

PHOTOVOLTAIC FAÇADE

NEW CONSTRUCTION

The Dubai Frame is an impressive architectural wonder, standing 150 meters tall and 105 meters wide in Zabeel Park, Dubai. With over 2 million visitors enjoying its breathtaking views of the city's architectural gems, it quickly became a notable attraction after its completion in 2015.

Onyx Solar played a pivotal role in this project by integrating 1,200 square meters (12,916 square feet) of amorphous silicon PV glass into the building's façade. Approximately 2,500 PV glass panels were used. These panels, with a **yellow/gold finish and a 20% see-through degree**, constitute a 38 kWp DC system. This system significantly offsets the building's energy demand by harnessing clean, free solar energy.

This PV glass not only showcases design **flexibility by offering customizable color** options but also aligns with the original architectural vision. Beyond energy generation, its properties include filtering UV and IR radiation, enhancing thermal comfort within the building.



TECHNICAL DATA

Nominal Power (Wp/m ²)	34 Wp/m ²
Visible Light Transmittance (VLT)	16%
Solar Factor (g-value)	12%
U value (W/m ² K)	N/A
U value (Btu/h ft ² °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



DUBAI FRAME

DUBAI, UNITED ARAB EMIRATES

FAÇADE

AMORPHOUS SILICON TECHNOLOGY



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