

## SolarTech Power Solutions

# Zambia low-carbon solar curtain wall customization



## Overview

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What is a curtain wall?

Curtain walling refers to a non-structural cladding system made from fabricated aluminum, commonly used on the outer walls of tall multi-storey buildings. This lightweight material offers ease of installation and can be customized to be glazed, opaque, or equipped with infill panels.

What are aluminum curtain walls?

The aluminum systems are not only easy to transport but also straightforward to manufacture. Curtain walls —also known as glass façades and exterior glazing systems —convert previously unused spaces into energy assets, enhancing both aesthetics and functionality.

Does a curtain wall provide enough daylight?

The sufficient daylight provided by the external curtain wall has been shown to enhance the physiological and psychological well-being of occupants [2, 3], and increase their satisfaction and productivity [4, 5].

Does partitioned VPV curtain wall reduce glare?

As for glare protection, the partitioned VPV curtain wall with 50%, 0%, and 80% coverages of daylight, view, and spandrel sections can reduce glare by 17.9%, compared to the baseline case, as shown in Fig. 17 (c).

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### Contact Us

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