

# PHOTOVOLTAIC BRISE SOLEIL

## NEW CONSTRUCTION

The Dubai Energy and Water Authority R&D Laboratories in Dubai installed a **1.000 m<sup>2</sup> double skin of semi-transparent colored photovoltaic glass** made in **different colors** that include green, yellow and orange to produce energy on-site and insulate efficiently the building filtering the harmful radiation.

The installation of brise soleil, or sun-shading devices, is **particularly crucial** in places with **hot and arid climate like Dubai**. These innovative features enhance the building's energy efficiency while also ensuring a **comfortable indoor** environment for its visitors effectively addressing the challenging local weather conditions.

The installation of this brise soleil was a key factor to achieve LEED Platinum certification. The center focus its work in four main areas: solar power, smart grid integration, energy efficiency and water.



### TECHNICAL DATA

Nominal Power (Wp/m <sup>2</sup> )	28 Wp/m <sup>2</sup>
Visible Light Transmittance (VLT)	26%
Solar Factor (g-value)	37%
U value (W/m <sup>2</sup> K)	N/A
U value (Btu/h ft <sup>2</sup> °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



# DEWA R&D LAB

DUBAI, UNITED ARAB EMIRATES

BRISE SOLEIL - FINS

AMORPHOUS SILICON TECHNOLOGY



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