

HIDDEN PV IN WHITE COLOR









CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

2.686 KWh per m² 1.953 Kg per m² 15.449 Km per m² 5,28 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

2.342 € per m² 8,25 times 25,15% 4 years 1.157 € per m²

DATA CONSIDERED FOR CALCULATIONS













CRYSTALLINE SILICON TECHNOLOGY Netanya

PV FAÇADE / BALCONY

PV ESTIMATION TOOL

location.

Beer Sheva

35°E

Haifa

Tel Aviv

Ashdod



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



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



-3%

ENERGY LOSSES PER ORIENTATION



HIDDEN PV IN WHITE COLOR







CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

3.103 KWh per m² 93 Kg per m² 17.843 Km per m² 6,1 per m²/day

ECONOMIC BENEFITS TEL AVIV*

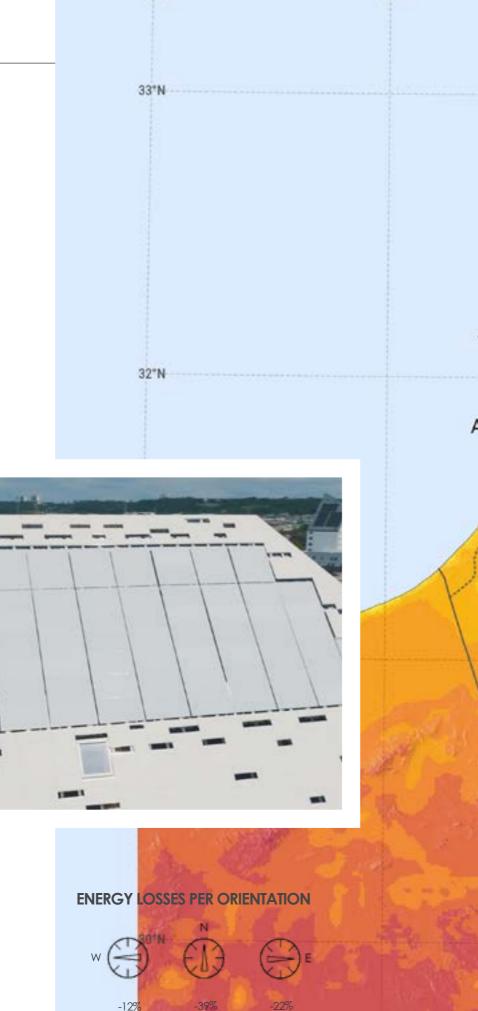
Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase**

865 € per m² 19,38 times 48,82% 3 years 427 € per m²

DATA CONSIDERED FOR CALCULATIONS







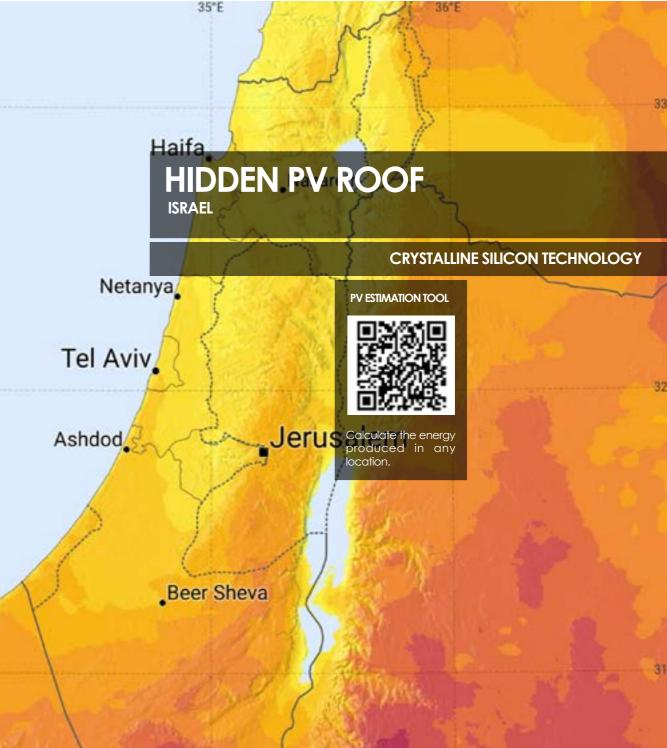
33°E

34°E

Data Calculated for a 35-year useful life.

- ** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value betver 10 and





BREEAM

Onyx facilitates obtaining recognized sustainability

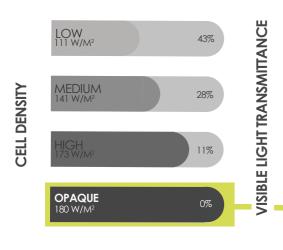
certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we

produce. Each tree absorbs an average of

10 Kg of CO2 per year.

OPAQUE PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

4.396 KWh per m² 3.196 Kg per m² 25.281 Km per m² 8,64 per m²/day

ECONOMIC BENEFITS TEL AVIV*

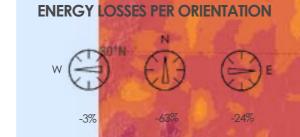
Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase**

3.833 € per m² 9,22 times 26,35% 4 years 1.893 € per m²

DATA CONSIDERED FOR CALCULATIONS







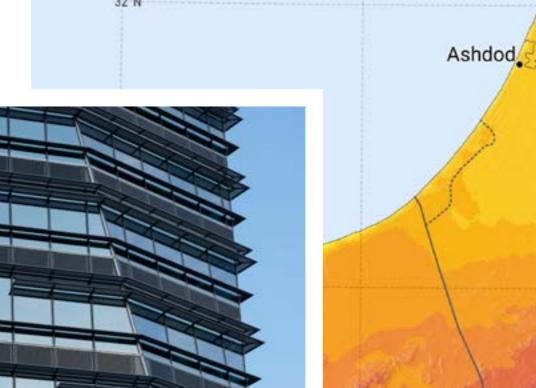
Data Calculated for a 35-year useful life.

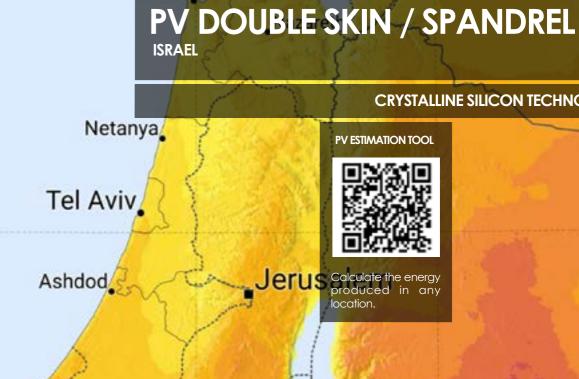
** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value betver 10



34°E

33°E





CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

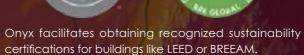
location.

Beer Sheva

35°E

Haifa,



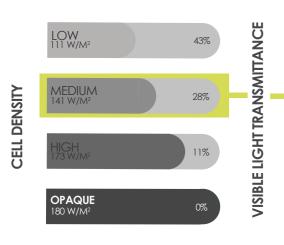




We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.



MEDIUM CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 141 Wp per m² 28%

ENVIRONMENTAL BENEFITS TEL AVIV

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

3.444 KWh per m² 2.503 Kg per m² 19.803 Km per m² 6,77 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

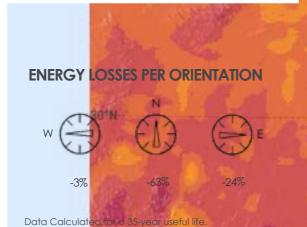
7,55 times 22,14% 5 years 1.483 € per m²

3.002 € per m²

DATA CONSIDERED FOR CALCULATIONS









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



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

33*N

32°N

33°E

Haifa. PV CURTAIN WALL

CRYSTALLINE SILICON TECHNOLOGY

Tel Aviv

Netanya/

Ashdod

34°E

location.

PV ESTIMATION TOOL

Beer Sheva

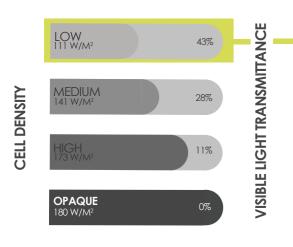
35°E





** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value betver 10

LOW CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

2.711 KWh per m² 1.971 Kg per m² 15.590 Km per m² 5,33 per m²/day

ECONOMIC BENEFITS TEL AVIV*

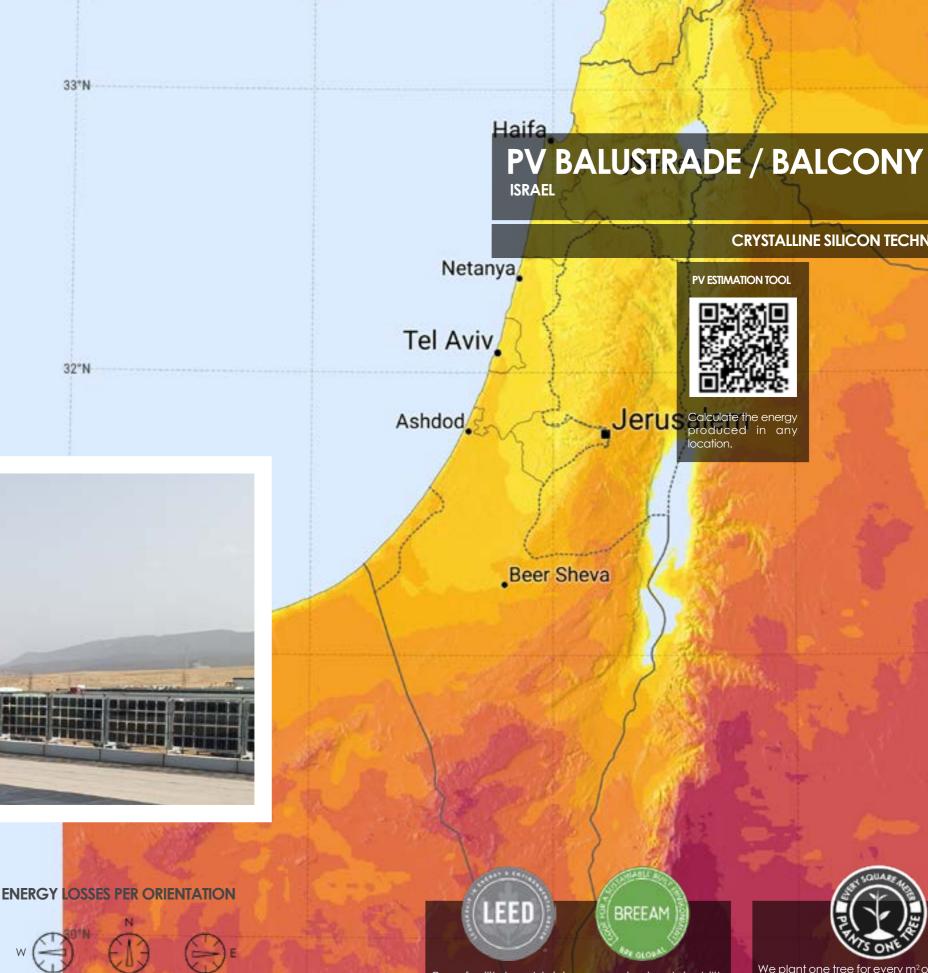
Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase**

2.364 € per m² 7,26 times 21,57% 5 years 1.167 € per m²

DATA CONSIDERED FOR CALCULATIONS







34°E

ENERGY LOSSES PER ORIENTATION -3%

33°E



BREEAM

35°E

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

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

location.

Data Calculated for a 35-year useful life.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value bety exp 10



OPAQUE PV GLASS

LOW 111 W/M² MEDIUM 141 W/M² **CELL DENSITY** OPAQUE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

5.266 KWh per m² 3.828 Kg per m² 30.281 Km per m² 10,35 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

9,64 times 27,86% 4 years 2.268 € per m²

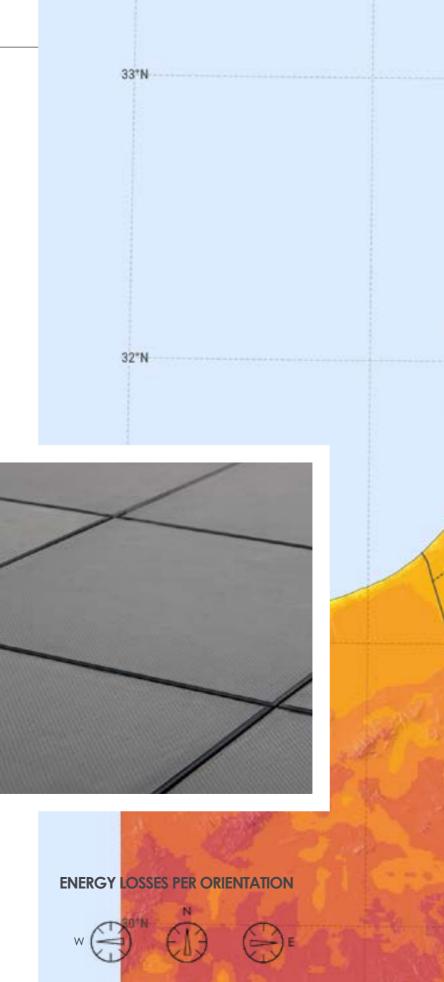
4.591 € per m²

DATA CONSIDERED FOR CALCULATIONS



Orientation:





33°E





34°E

Data Calculated for a 35-year useful life.

- ** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 0



Beer Sheva

35°E

WALKABLE PV FLOOR

PV ESTIMATION TOOL

location.

Haifa,

Netanya/

Tel Aviv

Ashdod

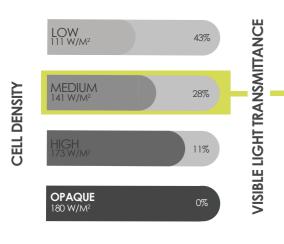


CRYSTALLINE SILICON TECHNOLOGY

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



MEDIUM CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²) Visible light transmittance 141 Wp per m² 28%

ENVIRONMENTAL BENEFITS TEL AVIV

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

5.960 KWh per m² 4.333 Kg per m² 34.273 Km per m² 11,71 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

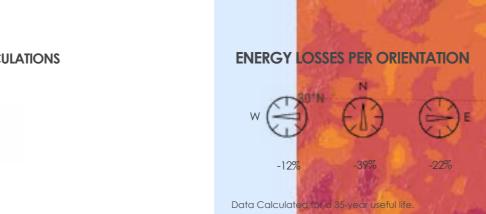
15 times 42,32% 3 years 2.566 € per m²

5.196 € per m²

DATA CONSIDERED FOR CALCULATIONS



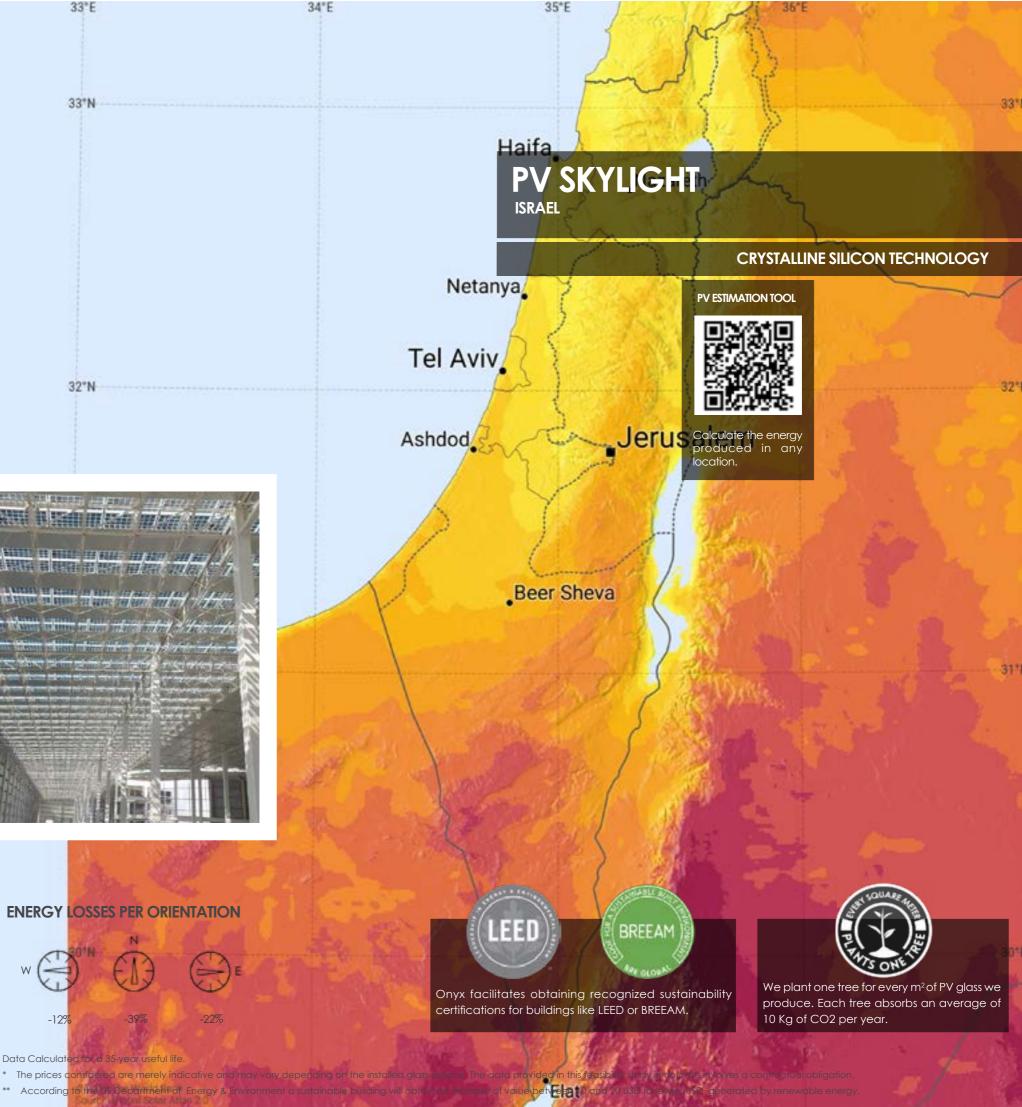




33°E

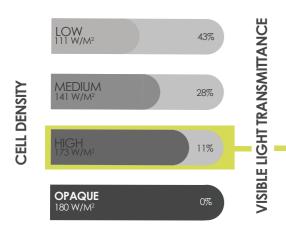
33*N

32°N





HIGH CELL DENSITY



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

6.507 KWh per m² 4.731 Kg per m² 37.419 Km per m² 12,79 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

5.673 € per m² 14 times 39,13% 3 years 2.802 € per m²

DATA CONSIDERED FOR CALCULATIONS







34°E

35°E

Beer Sheva

BREEAM

Onyx facilitates obtaining recognized sustainability

certifications for buildings like LEED or BREEAM.

PV CANOPY

CRYSTALLINE SILICON TECHNOLOGY

We plant one tree for every m² of PV glass we

produce. Each tree absorbs an average of

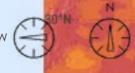
10 Kg of CO2 per year.

PV ESTIMATION TOOL

location.

Haifa,

ENERGY LOSSES PER ORIENTATION



33°E





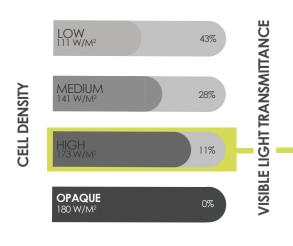
Data Calculated for a 35-year useful life.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value betver 10





HIGH CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

7.313 KWh per m² 5.316 Kg per m² 42.051 Km per m² 14,37 per m²/day

ECONOMIC BENEFITS TEL AVIV*

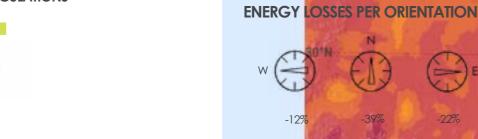
Value of the renewable energy generated Return on investment Internal rate of return (IRR) Payback time Building's value increase**

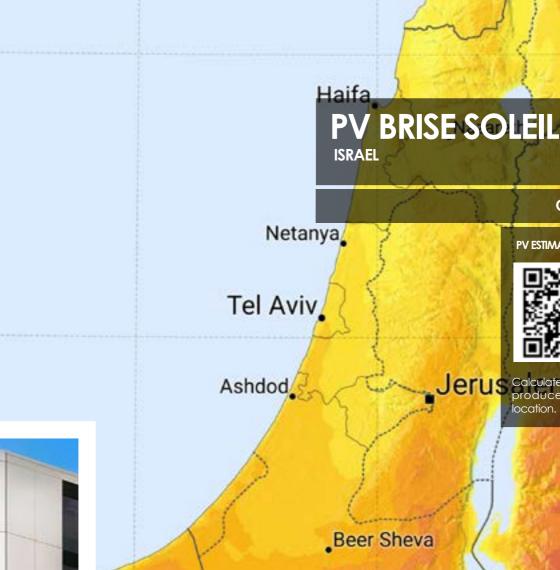
6.376 € per m² 15,76 times 43,59% 3 years 3.149 € per m²

DATA CONSIDERED FOR CALCULATIONS









34°E



33°E

33*N

32°N

BREEAM Onyx facilitates obtaining recognized sustainability

35°E

certifications for buildings like LEED or BREEAM.



CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

location.

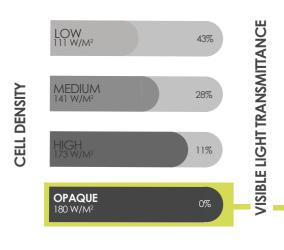
We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

- ** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value betver 10



OPAQUE PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS TEL AVIV

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

4.396 KWh per m² 3.196 Kg per m² 25.281 Km per m² 8,64 per m²/day

ECONOMIC BENEFITS TEL AVIV*

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

8,88 times 25,53% 4 years 1.893 € per m²

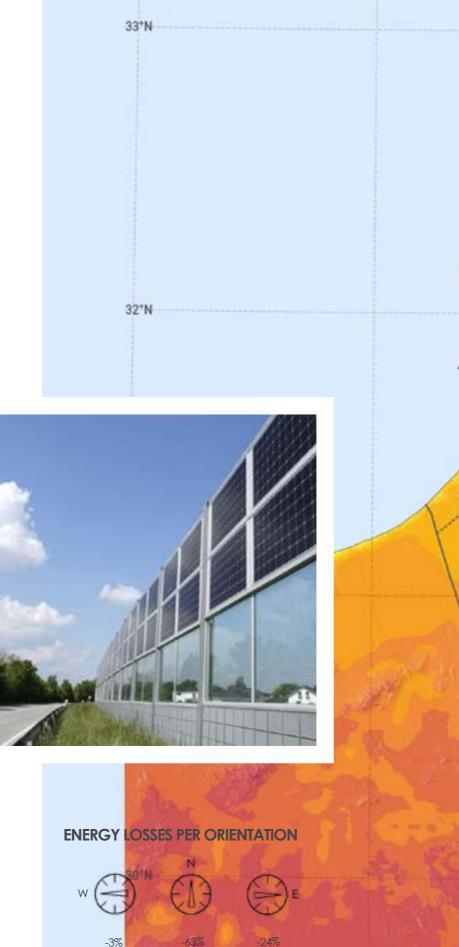
3.833 € per m²

DATA CONSIDERED FOR CALCULATIONS







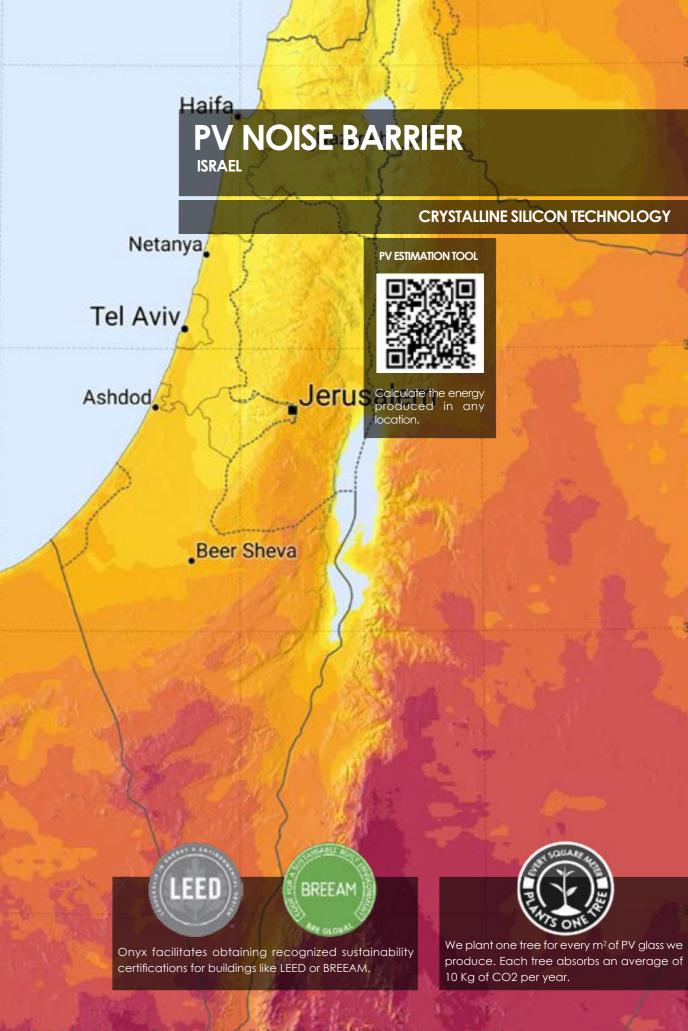


Data Calculated for a 35-year useful life.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 0

33°E

34°E



35°E





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

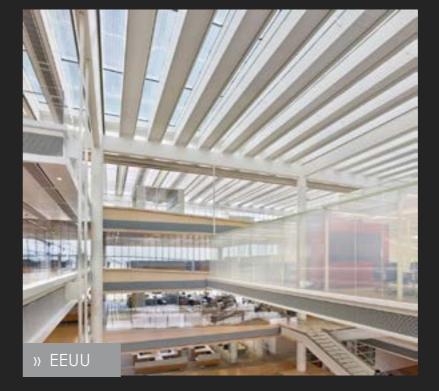


The Environmental Product Declaration (EPD) is a certified document that provides our clients with reliable, verified, and transparent information regarding the environmental impact throughout the life cycle of a product. This information is based on a Life Cycle Analysis (LCA) study conducted in accordance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























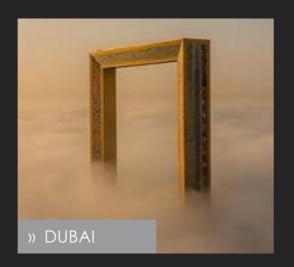




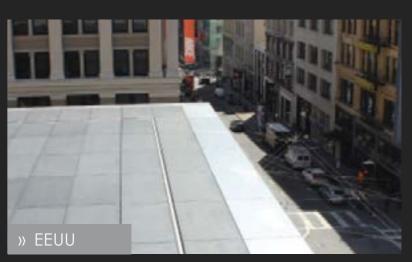








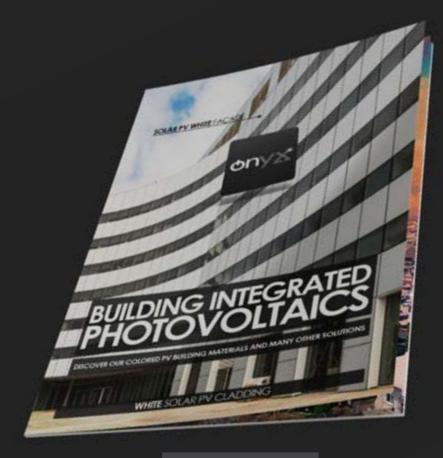














Scan this QR code to acces our catalog.

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.
- $\textbf{\cdot Payback and ROI:} \ \textbf{Evaluate the financial returns over time.}$
- •Tax Credits and Incentives: Explore available incentives to make an informed decision.



FACTORY

C/ Palma de Mallorca, 8 Avila · Spain · 05194 Phone: +34 920 21 00 50 info@onyxsolar.com

OFFICE

79 Madison Avenue, Suite #231 New York · USA · 10016 Phone: +1 917 261 4783 usa@onyxsolar.com

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.