PHOTOVOLTAIC FAÇADE

NEW CONSTRUCTION

Malta experiences abundant sunlight throughout the year due to its Mediterranean climate. The high solar exposure makes photovoltaic technology particularly effective, allowing the PV glass to harness and convert sunlight into energy consistently.

This PV curtain wall is made up of low-e amorphous silicon photovoltaic glass modules with medium transparency, allowing **natural light while harnessing the sun's energy to contribute to the building's sustainable energy needs.**

Onyx solar PV glass can be perfectly integrated into the building, since it looks like normal glass, but produces energy. This building has fully customized the PV glass with regards to size and shape as the desire of the customer.

In this case, the glass also includes a **12 mm air chamber to provide thermal insulation to the building**. This feature is crucial in Malta, where hot summers and cooler winters may necessitate the use of heating or air conditioning systems.

TECHNICAL DATA

Nominal Power (Wp/m²)	39 Wp/m²
Visible Light Transmittance (VLT)	16%
Solar Factor (g-value)	32%
U value (W/m²K)	2.70
U value (Btu/h ft² °F)	0,48
Light Reflection (external)	8%

TECHNICAL DATA SHEET

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