DURABLE

BUILDING-INTERGRATED

ROOFTOP SOLAR PANELS

REPLACING TRADITIONAL ROOFING

SOLARSTONE

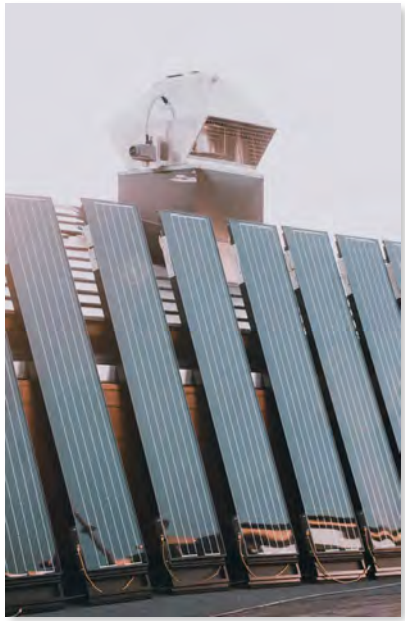
NEAT LOOKING SOLAR ROOF TO REDUCE YOUR ENERGY BILLS?

85W & 105W Interlocking Solar Tiles

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.

FIT ANY TILED ROOF

SolarStone panels are sturdy and light (105W panel weights10kg) and do not require any additional strengthening to be carried out on the wooden construction. Rigorous load tests have been carried out to conform with all industry standards.

TESTED AND SAFE

SolarStone panels have been tested according to IEC 61730 standards in order to provide safe electrical and mechanical operation.

Solarstone modules are marked with CE marking.

OVER 200 PROJECTS

SolarStone has been well recieved in the Nordic and Baltic region with more than 200 BIPV solar roofs completed.

Combined output of systems installed by late 2019 is approximately 1,8MW.

AWARD-WINNING

SolarStone building-integrated solar products have been awarded internationally.

Innovative Solarstone design has been granted with European patent: EP 3 319 228 B1

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.

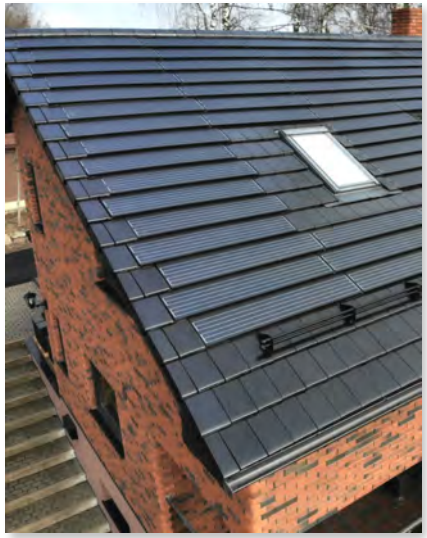
Keep in mind that an average household consumes approximately 10000kWh per year.

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.



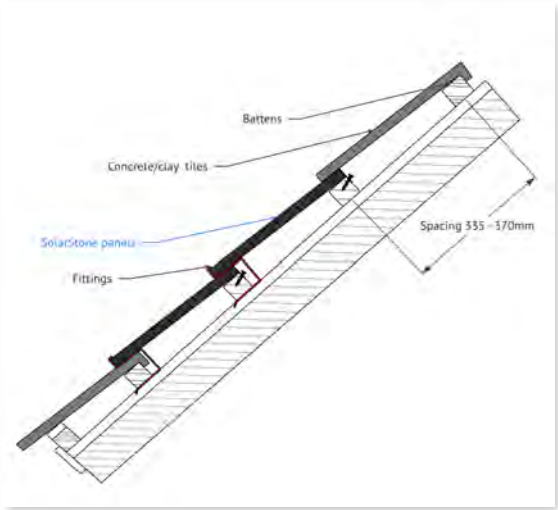
REQUIREMENTS I SHOULD CONSIDER BEFORE I INSTALL SOLARSTONE PANELS?

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

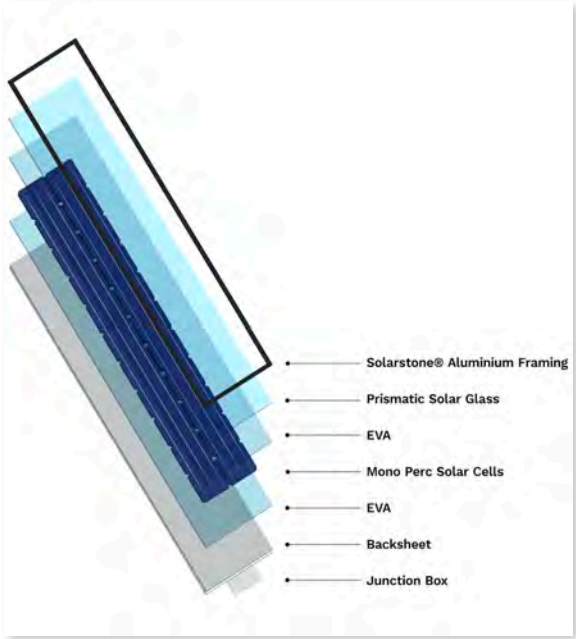
High trees and buildings hindering southward sunlight should be considered when planning the project.

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.

INSTALLATION



COMPOSITION



TECH SPECS

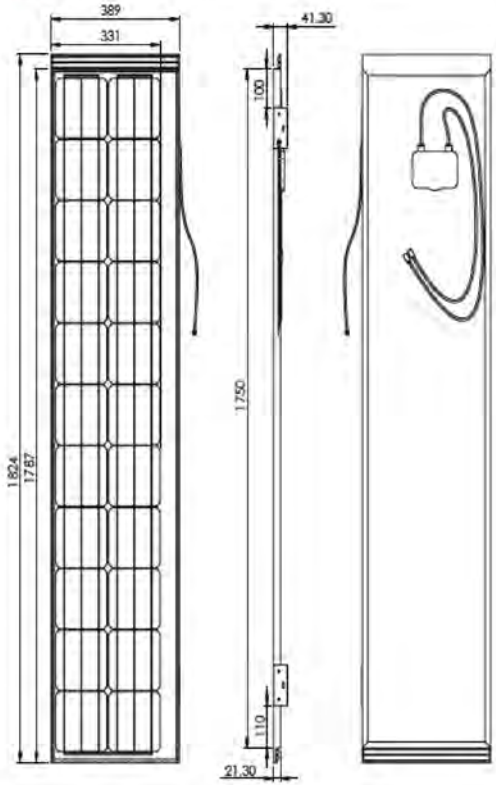
Advantages

- 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

CE

Office:
Tartu tn 16-8
Viljandi
ESTONIA

Factory:
Tallinna tn 58
Viljandi
ESTONIA

Solarstone OÜ
info@solarstone.ee
www.solarstone.ee/portfolio

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