

PHOTOVOLTAIC SKYLIGHT RENOVATION

The Valletta Design Cluster within a historic XVII-century abattoir with the installation of Onyx Solar's **crystalline silicon photovoltaic glass** being particularly beneficial.

Given Malta's warm climate, the **12 mm air chamber and the low iron tempered glass frit in each glass** unit play a vital role in enhancing the building's thermal and acoustic insulation. This not only improves the comfort for visitors but also contributes to energy efficiency by reducing the need for artificial cooling.

The peak power of **126 Wp per glass** unit also indicates that the skylight is not just a passive element but actively contributes to the building's energy needs, aligning with the sustainable development goals of a **UNESCO World Heritage site**.



TECHNICAL DATA

Nominal Power (Wp/m ²)	126 Wp/m ²
Visible Light Transmittance (VLT)	34%
Solar Factor (g-value)	38%
U value (W/m ² K)	2.70
U value (Btu/h ft ² °F)	0,45
Light Reflection (external)	8%



TECHNICAL DATA SHEET



VALLETTA DESIGN CLUSTER

MALTA

SKYLIGHT

CRYSTALLINE SILICON TECHNOLOGY



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