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Aug 12, 2022 · In super high-rise curtain wall buildings, the energy consumption of air conditioning and lighting accounts for 60%-80% of the total energy consumption. Under the hot and humid ...

Jul 1, 2022 · A new type of glass curtain wall system based on transmission solar concentrator is proposed. The device effectively improves the incidence of solar r...

Jan 17, 2024 · This study delves into the influences of the glazing solar heat gain coefficient (SHGC), the glazing heat transfer coefficient (U-value), and PCM thickness on the energy ...

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May 27, 2025 · Traditional glass curtain wall construction cannot meet the requirements of building energy-saving management, which is specifically manifested in high heat conduction ...

Oct 1, 2025 · A multi-dimensional evaluation of the semi-transparent photovoltaic glass curtain wall and the LOW-E glass curtain wall is conducted. The study analyzes the advantages of ...

Jul 10, 2025 · In this context, transparent building envelopes, such as Glass Curtain Wall (GCW), have become prominent features in large public buildings [4, 5, 6]. While glass curtain walls ...

Aug 25, 2024 · The results indicate a positive correlation between the surface temperature of photovoltaic glass and both ground temperature and solar ...

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