

AENOR

Keymark Certificate Solar thermal energy



078/000263

AENOR certifies that the organization

BDR THERMEA GROUP B.V

registered office MARCHANTSTRAAT, 55 7300 AA APELDOORN (Holanda - Países Bajos)

supplies Solar collectors

in compliance with UNE-EN 12975-1:2006 (EN 12975-1:2006)

Trade Mark BAXI SB21+ SLIM
Technical information Specified in Annexes to the Certificate

Production site CL MANGANÉS, 2 08755 CASTELLBISBAL (Barcelona - España)

Certification scheme In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 078.01.

This certificate supersedes 078/000263, dated 2016-02-16

First issued on 2016-02-16
Modified on 2017-11-23
Validity date 2021-02-16


Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
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Product certification body accredited by ENAC, number 01/C-PR002.078



Summary of EN 12975 Test Results,						Licence Number		078/00263							
annex to Solar KEYMARK Certificate						Issued		2017-11-23							
Company holding the		BDR THERMEA GROUP B.V.				Country		NETHERLANDS							
Brand (optional)		--				Website		www.bdrthermea.com							
Street, street number		MARCHANSTRAAT 55				E-mail		oleguer.fuertes@baxi.es							
Postal Code / City, province		7300 AA	APPELDOORN			Tel/Fax		+34 902898989							
Collector Type (flat plate glazed/un-glazed; evacuate tubular)						Flat plate collector - glazed									
Thermal / photo voltaic hybrid collector? (PVT collector)						No									
Integration in the roof possible ? (manufacturers declaration)						No									
						Power output per collector module									
						G = 1000 W/m ²									
Collector name						T _m -T _a									
						0 K	10 K	30 K	50 K	70 K					
						W	W	W	W	W					
BAXI SB21+ SLIM						1,92	1.757	1.151	46	2,02	1.405	1.328	1.154	953	727
Performance test method						Glazed liquid heating collector - steady state - indoor									
Performance parameters related to aperture						η_0	a1	a2							
Units						-	W/(m ² K)	W/(m ² K ²)							
Test results - Flow rate and fluid see note 1						0,732	3,860	0,017							
Bi-directional incidence angle modifiers?						No <i>Kθ values are obligatory for 50°.</i>									
Incidence angle modifiers Kθ(θ)						Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
						K θ (θ)					0,95				
Incidence angle modifier not bi-directional - leave fields blank															
Stagnation temperature - Weather conditions see note 2						T _{stg}		212,3		°C					
Effective thermal capacity						c _{eff} = C/Ag		3,79		kJ/(m ² K)					
Max. intende operation temperature - see note 3						T _{max,op}		180		°C					
Max. operation pressure - see note 3						p _{max,op}		1000		kPa					
Pressure drop table - for a collector family, the values shall be for the module with highest ΔP per m² aperture area															
Flow rate	kg/(s m ²)	0,000	0,010	0,023	0,035	0,047	0,060								
Pressure drop, ΔP	Pa	0	56	161	283	432	636								
Optional weather data		Location			Link										
Testing Laboratory						Fundación CENER-CIEMAT, LEST									
Website						www.cener.com									
Test report id. number						30.2755.0-1-1 R			Date of test report			04/02/2016			
						30.2755.0-2-1 / 30.2755.0						28/12/2015			
During the test GDIF/GTOT was always between						0,08	and	0,09							
Comments of testing laboratory:															
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Note 1	Flow rate	0,020	kg/(s m ²)	Fluid	Water										
Note 2	Irradiance, G = 1000 W/m²; Ambient temperature, T_a=30 °C														
Note 3	Given by manufacturer														
						 Datasheet version: 4.06, 2014-01-15									
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