



ClearVue<sup>PV</sup>

ClearVue<sup>PV</sup> Building Products



SOLAR ROOF

SOLAR SPANDREL

SOLAR CLADDING

SOLAR SKYLIGHT

SOLAR VISION GLASS

SOLAR BALUSTRADE

# Solar Façade Solutions

*For a Sustainable Building Envelope*

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# About ClearVue

*ClearVue Technologies Limited (ASX: CPV) integrates solar technology into building façade and rooftop surfaces to provide renewable energy generation and offset the operational carbon footprint of buildings. ClearVue has extended solar energy generation to vision glass, cladding, spandrel, skylight, balustrade as well as rooftop, car park and greenhouse solar solutions. These Building Integrated Photovoltaic (BIPV) solutions can offset operational energy requirements and significantly contribute to the net-zero buildings.*

*ClearVue is building a bridge between the construction and renewable energy industries with aesthetically pleasing solutions that support structural integrity, reliability and fire safety, thermal performance, environmental responsibility and strong commercial payback.*



# ClearVue<sup>PV</sup> Façade

ClearVue's Solar Façade maximises on-site energy generation. Our solar products include a full line of Building Integrated Photovoltaics (BIPVs), and with bespoke framing systems available, ClearVue's solutions seamlessly integrate into any building design, combining durable construction with clean energy generation.

## ClearVue<sup>PV</sup> Vision Glass

ClearVue's Solar Vision Glass combines several patented, proprietary technologies to generate clean, renewable energy from clear building glazing surfaces.

## ClearVue<sup>PV</sup> Spandrel

ClearVue<sup>PV</sup> Spandrel solutions deliver excellent reliability, efficiency and performance for building sustainability.

## ClearVue<sup>PV</sup> Cladding

ClearVue offers a broad range of PV Cladding colours, patterns and textures. Our silicon-based cladding has the ability to generate significant power while offering a broad range of visual textures and colours to achieve architectural intent.

## ClearVue<sup>PV</sup> Skylight

ClearVue solar skylight solution maximises energy generation, designed for building canopies, atriums and a broad range of overhead glazing applications.

## ClearVue<sup>PV</sup> Balustrade

ClearVue's solar balustrade solution generates clean energy across building canopies, balcony railings and fencing.

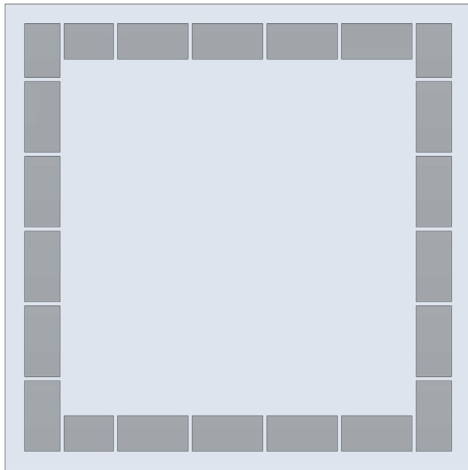
## ClearVue-Helios Solar Solutions

ClearVue-Helios solar solutions are an exclusive, integrated rooftop metal-backed, tempered solar panel and framing system.

# Solar Vision Glass

*ClearVue<sup>PV</sup> Vision Glass facilitates clean energy generation into the very fabric of the modern building envelope.*

ClearVue<sup>PV</sup> Vision Glass combines several patented, proprietary technologies to generate clean, renewable energy from clear building glazing surfaces. ClearVue is compatible with the majority of glass compositions and coatings.



## The ClearVue<sup>PV</sup> Vision Glass System is comprised of:

- Monocrystalline silicon solar collectors
- Fully sealed power system
- Thermal Management Junction Box
- Advanced connection system compatible with both aluminium and Quanex super spacers to guarantee IGU seal

## Benefits

- Generates up to 60 W/m<sup>2</sup> peak subject to cell width and density.
- Bespoke design to meet architectural aesthetic demands.
- Reduction of Solar Heat Gain coefficient (SHGC).
- Fire rating by TÜV SÜD under the EN 13501-1:2018 A2-s1, d0 classification rating for combustibility.
- Delivers natural lighting and transparency equivalent to standard glazing products.
- Decreases use of traditional energy sources and offsets energy use with renewable solar energy.
- Compatible with most standard unitised curtain wall and framing systems.
- IGU seal is in compliance with international industrial standards.
- Project-specific sizes available (up to 2.2m x 3.3m).
- Available as single, double, triple and vacuum glazing units.

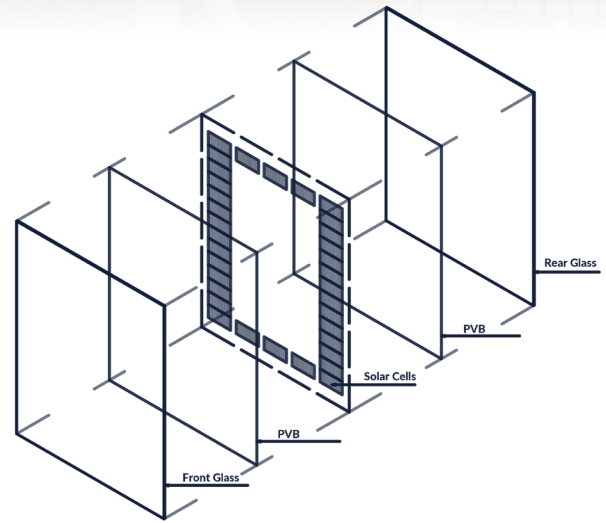


# ClearVue<sup>PV</sup> Vision Glass Specifications

ClearVue<sup>PV</sup> Vision Glass meets stringent building material requirements and is approved for high rise buildings.

## Enhanced Reliability

- Monocrystalline silicon: front panes deliver maximum reliability and longevity, laminated in PVB for structural strength.
- Accelerated ageing tested: all systems validated with ClearVue's Thermal Management Junction Box.
- Mass production ready: high-quality assembly streamlined to match standard IGU production rates.
- IP67-rated power exit: waterproof to 1m depth for 30 minutes.



## TECHNICAL PROPERTIES

Standard Product	Glass Composition	U-Value	SHGC	VLT	Selected Coating
Baseline Glass	6mm low-iron+6mm double silver low-e /16Ar/6mm low-iron	1.426	0.404	0.723	Shandong Jinjing Optisolar UD80
<b>Premium Option (Adaptive to different climate zones)</b>					
Tropical	6mm low-iron+6mm double silver low-e /16Ar/6mm low-iron	1.364	0.145	0.347	Glas Trösch Superselekt 35/14 on clear
Moderate	6mm low-iron+6mm double silver low-e /16Ar/6mm low-iron	1.348	0.252	0.589	Glas Trösch Superselekt 60/27 on clear
Cold	6mm low-iron+6mm double silver low-e /16Ar/6mm low-iron	1.336	0.384	0.583	Glas Trösch Superselekt 60/27 on clear
Vacuum	6mm low-iron+6mm clear/16A/6mm double silver low-e/0.3V/6mm low-iron	0.483	0.246	0.550	Glas Trösch Superselekt 60/27 on clear

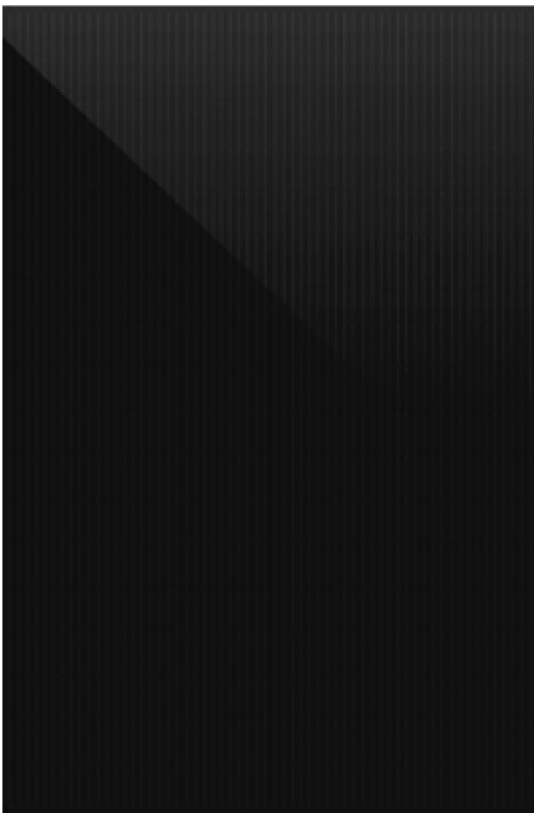
## ELECTRICAL CHARACTERISTICS (STC)

Dimension (mm)	2557*1629		2000*3300	1200*1200
Cell Type	Half Cut	Full Cell	Full Cell	Half Cut
Number of Cells	38	36	48	20
Power Output ( $P_{max}$ )	135W	246W	340W	70W
Power Output Tolerances ( $\Delta P_{max}$ )	±5%	±5%	±5%	±5%
Voltage at Pmax ( $V_{mpp}$ )	23.94V	22.68V	30.24V	12.4V
Current at Pmax ( $I_{mpp}$ )	5.64A	10.85A	11.24A	5.64A
Open-Circuit Current ( $V_{oc}$ )	28.37V	26.88V	35.84V	14.63V
Short-Circuit Current ( $I_{sc}$ )	5.95A	11.45A	11.83A	5.95A

# Solar Spandrel

*ClearVue<sup>PV</sup> black spandrel solutions deliver excellent reliability, efficiency and performance for building sustainability.*

ClearVue's Solar Spandrel is engineered to replicate traditional black glass spandrel. This high-performance building envelope material replaces conventional façade surfaces while generating clean electricity with no additional structure required. Pure-black Solar Spandrel prioritises visual uniformity, with energy yield optimised for aesthetic consistency.



## Benefits

- High resistance to temperatures, humidity, sand, acid and alkali environmental conditions.
- ClearVue solar spandrel glass is IP68 water resistant for a long lifespan.
- Can be assembled as a double glazed spandrel and a shadowbox spandrel.
- Silicon solar cells deliver a proven track record of reliability and longevity.
- ClearVue's Thermal Management Junction Box delivers increased reliability and ability to use a weather-proof silicon bead seal at the façade face.
- Can be integrated with ClearVue<sup>PV</sup> vision glass, the two products across a façade can achieve over 40% of the building energy requirements.
- Delivers increased reliability by mitigating thermal runaway issues.



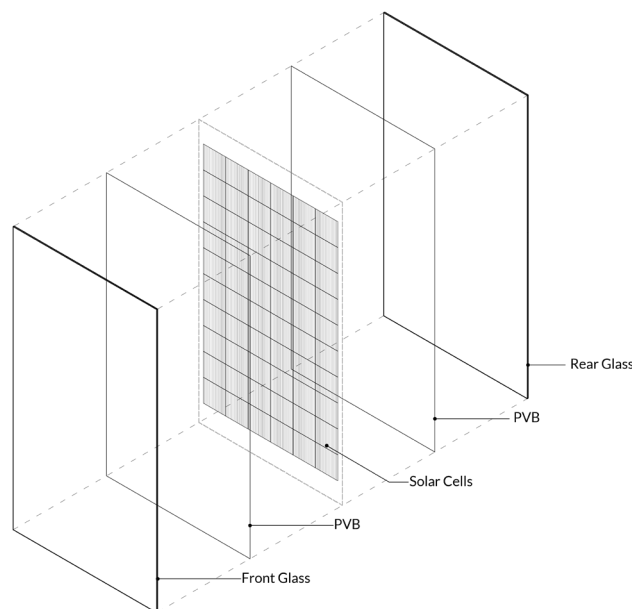
# ClearVue<sup>PV</sup> Black Spandrel Specifications

*ClearVue<sup>PV</sup> black spandrel solutions deliver excellent reliability and efficiency*

ClearVue's proprietary silicon cell design provides a pure black uniform appearance (without lines or squares) spandrel solution that delivers excellent performance and a beautiful aesthetic.

## Product Features

- Up to 200W/m<sup>2</sup> peak dependent on installation conditions and desired design.
- Pure black option available.
- Product can be tailored to support custom size requirements up to 2200mm x 3300mm.
- Bespoke thickness up to 12+12mm by automatic production line and 20+20mm by manual lamination, dependent upon structural design.
- IP68-rated water resistance.
- 1000V or 1500V system voltage available.
- A2-s1, d0 classification rating for limited combustibility, tested by TÜV SÜD in accordance with EN 13501-1.



## ELECTRICAL CHARACTERISTICS (STC)

Colour (Customisable)	Black
Power Output ( $P_{max}$ )	390W
Power Output Tolerances ( $\Delta P_{max}$ )	±3%
Module Efficiency ( $\eta_m$ )	20.1%
Voltage at Pmax ( $V_{mpp}$ )	66.96V
Current at Pmax ( $I_{mpp}$ )	5.82A
Open-Circuit Current ( $V_{oc}$ )	80.35V
Short-Circuit Current ( $I_{sc}$ )	6.11A

## CONSTRUCTION MATERIALS

Glass (material/thickness)	Low-iron tempered glass 6mm
Baseplate (material)	PVB
Junction Box (protection degree)	IP68
Cable (length/cross-sectional area)	300mm/4mm <sup>2</sup> /Customisable
Plug connector (type/protection degree)	MC4/IP67 (minimum)
Dimensions	1750 x 1150 x 13.5mm
Dimensions of cell	182 x 91mm
Cell layout	6x9x2

# Colour Cladding

*ClearVue<sup>PV</sup> coloured crystalline silicon replaces traditional curtain wall glass and cladding, turning façades into solar energy generating surfaces.*

ClearVue<sup>PV</sup> Colour Cladding solutions come in a wide range of colours to complement the design of new builds and for retrofit of existing buildings. Architectural designs can be beautiful and provide energy efficiency while making a positive environmental impact.



## Benefits

- Bright gloss and opaque finishes available in rich colours.
- Reliable and colour fast for decades of use.
- High-efficiency cells provide excellent power generation.
- A wide range of customisable colours and size configurations for maximum flexibility.
- Provides significant energy consumption offset for commercial buildings.
- Supports renewable energy and carbon offset goals.
- IP68-rated water resistance, fire tested and wind resistant.
- Silicon solar cells deliver a proven track record of reliability and longevity.



# ClearVue<sup>PV</sup> Colour Cladding Specifications

## Bright Gloss & Opaque Colour Cladding

ClearVue<sup>PV</sup> Colour Cladding supports significant advancements in building envelope sustainability and offers architectural options for creative, eye-catching, contemporary building designs.

### BRIGHT GLOSS ELECTRICAL CHARACTERISTICS (STC) 1200 x 600mm

Colour (Customisable)	White	Gray	Blue	Green	Red	Yellow
Power Output ( $P_{max}$ )	100W	125W	120W	120W	120W	120W
Power Output Tolerances ( $\Delta P_{max}$ )	±3%	±3%	±3%	±3%	±3%	±3%
Module Efficiency ( $\eta_m$ )	13.9%	17.4%	16.7%	16.7%	16.7%	16.7%
Voltage at Pmax ( $V_{mpp}$ )	20.4V	20.7V	20.5V	20.5V	20.5V	20.5V
Current at Pmax ( $I_{mpp}$ )	4.90A	6.10A	5.85A	5.85A	5.85A	5.85A
Open-Circuit Current ( $V_{oc}$ )	24.7V	25.0V	24.8V	24.8V	24.8V	24.8V
Short-Circuit Current ( $I_{sc}$ )	5.15A	6.41A	6.14A	6.14A	6.14A	6.14A

STC: 1000W/m<sup>2</sup> irradiance, 25 degree cell temperature, AM1.5

### Bright Gloss Standard Colour Range

RAL: 5014 100W/m <sup>2</sup>	RAL: 5017 167W/m <sup>2</sup>	RAL:5001 149W/m <sup>2</sup>
RAL: 3016 118W/m <sup>2</sup>	RAL: 3011 167W/m <sup>2</sup>	RAL:8015 71W/m <sup>2</sup>

RAL: 7047 138W/m <sup>2</sup>	RAL: 7001 128W/m <sup>2</sup>	RAL:9017 170W/m <sup>2</sup>
RAL: 6018 157W/m <sup>2</sup>	RAL: 1000 147W/m <sup>2</sup>	RAL:6001 167W/m <sup>2</sup>
RAL: 1027 159W/m <sup>2</sup>	RAL: 1001 130W/m <sup>2</sup>	RAL:8000 118W/m <sup>2</sup>

### OPAQUE ELECTRICAL CHARACTERISTICS (STC) 1200 x 600mm

Colour (Customisable)	Gray	Blue	Green	Red	Yellow
Power Output ( $P_{max}$ )	125W	110W	110W	100W	100W
Power Output Tolerances ( $\Delta P_{max}$ )	±3%	±3%	±3%	±3%	±3%
Module Efficiency ( $\eta_m$ )	17.4%	15.3%	15.3%	13.9%	13.9%
Voltage at Pmax ( $V_{mpp}$ )	20.6V	19.4V	19.4V	19.0V	19.0V
Current at Pmax ( $I_{mpp}$ )	6.07A	5.67A	5.67A	5.26A	5.26A
Open-Circuit Current ( $V_{oc}$ )	24.9V	23.5V	23.5V	23.0V	23.0V
Short-Circuit Current ( $I_{sc}$ )	6.37A	5.95A	5.95A	5.53A	5.53A

STC: 1000W/m<sup>2</sup> irradiance, 25 degree cell temperature, AM1.5

### Opaque Standard Colour Range

RAL: 5015 142W/m <sup>2</sup>	RAL: 5005 140W/m <sup>2</sup>	RAL:5009 140W/m <sup>2</sup>
RAL: 3016 97W/m <sup>2</sup>	RAL: 3011 112W/m <sup>2</sup>	RAL:3009 136W/m <sup>2</sup>

RAL: 7035 108W/m <sup>2</sup>	RAL: 7005 142W/m <sup>2</sup>	RAL:9017 170W/m <sup>2</sup>
RAL: 6017 157W/m <sup>2</sup>	RAL: 1000 132W/m <sup>2</sup>	RAL:6016 167W/m <sup>2</sup>
RAL: 1001 130W/m <sup>2</sup>	RAL: 1020 137W/m <sup>2</sup>	

Colours and size are customisable and bespoke depending on order size. Output will also vary depending on specific choice. For more information, please contact ClearVue directly.

# Textured Cladding

*ClearVue<sup>PV</sup> Textured Cladding is engineered to simulate a variety of façade materials and maximise solar energy generation across the building envelope.*

ClearVue<sup>PV</sup> Textured Cladding offers absolute creative freedom in sustainable architectural design. Whether you are designing a new build or working on a retrofit or refurbishment project, reliable energy efficiency can be built into your construction project.



## Benefits

- A broad line-up of simulated cladding materials with rich colours and textures to suit any architectural style.
- Simulated brick, marble, granite, wood and other exterior finishes available.
- Engineered to integrate with ClearVue vision glass.
- Safe and reliable operation for long term energy generation.
- Extends energy generation to more building envelope surfaces to significantly decrease the operational carbon footprint of buildings.
- Streamlined connections to preserve beauty and decrease installation costs.

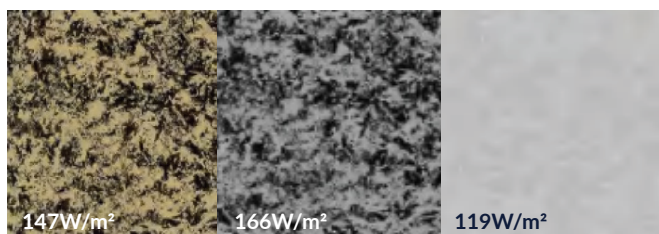


# ClearVue<sup>PV</sup> Textured Cladding Specifications

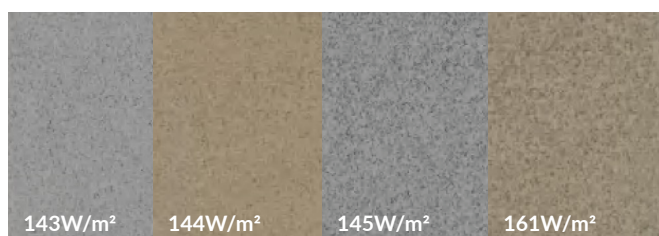
## Marble, Brick, Stone Texture, Patterned Cladding

ClearVue<sup>PV</sup> Textured Cladding Series provides solar energy generation on building façade surfaces and deliver creative options for a variety of architectural styles.

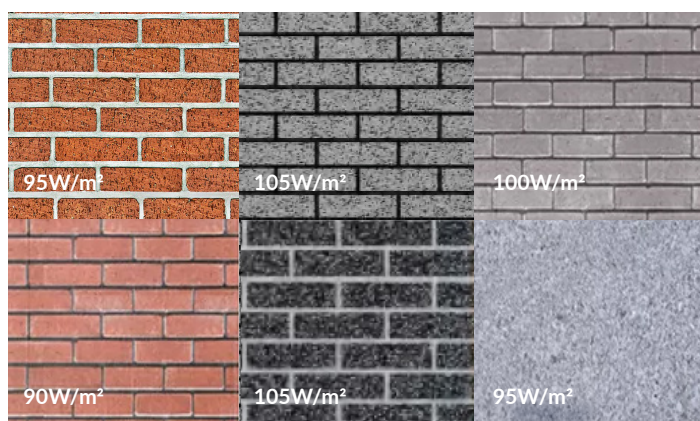
### Simulated Marble Standard Colour



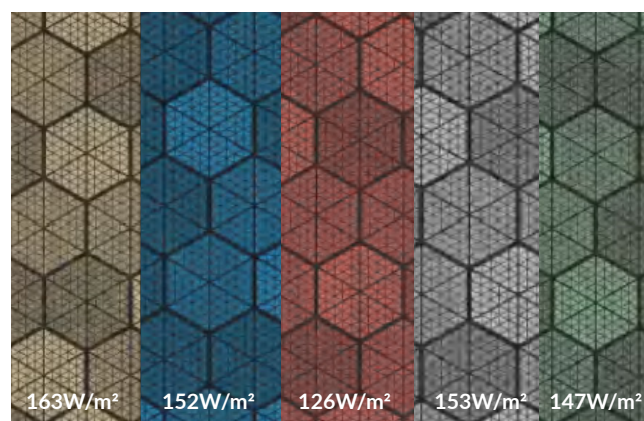
### Stone Texture Standard Colour



### Architectural Brick Standard Colour



### Patterned Colour Standard Colour



### Product Features

- Available in a range of colours and patterns to suit any architectural style.
- Corrosion, pressure and water resistant for durability.
- Project-specific sizes and bespoke options available for projects over 1,000 meters of cladding.
- IP68-rated water resistance, fire tested and wind resistant.
- ClearVue's Thermal Management Junction Box delivers increased reliability.
- Silicon solar cells deliver a proven track record of reliability and longevity.

## ELECTRICAL CHARACTERISTICS (STC) 1200 x 600mm

Colour & Size (Customisable)	Marble Series	Brick Series	Stone Series	Patterned Series
Power Output ( $P_{max}$ )	85~120W	90~105W	105W~115W	90~120W
Power Output Tolerances ( $\Delta P_{max}$ )	±3%	±3%	±3%	±3%
Module Efficiency ( $\eta_m$ )	11.8~16.7%	12.5~14.6%	14.6~16.0%	12.5~16.7%
Voltage at Pmax ( $V_{mpp}$ )	18.7~20.5V	18.8~19.1V	19.1~19.8V	18.8~20.5V
Current at Pmax ( $I_{mpp}$ )	4.55~5.85A	4.79~5.50A	5.50~5.81A	4.79~5.85A
Open-Circuit Current ( $V_{oc}$ )	22.6~24.8V	22.8~23.1V	23.1~24.0V	22.8~24.8V
Short-Circuit Current ( $I_{sc}$ )	4.87~6.14A	5.03~5.77A	5.77~6.10A	5.03~6.14A

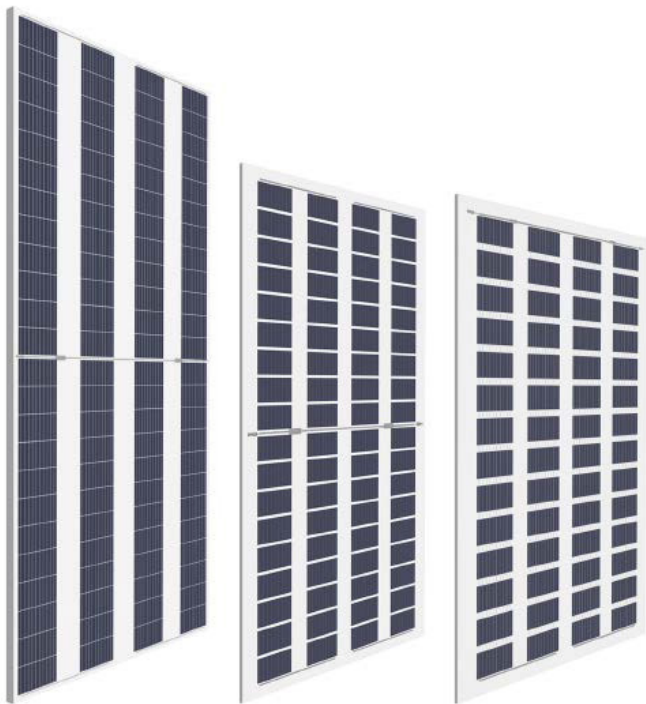
STC: 1000W/m<sup>2</sup> irradiance, 25 degree cell temperature, AM1.5

Colours and size are customisable and bespoke depending on order size. Output will also vary depending on specific choice. For more information, please contact ClearVue directly.

# Solar Skylight

*ClearVue maximises energy generation with its solar skylight solutions, ideal for a broad range of building canopies, atriums, covered walkways and more.*

ClearVue provides customisable high transmittance glass options specifically designed for building areas where natural light is desired in addition to energy generation to support sustainable building design that stands the test of time. With bespoke framing systems available, ClearVue's skylight solutions seamlessly integrate into any building design, combining durable construction with clean energy generation.



*Quad Track Product Example*

## Benefits

- Customisable crystalline silicon building integrated photovoltaic (BIPV) glass.
- Excellent ROI through operational cost reductions and significant energy offsets.
- Clear appearance with varying solar cell distribution for desired light to energy generation levels.
- Replaces traditional architectural glass surfaces with renewable energy generating surfaces.
- Construction grade material thicknesses.
- Withstands extreme temperature and weather conditions.
- Equipped with ClearVue Thermal Management Junction Box to increase reliability and lifespan.



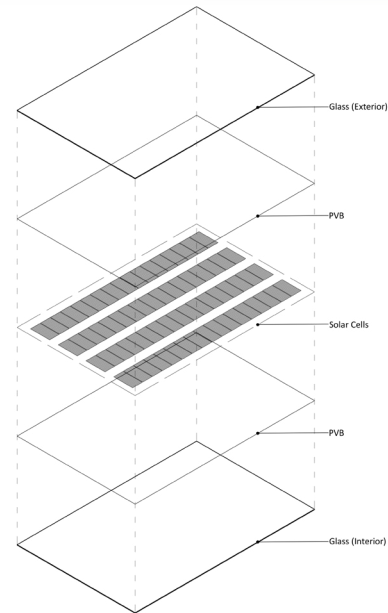
# ClearVue<sup>PV</sup> Solar Skylight Specifications

## High Transmittance BIPV Glass

ClearVue<sup>PV</sup> Skylight products provide a high-performance energy generating solution for roof light, canopy and other special glass projects where light transmittance is a priority.

### Product Features

- Panel size, glass thickness and shape can be customised and tailored.
- Highly transparent with excellent light transmittance.
- High efficiency for enhanced energy generation.
- IP68-rated water resistance, fire tested, and wind resistant.
- Long lifespan supporting on-site energy generation.



### ELECTRICAL PARAMETERS

Panel Size	1750 x 1150 x 13.5mm		
Cell Type	TOPCon		
Cells Layout	6 x 9 x 2	4 x 9 x 2	2 x 9 x 2
Module Type	Hex Track	Quad Track	Double Track
Transparency	10%	40%	70%
Power Output ( $P_{max}$ )	410W	270W	135W
Power Output Tolerances ( $\Delta P_{max}$ )	±3%	±3%	±3%
Module Efficiency ( $\eta_m$ )	20.37%	13.42%	6.71%
Voltage at Pmax ( $V_{mpp}$ )	65.88V	43.92V	21.96V
Current at Pmax ( $I_{mpp}$ )	6.22A	6.15A	6.15A
Open-Circuit Current ( $V_{oc}$ )	79.06V	52.7V	26.35V
Short-Circuit Current ( $I_{sc}$ )	6.53A	6.45A	6.45A

STC: 1000W/m<sup>2</sup> irradiance, 25 degree cell temperature, AM1.5

### CONSTRUCTION MATERIALS

Glass (material/thickness)	6mm+6mm
Baseplate (material)	PVB
Junction Box (protection degree)	≥IP68
Cable (length/cross-sectional area)	300mm/4mm <sup>2</sup> /Customisable
Plug connector (type/protection degree)	MC4/IP67 (minimum)

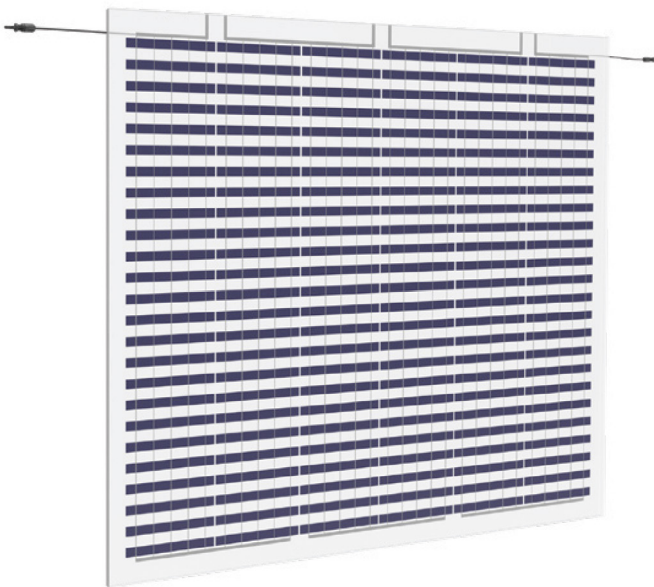
# Solar Balustrade

*ClearVue enhances energy generation with balustrade solutions which can be used for a broad range of building canopies, balcony railings, fencing and more.*

ClearVue's solar balustrade solutions seamlessly integrate into any building design, combining durable construction with clean energy generation. Bespoke framing systems are available to suit diverse architectural requirements. Each installation delivers reliable structural performance alongside on-site renewable power. ClearVue transforms balustrades from a purely functional element into a productive building asset.

## Benefits

- Customisable crystalline silicon building integrated photovoltaic (BIPV) glass.
- Clear appearance with varying solar cell distribution for desired light to energy generation levels.
- Replaces traditional architectural glass surfaces with renewable energy generating surfaces.
- Excellent ROI through operational cost reductions and significant energy offsets.
- Construction grade material thicknesses.
- Withstands extreme temperature and weather conditions.
- Dedicated design support to develop bespoke framing solutions to suit any project.



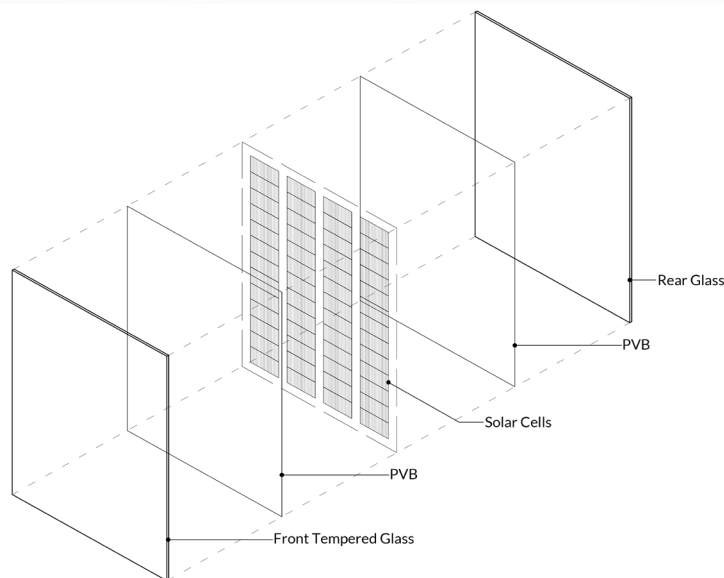
# ClearVue<sup>PV</sup> Solar Balustrade Specifications

## High Transmittance BIPV

ClearVue<sup>PV</sup> Balustrade delivers a highly customisable energy generation solution that can be used for façade, balcony railings and fences. Offers varying levels of privacy protection and a wide range of design options.

### Product Features

- Cell size is customisable.
- Hex, Quad and Double track cell layout available.
- Highly transparent for excellent light transmittance.
- Compatible with most standard mounting and framing systems.
- IP68-rated water resistance, fire tested, and wind resistant.
- Long lifespan supporting on-site energy generation.



## ELECTRICAL PARAMETERS

Panel Size	1750 x 1150 x 13.5mm		
Cell Type	TOPCon		
Cells Layout	6 x 9 x 2	4 x 9 x 2	2 x 9 x 2
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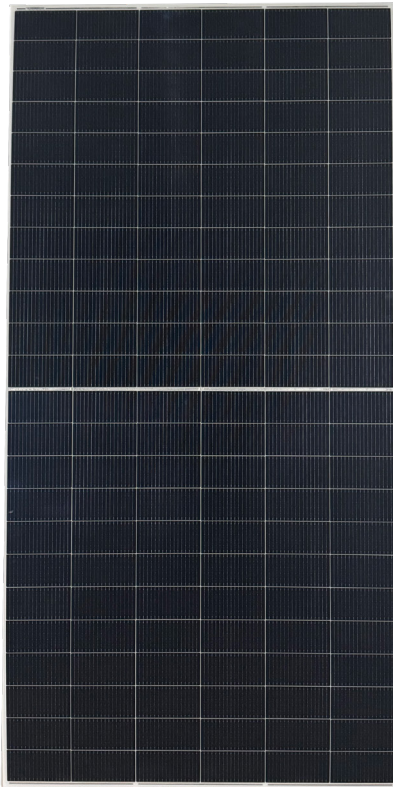
## CONSTRUCTION MATERIALS

Glass (material/thickness)	6mm+6mm
Baseplate (material)	PVB
Junction Box (protection degree)	≥IP68
Cable (length/cross-sectional area)	300mm/4mm <sup>2</sup> /Customisable
Plug connector (type/protection degree)	MC4/IP67 (minimum)

# ClearVue-Helios Rooftop Solar

*ClearVue offers both aluminium and steel-backed options to meet a variety of construction requirements.*

ClearVue-Helios Rooftop Solar is an exclusive, integrated rooftop metal backed, tempered solar panel and framing system that delivers numerous benefits including excellent performance, light-weight installation and a fully sealed environment that is low maintenance.



## Benefits

- High-performance panels deliver over  $220\text{W}/\text{m}^2$  for maximum energy generation.
- Lightweight aluminium-backed option weighs  $5\text{kg}/\text{m}^2$  for easy installation.
- Steel-backed  $10.5\text{kg}/\text{m}^2$  option is trafficable for safe and convenient roof access.
- Proprietary fully sealed mounting system eliminates leaking and keeps buildings cooler.
- Low maintenance design allows simple cleaning with water or a rooftop sprinkler system, perfect for high dust environments.
- Forms a secondary roof surface that protects and extends the lifespan of the existing roof.
- 15 year linear power performance warranty.
- 30 year product warranty.



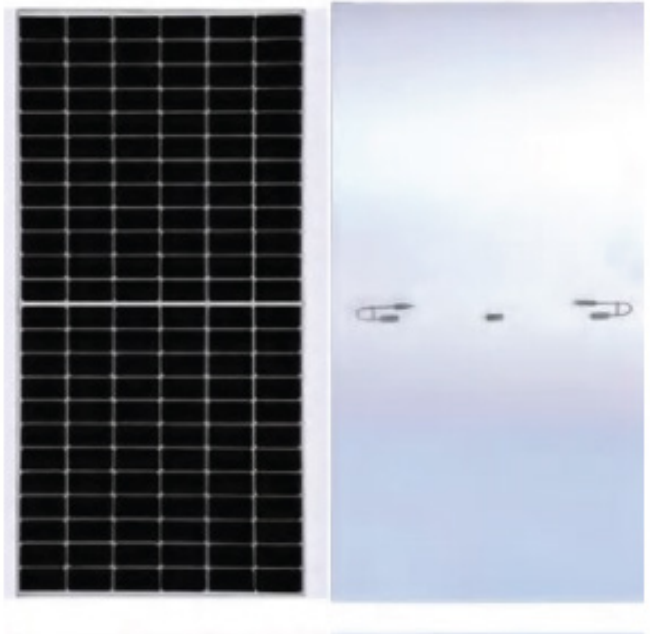
# ClearVue-Helios Trafficable Panel Specifications

## Flat Metal PV Tile - 10.5Kg/m<sup>2</sup>

ClearVue-Helios delivers high performance, trafficable, cutting-edge, metal-backed solar solutions for a broad range of applications.

### Product Features

- Suitable for existing roofs.
- Easy installation process and short construction period.
- Suitable for a wide range of applications.
- High-quality mono-crystalline silicon cells, combined with tempered glass and galvanised sheets.
- BIPV integration frame design with Class A Fire rating.
- Maximum power up to 600W.
- Sub 3 Year Payback subject to layout, structural design and solar radiation.



### DC PERFORMANCE PARAMETERS (STC)

Max Power Output ( $P_{max}$ )	590/595/600/605
Open circuit voltage (Voc/V)	53.52/53.72/53.92/54.12
Short circuit current (Isc/A)	14.22/14.28/14.34/14.40
Voltage at max power (Vmp/V)	42.97/43.12/43.26/43.40
Current at max power (Imp/A)	13.73/13.80/13.87/13.94
Module efficiency (%)	23.02%/23.0%/23.2%/23.4%

### MECHANICAL PERFORMANCE PARAMETERS

External Dimensions ( $\pm 5$ mm)	2275 x 1200mm
Installation Dimensions ( $\pm 5$ mm)	2300 x 1150mm
Thickness ( $\pm 0.5$ mm)	3.9mm
Gross Weight ( $\pm 1$ kg)	28Kg
Glass Size	2272 x 1128mm
PV Cable /Interconnection Cable	1x4.0mm <sup>2</sup> PVcable (customisable)
Connector	Straight/MC4
Cell Type	TOPCon
Cell Arrangement	144
Front Glass	2.0mm AR-coated heat-strengthened glass
Backsheet	0.5mm high-strength Alu-Zinc steel sheet
Fire Rating	Class A Tested by IEC 61730 / UL790

\*Standard Test Conditions (STC): Irradiance=1000W/m<sup>2</sup>, Cell Temperature=25°C, AM=1.5 / \*Test Tolerance ( $\pm 3.0\%$ )

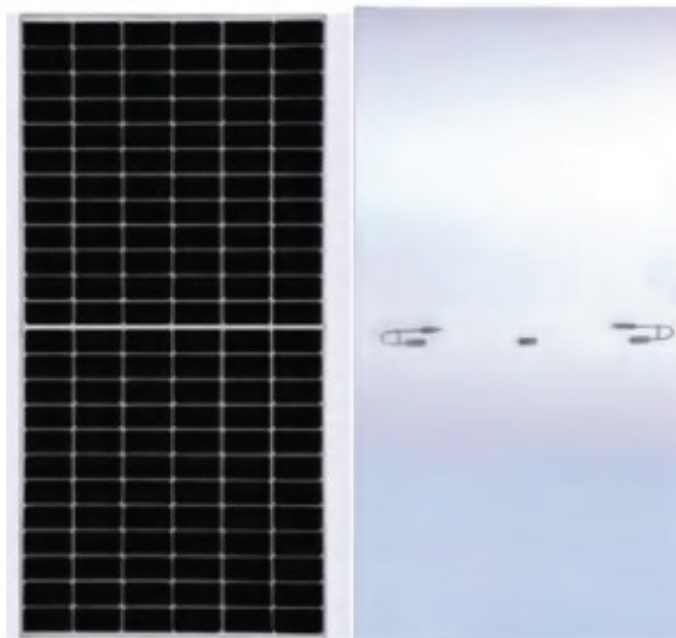
# ClearVue-Helios Lightweight Tile Specifications

## Flat Metal PV Tile - 5Kg/m<sup>2</sup>

ClearVue-Helios delivers high performance, ultra lightweight, cutting-edge, low maintenance solar solutions for a broad range of applications.

### Product Features

- High-quality monocrystalline silicon cells.
- Lightweight and highly transparent front plate and a 0.4mm aluminium zinc plate.
- Achieves the perfect combination of efficient power generation and lightweight design.
- 5Kg/m<sup>2</sup> reduces roof load.
- BIPV integration frame design with Class C Fire rating.
- Maximum power up to 600W.
- Sub 3 Year Payback subject to layout, structural design and solar radiation.



### DC PERFORMANCE PARAMETERS (STC)

Max Power Output (P <sub>max</sub> )	590/595/600
Open circuit voltage (Voc/V)	53.52/53.72/53.92
Short circuit current (Isc/A)	14.22/14.28/14.34
Voltage at max power (Vmp/V)	42.97/43.12/43.26
Current at max power (Imp/A)	13.73/13.80/13.87
Module efficiency (%)	23.02%/23.0%/23.2%

### MECHANICAL PERFORMANCE PARAMETERS

External Dimensions (±5mm)	2274 x 1200mm
Installation Dimensions (±5mm)	2300 x 1150mm
Thickness (±0.5mm)	2.8mm
Gross Weight (±1kg)	6.8kg
PV Cable /Interconnection Cable	1x4.0mm <sup>2</sup> PVcable
Connector Type	Direct Connection/MC4
Cell Type	TOPCon
Front Cover /Backsheet Material	Lightweight High-transparency Front Sheet/ 0.4mm Aluminium Plate
Installation Accessories	ST5.5 Self-Tapping Screw, Cover Plate
Fire Rating	Class C Tested by IEC 61730 / UL790

\*Standard Test Conditions (STC): Irradiance=1000W/m<sup>2</sup>, Cell Temperature=25°C, AM=1.5 / \*Test Tolerance (±3.0%)

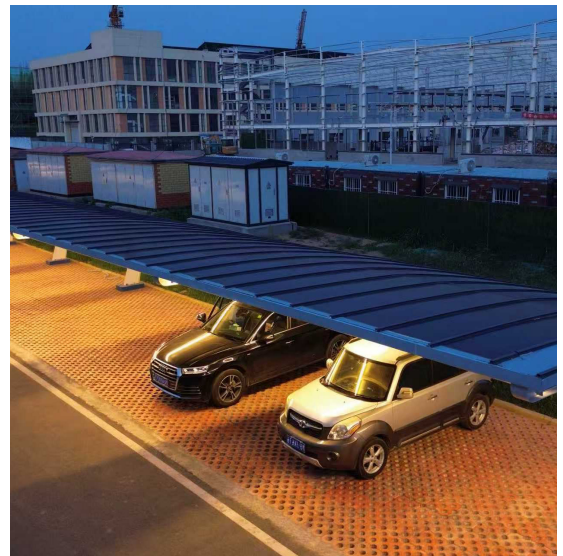
# Solar Carpark Solution

## Low Cost, Easy Installation, High Performance

ClearVue-Helios now enables commercial, municipal and city facilities to maximise on-site renewable energy generation while adding functional beautification and safety benefits to parking infrastructure using the lightweight, low maintenance solar systems for carparks. ClearVue-Helios panels become the carport rooftop resulting in a lightweight, lower cost and embedded carbon solution that delivers up to 600 Watts peak per panel energy generation and a modern carpark design.

### Product Features

- Metal-backed design weighs only 10.5 Kg/m<sup>2</sup> for a modern cantilevered support system with reduced embedded carbon.
- Two-post deployment system eliminates pillars to reduce the risk of vehicle damage.
- High-performance panels deliver more than 220W/m<sup>2</sup> with important safety certifications.
- Total payback less than 5 years subject to panel layout, structural design and local solar radiations.
- Waterproof, fire-resistant and hail-resistant with no exposed junction boxes or DC cables for a long lifespan.
- Modular pre-production design allows for a fast and streamlined installation process.



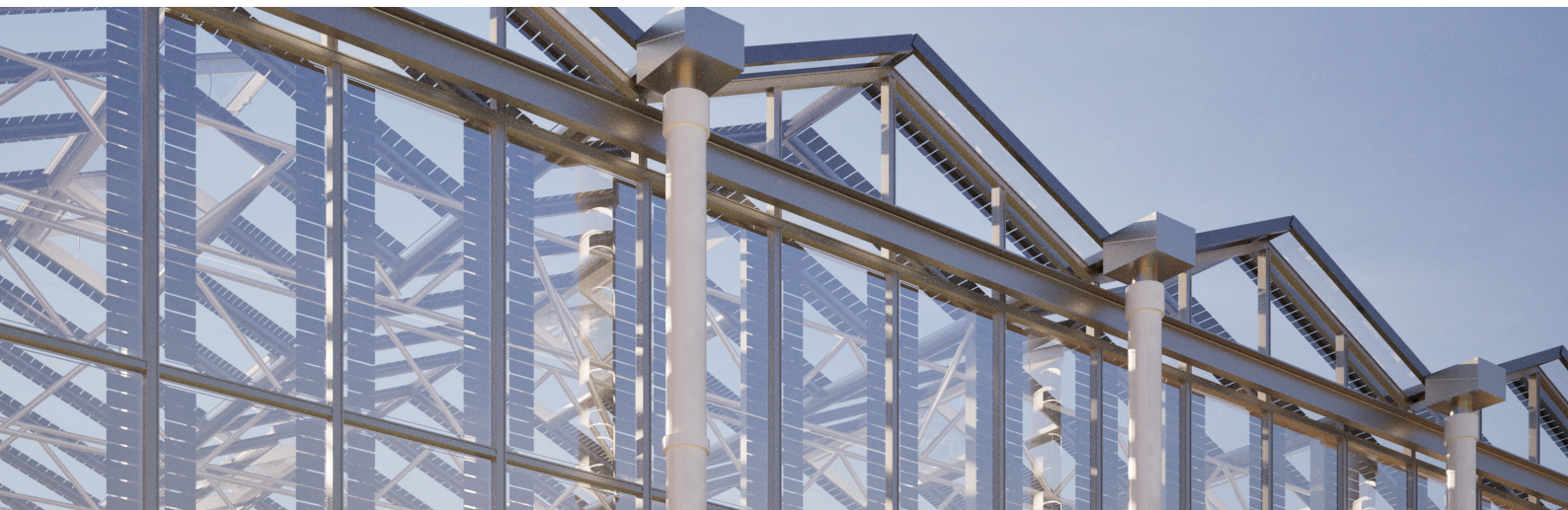
# Greenhouse Solar Solutions

## *For a Sustainable Growing Environment*

ClearVue<sup>PV</sup> Greenhouse Glass is engineered to integrate into industry-standard frames, provides 90% transparency to promote healthy plants and delivers clean energy generation due to its bifacial component. With ClearVue, greenhouses can be green on the inside and the outside.

### **Benefits**

- Compatible with standard greenhouse framing systems.
- High-efficiency solar cells maximise energy generation.
- Custom thicknesses available upon request to enhance structural safety.
- Can be utilised in combination with ClearVue Black Spandrel for energy generation.
- IP68 water resistance for a long lifespan.
- Silicon solar cells deliver a proven track record of reliability and longevity.
- Project-specific sizes and bespoke options available.
- Purpose-engineered for agricultural greenhouse environments.



# Quality Control & Quality Assurance

We are dedicated to delivering high-performance, high-quality, long-lasting and safe façade solutions.

## Warranty

12 year product warranty  
30 year linear power performance warranty

## Safety & Fire Testing

PV safety, fire classification, fire performance of external cladding

## Testing & Inspection

Visual inspection of solar cells and testing for quality & performance

## Electroluminescence

Inspection and testing of interlayer and solar wafers

## Environmental & Stress Testing

Water infiltration, weight bearing, impact, heat, cold and humidity

## Quality and Safety

ClearVue<sup>PV</sup> Vision Glass, Spandrel, Skylight, Balustrade, Cladding and Roof products are engineered to meet and/or exceed industry standards for quality, lifespan and safety.

By undergoing rigorous testing, compliance and certifications, our solar façade solutions demonstrate the reliability and suitability for deployment in diverse building envelope applications. This ensures optimal energy production, fire resistance and thermal efficiency. Adherence to these standards underscores our commitment to deliver high-quality, dependable products that contribute to sustainable and resilient built environments.





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For more detailed product information, warranty terms, and installation guidelines, please refer to official specifications documentation for each individual product or contact our technical support team.