CONSTRUCTIVE SOLUTIONS WITH OUR PV GLASS

FIND OUT MORE ABOUT OUR PV GLASS MAXIMIZES YOUR BUILDING'S ENVELOPE PERFORMANCE
to the sun.

Choose between our different transparency degrees and start generating free and clean electricity thanks
OFFSET ALL YOUR BUILDING'S ENERGY DEMAND BY USING OUR PV GLASS

W/Sq Ft

Low Transparency High Transparency

ONYX SOLAR'S PV GLASS?

HOW MUCH ENERGY WILL MY BUILDING

www.onyxsolar.com/photovoltaic-estimation-tool

Visit our website and find out:

low

medium

high

value!

investment while increasing your building's

O&M cost decrease and a great return on

ves and 30% Federal Investment Tax Credit,

Add photovoltaic properties to your building

per Sq Ft

obtain up to 50 $ worth of energy

5.4

3.7

3.16

2.6

IMMEDIATE PAYBACK

THAN OTHER ALTERNATIVE

TECHNICAL DATASHEET

COMPARISON BETWEEN A CONVENTIONAL LOW-E GLASS

IN VENTILATED FAÇADES

IS NOT MORE EXPENSIVE

become vertical power generators.

properties,

furniture and humans; and it reduces the transmission of infrared radiation by up to 90%. Given these

indoor air conditioning; and it drastically reduces the cost of electricity. Photovoltaic glass developed

solar factor enhances thermal comfort inside the building; it completely offsets the energy demand for

Our state-of-the-art facilities located in Ávila (Spain),

OUR FACTORY

China Life Tower, ChaoWay,

FRP panels manufactured with high performance glass fibers. The FRP panel thickness is 4 mm and it

From PECVD to lamination, our vertically-integrated

ISO 9001 and ISO 14001 certifications, attesting to our

alongside our processes, have received the ISO

Our fully automated production lines combine high efficiency with accurate execution, generating a

capacity of over 2,000,000 sq ft.

production lines are fully operative with a production

in place.

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OFFSET ALL YOUR BUILDING'S ENERGY DEMAND BY USING OUR TRANSPARENT LOW-E PHOTOVOLTAIC GLASS

Onyx Solar has developed the first transparent, low-emissivity photovoltaic glass in the market. Our PV glass shows the same mechanical properties as a conventional, architectural glass used in construction. However, in addition, it also generates free and clean energy thanks to the sun. Moreover, its optimized solar factor enhances thermal comfort inside the building. It completely offsets the energy demand for indoor air conditioning, and it drastically reduces the cost of electricity. Photovoltaic glass developed by Onyx Solar also filters 99% of ultraviolet radiation (UV), which may have a harmful effect on interiors, furniture, and humans; and it reduces the transmission of infrared radiation by up to 90%. Given these properties, our PV Glass maximizes the performance of the building’s envelope, enabling buildings to become vertical power generators.

OFFSET ALL YOUR BUILDING’S ENERGY DEMAND BY USING OUR PV GLASS

OUR PV GLASS MAXIMIZES YOUR BUILDING’S ENVELOPE PERFORMANCE AND TURNS IT INTO A VERTICAL POWER GENERATOR

Add photovoltaic properties to your building and obtain up to 50 $ worth of energy per Sq Ft. In addition, benefit from incentives and 30% Federal Investment Tax Credit. Quick return on investment while increasing your building's value!

TECHNICAL DATASHEET

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Low Transparency</th>
<th>Medium Transparency</th>
<th>High Transparency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Power</td>
<td>5.4 W/sqft</td>
<td>3.7 W/sqft</td>
<td>2.6 W/sqft</td>
</tr>
<tr>
<td>Visible Light Transmittance</td>
<td>UNE-EN 410:1996</td>
<td>0.2% 0.0%</td>
<td>10.1% 10.3%</td>
</tr>
<tr>
<td>SHGC</td>
<td>22% 55% 0.2%</td>
<td>32% 12% 0.5%</td>
<td>41% 7% 0.9%</td>
</tr>
<tr>
<td>U-Value</td>
<td>0.2% 0.3%</td>
<td>0.2% 0.3%</td>
<td>0.2% 0.3%</td>
</tr>
<tr>
<td>UV Transmittance</td>
<td>UNE-EN 410:1996</td>
<td>0.0% 0.0%</td>
<td>0.3% 1.0%</td>
</tr>
<tr>
<td>Acoustic Insulation</td>
<td>UNE-EN 2014/2005</td>
<td>7.6% 7.3%</td>
<td>8.3% 7.3%</td>
</tr>
</tbody>
</table>

Note that depending on the intensity of the incident light, the perception of transparency varies. Our PV Glass is optimized so that the perception of transparency is higher from the inside of the building.

OFFSET ALL YOUR BUILDING’S ENERGY DEMAND BY USING OUR PV GLASS

HOW MUCH ENERGY WILL MY BUILDING PRODUCE WHEN INSTALLING ONYX SOLAR'S PV GLASS?

Visit our website and find out: www.onyxsolar.com/photovoltaic-estimation-tool

FACT: USING ONYX SOLAR PV GLASS IN VENTILATED FAÇADES IS NOT MORE EXPENSIVE THAN OTHER ALTERNATIVE BUILDING MATERIALS

Choose between our different transparency degrees and start generating free and clean electricity thanks to the sun.

COMPARISON BETWEEN A CONVENTIONAL LOW-E GLASS AND ONYX SOLAR LOW-E PHOTOVOLTAIC GLASS

Energy generated (up to 50 $/sqft worth energy)

Safety & Resilience (116% increase)

Natural Light (up to 34.5% vs 19%)

U-Value (up to 1.3 vs 1.3)

Natural Wood

Fiber cement rainscreen

Onyx Solar laminated PV glass

Onyx Solar three-ply laminated PV glass

Solar Roof

Honeycomb metal

Tetrasil
CONSTRUCTIVE SOLUTIONS WITH OUR PV GLASS

FIND OUT MORE ABOUT

Choose between our different transparency degrees and start generating free and clean electricity thanks to the sun.

OFFSET ALL YOUR BUILDING'S ENERGY DEMAND BY USING OUR PV GLASS

PERFORMANCE COMPARISON BETWEEN A CONVENTIONAL LOW-E GLASS AND OUR PV GLASS

<table>
<thead>
<tr>
<th>Transparency</th>
<th>Low-Transparency</th>
<th>Medium-Transparency</th>
<th>High-Transparency</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/Sq Ft</td>
<td>2.6</td>
<td>3.16</td>
<td>3.7</td>
</tr>
<tr>
<td>Natural Light</td>
<td>37%</td>
<td>32%</td>
<td>37%</td>
</tr>
<tr>
<td>Visible Light</td>
<td>7.6%</td>
<td>7.3%</td>
<td>7.1%</td>
</tr>
<tr>
<td>SHGC</td>
<td>0.12 Btu/h ft² F</td>
<td>0.21*</td>
<td>0.21*</td>
</tr>
<tr>
<td>Energy generated</td>
<td>5.4 W/sqft</td>
<td>3.7 W/sqft</td>
<td>3.16 W/sqft</td>
</tr>
</tbody>
</table>

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In addition, benefit from incentives.

**IMMEDIATE PAYBACK** THAN OTHER ALTERNATIVE

**OVER 150 PROJECTS AROUND THE WORLD AND MORE THAN 50 INTERNATIONAL AWARDS PROVE OUR GLOBAL LEADERSHIP**

The most awarded photovoltaic company ever

**OUR FACTORY**

Our state-of-the-art facilities located in Ávila (Spain), alongside our processes, have received the ISO 9001 and ISO 14001 certifications, attesting to our Quality and Environmental Management Systems in place. From PECVD to lamination, our vertically-integrated production lines are fully operative with a production capacity of over 2,000,000 sq ft.

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