

Title: Solar curtain wall temperature

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Transparent photovoltaic curtain walls provided dual functionality by generating energy while regulating indoor optical and thermal conditions, representing a promising solution for ...

The 3D model is established by SolidWorks software, and the thermal characteristics of the new glass curtain wall system are simulated through computational fluid dynamics (CFD) ...

In cold weather, the system aims to maximise renewable solar gains in order to (partially or fully) cover the heating demand of the building. The highest energy potential would be achieved by a south ...

Undesirable solar gain is highest in the summer, due to the high solar angle. In the winter, the solar gain is actually desirable to offset heating loads. The ideal solar glazing will be selected based on several ...

This study investigates the impact of solar heat gain on optimizing air conditioning temperature settings in glass curtain wall buildings, focusing on ensuring thermal comfort, while ...

This paper focuses on a similar issue, but with curtainwall systems, by simulating typical shadow-box spandrels and obtaining each case's frame and glass temperatures.

Practical strategies to specify an energy efficient aluminum curtain wall--optimizing thermal performance, solar control, and lifecycle costs in hot climates.

Onyx Solar's photovoltaic solutions for curtain walls and spandrels combine energy generation with sleek architectural design. These systems transform traditionally ...

In this paper, the distribution of solar radiation in the room throughout the year is analysed to clarify the depth of solar radiation in the room and the influence range on the indoor radiant thermal environment.

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