



SikaRoof® ANCHOR SYSTEM IN COMBINATION WITH SOLAR SYSTEM

THE UNIQUE CONNECTION POINT TO K2 SOLAR SYSTEM

BUILDING TRUST



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GENERAL PRODUCT INFORMATION

SOLAR PANELS ON FLAT ROOFS ARE NOWADAYS VERY OFTEN A MUST. The SikaRoof® Anchor system for FPO or PVC roofing systems opens a broad field of solar application on flat roofs. It creates a secure and watertight connection point from the roof to the solar mounting system. Sika recommends the solar mounting system from K2 Systems.



SikaRoof® Anchor 250 CR FPO or PVC

Due to the M12 inside thread, it is easy to assemble a broad range of solar constructions onto the SikaRoof® Anchor 250 CR.



SikaRoof® Anchor Washer 140

Is completely made of stainless steel with 2.00 mm thickness. This ensures strong and durable connection.

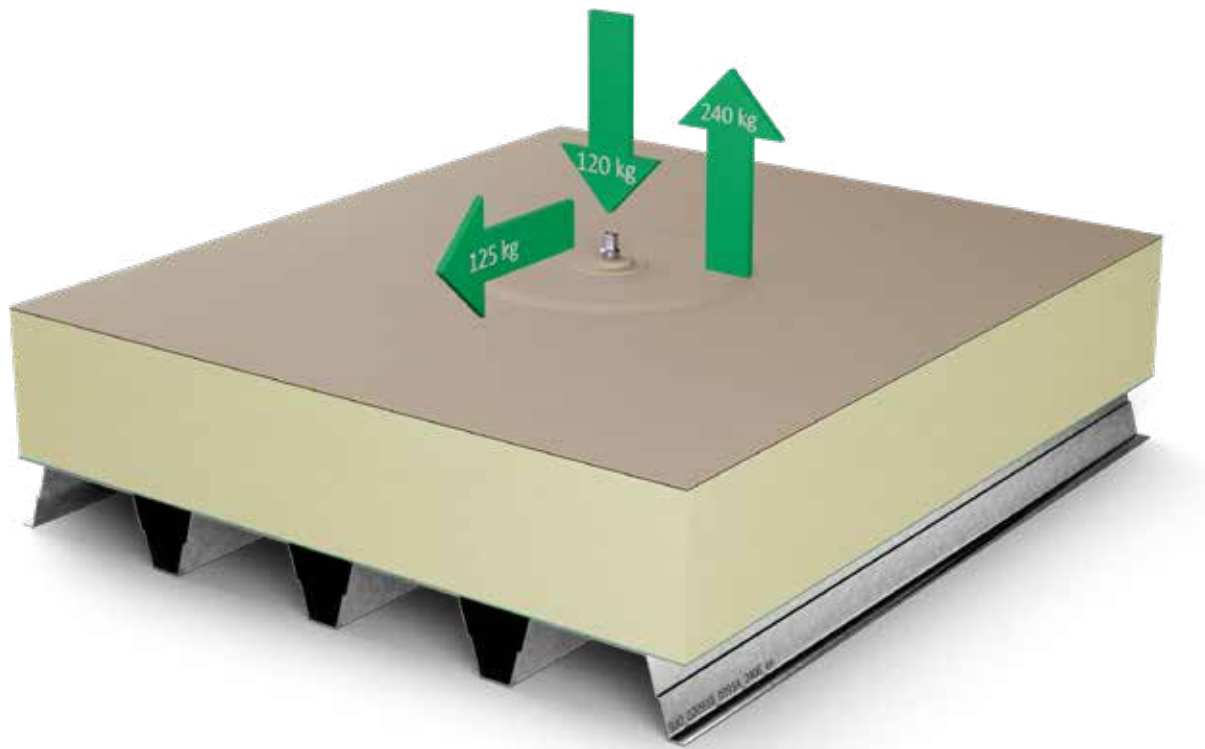
Features	Advantages	Benefits
Anchor welding flange Ø 250 mm	Easy to hot-air weld	Secure watertight connection to the roofing membrane
Anchor welding flange made of Sika compound	Correspond with the Sika Roof Application Manual	Resistant to weathering and UV exposure
Various colors of anchor welding flange available	Fits with the color of the roofing membrane	No visible color deviation on the roof surface
All metal parts are made of stainless steel	No corrosion expected	Long lifespan
Washer with fastener holes 7.20 and 15.35 mm	Also suitable for Sarnabar® Tube fastening system	Wider range of thermal insulation can be used
Anchors arranged as point fastening	Free waterflow to the rainwater outlets is ensured	No additional weight on the roof due to ponding water

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BASIC DESIGN CONSIDERATION

The specification for the quantities and positioning of the SikaRoof® Anchor points are calculated by the solar designer / installer. This is based on the size of the solar panels, possible snow load and the project-specific substructure with the defined distances.

Technical Specification	Data	Description
Washer plate	Ø 140 mm	Octagonal, stainless steel 2 mm In combination with mineral wool thermal insulation, fastener / tube combination shall be used
Anchor welding flange	Ø 250 mm	FPO or PVC
Compressive stress / load	≤ 140 kg ≤ 120 kg	EPS / PIR thermal insulation ≥ 120 kPa with 10% compressive strength Mineral wool thermal insulation ≥ 70 kPa with 10% compressive strength
Wind-uplift	2400 N / 240 kg	4 fastener (OSB, metal or concrete substrate)
Horizontal shear force	≤ 125 kg	OSB, metal or concrete substrate
Roof slope	≤ 10°	Greater slope on request
Internal thread	M12	Stainless steel
Height above membrane	42 mm	



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PRODUCT PORTFOLIO AND PROJECT CONSIDERATIONS / INFORMATION

PRODUCT PORTFOLIO

Article	Description	Roof System	Color
760750	SikaRoof® Anchor 250 CR	FPO	RAL 7040
761533	SikaRoof® Anchor 250 CR	FPO	Beige
764528	SikaRoof® Anchor 250 CR	FPO	RAL 9016
795332	SikaRoof® Anchor 250 CR	FPO	RAL 7012
764642	SikaRoof® Anchor 250 CR	PVC	Light grey
765146	SikaRoof® Anchor 250 CR	PVC	RAL 9016
795333	SikaRoof® Anchor 250 CR	PVC	Lead grey
759756	SikaRoof® Anchor Washer 140	All	Stainless steel

All products packed in cardboard box with 10 pieces.

PROJECT CONSIDERATIONS / INFORMATION



Checklist - Flatroof

Please send all the project information to K2 Solar Systems:
info@k2-systems.com

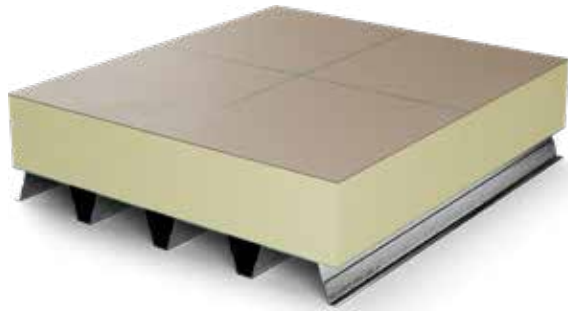
<https://k2-systems.com/en/product-solutions-category/flat-roof-systems/>



They will support you with the project design.

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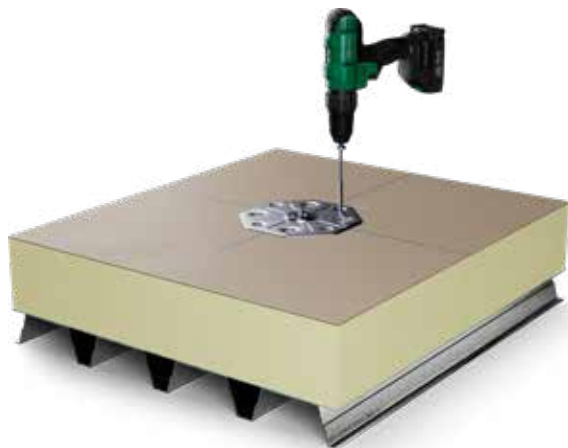
ANCHOR INSTALLATION



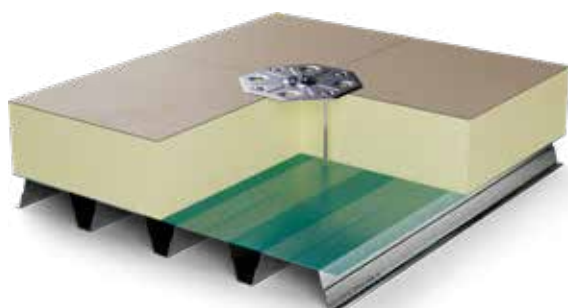
Mark the correct position of the SikaRoof® Anchor Washer 140 (fastener plate) on the roofing membrane according to the layout plan.



Place the SikaRoof® Anchor Washer 140 on the marking line.



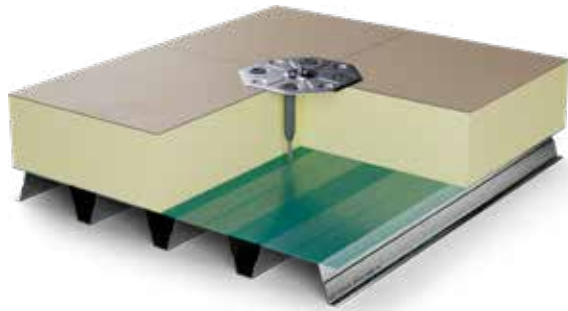
Fasten the SikaRoof® Anchor Washer 140 with the appropriate fasteners.



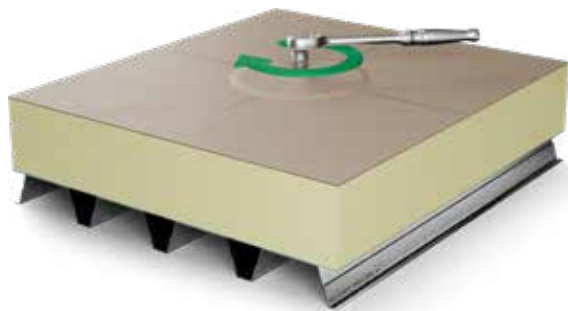
Sarnafast® Fastener SBF 6.0 x length
Metal: Roof build-up + 20 mm
OSB / Plywood: Roof build-up + 40 mm
Concrete: Roof build-up + 40 mm

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ANCHOR INSTALLATION



Combination with tubes and fastener
Sarnabar® Tube SBT-20 x length
Sarnafast® Fastener SBF 6.0 x length



Screw-on the SikaRoof® Anchor 250 CR on the SikaRoof® Anchor Washer 140 and tighten with a spanner no. 19.



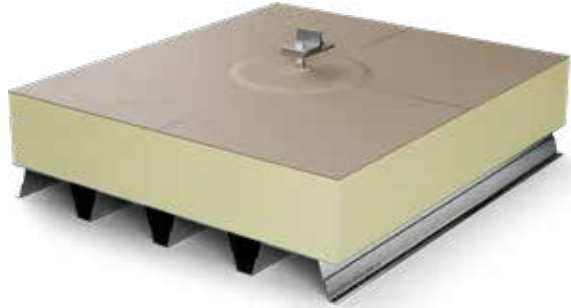
Clean the roofing membrane (marking lines) in the area of the hot-air welding seam.



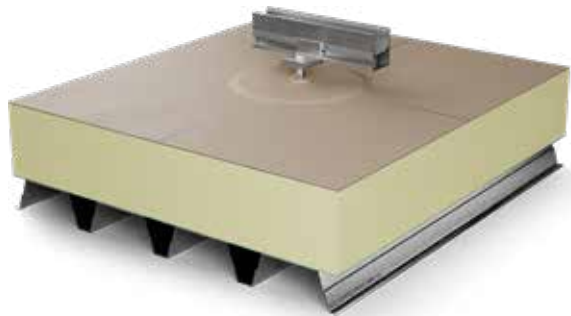
Hot-air weld the SikaRoof® Anchor 250 CR onto the roofing membrane according to the Sika Roof Application Manual.

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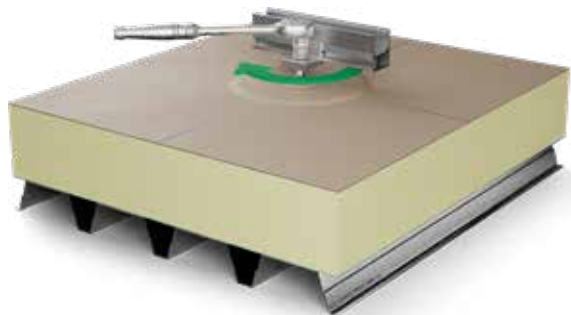
RAIL INSTALLATION



Install the Alu-Adapter plate, the Climber 36/50 with a M12 x 25 stainless steel fastener including washer.



Install the Aluminium SingleRail 50 or 36.



Fasten the M12 fastener.

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RAIL INSTALLATION



Install the Aluminium Single Rail 50 or 36 according to the layout plan.



Install for example the Dome 6 Peak and SD and the Dome Clamps for the panel fixing according to the project requirements.

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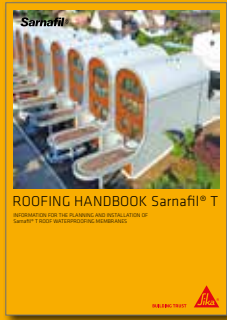
PANEL INSTALLATION



Install the panel and fix it properly with the clamps.



FURTHER ROOFING PUBLICATIONS AVAILABLE FROM SIKA



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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