

HIDDEN PV IN WHITE COLOR



INTENSE GREEN 100 W/M²







CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

110 Wp per m² 0%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

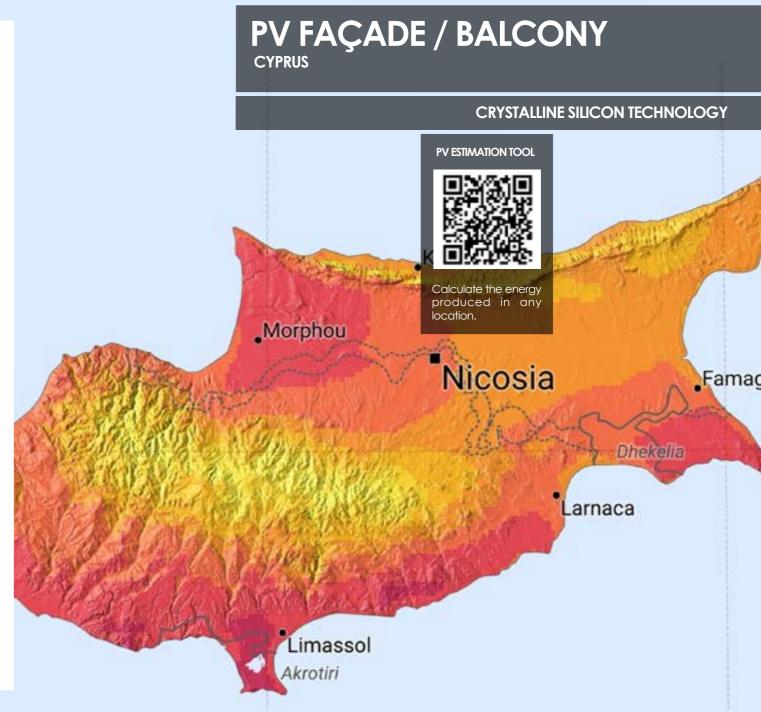
3.064 KWh per m² 2.074 Kg per m² 17.618 Km per m² 6 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 506 € per m²
3,31 times
8,40%
12 years
358 € per m²







DATA CONSIDERED FOR CALCULATIONS









ENERGY LOSSES PER ORIENTATION



-19%



-63%



-19%





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- ** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

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CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

110 Wp per m² 0%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

5.172 KWh per m² 3.501 Kg per m² 29.740 Km per m² 10 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 1.098 € per m²
10 times
24,91%
5 years
605 € per m²



HIDDEN PV ROOF CYPRUS

CRYSTALLINE SILICON TECHNOLOGY

Famag



DATA CONSIDERED FOR CALCULATIONS:









ENERGY LOSSES PER ORIENTATION



-18%











Limassol

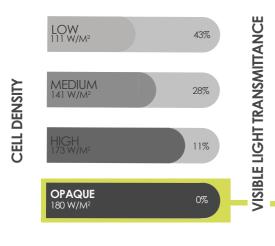
Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.



produce. Each tree absorbs an average of 10 Kg of CO2 per year.

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OPAQUE PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 180 Wp per m² 0%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy Kg of CO₂ avoided Kilometres driven in an electric car Light points fed

5.014 KWh per m² 3.394 Kg per m² 28.830 Km per m² 9,85 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase**

1.038 € per m² 8 times 20,55 % 0 years 286 € per m²



PV DOUBLE SKIN / SPANDREL CYPRUS

CRYSTALLINE SILICON TECHNOLOGY



DATA CONSIDERED FOR CALCULATIONS







ENERGY LOSSES PER ORIENTATION



-19%



-63%



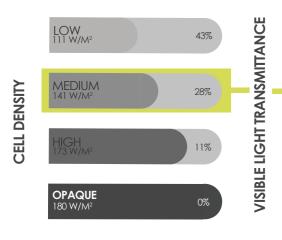






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MEDIUM CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

141 Wp per m² 28%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

3.927 KWh per m² 2.659 Kg per m² 22.584 Km per m² 7,72 per m²/day

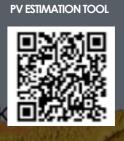
ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 736 € per m²
4,8 times
12,49 %
8 years
459 € per m²



PV CURTAIN WALL CYPRUS

CRYSTALLINE SILICON TECHNOLOGY



Calculate the energy produced in any location.

Nicosia

Larnaca

Dhekelia

Famag

Limassol

Morphou

DATA CONSIDERED FOR CALCULATIONS





ENERGY LOSSES PER ORIENTATION



-19%



-63%

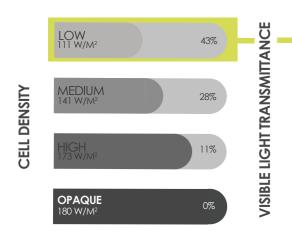








LOW CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 111 Wp per m² 43%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy Kg of CO₂ avoided Kilometres driven in an electric car Light points fed

3.092 KWh per m² 2.093 Kg per m² 17.779 Km per m² 6 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase**

565 € per m² 4,39 times 11,40 % 12 years 261 € per m²



PV BALUSTRADE / BALCONY **CYPRUS**

CRYSTALLINE SILICON TECHNOLOGY



DATA CONSIDERED FOR CALCULATIONS







ENERGY LOSSES PER ORIENTATION



-19%



-63%



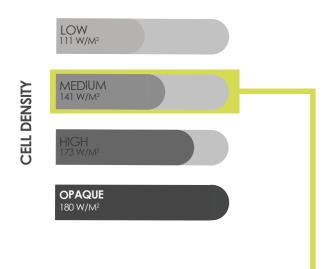
-19%





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OPAQUE PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 140 Wp per m² 0%

ENVIRONMENTAL BENEFITS NICOSIA

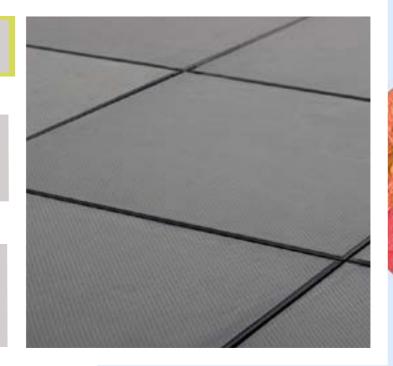
Renewable energy Kg of CO₂ avoided Kilometres driven in an electric car Light points fed

7.512 KWh per m² 5.086 Kg per m² 43.198 Km per m² 14,76 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase**

1.481 € per m² 6 times 15,57% 7 years 878 € per m²



WALKABLE PV FLOOR **CYPRUS CRYSTALLINE SILICON TECHNOLOGY** PV ESTIMATION TOOL Calculate the energy produced in any location. Morphou Nicosia Famag Dhekelia Larnaca Limassol

DATA CONSIDERED FOR CALCULATIONS







ENERGY LOSSES PER ORIENTATION







0°

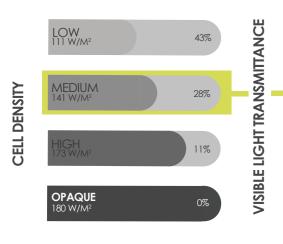




produce. Each tree absorbs an average of 10 Kg of CO2 per year.

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MEDIUM CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

141 Wp per m² 28%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

6.629 KWh per m² 4.888 Kg per m² 38.121 Km per m² 13,03 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 1.434 € per m² 11,57 times 29,51% 4 years 775 € per m²



PV SKYLIGHT CYPRUS CRYSTALLINE SILICON TECHNOLOGY PV ESTIMATION TOOL Calculate the energy produced in any location. Morphou Nicosia Famag Dhekelia Larnaca Limassol

DATA CONSIDERED FOR CALCULATIONS









ENERGY LOSSES PER ORIENTATION



-18%









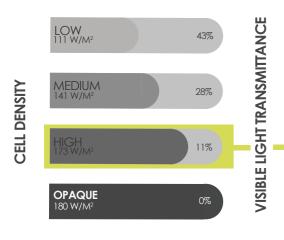




We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

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HIGH CELL DENSITY



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 173 Wp per m² 11%

ENVIRONMENTAL BENEFITS NICOSIA

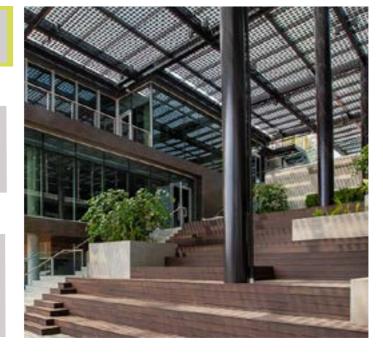
Renewable energy Kg of CO₂ avoided Kilometres driven in an electric car Light points fed

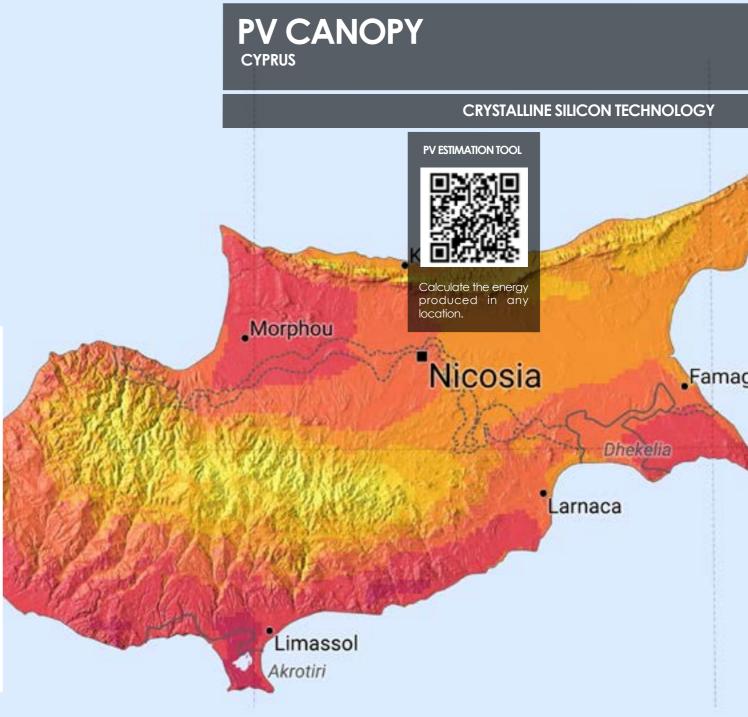
3.967 KWh per m² 3.067 Kg per m² 22.814 Km per m² 7,80 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase**

1.564 € per m² 11,8 times 30 % 4 years 844 € per m²















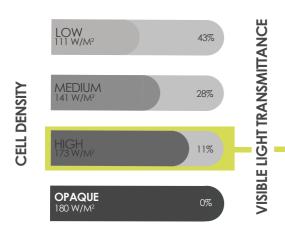




- Data Calculated for a 35-year useful life. * The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.
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HIGH CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

173 Wp per m² 11%

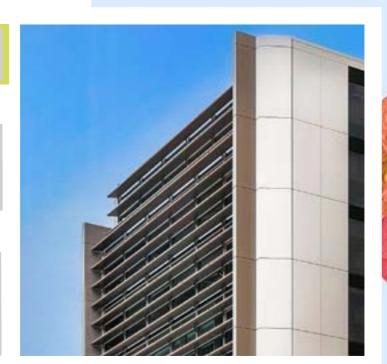
ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

8.134 KWh per m² 5.507 Kg per m² 46.773 Km per m² 16 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 1.781 € per m²
13,3 times
33,78%
4 years
951 € per m²



PV BRISE SOLEIL CYPRUS CRYSTALLINE SILICON TECHNOLOGY PV ESTIMATION TOOL Calculate the energy produced in any location. Morphou Nicosia Famag Dhekelia Larnaca Limassol

DATA CONSIDERED FOR CALCULATIONS









ENERGY LOSSES PER ORIENTATION



-18%



-39%



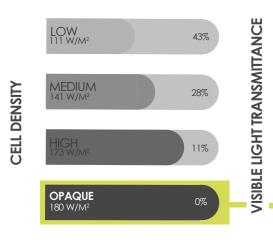






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OPAQUE PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 180 Wp per m² 0%

ENVIRONMENTAL BENEFITS NICOSIA

Renewable energy
Kg of CO₂ avoided
Kilometres driven in an electric car
Light points fed

5.014 KWh per m² 3.394 Kg per m² 28.830 Km per m² 9,85 per m²/day

ECONOMIC BENEFITS NICOSIA*

Value of the renewable energy Return on investment Internal rate of return (IRR) Payback time Building's value increase** 1.065 € per m²
9,73 times
25 %
5 years
586 € per m²



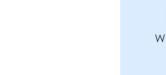
PV NOISE BARRIER CYPRUS CRYSTALLINE SILICON TECHNOLOGY PV ESTIMATION TOOL Calculate the energy produced in any location. Morphou Nicosia Famag Dhekelia Larnaca Limassol

DATA CONSIDERED FOR CALCULATIONS









ENERGY LOSSES PER ORIENTATION



-19%



-63%







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GlobalEPD A VERIFIED ENVIRONMENTAL DECLARATION



Environmental Product Declaration

EN ISO 14025:2010 EN 15804:2012+A2:2019

AENOR

CRYSTALLINE PHOTOVOLTAIC SOLAR GLASS

G/GM07244 G/GM07211 G/GM03644 G/GM01688A

GlobalEPD Code: GlobalEPD EN15804-063

ECO PLATFORM & AENOR

ECO Platform is a European Association made up of DAP Verification Program Administrators, industrial associations, and life cycle analysis experts, which guarantees the quality and conformity of environmental declarations of construction products in accordance with ISO 14025 and EN 15084 Standards. ECO Platform represents a common pan-European framework for DAPs. The Programs commit to common quality and verification criteria, which are regularly audited.

AENOR is a founding member of ECO Platform and passed audits in 2014 to issue Environmental Declarations with the ECO Platform EPD EN 15804 VERIFIED™ logo, being one of the first four European Administrators along with International EPD System (Sweden), IBU (Germany) and BAU EPD (Austria).



GLOBAL EPD

SCAN THE QR TO DOWNLOAD OUR EPD

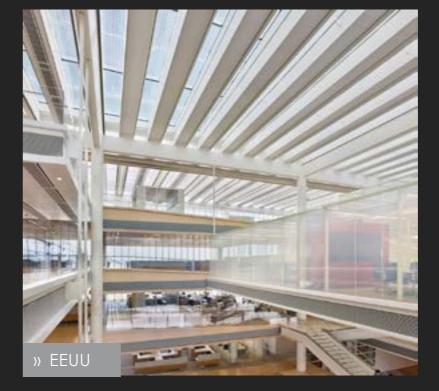


The Environmental Product Declaration (EPD) is a certified document that provides our clients with reliable, verified, and transparent information regarding the environmental impact throughout the life cycle of a product. This information is based on a Life Cycle Analysis (LCA) study conducted in accordance with the Product Category Rules (PCR) developed by the Eco-labeling Program. In our specific case, the study has been carried out under the **Product Category** Rule for Construction Products UNE EN 15804:2012+A2.























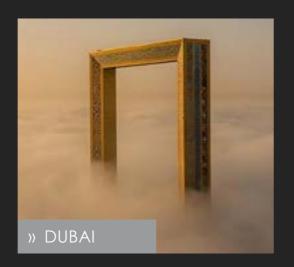




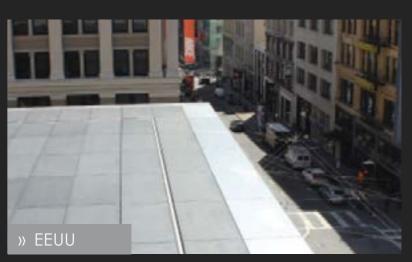








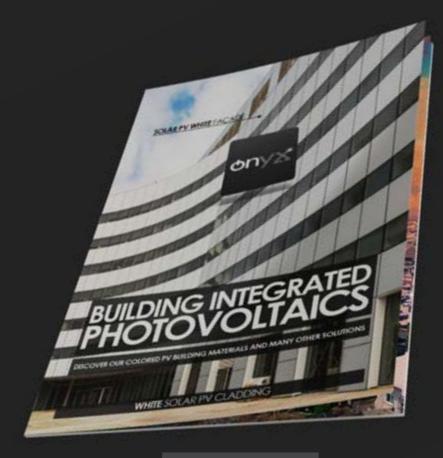














Scan this QR code to acces our catalog.

UNLOCKING THE POWER OF PHOTOVOLTAIC GLASS:

Are you curious about the potential of photovoltaic (PV) glass for your project? Our team at Onyx Solar is here to guide you through the process and help you harness the benefits of this innovative technology.

WHAT DOES PV GLASS BRING TO YOUR PROJECT?

- ✓ Energy Generation: PV glass generates clean electricity from sunlight, reducing your reliance on traditional power sources.
- ✓ **Aesthetic Integration:** Say goodbye to bulky solar panels! PV glass blends seamlessly with architectural designs, enhancing the visual appeal of your building.
- ✓ Environmental Impact: By using PV glass, you contribute to reducing carbon emissions. Imagine the positive impact on our planet!

HOW ONYX SOLAR CAN ASSIST YOU

Our technical team offers free feasibility studies tailored to your project. Here's what we provide:

- · Product Datasheets: Detailed information about our PV glass products, including technical specifications.
- ·Shop Drawings: Visual representations to aid in your design process.
- Energy Estimates: Understand the potential energy output based on your installation.
- ·CO₂ Emissions Prevented: Quantify the environmental benefits of using PV glass.
- ·Cost Analysis: Get a clear picture of the investment required.
- $\label{lem:continuous} \textbf{`Payback and ROI:} \ \textbf{Evaluate the financial returns over time.}$
- ·Tax Credits and Incentives: Explore available incentives to make an informed decision.



FACTORY

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The value of the renewable energy generated is just a preliminary estimate and does not imply any kind of guarantee. Factors such as surrounding shadows, self-shades, or other external aspects have not been taken into account. These factors might lead to a reduction in energy production. In addition, other potential losses due to BOS are also excluded from these calculations. The calculation has been done using PVWATTS and PVSYST in pre-design mode.

Onyx Solar Energy S.L. makes no representations about the accuracy of these estimates and does not warrant, or guarantee, whether express or implied, that the content in the report is accurate, complete, or up to date.