# PHOTOVOLTAIC FAÇADE

## NEW CONSTRUCTION

The façade of the building is made up of a substructure that contains photovoltaic laminated safety glass panels which create a **lattice that generates more than 110 kWp** of energy production. This **energy production represents 20% of all the energy needed** by the building, making it an example of energy efficiency.

Furthermore, thanks to its design, the structure was optimized to create an **optimal balance between the entry of natural light and shading**, which contributes to reducing energy consumption and increasing the comfort of the researchers who use the building.

The building enjoys high visibility on the university campus and had to convey an image of innovation and modernity, marking the technological character of the University of Jaén.

The glasses manufactured were totally **customized in terms os size and cell density following customer's requirements** to reach a peak power of 108 Wp per $m^2$.

### TECHNICAL DATA

| | |
|---|---|
| Nominal Power ($Wp/m^2$) | 108 $Wp/m^2$ |
| Visible Light Transmittance (VLT) | 46% |
| Solar Factor (g-value) | 50% |
| U value ($W/m^2K$) | N/A |
| U value ($Btu/h\ ft^2\ °F$) | N/A |
| Light Reflection (external) | 8% |

TECHNICAL DATA SHEET

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# RESEARCH LABS D4

JAEN UNIVERSITY CAMPUS, SPAIN

FAÇADE

CRYSTALLINE SILICON TECHNOLOGY

MORE INFO IN VIDEO

"The design of this building responds to the University of Jaen's philosophy of pursuing energy sustainability. It generates 20% of the energy it consumes thanks to the installation of photovoltaic glass on the façade."

Juan Ortega - Rector of the University of Jaen.