

# PHOTOVOLTAIC SKYLIGHT

The Skylight system ensure an optimized PV electrical generation adding multifunctional passive bioclimatic properties of thermal inner comfort since most of the UV and infrared radiation from the sun will be harvested by the silicon-based material (solar filter effect).

Moreover, the air chamber of the insulating glass guarantees best thermal performance in terms of U and g values.

In other words, the skylight provides a multifunctional solution where not only energy is being generated in-situ, but also natural illumination is being provided implementing solar control by filtering effect, **avoiding infrared and UV irradiation to the interior** (enhancing thermal comfort and avoiding interior aging).

a photovoltaic  
**skylight**  
provides...

<b>ENERGY GENERATION</b>			<b>UV &amp; IR FILTER</b>
<b>THERMAL &amp; ACOUSTIC INSULATION</b>			<b>INNOVATIVE DESIGN</b>
<b>NATURAL ILLUMINATION</b>			<b>REDUCE CO<sub>2</sub> EMISSIONS</b>



reduce the  
**carbon footprint**  
of your buildings...

nominated  
**PVskylights**  
Onyx Solar awards



2011's Sustainable Energy Europe Awards Competition selected and awarded Onyx Solar's photovoltaic skylight installed on the Market of San Anton (Madrid), which avoids the emissions of 5 tons of CO<sub>2</sub> a year, making Onyx become an European Commission's official Partner.

*"Light is necessary so that matter  
can manifest itself and be visible"*

*'Le Corbusier'*

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