

PHOTOVOLTAIC FAÇADE NEW CONSTRUCTION

This municipal building, located in Cyprus, enjoys Onyx Solar photovoltaic glass panels integrated into the **façade**. They offer multiple benefits including free, clean energy generation and thermal insulation to increase the functionality and sustainability of the building.

The **thermal insulation** advantages, help to regulate the internal temperature of the municipal building. This is especially advantageous in Cyprus, where the climate is characterized by hot summers. The glass panes act as a barrier, minimizing heat transfer and thus reducing the need for excessive air conditioning.

The energy-generating glasses installed in this building **generate enough power to feed 9.000 light points** every day and prevent the emission of more than 300 tons of CO₂ into the atmosphere.



TECHNICAL DATA

Nominal Power (Wp/m ²)	40 Wp/m ²
Visible Light Transmittance (VLT)	10%
Solar Factor (g-value)	11%
U value (W/m ² K)	2.70
U value (Btu/h ft ² °F)	0,48
Light Reflection (external)	8%



TECHNICAL DATA SHEET



MUNICIPALITY BUILDING

KYRENIA, CYPRUS

FAÇADE

AMORPHOUS SILICON TECHNOLOGY



J+A Philippou
architects - engineers