

## PHOTOVOLTAIC SKYLIGHT

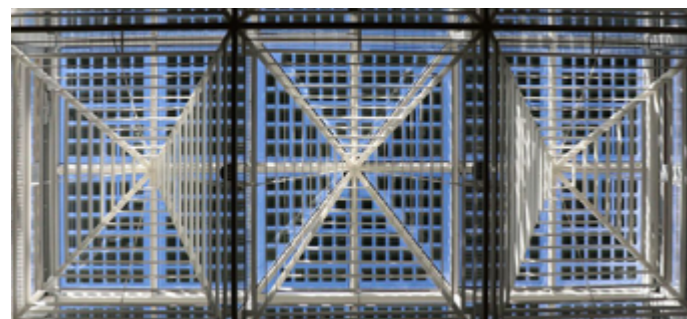
### RENOVATION

This photovoltaic installation in Jaen involved **replacing the conventional glass** in the main building's atrium with photovoltaic glass. This historic **City Hall, constructed in the 19th Century**, holds significant cultural importance in Jaen, and the renovation project aimed to preserve its original architecture.

Onyx Solar was responsible for fabricating **rectangular and triangular** photovoltaic glass units using crystalline silicon solar cells, each tailored to fit the existing frame.

The PV glass setup included an air spacer with a low-e coating and strategically placed clear areas to optimize natural daylight within the atrium. This sustainable upgrade not only enhances energy production but also respects the historical significance and architectural integrity of the City Hall in Linares.

Moreover, the installation's Visible Light Transmittance (VLT) and solar heat gain coefficient (g-value) **are excellently suited** for **Jaen's warm climate**, ensuring a comfortable indoor environment while maximizing energy efficiency.



### TECHNICAL DATA

Nominal Power (Wp/m <sup>2</sup> )	69 Wp/m <sup>2</sup>
Visible Light Transmittance (VLT)	60%
Solar Factor (g-value)	55%
U value (W/m <sup>2</sup> K)	1.60
U value (Btu/h ft <sup>2</sup> °F)	0,28
Light Reflection (external)	8%



TECHNICAL DATA SHEET



**LINARES CITY HALL**  
JAEN, SPAIN

**SKYLIGHT**

CRYSTALLINE SILICON TECHNOLOGY

  
AYUNTAMIENTO  
de LINARES