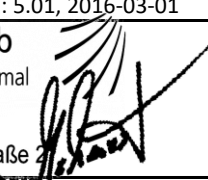


Annex to Solar Keymark Certificate - Summary of EN ISO 9806:2013 Test Results						Licence Number		011-7S3036 L																	
						Date issued		2021-09-15																	
						Issued by		Din Certco																	
Licence holder		Atas International				Country		Vereinigte Staaten von Amerika																	
Brand (optional)						Web		www.atas.com																	
Street, Number		6612 Snowdrift Road				E-mail		cvachon@atas.com																	
Postcode, City		18106, ALLENTOWN, PA				Tel/Fax		+1 819 347-5477 /																	
Collector Type						Flat plate collector, unglazed																			
Collector name						Power output per collector unit [W]																			
						wind speed, u = 1,3 m/s																			
						Air flow rate [kg/h]		Net irradiance, G" [W/m ²]																	
								400		700		1000													
Inspire Select						2,56		2.438		1.028		250		98		421		734		1047					
						320								320		731		1274		1817					
						548								548		834		1453		2073					
Maximum power output per m ² gross area												810													
Performance parameters test method						Steady state - indoor																			
Performance parameters (related to AG)						ṁ		η _{0,hem}		b ₂		b ₂		b _u		ε/α									
Units						kg/h		-		W/(m ² K)		Ws/(m ³ K)		s/m		-									
Test						98		0,503		-		-		0,070		0,000									
						320		0,816		-		-		0,079											
						548		0,895		-		-		0,062											
Incidence angle modifier test method						Steady state - outdoor																			
Bi-directional incidence angle modifiers						No																			
Incidence angle modifier						Angle		10°		20°		30°		40°		50°		60°		70°		80°		90°	
Transversal						K _{BT, coll}		1,00		1,00		1,00		1,00		0,99		0,96		0,87		0,63		0,00	
Longitudinal						K _{BL, coll}		1,00		1,00		1,00		1,00		0,99		0,96		0,87		0,63		0,00	
Heat transfer medium for testing						Air																			
Maximum flow rate for testing (per gross area, A _G)						dm/dt		0,059		kg/(sm ²)															
Maximum temperature difference for thermal performance calculations						(ṡ _m -ṡ _a) _{max}		19		K															
Standard stagnation temperature (G = 1000 W/m ² ; ṡ _a = 30 °C)						ṡ _{stg}		119		°C															
Effective thermal capacity, incl. fluid (per gross area, A _G)						C/m ²		7,3		kJ/(Km ²)															
Maximum operating temperature						ṡ _{max, op}		120		°C															
Maximum operating pressure						p _{max, op}		-		kPa															
Testing laboratory		TestLab Solar Thermal Systems, Fraunhofer ISE				http://www.collectortest.com																			
Test report(s)		KTB Nr.: 2020-02-k2				Dated		21.07.2021																	
Comments of testing laboratory						Datasheet version: 5.01, 2016-03-01																			
<p>Note: Scenocalc results and energy labeling information (see p.2) is not applicable for solar air heating collectors which can only be measured in open to ambient operation. The performance parameters are given as instantaneous efficiency points.</p>						<p>TestLab Solar Thermal Systems</p>  Heidenhofstraße 2 D-79110 Freiburg Tel: +49 (0)761 4588 5354																			
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