Modernité
By CarbonFutureX® Group

PHOTOVOLTAIC GLASS FOR OUTDOOR SPACES

Solar Canopy



Made for life outside.

Daylight, shelter and solar generation. One glazing system for pergolas, carports and architectural shading.

PERGOLA

CARPORT

ARCHITECTURAL SHADING

A natural part of outdoor architecture.



01 / SOLAR PERGOLA

Room to enjoy the outdoors.

Create a light-filled, sheltered space for dining, relaxing and gathering, with electricity generated above.

PATIOS / TERRACES / GARDENS



02 / SOLAR CARPORT

Parking, with added purpose.

Bring solar generation to parking areas. Optional EV charging can be integrated into the project.

HOMES / WORKPLACES / PARKING



03 / SOLAR SHADING

Shade, shaped for the building.

Intercept direct sunlight outside the building, helping limit solar heat gain while producing electricity.

GLAZED FACADES / ENTRANCES

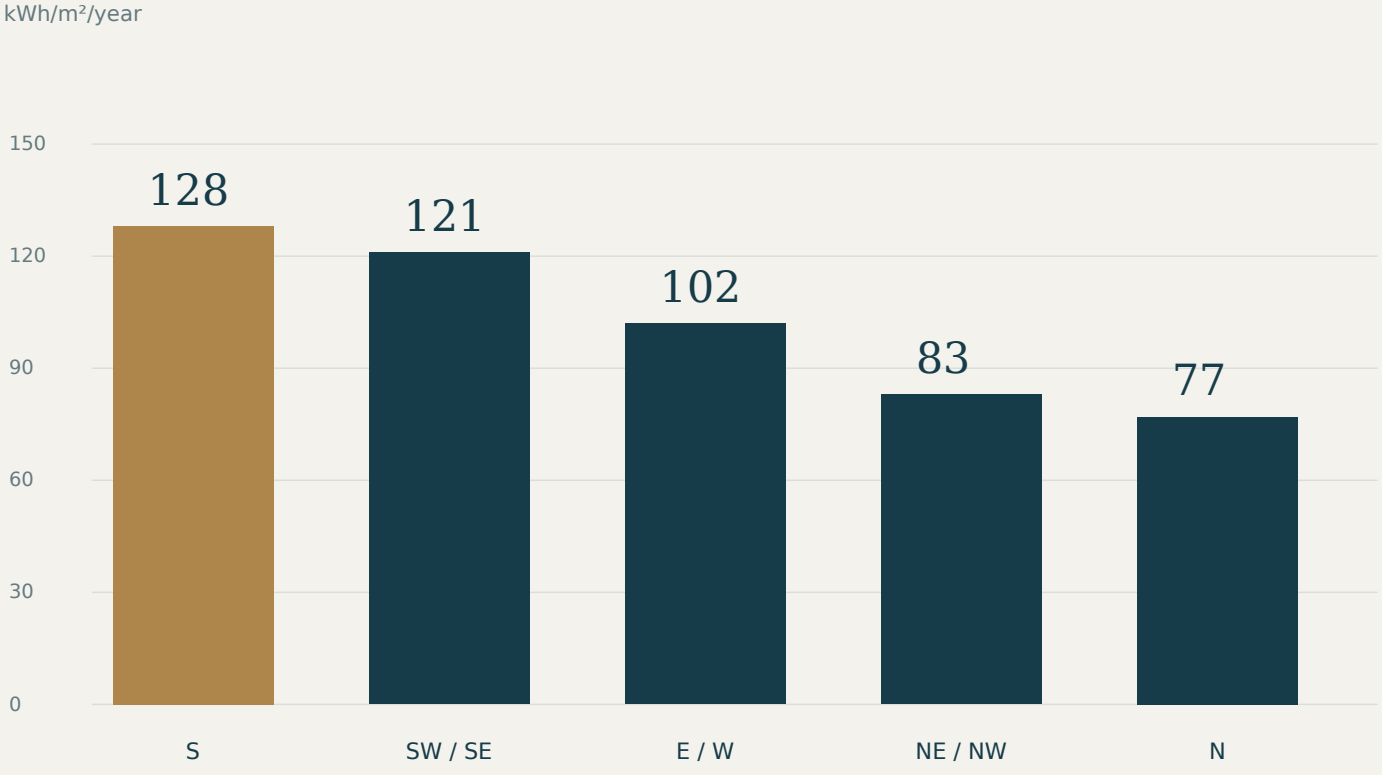
Useful energy. Thoughtfully integrated.

UK reference annual yield for the 30% transparency configuration.

128 kWh/m²/year

South-facing reference
Indicative annual solar generation per square metre.

ANNUAL YIELD BY ORIENTATION



Reference values from the current Modernité Solar Canopy webpage. Actual yield varies with location, roof inclination, shading and system design.

ILLUSTRATIVE 20 m² CANOPY

2,560 kWh/year

20 m² × 128 kWh/m²/year
Using the south-facing reference above.

Shade that works with the architecture.

Control direct sun before it reaches the glazing.



DESIGNED FOR THE SITE

Light. Views. Comfort.

Semi-transparent solar glass brings shade to the space below while retaining a connection to daylight and the outdoors.

External shading can help reduce solar heat gain, glare and the risk of summer overheating.

FOUR INPUTS SHAPE THE SHADING DESIGN

01

Orientation

Direction of sun exposure

02

Projection

Canopy depth

03

Height

Position above the glazing

04

Solar path

Local and seasonal sun angles

Project-specific shading studies are available to refine canopy depth, position and solar-energy performance.

Shelter, designed in the detail.

Laminated photovoltaic safety glass, roof falls, sealed joints and controlled drainage work together as one canopy system.



01 ## Project-specific design

Sized for the site, exposure and intended use.

02 ## Roof inclination

A continuous fall supports drainage and avoids standing water.

03 ## Weather-sealed joints

Compatible glazing profiles, gaskets and sealants help resist wind-driven rain.

04 ## Controlled drainage

Gutters and outlets guide rainwater away from the sheltered area.

05 ## Wind and snow design

Glass and support systems are checked for local loads and deflection.

06 ## Safe overhead glazing

Laminated safety glass is designed to retain fragments after breakage.

07 ## Protected electrics

Outdoor-rated connections and protected routes suit external exposure.

08 ## Water penetration testing

Controlled spray testing checks the joints and drainage.

Final glazing, structural, drainage and electrical details are confirmed for each project.

Connected spaces. Considered architecture.

A British campus concept for sheltered routes and shared outdoor spaces.



BRITISH CAMPUS / ARCHITECTURAL CONCEPT

A lighter way to connect.

A semi-transparent solar canopy can bring daylight, shelter and electricity generation to the spaces between buildings.

01

Covered routes

Connect entrances and buildings with a sheltered pedestrian route.

02

Shared spaces

Create welcoming outdoor areas for campuses and workplaces.

03

Integrated design

Coordinate the glass, support structure and drainage with the setting.

AI-generated application concept; not an installed project. Final configuration is project-specific.

Everyday spaces.
A new source of energy.



NOTTINGHAM / UNITED KINGDOM

A backyard canopy.

3.2 kW
Installed capacity



OUTDOOR LIVING / CONCEPT

Shelter for slower moments.

A garden terrace with filtered daylight and solar glass overhead.

ILLUSTRATIVE DESIGN

Nottingham photo and capacity: SolarInn Canopy, March 2026. Terrace image: design concept.



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LET’S SHAPE YOUR NEXT PROJECT

Bring your outdoor space to life.

Share your site, approximate canopy dimensions, orientation and intended use. We can discuss the glazing, shading and solar-generation approach for your project.

CERTIFICATION & CONFORMITY

ISO 9001 · UKCA · CE · MCS · TÜV Rheinland · cTUVus

Certification and conformity apply to the covered product models and the relevant certification scope.

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Explore Solar Canopy

Product information and website imagery: modernite.co.uk/solar-canopy. Nottingham photograph: SolarInn Canopy, March 2026. Page 6: AI-generated British campus concept. Illustrations are design concepts; final configuration is project-specific.