

SGLARSTONE

DURABLE
BUILDING-INTERGRATED
ROOFTOP SOLAR PANELS
REPLACING TRADITIONAL ROOFING



# LET'S ELIMINATE THE NEGATIVE VISUAL APPEAL OF REGULAR SOLAR ROOF

We've developed 2 size BIPV panels 85W and 105W that interlock perfectly with any type of roof tiles.

Unique built-in roof system by SolarStone combines modern seamless design with practicality. SolarStone modules are installed directly onto timber batten without any costly fittings.





# LET'S FORGET ABOUT BOLT-ON PANELS THAT CLUTTER BEAUTIFUL ROOFTOPS

SolarStone will provide maximum protection from the weather and generate power at relatively low costs. SolarStone panels do not need any additional fittings.

SolarStone panels are installed directly onto the wooden battens. Connect the MC4 connectors, boot up the inverter and voilá!

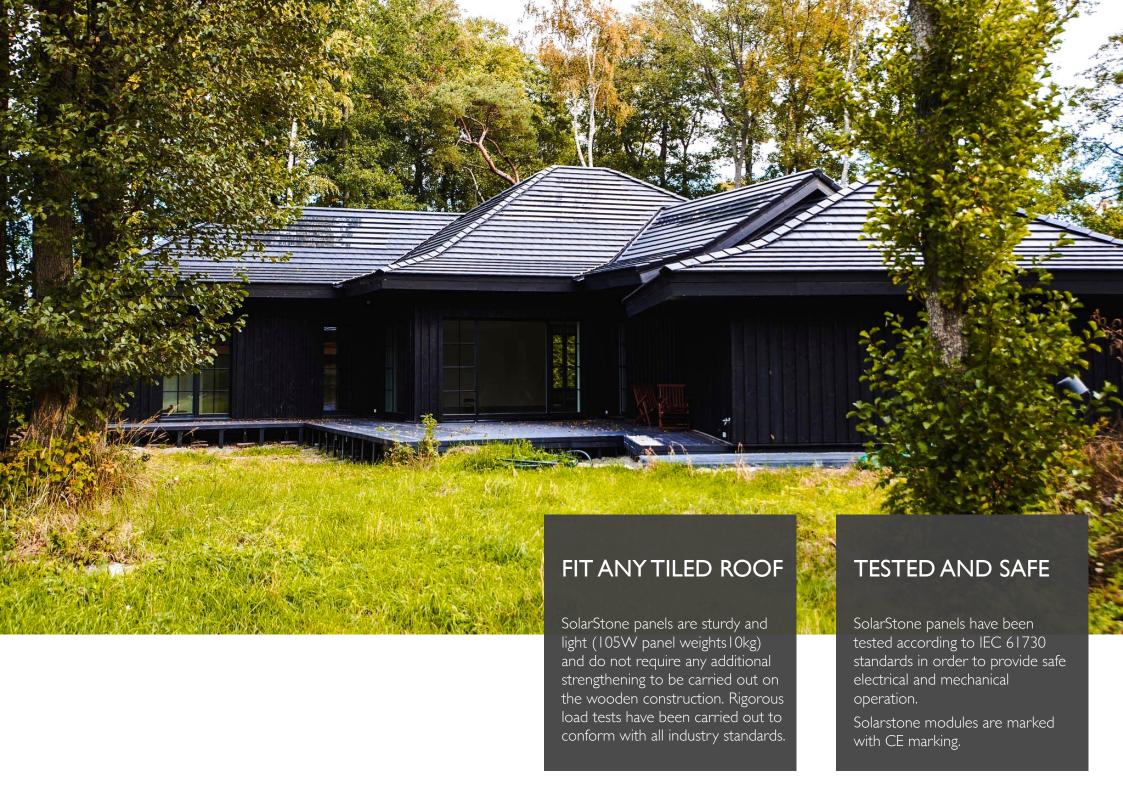
# SOLARSTONE PANELS INTERLOCK WITH ANY CONCRETE OR CLAY TILE ON THE MARKET?

SolarStone modular panels match with an endless variety of flat or undulating tiles available on the market (Monier, Benders, Wienerberger etc).

The aluminium framing is made to interlock with the characterists of the specific tile the Client prefers.

However, the panels look the best with flat dark concrete tiles.









# HOW MANY SOLARSTONE PANELS DO I NEED TO FULFIL MY ENERGY NEEDS?

Every project should be dealt separately given desired results. Familiarise with your current energy consumption and let us do the math.

Keep in mind that an average household consumes approximately 10000kWh per year.

This equals with approximately 100 sleek SolarStone panels (requiring 60m² roofspace) to get you covered for generations to come.

# WHAT SORT OF CHALLENGES WILL SNOW AND/OR ICE POSE TO THE INTEGRITY AND LONGEVITY?

SolarStone panels have high durability due to extra strong framing. Interlocking and overlapping system of panels prevents any snow or ice piling to a degree that would compromise the integrity of the product.

Panels have been tested in wind tunnel.



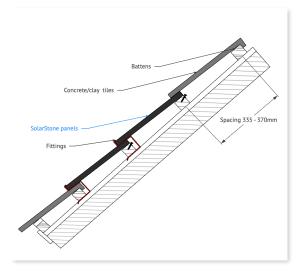


## REQUIREMENTS I SHOULD CONSIDER BEFORE I INSTALL SOLARSTONE PANELS?

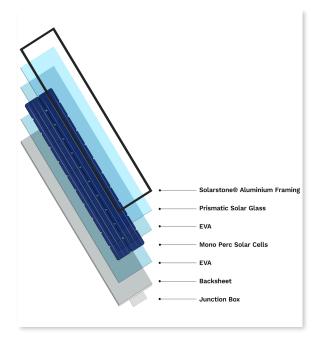
Most crucial requirement is the direct exposure to the Sun in order to maximise the efficiency of the panels.

High trees and buildings hindering southward sunlight should be considered when planning the project.

Minimum pitch of installed modules is dependent on tile manufacturer's requirements (usually 17 degrees). The most suitable slope to install SolarStone modules is from 20 to 45 degrees.



# COMPOSITION



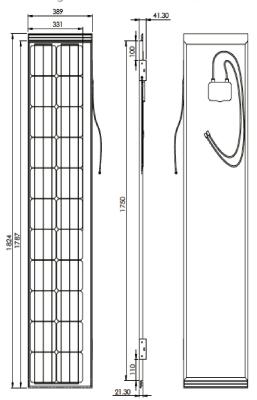
### Advantages

- Easy-to-mount BIPV to replace regular roofing systems
- Aesthetically attractive
- Weather-proof and highly durable
- Best solution for historic buildings
- No expensive fittings required
- High static load rating
- 10-year warranty for defects
- 25-year warranty for output

### Materials and production

- Coated black aluminium frame
- Monocrystlline silicon cells
- Prismatic 3,2 mm glass
- Flash testing to ensure rated level of output
- Lead-free solder protects health and the environment
- Utility patented solution (EPO)

## Drawings and Dimensions Unit: (mm)



## Specifications

| Manufacturer                      | SolarStone                    |
|-----------------------------------|-------------------------------|
| Model name                        | S105B2                        |
| Cell type                         | Monocrystalline, 156 x 156 mm |
| Number of cells                   | 22                            |
| Maximum power rating (Pmax)       | 105                           |
| Tolerance of maximum power rating | +3/-3%                        |
| Power temperature coefficient     | -0.414 %/°C                   |
| Open circuit voltage (Voc)        | 13,81                         |
| Short circuit current (Isc)       | 9,13                          |
| Maximum power voltage (Vmp)       | 11,9                          |
| Maximum power current (Imp)       | 8,9                           |
| Maximum system voltage            | 1000                          |
| Fuse rating                       | 12A                           |
| Static load test passed           | 250 kg/m2                     |
| Dimensions (mm)                   | 1824 x 389 x 21               |
| Dimensions (mm, installed)        | 1787 x 331 370 x 21           |
| Weight (kg)                       | 10                            |
| Module efficiency                 | 18,5%                         |
| Output terminal                   | MC4                           |
| Fire rating                       | Class C                       |
| Certifications                    | IEC 61215                     |



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