

# RKA2500

ALPIN ON-ROOF COLLECTOR

*SONNENKRAFT*

## **EASY**

short mounting time thanks to unique mounting concept ALPIN FIX

## **EFFICIENT**

1,9 kWp thermal with 2,5 m<sup>2</sup> area

## **EXTRA**

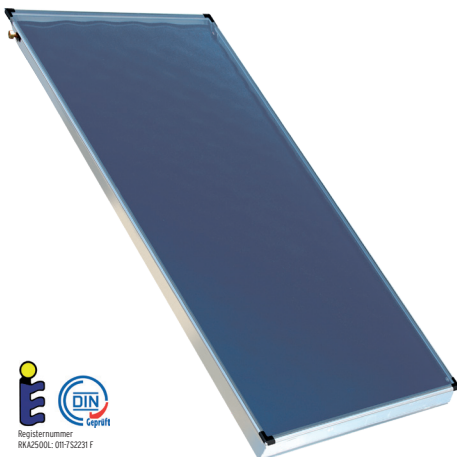
up to 960 kg snow load per collector



## TECHNICAL DATA

Name		RKA2500
Collectortype		Universal collector
Mounting type		On-roof mounting
Dimensions (H x W x D)	mm	2148 x 1168 x 83
Gross area	m <sup>2</sup>	2,51
Aperture area	m <sup>2</sup>	2,34
Absorber area	m <sup>2</sup>	2,32
Weight (empty)	kg	36
Collector capacity	l	1,7
max. operating pressure	bar	10
Idle temperature	°C	203 °C
Recommended throughput	l/h per m <sup>2</sup>	10 - 40
Collector field piping		portrait format: max. 6 in series landscape format: 4 in series (for more than 4 pcs. expansion elbows are required)
min. collector incline	°	15
max. collector incline	°	75
Connections		2x screw connection, flat sealing 1"
Absorber		Aluminium full surface absorber with highly selective vacuum coating
Hydraulic design		Harp
Absorption ( $\alpha$ ) / Emission ( $\epsilon$ )		95 / 5
Collector housing		Aluminium tray
Heat insulation		50 mm mineral wool
Collector glazing		3.2 mm toughened, low iron solar safety glass
Efficiency (Aperture/Absorber) $\eta_{0a} / \eta_{0A}$		0,802 / 0,777
Heat transfer coefficient $a_{is} / a_{iA}$		3,241 / 3,824
Temperature depending heat transfer coefficient $a_{zsf} / a_{zA}$		0,013 / 0,008
Solar Keymark Reg. N°		011-7S2231 F

\* To compensate for thermal expansion, expansion elbows are required with more than 4 collectors in series (see connection accessories 2 x 1411 + 1 x 1077)



## ON-ROOF MOUNTING



Roof bracket DBO



High-load roof bracket VA SLD0



High-load roof bracket VA SLD20



High-load roof bracket VA (90° turned) SLD90



Hanger bolt SSO



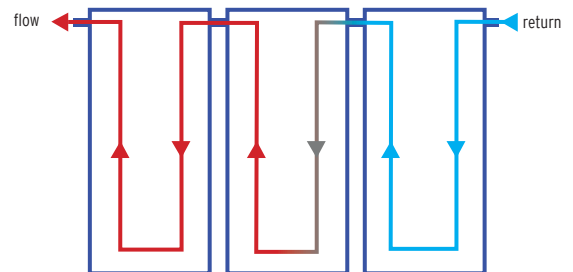
Hanger bolt SS20/35/50



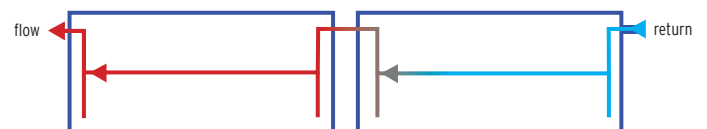
Seam clamp FKS

## CONNECTION

### Series connection portrait format



### Series connection landscape format



### PORTRAIT FORMAT



### LANDSCAPE FORMAT



To compensate for thermal expansion, expansion elbows are required