

STILORMADE PV modules for building integration

The STILORMADE innovative modules can adapt to any geometrical particular constraints found in buildings and improve the energy performance of the buildings through the renewable energy production. The customized design allows a great mechanical and aesthetical integration in the building. The optimized electrical configuration strategy and the advanced manufacturing procedure, implemented by the French manufacturer S'Tile, achieve a high power performance through the use of advanced pad to pad interconnection technology, while presenting visual appeal and adjustable transparency.



Physical specifications

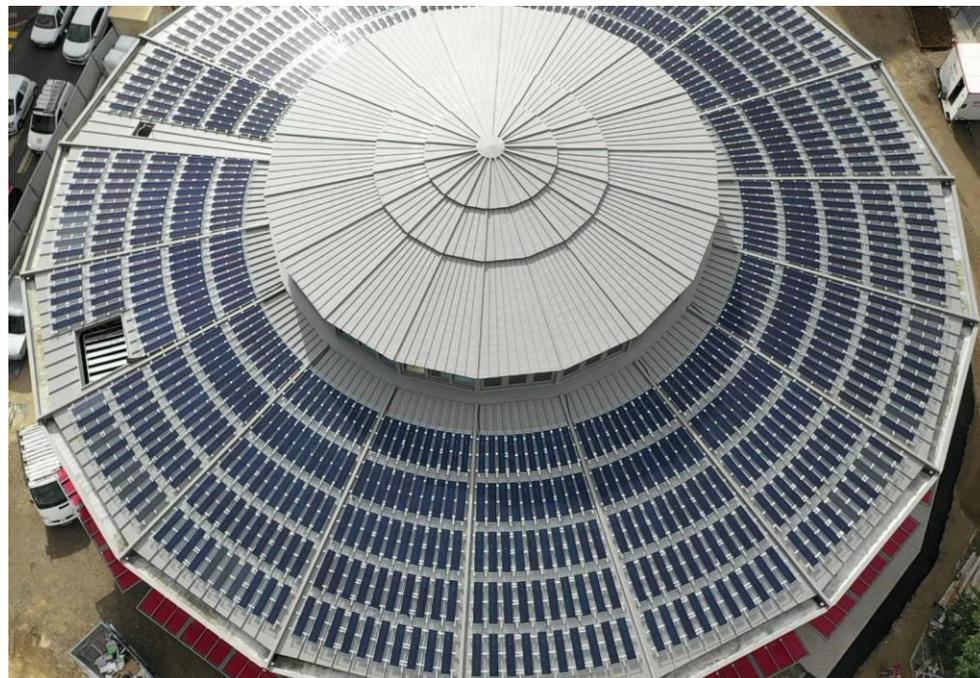
Module dimension (mm)	To the request
Module thickness (mm)	Approx. 8
Weight (kg/m²)	5
Front glass	High Transmission solar tempered Glass
Encapsulating material	EVA
Rear glass	Tempered glass
Module transparency (%)	To the request
Frame	Frameless

Electrical specifications

Solar cell technology	Multi-crystalline Si
Cell dimension (mm)	156.75 X 39.2
Design pattern	Sunrays
Cell efficiency (%)	17.2
Distance between cells in a string (mm)	Up to 100
Power output (Wp/m²)	Up to 165
Voc: Open-circuit voltage (V)	Adjustable
Isc: Short-circuit current (A)	Adjustable
Vmpp: Voltage at Pmax (V)	Adjustable
Imp: Current at Pmax (A)	Adjustable
Junction box (JB)	Option 1: JB "QC JB 102032 Series" at the backside (Dimensions: 102 x 85 x 18 mm) Option 2: JB "TE 1-1987293-4" edge connector
Cables	PV cable 4.0 mm ²
Cables length (mm)	To the request
Connectors	MC4

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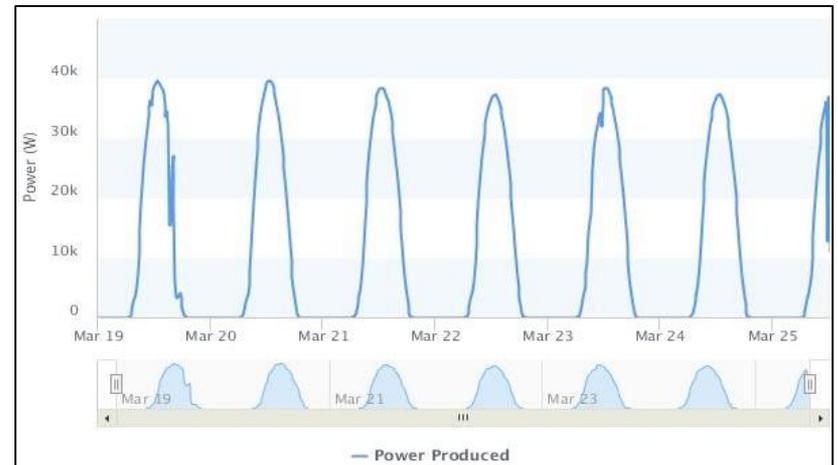
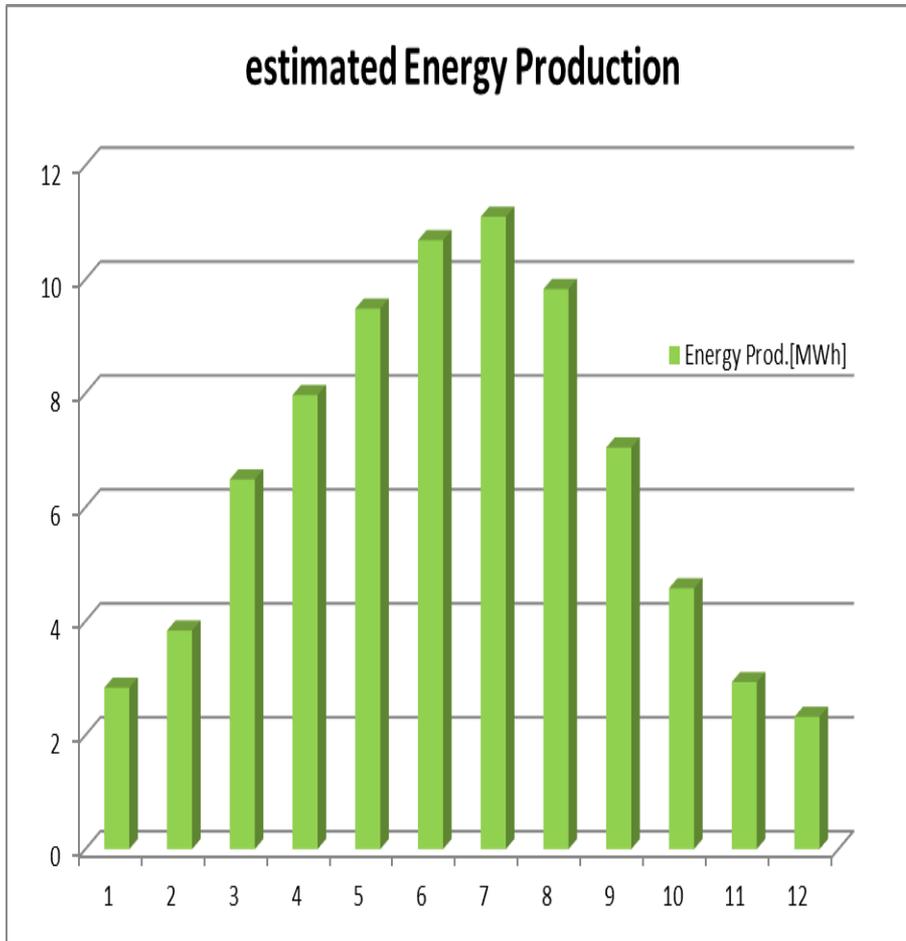
The STILORMADE innovative modules have been designed, installed and are currently tested on a real roof at the “Halles de Laissac” in the city centre of Montpellier, France. The implementation consist in covering a round roof with a total number of 865 modules. Total power of the system is 69 kWp. The generated energy will be consumed in-situ under a self-consumption regimen with injection of surplus production to the public grid. The clean appearance of the module design results in a great aesthetic solution for city integration.



STILORMADE PV modules, installed in round roof of the “Halles de Laissac” located in Montpellier

Estimate of production of STILORMADE modules

The yearly power production estimated for the STILORMADE modules installed on the roof of the “Halles de Laissac” in Montpellier reaches 78,3 MWh/year. The system will contribute to decrease the electricity power bill through the photovoltaic power generation, but will also contribute to the development of photovoltaic energy acceptance. On site monitoring is in progress and demonstrates power generation in accordance with expectations.



Estimate of power production and in site monitoring of the STILORMADE modules in Montpellier, France