



Certificate number	16660 Rev.2	Replaces	16660 Rev.1
Issued	06/10/2025	First edition	21/09/2020
Report number	IN0000436	Expiry date	09/09/2030
Page	1 of 1	Contract number	IN0000470

Product Certificate Solar Thermal Products

License holder: **Solimpeks Enerji San. Ve Tic. A.Ş.**
Fevzi Çakmak Mh. 10753. Sk. No: 3-3A Karatay/Konya, Turkey

Production site(s): Solimpeks Enerji San. Ve Tic. A.Ş.
Fevzi Çakmak Mh. 10753. Sk. No: 3-3A Karatay/Konya, Turkey

Product Solar thermal collector

Model(s): EXCELLENT 2.6

Kiwa Cermet Italia hereby declares that the product can be considered complying to the testing requirements and is entitled to use the Solar Keymark Label, based upon the following aspects:

Laboratory testing of the solar thermal products, which are performed by an accredited laboratory in accordance to EN ISO/IEC 17025:2005 -see annex-, using the following standards:

- EN 12975:2022
Solar collectors - General requirements
- ISO 9806:2017
Solar Energy – Solar Thermal Collectors – Test Methods

Specific CEN Keymark Scheme Rules for Solar Thermal Products SKN_N0444R7.

Periodic Inspection of the Factory site(s) performed by Kiwa Cermet Italia.
A description of the test results is given in the annex to this certificate.

This certificate is issued in accordance with the Kiwa Cermet Italia regulations.

Publication of the certificate is allowed.

The validity of this certificate is subject to the positive result of periodic surveillance visits.

The validity of this certificate can be verified on request at the following e-mail address: energy@kiwacermet.it.

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PRD N° 0069PRD

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



034

Licence Number	16660 Rev.2
Date issued	2025-10-06
Issued by	Kiwa Cermet Italia S.p.A.

Licence holder	Solimpeks Enerji San. Ve Tic. A.Ş.	Country	Turkey
Brand (optional)		Web	http://www.solimpeks.com
Street, Number	Fevzi Çakmak Mh. 10753 Sk. No. 3-3A	E-mail	info@solimpeks.com
Postcode, City	Karatay/Konya	Tel	+90 444 06 02

Collector Type	Flat plate collector
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Power output per m ² gross area	783	753	679	586	475	475
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Performance parameters test method	Steady state - indoor									
Performance parameters (related to A ₆)	η ₀ , b	a ₁	a ₂	a ₃	a ₄	a ₅	a ₆	a ₇	a ₈	K _d
Units	-	W/(m²K)	W/(m²K²)	J/(m³K)	-	J/(m²K)	s/m	W/(m²K⁴)	W/(m²K⁴)	-
Test results	0.794	2.79	0.023	0.000	0.00	11 608	0.000	0.00	0.0E+00	0.91

Incidence angle modifier test method		Steady state - indoor								
Incidence angle modifier	Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
Transversal	$K_{gT, coll}$	0.99	1.00	1.01	1.01	0.97	0.87	0.69	0.41	0.00
Longitudinal	$K_{gL, coll}$	0.99	1.00	1.01	1.00	0.95	0.84	0.66	0.39	0.00

Heat transfer medium for testing	Water		
Flow rate for testing (per gross area, A_G)	dm/dt	0.020	kg/(sm ²)
Maximum temperature difference during thermal performance test	$(\vartheta_m - \vartheta_a)_{\max}$	40	K
Standard stagnation temperature ($G = 1000 \text{ W/m}^2$; $\vartheta_a = 30 \text{ }^\circ\text{C}$)	ϑ_{stg}	140	$^\circ\text{C}$
Maximum operating temperature	$\vartheta_{\max \text{ op}}$	120	$^\circ\text{C}$
Maximum operating pressure	$p_{\max \text{ op}}$	1000	kPa

Testing laboratory	Kiwa Cermet Italia S.p.A.	http://www.kiwa.com	
Test report(s)	L0000436 rev.00 L0000436 rev.01	Dated	10.09.2020 15.10.2021

Comments of testing laboratory		Ver. 6.2 (13.01.2022)
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This data sheet replaces the SK data sheet issued on 29th October 2021 due to recertification

TZS Forschungs- und
Testzentrum für
Solaranlagen
Institut für Thermodynamik und Wärmetechnik
Universität Stuttgart
Pfaffenwaldring 6, 70550 Stuttgart (Vaihingen)

Annex to Solar Keymark Certificate Supplementary Information	Licence Number	16660 Rev.2
	Issued	2025-10-06

Gross Thermal Yield in kWh/collector at mean fluid temperature ϑ_m													
Standard Locations		Athens			Davos			Stockholm			Würzburg		
Collector name	ϑ_m	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C
Excellent 2.6		3 285	2 471		2 594	1 852		1 886	1 288		2 049	1 399	

Additional Information					
Collector heat transfer medium				Water-Glycole	
The collector is deemed to be suitable for roof integration				No	
The collector was tested successfully under the following conditions:					
Climate class (A+, A, B or C)				A	--
G (W/m ²) >	1000	θ _a (°C) >	20	H _x (MJ/m ²) >	600
Maximum tested positive load				2500	Pa
Maximum tested negative load				2000	Pa
Hail resistance using steel ball (maximum drop height)				0.6	m
Additional collector attribute(s)					
Using external power source(s) for normal operation		No	Active or passive measure(s) for self-protection		
Co-generating thermal and electrical power		No	Façade collector(s)		

[illegible]

Data required for CDR (EU) No 811/2013 - Reference Area A_{sol}		Data required for CDR (EU) No 812/2013 - Reference Area A_{sol}	
Collector efficiency (η_{col})	63%	Zero-loss efficiency (η_0)	0.78
Remark: Collector efficiency (η_{col}) is defined in CDR (EU) No 811/2013 as collector efficiency of the solar collector at a temperature difference between the solar collector and the surrounding air of 40 K and a global solar irradiance of 1000 W/m ² , expressed in % and rounded to the nearest integer. Deviating from the regulation η_{col} is based on reference area (A_{sol}) which is aperture area for values according to EN 12975-2 or gross area for ISO 9806:2017.		First-order coefficient (a_1)	2.79
		Second-order coefficient (a_2)	0.023
		Incidence angle modifier IAM (50°)	1.00
		Remark: The data given in this section are related to collector reference area (A_{sol}) which is aperture area for values according to EN 12975-2 <u>or</u> gross area for ISO 9806. Consistent data sets for either aperture or gross area can be used in calculations like in the regulation 811 and 812 and simulation programs.	