°, 30°). Can be flexibly mounted on many roofs, either ballasted with concrete foundation or by direct connection to concrete anchors.



System-Highlights

Different roof connections

- Ballasted with concrete foundation
- Direct connection with concrete anchors possible

3 different inclination angles

- All module arrangements available in 3 inclination angles: 20°, 25° and 30°
- Components for different elevations are the same throughout

Different module designs

- Portrait/landscape mounting possible with the same components
- Clamping on the short or long side of modules

Few components

- Sophisticated with well thought-out connections and few components
- Enabling systemic storage





K2 GreenRoof Vento System

Clever flat roof solution for green & gravel roofs. Flexibility in terms of module orientation, inclination angle and system geometry. Can be integrated into existing green roofs.



System-Highlights

Flexible installation

- Module orientation in portrait or landscape
- Inclinations at 10° and 15°
- System geometry in S-shape, A-shape or V-shape
- Spacing between module rows can also be variably positioned for east-west installations, enabling flexible maintenance walks

Good integration into green roofs

- Distance of the module to the roof surface and system geometry enable accessibility below the modules and thus easy maintenance of the green roof

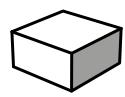
K2 modular concept

- Existing components of the K2 TiltUp Vento system



Further information,
all technical data and
components





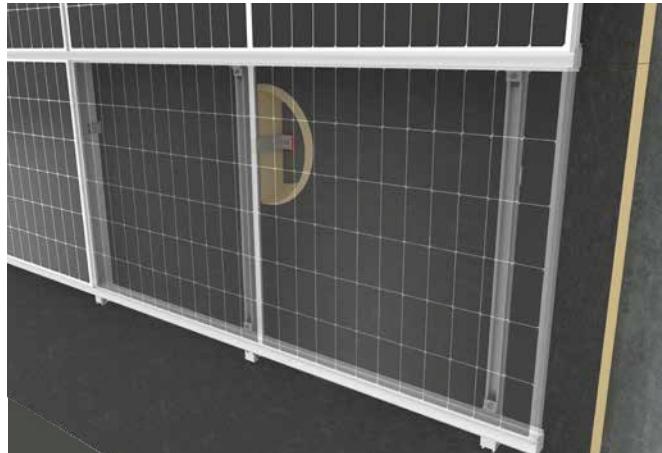
Facade





K2 WallPV FacadeRail System

The flexible solution for concrete facades.



Wall brackets for flexible connection to concrete facades

- Wall brackets are anchored in the concrete
- Connection to K2 FacadeRail with K2 InsertionRail

System-Highlights

Combination of RVF and ETICS

- Fastening to a rear-ventilated facade (RVF) or rainscreen cladding, terminations must be provided by the customer
- Installation on external thermal insulation composite systems (ETICS) is possible when the facade is newly insulated

Closed surface with insert rails

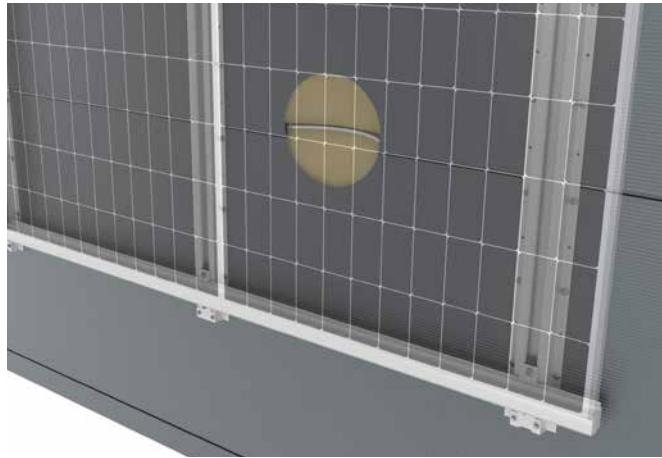
- Elegant overall appearance thanks to silver or black insert rails
- Lightning-fast and secure installation with guaranteed rear ventilation





K2 WallPV CarrierRail System

Facades with sandwich panels are a major field of application for vertical photovoltaic systems, and our solution is the CarrierRail system for FischerTHERM Carrier® panels from Fischer Profil GmbH.



Facades with FischerTHERM Carrier®

- The solution for facades with FischerTHERM Carrier® sandwich panels on large commercial buildings
- Installation solution with building authority-approved CarrierRail and high installation speed
- Can be combined with facade cladding

System-Highlights

Fast, secure fixing

- Installation with building authority-approved sheet metal screws that are tried and tested in the rooftop sector
- Simple installation thanks to the MK2 rail channel and familiar K2 installation principles

Closed surface with InsertionRail

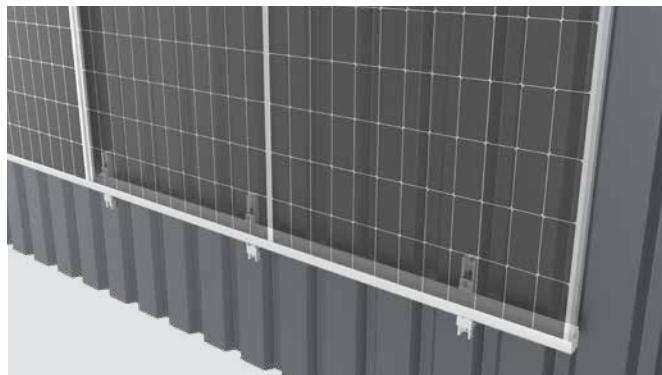
- Elegant overall appearance thanks to silver or black InsertionRail
- Lightning-fast and safe installation with guaranteed rear ventilation





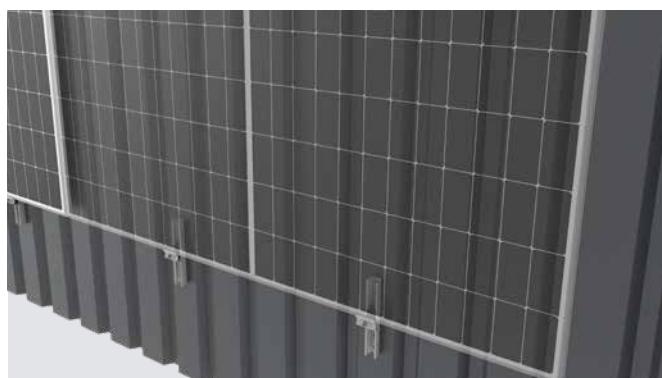
K2 WallPV MultiRail System

One of the most common facade claddings in the industrial and agricultural industries is trapezoidal or corrugated sheet metal. For these materials, we rely on our tried and tested MultiRail. We offer an efficient and easy to install wall fastener.



For large scaling in commercial construction

- Closed surface with InsertionRails creates an attractive overall appearance
- For lightning-fast and secure installation of the modules on the facade



For smaller systems

- Efficient and flexible installation of smaller systems with the K2 FacadeClamp

System-Highlights

Established system

- Many advantages and high safety thanks to proven system from the rooftop sector
- Simple installation thanks to wall connection and mounting rail in one component

Universally compatible

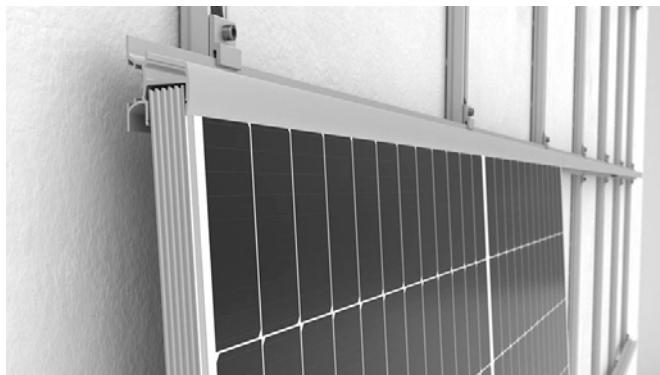
- InsertionRail and FacadeClamp systems can be used for the majority of trapezoidal and corrugated sheet metal profiles
- Suitable for warehouses, halls, commercial projects and agricultural buildings - large or small





K2 WallPV PerfoRail System

The ideal solution for photovoltaic systems on concrete facades with existing thermal insulation: the system enables quick and easy installation without cutting open the insulation. The InsertionRail also creates an aesthetically pleasing and harmonious overall appearance.



Flexible use - for residential and industrial buildings with existing insulation

- Closed surface with InsertionRails creates an attractive overall appearance
- For lightning-fast and secure installation of the modules on the facade

System-Highlights

REISSER-Screw RDS-CA

- The RDS-CA REISSER screw can be fixed directly through the facade insulation in the concrete without cutting open the insulation
- Suitable for various insulation thicknesses and individually adjustable
- Compensates for unevenness, regardless of the existing building fabric

Simple installation with K2 PerfoRail M

- Direct connection to the REISSER screw thanks to Pre-drilled holes
- Fast and intuitive installation

Advantages of the K2 InsertionRail

- Quick and uncomplicated installation of the modules
- Gives the PV system a coherent and aesthetic overall appearance



Further information,
all technical data and
components





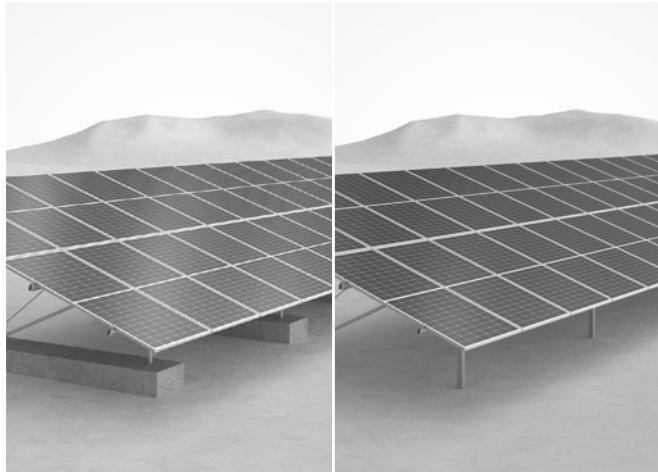
Ground Mounted





K2 N-Rack System

Fundamentally clever: Systematic ground mounted solutions.



Simple, flexible and quick installation

- Fixing with concrete or driven pile foundation
- Multiple inclination options: 15° and 20°
- Flexible and customised solution for a wide range of requirements

System-Highlights

Multiple foundation options

- Installation directly in the ground or on driven piles foundations
- Quick and cost effective solution using driven pile foundations

Fast and flexible installation

- Uncomplicated and quick installation
- Best results in a short time

Multiple inclination options

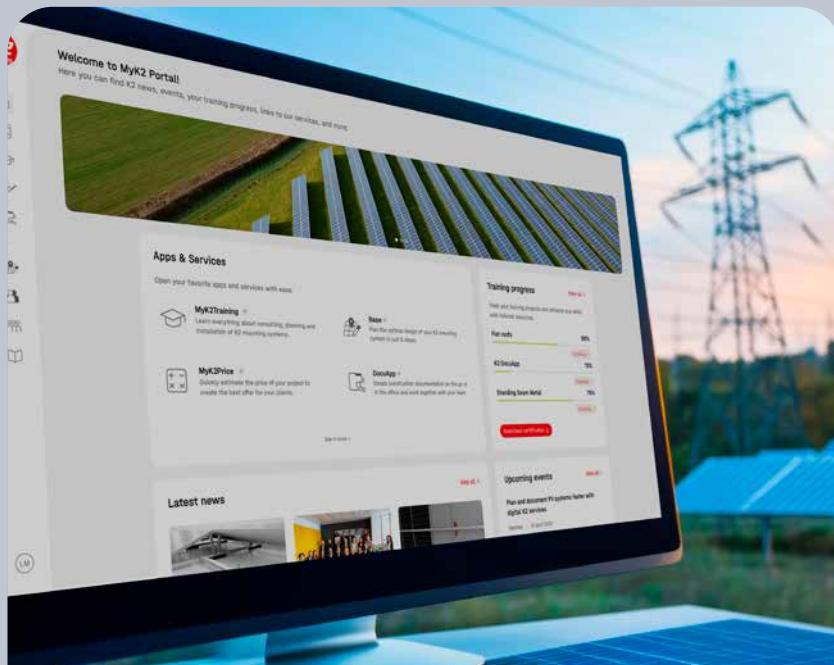
- Inclination of 20°: Installation of two rows of modules
- Inclination of 15°: possibility of installing three rows of modules

Future-oriented sustainability

- Sustainable thanks to outstanding recyclability and CO₂-optimised production
- Time saving due to very easy handling



The complete K2 world in one account



Register once and benefit from many advantages

- Everything at a glance: Data capture in the K2 DocuApp, project planning in K2 Base and helpful functions such as MyK2Price at your fingertips
- Comprehensive overview: upcoming K2 exhibitions, K2 news, K2 webinars and individual progress with K2 Training

Calculation at the speed of light

MyK2Price

- Calculate PV projects incredibly quickly and easily via smartphone or tablet
- Get an excellent basis for your offers with just a few key figures, even when you're on the move

Acquire knowledge and certification

MyK2Training

- Complete a free K2 training course
- Track your training progress and download your certificates

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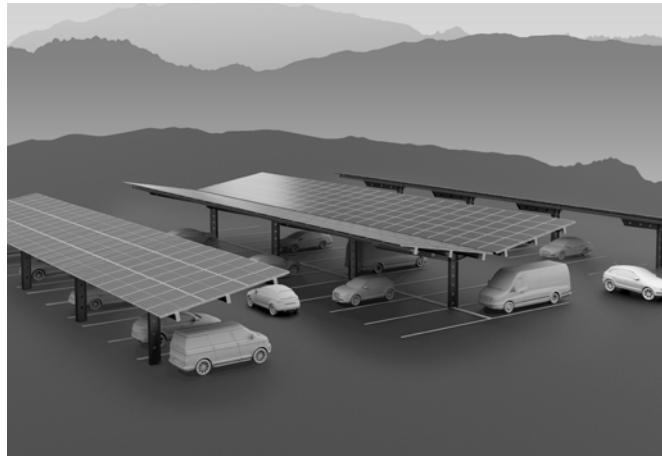
Carport





K2 Carport System

Great flexibility meets minimal effort: convenient parking experience with simultaneous energy generation.



Comfortable and flexible

- One-support system ensures a comfortable parking experience
- Installations with or without trapezoidal sheet metal roofing
- Module layout: 3x portrait 10°, single or double

System-Highlights

Parking space for all standard cars and commercial vehicles

- Carport height: front edge 3.15 m; rear edge 2 m
- Sufficient space and protection for compact cars as well as higher commercial vehicles

Optional trapezoidal sheet metal roofing

Available in two versions:

- With trapezoidal sheet metal covering for robust protection and classic aesthetics
- Without trapezoidal sheet metal cladding for the use of bifacial modules and a more modern look

Layout

- In single or double version with 10° inclination
- Module layout 3x portrait

Optional roof-integrated drainage

- Efficient and controlled solution for draining rainwater with optional roof drainage

K2 digital tools in all project phases

1.

Project start



2.

Planning



3.

Installation



4.

Project completion



K2 DocuApp

Capture data directly on your smartphone or tablet and share information with your colleagues



K2 Base

Automatic upload of on-site data from the DocuApp. **Fast, reliable and precise planning with results report in K2 Base.**



K2 DocuApp

Capture images via smartphone directly on site or **share information about the system in real time** with your colleagues in the office or on the roof.



K2 DocuApp / Buddy

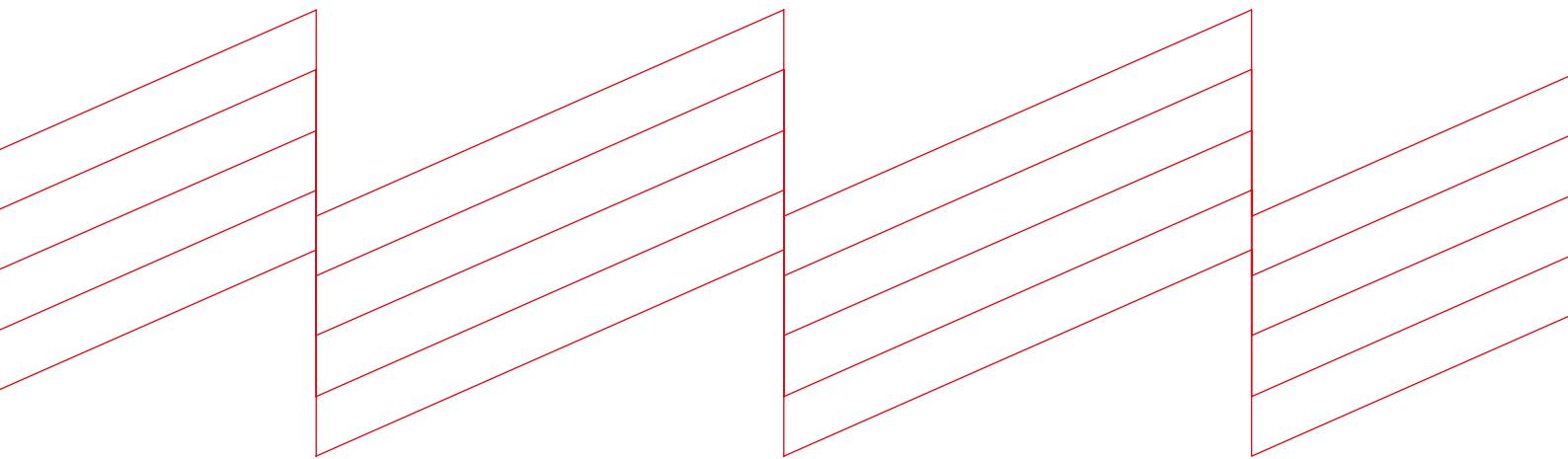
DocuApp: Finalise the project directly on your smartphone

Buddy: Monitoring system to warn against high snow loads.





k2-systems.com



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