

Powered by nature
Designed for your buildings



SunEwat XL

SunEwat XL is a laminated safety glass with embedded mono or polycrystalline photovoltaic cells.

It can generate electricity while serving as a building material.

Assemblies are made of two sheets of toughened glass, preferably with an extra-clear outside sheet so as to maximise power generation. The inside sheet can be an extra-clear, clear, coloured, silk screened, or any other type of glass.

A junction box is located on the edge of the modules, enabling their electrical connection in a photovoltaic installation.



SunEwat XL can be made into a double-glazed unit (Thermobel) to provide the required level of thermal insulation.

SunEwat XL and Thermobel SunEwat XL are covered by a 10 year product guarantee.

Performance is guaranteed as follows:

- 10 years (90% of nominal power)
- 20 years (80% of nominal power)

ADVANTAGES

SunEwat XL photovoltaic modules meet all relevant aesthetic and functional requirements, meaning they can be integrated seamlessly into buildings.

They can be used instead of conventional materials.

The space between the cells is variable in order to adjust the module's light transmission.

Products are **custom built**, giving architects **plenty of flexibility** to combine electricity generation with:

- facades
- canopies
- sunshades
- balustrades
- other features
- **NEW: USED IN NON-VENTILATED SPANDRELS, SUNEWAT XL MAINTAINS ITS PERFORMANCES AT HIGH TEMPERATURES.**



Deploying **SunEwat XL** photovoltaic modules improves the building's energy performance and enhances its environmental image.

TECHNICAL CHARACTERISTICS

COMPOSITION		
Outside glass	Toughened HST extra-clear	
Encapsulant	EVA	
Inside glass	Toughened HST extra-clear, clear, coloured, silk screened, or other	
Glass thickness	Depending on structural requirements	
Photovoltaic cells	Mono or Polycrystalline 156 mm, high performance up to 20.6%	
	Front side	Back side
		
DESIGN		
Minimum size of module	400 mm × 400 mm	
Maximum size of module	2000 mm × 4000 mm	
Shape	Any shape, including a rectilinear edge, within minimum and maximum module size	
Space between cells	- Minimum: 4 mm - Maximum: 50 mm	
Light transmitted by module	Variable depending on space between cells	
ELECTRICAL SPECIFICATIONS		
Nominal power	Variable depending on density of cells	
Junction box	Junction box on edge of module with built-in bypass diode - Length: 160 mm - Height: 11.5 mm - Thickness: 10 mm	
Connection diameter	10 mm	
Cable length	1m. Other lengths available on request	
Cable cross-section	4 mm²	
Maximum system voltage	1000 V DC	
GUARANTEES		
Product guarantee	10 years	
Performance guarantee	- 10 years (90% of nominal power) - 20 years (80% of nominal power)	
The product and its performances are guaranteed for applications up to 100°C.		
CERTIFICATIONS		
IEC 61215	Crystalline silicon photovoltaic modules Design qualification and type approval	
IEC 61730 classe II	Photovoltaic module safety qualification	
EN 14449	Evaluation of conformity: laminated safety glass	

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