
Solar curtain wall design for Abu Dhabi office building

How did Aedas Architects design Abu Dhabi's Al Bahar towers?

To address this, Aedas Architects designed a responsive facade for Abu Dhabi's Al Bahar Towers, drawing inspiration from the mashrabiya, a traditional Islamic lattice shading device. Completed in June 2012, the 145-meter towers feature a Mashrabiya-inspired shading system, developed by Aedas' computational design team.

Are vacuum integrated photovoltaic curtain walls performance-driven?

The vacuum integrated photovoltaic (VPV) curtain wall has garnered widespread attention from scholars owing to its remarkable thermal insulation performance and power generation ability. However, there is a lack of in-depth, performance-driven optimal design that considers the mutually constraining functions of the VPV curtain wall.

What is Al Bahar towers?

Al Bahar Towers, designed by Aedas in Abu Dhabi, features a responsive facade inspired by the traditional Islamic mashrabiya to reduce solar gain and glare in the region's extreme climate.

Do VPV curtain walls save energy?

According to the literature review, VPV curtain walls exhibit significant potential for energy savings owing to their excellent thermal insulation performance. Furthermore, the shading effect of PV cells can alleviate discomfort glare and enhance occupants' visual comfort.

Preparation of shop drawings, structural calculations and fabrication drawings for Tower 4.
Curtain wall system design for Tower 7.

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The shading system, which looks like a curtain wall, is positioned on an independent frame, two meters away from the building's exterior on a separate frame. Each triangle in the system is coated with ...

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