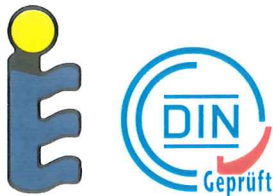


CERTIFICATE

Certificate holder	Riello S.p.A. Via Ing. Pilade Riello 7 37048 Legnago VR ITALY
Production facility	Morbegno
Product	Solar collectors
Type, Model	CP20TSS
Testing basis	DIN EN 12975-1:2011-01 DIN EN 12975-1:2006-06 Specific CEN Keymark Scheme Rules for Solar Thermal Products Version 29.00 (2016-12)
Mark of conformity	
Registration No.	011-7S2400 F
Valid until	2019-07-31
Right of use	This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.

ANNEX

Page 1 of 1

Certificate 011-7S2400 F dated 2017-07-13

Technical Data See data sheet, part of the test report of 2014-07-07

Note(s):

- The freeze resistance test according to DIN EN 12975-2, clause 5.8 was not necessary. According to the manufacturer's declaration, the certified solar collectors may be used in frost exposed areas only in combination with appropriate frost protection mixtures.

- The optional impact resistance test according to DIN EN 12975-2, clause 5.10 was not carried out.

**Testing laboratory/
Inspection body** Institut für Solartechnik SPF
Hochschule für Technik
Rapperswil
Oberseestraße 10
8640 Rapperswil
SWITZERLAND

Test report(s) No. C1631LPEN, No. C1631QPEN dated 2014-07-07



[illegible]

Annual collector output based on EN 12975 Test Results, annex to Solar KEYMARK Certificate	Licence Number	011-7S2400 F
	Issued	2014-07-22

Annual collector output kWh/module													
Collector name	Location and collector temperature (T_m)												
	Athens			Davos			Stockholm			Würzburg			
	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	
CP20TSS	2'102	1'372	851	1'521	994	615	1'125	683	404	1'226	731	423	

Collector mounting: Fixed or tracking	Fixed; slope = latitude - 15° (rounded to nearest 5°)
--	--

Overview of locations				
Location	Latitude °	G _{tot} kWh/m²	T _a °C	Collector orientation or tracking mode
Athens	38	1'765	18.5	South, 25°
Davos	47	1'714	3.2	South, 30°
Stockholm	59	1'166	7.5	South, 45°
Würzburg	50	1'244	9.0	South, 35°

G _{tot}	Annual total irradiation on collector plane	kWh/m²
T _a	Mean annual ambient air temperature	°C
T _m	Constant collector operating temperature (mean of in- and outlet temperatures)	°C

The calculation of the annual collector performance is performed with the official Solar Keymark spreadsheet tool ScenoCalc. The collector output is calculated hour by hour according to the efficiency parameters from the Keymark test using constant collector operating temperature (T_m). A detailed description of the calculations is available at <http://www.sp.se/en/index/services/solar/ScenoCalc/Sidor/default.aspx>.

DIN CERTCO • Alboinstraße 56 • 12103 Berlin, Germany Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de	Datasheet version:
	4.06, 2014-01-15
	ScenoCalc version: Ver. 4.06 (Jan, 2014)

SYLBER

Via Risorgimento, 23/a
23900 Lecco
Tel. +39 0341 277111

sylber@sylbercaldaie.it
www.sylber.it

RIELLO S.p.A.
Società con Socio unico soggetta alla
direzione e coordinam. di Riello Group SPA
Sede legale e amministrativa
37045 Legnago (VR) - Via Ing. Pilade Riello, 7
Cap. Soc. € 7.117.400,00 i.v.
Reg. delle Imp. di Verona N. 40442
C.F. e Part. IVA 02641790239

Lecco, 1° giugno 2016

IDONEITA' DEI SISTEMI SOLARI SN PER L'ACCESSO AL CONTO ENERGIA TERMICO

Con il presente documento, si dichiara che i collettori solari termici (mod. CP20TSS) che compongono i sistemi solari

SN 150/1, SN 200/1, SN 220/2, SN 300/2, SN 300/3

soddisfano i requisiti tecnici riportati nell'Allegato I, paragrafo 2.3 del Decreto 16 febbraio 2016 in quanto:

- a) sono dotati di certificazione Solar Keymark;
- b) hanno valori di producibilità specifica, espressa in termini di energia solare annua prodotta per unità di superficie lorda, calcolata per una temperatura media di funzionamento di 50°C, superiore a 300 kWh/m²*anno, riferita alla località di Würzburg;
- c) hanno garanzia 5 anni;

I collettori sopra menzionati sono conseguentemente in possesso dei requisiti per l'accesso agli incentivi relativi agli interventi di cui all'articolo 4, comma 2, lettera c del Decreto 16 febbraio 2016.

Product Marketing Residential HVAC

Riccardo Rompani

