

## A-Core Container

# Solar curtain wall design for office buildings



## Overview

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Are solar innovations ® curtain wall frames custom built?

All Solar Innovations ® curtain wall frames are custom built to meet the exact dimensions of your opening. Solar Innovations ® offers eight standard frame finish colors and unfinished aluminum; custom finish options are available at an additional cost.

What is a solar curtain wall?

Commercial applications are most often designed, engineered, and installed by Solar as storefronts. The curtain wall can be utilized on virtually any type of business. A system can be added to the exterior of your building or utilized for interior divisions between departments or as office walls.

Do curtain walls reduce energy consumption?

Despite recent efforts on heat loss mitigation (relying on additional glass panes, coatings or thermal breaks to framing elements) curtain walls remain a significant contributor to the energy consumption of such buildings.

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 .

What is a curtain wall?

The architectural solution chosen for the curtain wall is based on a modular concept, achieving both aesthetic and functional integration with the main ventilation system of the building. The interstitial air cavity of a double-skin glazed façade is used for harvesting heat from solar energy and recovering transmission losses from the indoor space.

What are solar curtain walls made out of?

All curtain walls manufactured by Solar are constructed out of durable aluminum. The benefit of an aluminum curtain wall is the reduction in required maintenance. Aluminum curtain walls will not rot, rust, warp, expand with heat, or require constant finishing.

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### Contact Us

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