

# SVN/GE Suncol Tile M3

The roof integrated photovoltaic system



## **Suncol Tile**

Suncol Tile is a **customisable** and **appealing** solar roof that fully **blends in** with the aesthetic of any structure.

It substitutes traditional roofing material by seamlessly integrating into any roof.

Its high energy efficiency changes the way homes work and reduces CO<sub>2</sub> emissions making the building sustainable.

SUNCOL







### **Roof with PV panels**









No aesthetics

2x roof products 2x installations

**Roof with Suncol Tile** 



1x roof product 1x installation



1x cost 1x maintenance



Appealing aesthetics

## Why Suncol Tile?



**Fast Fix**: Its exclusive fixing concept makes it incredibly easy to install.







**Customisation**: Design your solar roof from a wide range of choices.





### **Key Product Features**















### Colours



**Terracotta simil ral 8015** 



**Brown simil ral 8016** 



Front glass trasp / back black

### **Texturing**



coppo red



coppo aged

marsigliese







#### perlina grey





perlina aged

coppo grey

## Modularity





#### SUNCOL-TILE 16-V













### Modularity Create your roof



#### **SUNCOL-TILE 16-V**







**SUNCOL-TILE 8** 









### **Modularity** Create your roof





### **Modularity** Create your roof – Laying variants

#### Linear joints



#### Middle joints 1/2



Irregular joints

#### **Dummy modules**

- → Aesthetically identical to active modules but non-active
- $\rightarrow$  Used to complete all the roof surface





## **Warranty & Certificate**

Warranty				
Factory defects12 years				
Performance	Linear decay ≤ 80% in 25 years			
Certificate				
IEC 61215   IEC 61730				







## **Physical Characteristics**

Front Glass	thickness 3.2 mm, texturing Suncol / transparent	
Cells	monocrystalline cells 158.75x158.75 mm high efficiency	
Encapsulant	<b>EVA Solar</b>	
<b>Back Glass</b>	thickness 3.2 mm, black color	
Thickness	8 mm (-0.5mm / +1.5mm)	
<b>Junction Box</b>	<b>JB IP 67</b>	
<b>Connector Features</b>	MC4 original	
<b>Cable Characteristics</b>	Ø 4 mm2 – length 800 mm	





## **Physical Characteristics**

MODUL 32 CELLS			
Weight 21 Kg			
MODUL 16-V CELLS			
Weight	10.5 Kg		
MODUL 16-H CELLS			
Weight	11.5 Kg		
MODUL 8 CELLS			
Weight 6 Kg			

Maximum snow load (Pa)	5400	
Maximum load tested (Pa)	8000	
Maximum wind speed	130 Km/h	
Hail	G3 Class; Ø 25 mm; 82 Km/h	
<b>Reaction to fire</b>	Class 1	





#### MODUL 32 CELLS

	SUNCOL TILE Terracotta RAL 8015 / Brown RAL 8016	SUNCOL TILE BI FRONT GLASS TRANSPARENT	.K r
Vmp	16.99	17.36	V
Imp	8.87	9.22	Α
Р	150	160	Wp
Voc	21.19	21.31	V
lsc	9.25	9.54	Α
Temp. Coeff. Current α	0.025	0.048	(%/°C)
Temp. Coeff. Voltage β	- 0.28	- 0.29	(%/°C)
Temp. Coeff. Power γ	- 0.42	- 0.42	(%/°C)
NOCT	52	45	°C
2 Diodes	Max. Ca	pacity fuse L5 V	Max. Voltage systems 1000 V





MODUL 16 CELLS

	SUNCOL TILE Terracotta RAL 8015 / Brown RAL 8016	SUNCOL TILE BLI FRONT GLASS TRANSPARENT	K
Vmp	8.49	8.67	V
Imp	8.87	9.22	Α
Р	75	80	Wp
Voc	10.59	10.66	V
Isc	9.25	9.54	Α
Temp. Coeff. Current α	0.025	0.048	(%/°C)
Temp. Coeff. Voltage β	- 0.28	- 0.29	(%/°C)
Temp. Coeff. Power γ	- 0.42	- 0.42	(%/°C)
NOCT	52	45	°C
1 Diode	Max. Capa 15	acity fuse V s	Max. Voltage vstems 1000 V





MODUL 16 CELLS

	SUNCOL TILE Terracotta RAL 8015 / Brown RAL 8016	SUNCOL TILE BLK FRONT GLASS TRANSPARENT	
Vmp	8.49	8.67	V
Imp	8.87	9.22	Α
Р	75	80	Wp
Voc	10.59	10.66	V
Isc	9.25	9.54	Α
Temp. Coeff. Current α	0.025	0.048	(%/°C)
Temp. Coeff. Voltage β	- 0.28	- 0.29	(%/°C)
Temp. Coeff. Power γ	- 0.42	- 0.42	(%/°C)
NOCT	52	45	°C
1 Diode	Max. Capa 15	Max. Capacity fuse M	





**MODUL 8 CELLS** 

		SUNCOL TILE Terracotta RAL 8015 / Brown RAL 8016	SUNCOL TILE B FRONT GLASS TRANSPAREN	LK S T
	Vmp	4.25	4.35	V
	Imp	8.87	9.22	А
	Р	37.5	40	Wp
	Voc	5.30	5.33	V
	lsc	9.25	9.54	Α
	Temp. Coeff. Current α	0.025	0.048	(%/°C)
	Temp. Coeff. Voltage β	- 0.28	- 0.29	(%/°C)
	Temp. Coeff. Power γ	- 0.42	- 0.42	(%/°C)
	NOCT	52	45	°C
	1 Diode	Max. Capacity fuse		Max. Voltage systems 1000 V









### **System Components**

- 1. Snow stop system for 2 tubes, different types
- 2. Snow protection tube with thread/sleeve, powder-coated colour of the PV module
- 3. Safety hook
- 4. Edge or ridge finish with customised sheet powder coated in the same colour as the PV module, different types
- 5. Biting and self-tapping screws
- 6. Sealing tape
- 7. Connection plate with perforated edge, different types







## **Application Example**















## **Application Example**







## **Application Example**







### Roof Project Seergräben, Switzerland (2020)



#### Type of building: Multi-functional

Power installed: 7.5 kWp

Efficiency: 15.75%

Surface: 68 sqm

Number of installed modules: 63

Type of modules: Glass / Glass 3.2+3.2 mm

**Colour: Terracotta** 

Finishing: Front solar glass

Structure: Hidden brackets mounting structure



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### Roof Project Varen, Switzerland (2020)



Type of building: Residential

Power installed: 19 kWp

Efficiency: 18%

Surface: 119 sqm



Number of installed modules: 120

Type of modules: Glass / Glass 3.2+3.2 mm

**Colour: Black** 

**Finishing: Front solar glass** 

Structure: Hidden brackets mounting structure



































## Thank You Envision. Design. Go Solar.

