

HIDDEN PV IN WHITE COLOR



INTENSE GREEN 100 W/M²





DEEP BLUE

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 110 Wp per m² 0%

ENVIRONMENTAL BENEFITS VALLETTA

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

3.345 KWh per m² 2.143 Kg per m² 19.032 Km per m² 6,5 per m²/day

ECONOMIC BENEFITS VALLETTA*

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

737 € per m² 30 times 97 % 2 years

501 € per m²

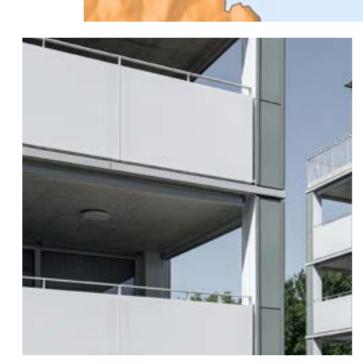
DATA CONSIDERED FOR CALCULATIONS













PV FAÇADE / BALCONY

PV ESTIMATION TOOL

CRYSTALLINE SILICON TECHNOLOGY

produced in any



ENERGY LOSSES PER ORIENTATION



-18%





-18%

-56%





Birkirkara

Mosta.

Zebbug

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

Valletta

Zabbar

Mars

Data Calculated for a 35-year useful life.

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Mellieha

** 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.

HIDDEN PV IN WHITE COLOR









CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 110 Wp per m² 0%

ENVIRONMENTAL BENEFITS VALLETTA

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

2.346 KWh per m² 1.446 Kg per m² 13.478 Km per m² 5,6 per m²/day

ECONOMIC BENEFITS VALLETTA*

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

548 € per m² 5,1 times 13 % 6 years 279 € per m²

HIDDEN PV ROOF **MALTA**

CRYSTALLINE SILICON TECHNOLOGY



produced in any location.



Victoria

ENERGY LOSSES PER ORIENTATION



-16%



-34%



-16%



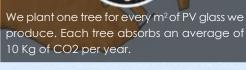
Mellieha



Birkirkara

Mosta.

Zebbug



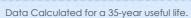
Valletta

Zabbar

Mars

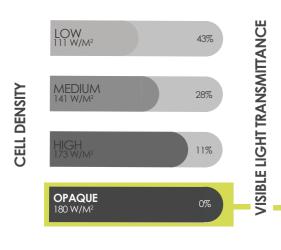


DATA CONSIDERED FOR CALCULATIONS



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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 VALLETTA

Renewable energy generated Kg of CO₂ avoided Kilometres driven in an electric car Light points fed 3.709 KWh per m² 2.403 Kg per m² 21.329 Km per m² 7,3 per m²/day

ECONOMIC BENEFITS VALLETTA*

Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase** 829 € per m²
5,6 times
11,8 %
9 years
343 € per m²

PV DOUBLE SKIN / SPANDREL

MALTA

Mosta.

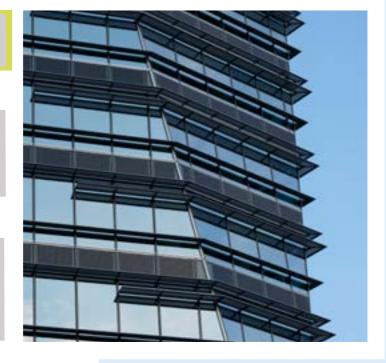
Zebbug

Birkirkara

CRYSTALLINE SILICON TECHNOLOGY



Calculate the energy produced in any



Victoria

ENERGY LOSSES PER ORIENTATION



-18%



-56%



-18%



Mellieha



Valletta

Zabbar

Mars

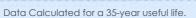
We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.





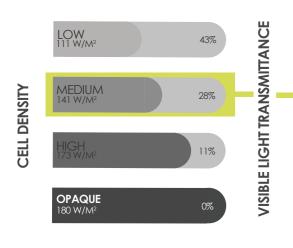






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MEDIUM CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)
Visible light transmittance

141 Wp per m² 28%

ENVIRONMENTAL BENEFITS VALLETTA

Renewable energy generated Kg of CO₂ avoided Kilometres driven in an electric car Light points fed 2.905 KWh per m² 1.882 Kg per m² 16.708 Km per m² 5,7 per m²/day

ECONOMIC BENEFITS VALLETTA*

Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase** 650 € per m²
3,3 times
8 %
13 years
268 € per m²

Victoria

PV CURTAIN WALL

MALTA

CRYSTALLINE SILICON TECHNOLOGY



Calculate the energy produced in any location.

Mosta.

Mellieha

Birkirkara

Zebbug



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



Zabbar

Mars

Valletta

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

DATA CONSIDERED FOR CALCULATIONS









Data Calculated for a 35-year useful life.

-18%

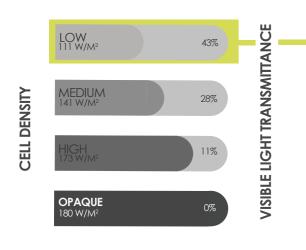
ENERGY LOSSES PER ORIENTATION

-56%

-18%

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LOW CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS VALLETTA

Renewable energy generated Kg of CO₂ avoided Kilometres driven in an electric car Light points fed 2.287 KWh per m² 1.482 Kg per m² 13.153 Km per m² 4,5 per m²/day

ECONOMIC BENEFITS VALLETTA*

Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase** 511 € per m² 3 times 7,1 % 14 years 211 € per m²

Victoria

PV BALUSTRADE / BALCONY

MALTA

CRYSTALLINE SILICON TECHNOLOGY



Calculate the energy produced in any location.

Birkirkara

Mosta.

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



Zabbar

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

Valletta

DATA CONSIDERED FOR CALCULATIONS









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-18%

ENERGY LOSSES PER ORIENTATION

-56%

-18%

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Mellieha

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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 VALLETTA

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

4.564 KWh per m² 2.957 Kg per m² 26.247 Km per m² 9 per m²/day

ECONOMIC BENEFITS VALLETTA*

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

DATA CONSIDERED FOR CALCULATIONS

1.020 € per m² 3,7 times 9 % 12 years 422 € per m²

Victoria

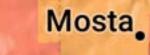
WALKABLE PV FLOOR

MALTA

CRYSTALLINE SILICON TECHNOLOGY



produced in any location.



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Birkirkara

Zebbug





Zabbar

Mars

Valletta

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

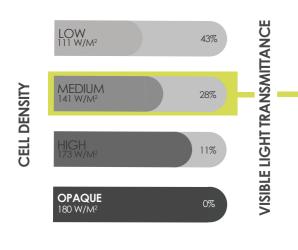
Data Calculated for a 35-year useful life.

ENERGY LOSSES PER ORIENTATION

0°

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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 VALLETTA

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

5.027 KWh per m² 3.257 Kg per m² 28.906 Km per m² 9,88 per m²/day

ECONOMIC BENEFITS VALLETTA*

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

1.124 € per m² 4 times 18,3 % 13 years 464 € per m²

Victoria

PV SKYLIGHT

MALTA

CRYSTALLINE SILICON TECHNOLOGY



produced in any location.



Mellieha

Birkirkara

Zebbug



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

Valletta

Zabbar

Mars

DATA CONSIDERED FOR CALCULATIONS







Data Calculated for a 35-year useful life.

-16%

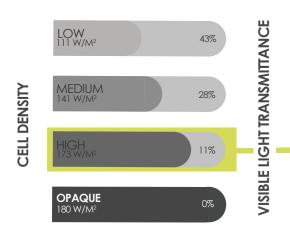
ENERGY LOSSES PER ORIENTATION

-34%

-16%

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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 VALLETTA

Renewable energy generated Kg of CO₂ avoided Kilometres driven in an electric car Light points fed 5.600 KWh per m² 3.629 Kg per m² 32.204 Km per m² 11 per m²/day

ECONOMIC BENEFITS VALLETTA*

Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase** 1.252 € per m²
9 times
20 %
6 years
517 € per m²

Victoria

PV CANOPY

MALTA

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

Mosta_

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Birkirkara

Zebbug



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Zabbar

Mars

Valletta

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DATA CONSIDERED FOR CALCULATIONS



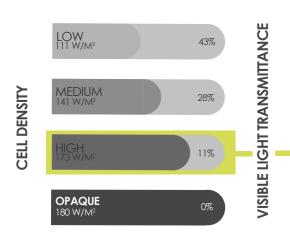
Orientation:

Data Calculated for a 35-year useful life.

ENERGY LOSSES PER ORIENTATION

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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 VALLETTA

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

6. 168KWh per m² 3.997 Kg per m² 35.467 Km per m² 12,12 per m²/day

ECONOMIC BENEFITS VALLETTA*

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

1.379 € per m² 15,2 times 21,55 % 5 years 570 € per m²

DATA CONSIDERED FOR CALCULATIONS







Victoria

PV BRISE SOLEIL

MALTA

CRYSTALLINE SILICON TECHNOLOGY



produced in any



ENERGY LOSSES PER ORIENTATION



-16%





-34% -16%



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Valletta

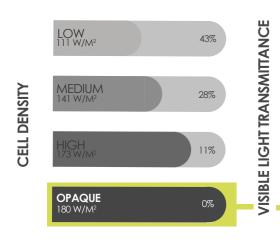
Zabbar

Mars

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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 VALLETTA

Renewable energy generated Kg of CO₂ avoided Kilometres driven in an electric car Light points fed 3.709 KWh per m² 2.403 Kg per m² 21.329 Km per m² 7,3 per m²/day

ECONOMIC BENEFITS VALLETTA*

Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase** 829 € per m²
5 times
11,8 %
9 years
343 € per m²

Victoria

PV NOISE BARRIER

MALTA

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.



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Mosta.

Birkirkara

Zebbug



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



Zabbar

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Valletta

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ENERGY LOSSES PER ORIENTATION

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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

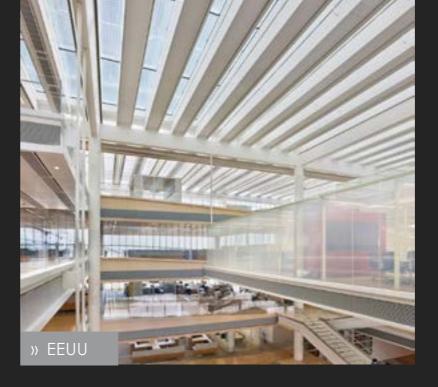


The Environmental Product Declaration (EPD) is a certified document that provides our clients with reliable, verified, and transparent information regarding the environmental impact throughout the life cycle of a product. This information is based on a Life Cycle Analysis (LCA) study conducted in accordance 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.























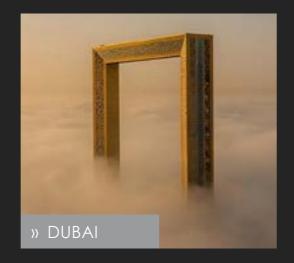




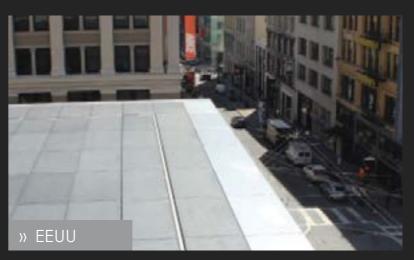








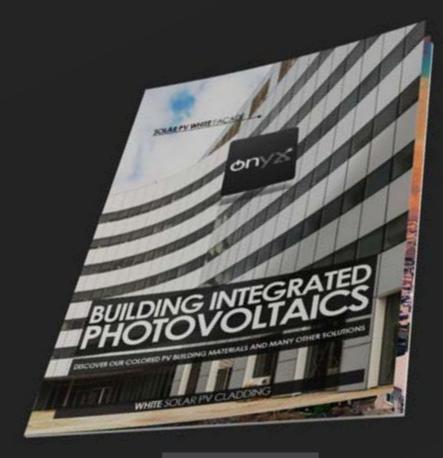














Scan this QR code to acces our catalog.

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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OFFICE

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www.onyxsolar.com

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.