

Certificate number	16596 Rev.0	Replaces	-
Issued	23/06/2020	First edition	23/06/2020
Report number	PKC0004489	Expiry date	19/12/2023
Page	1 of 1	Contract number	PKC0004503

Product Certificate Solar Thermal Products

License holder:	ATAG Italia S.r.l. Via 11 Settembre, 6/1 – 37019 Peschiera del Garda (VR), Italy
Production site(s):	Via Venezia 11 – 37053 Cerea (VR), Italy
Product	Solar thermal collector
Model(s):	SOLDPF10T

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 ISO/IEC 17025 -see annex-, using the following standards:

- ISO 9806:2013
Solar Energy – Solar Thermal Collectors – Test Methods

Specific CEN Keymark Scheme Rules for Solar Thermal Products SKN_N0444R3.

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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Chief Operating Officer
Giampiero Belcredi



Kiwa Cermet Italia S.p.A.

Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

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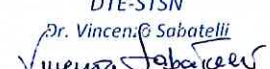
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Annex to Solar Keymark Certificate					Licence Number		16596 Rev.0							
					Date issued		2020-06-23							
					Issued by		Kiwa Cermet Italia S.p.A.							
Licence holder		ATAG Italia S.r.l.			Country		Italy							
Brand (optional)					Web		http://www.atagitalia.com							
Street, Number		Via 11 Settembre, 6/1			E-mail		info@atagitalia.com							
Postcode, City		37019 Peschiera del Garda (VR)			Tel		+39 030 9904804							
Collector Type					Evacuated tubular collector									
Collector name					Power output per collector									
					Gb = 850 W/m ² , Gd = 150 W/m ² & u = 1.3 m/s									
					$\vartheta_m - \vartheta_a$									
					0 K	10 K	30 K	50 K	70 K	93 K				
					m ²	mm	mm	mm	W	W	W	W	W	W
SOLDPF10T					2,12	1.106	1.921	114	1.272	1.250	1.189	1.107	1.002	857
									0	0	0	0	0	
Power output per m ² gross area					600	590	561	522	473	404				
Performance parameters test method		Steady state - outdoor												
Performance parameters (related to A _G)		η_0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd			
Units		-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	J/(m ² K)	s/m	W/(m ² K ⁴)	W/(m ² K ⁴)	-			
Test results		0,602	0,910	0,013	0,000	0,00	50.900	0,000	0,00	0,0E+00	0,98			
Incidence angle modifier test method		Steady state - outdoor												
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		K _{GT, coll}	1,01	1,02	1,06	1,10	1,14	1,16	1,12	0,56	0,00			
Longitudinal		K _{GL, coll}	1,00	0,99	0,98	0,95	0,91	0,84	0,69	0,35	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					$(\vartheta_m - \vartheta_a)_{max}$	62,6	K							
Standard stagnation temperature (G = 1000 W/m ² ; $\vartheta_a = 30$ °C)					ϑ_{stz}	279	°C							
Maximum operating temperature					$\vartheta_{max, op}$	130	°C							
Maximum operating pressure					$p_{max, op}$	1000	kPa							
Testing laboratory		ENEA Centro Ricerche Trisaia					http://www.trisaia.enea.it							
Test report(s)		RP.2018.COL.202.1 RP.2018.COL.202a.1					Dated		18/12/2018 18/12/2018					
Comments of testing laboratory					Datasheet version: 6.1, 2019-09-26									
					 DTE-STSN Dr. Vincenzo Sabatelli 									
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