

PHOTOVOLTAIC SKYLIGHT RENOVATION

Onyx Solar's project for Malaga's Port Authority capitalizes on the city's high solar irradiance, a significant advantage given the region's abundant sunshine.

The installation of **crystalline silicon photovoltaic glass** in the Photovoltaic Skylight effectively harnesses this solar energy. The PV glass's dual functionality of **generating solar energy and allowing natural light to pass through is especially beneficial in Malaga's sunny climate.**

This skylight enhances the natural lighting within the building, thereby reducing the reliance on artificial lighting during daylight hours. The disposition of the solar cells was custom-made to achieve **the best balance between energy generation, visible light transmittance and solar heat gain coefficient.**

Onyx Solar provided **nine different types of glass for this project**, including shaped triangular units, demonstrating our capability to adapt our PV technology to any architectural design.



TECHNICAL DATA

Nominal Power (Wp/m ²)	123 Wp/m ²
Visible Light Transmittance (VLT)	39%
Solar Factor (g-value)	50%
U value (W/m ² K)	N/A
U value (Btu/h ft ² °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



MALAGA'S PORT AUTHORITY
MALAGA, SPAIN
SKYLIGHT
CRYSTALLINE SILICON TECHNOLOGY

"The installation of the photovoltaic skylight allows us to **generate 19% of the energy needed by the building.**"

Project Manager - Malaga Port's Authority