

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.



1 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)

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

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.**



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 19%			
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DESIGN				
Minimum size of module	400 mm x 400 mm			
Maximum size of module	2000 mm x 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: 131 mm - Height: 11.5 mm - Thickness: 10 mm			
Connection diameter	10 mm			
Cable length	Variable depending on system stresses			
Cable cross-section	4 mm ²			
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)			
<i>The product and its performances are guaranteed for applications up to 100°C.</i>				
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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GLASS UNLIMITED

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