

## PHOTOVOLTAIC SKYLIGHT RENOVATION

Onyx Solar significantly contributed to the **historic refurbishment of the emblematic Santa Clara's lighthouse** in San Sebastian, Spain. The installation of amorphous silicon PV glass for the new skylight marked a milestone groundbreaking integration of **photovoltaic technology into historical buildings**.

To enhance safety, an **anti-slip treatment** was applied to the exterior surfaces, enabling ease of access. These insulating PV glass units were designed with a **16 mm air spacer** to achieve the U-value required by the design team.

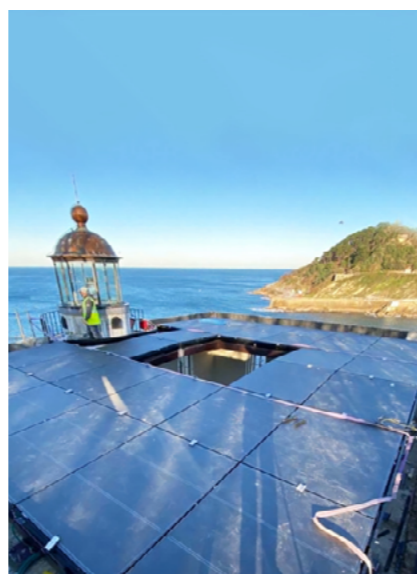
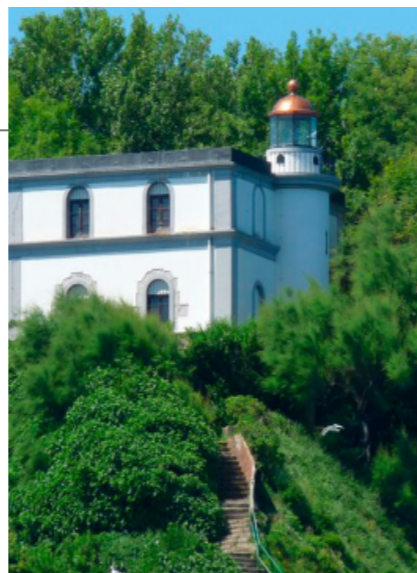
This lighthouse, that **was constructed in 1864** and it was recently **refurbished** to host a unique bronze sculpture of **Cristina Iglesias** aims to be transformed into a captivating tourism attraction.

### TECHNICAL DATA

|                                    |                      |
|------------------------------------|----------------------|
| Nominal Power (Wp/m <sup>2</sup> ) | 40 Wp/m <sup>2</sup> |
| Visible Light Transmittance (VLT)  | 10%                  |
| Solar Factor (g-value)             | 14%                  |
| U value (W/m <sup>2</sup> K)       | 2.70                 |
| U value (Btu/h ft <sup>2</sup> °F) | 0,48                 |
| Light Reflection (external)        | 8%                   |



TECHNICAL DATA SHEET



**ST. CLARA LIGHTHOUSE**  
SAN SEBASTIAN, SPAIN

SKYLIGHT

AMORPHOUS SILICON TECHNOLOGY



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