

# SolarTerra®



## Honouring traditions

SolarTerra® is a solution developed in Switzerland which aims to equip old buildings with solar technology while respecting their cultural heritage.

It is a fully integrated solution that replaces conventional roofing tiles and generates electricity. With a seamless design, each tile looks beautiful from near and far, and complements the architecture of the building.



## Built to last

SolarTerra® uses Solrif, a patented tiles system from the Swiss family business Ernst Schweizer located in Hedingen with +100 years of history. The system ensures water tightness and withstands heavy snow loads.

The red colour is obtained from ceramic pigments that are fused into the glass. The tile is equipped with high efficiency solar cells (>21.6%) to maximise electricity production.



## SOLAR TILES FOR OLD BUILDINGS AND HERITAGE CONSERVATION

- Designed by art historians
- Stronger than traditional tiles
- Up to 185 kWh per m<sup>2</sup>

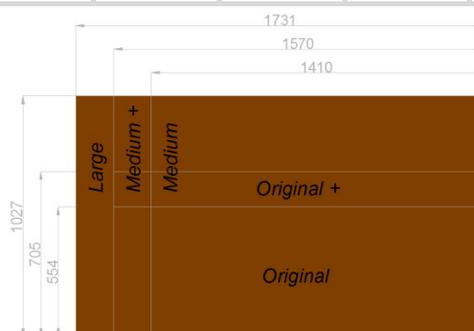
**YouTube** <http://video.issol.ch> or <http://solarterra.issol.ch>



## Specifications

Color	B-SR-TC, G-SR-TC TerraCotta					B-SR-C, G-SR-C Copper				
	Model	Large	Medium +	Medium	Original+	Original	Large	Medium +	Medium	Original+
Cell Number, pc	60	54	48	36	27	60	54	48	36	27
Nominal Power, Wp	250	225	200	150	115	305	275	245	185	140
MPP Voltage, Vmpp	36,41	32,77	29,13	21,85	16,39	36,41	32,77	29,13	21,85	16,39
MPP Current, Impp	6,79	6,79	6,79	6,79	6,79	8,28	8,28	8,28	8,28	8,28
OC Voltage, Voc	42,46	38,22	33,97	25,48	19,11	42,46	38,22	33,97	25,48	19,11
SC Current, Isc	7,12	7,12	7,12	7,12	7,12	8,68	8,68	8,68	8,68	8,68

Maximum system voltage	1500V DC
Cables and connectors	Class II double insulated 4 mm cable Standard MC4/PV4 compatible connector 1 m cable length
Temperature coefficients	dPmpp/dT: - 0,391 % / °K dVoc/dT: -0,3055 % / °K dIsc/dT: 0,0455 % / °K
Electrical performance warranty	90% / 12 years 85% / 25 years



## Mechanical properties

Type	Model	Dimensions (incl. frame), mm	Weight, kg	Frame	Composition	Mechanical resistance, Pa
SolarTerra B-SR-TC B-SR-C	Large	1731x1027x17	16	Solrif® N	Front surface – 3,2 mm extra-clair, textured, colored, tempered glass Back surface – Backsheet, black	4800
	Medium +	1570x1027x17	14			
	Medium	1410x1027x17	13			
	Original +	1570x705x17	10			
	Original	1570x554x17	8			
SolarTerra G-SR-TC G-SR-C	Large	1731x1027x20	29	Solrif® D	Front surface – 3,2 mm, extra-clair, textured, colored, tempered glass Back surface – 3 mm, tempered glass	7200
	Medium +	1570x1027x20	26			
	Medium	1410x1027x20	24			
	Original +	1570x705x20	19			
	Original	1570x554x20	15			

## Certifications / Standards

Manufactured in Europe with quality control by Activ'Glass / Issol Schweiz AG

Tiles design correspond to EN-12543, EN-572-5, EN-12150-1, EN-1863-1, IEC 61215, IEC 61730.

Declaration of conformity (CE) to the following standards: IEC 61215, IEC 61730.

Pendulum test according to EN 12600

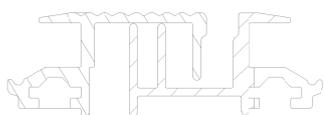
## Colors Terra Cotta



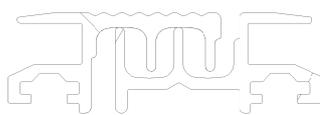
## Colors Copper



## Frames Solrif D



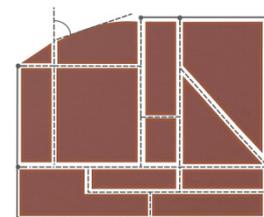
## Frames Solrif N



SolarTerra® uses Solrif®, a system patented and certified by TUV, Deutsche Institut für Bautechnik & CSTB



CUSTOM SIZE  
AVAILABLE TO FIT  
ANY ROOF  
GEOMETRY



## Activ'Glass®

Sales Office: Issol Switzerland GmbH  
Hanggiwiesstrasse 5 CH-8832 Wilen bei Wollerau  
+41 44 585 13 00

Enquiry: [pvglazing@activ-glass.com](mailto:pvglazing@activ-glass.com)



\* Measured under Standard Test Conditions of 1000 W/m<sup>2</sup> irradiance, AM1.5 spectrum, 25°C cell temperature. Values of power ±5 W.

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