

# Office building solar curtain wall design





## Overview

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Providing daylighting and glare control in office buildings has always been one of the challenges for designers. This research investigates patterns for designing façades with optimal performance to provide daylight.

What are curtain walling systems?

Curtain walling systems are significant in modern architecture, providing structural strength, energy efficiency, and aesthetic flexibility. These include commercial building aluminum curtain walls, glass curtain walls for the highest-rise office towers, and many others that enhance both form and function.

What is a plastic curtain wall system?

Plastic Curtain Wall Systems – Used for temporary structures and industrial applications. Curtain walling systems are widely used in commercial curtain wall projects such as corporate office buildings, shopping malls, and airports, where a combination of design flexibility and energy efficiency are necessary.

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Who uses curtain walls?

Office buildings constitute the predominant customer segment for curtain walls, accounting for over 55% of their European market share . Curtain wall technology is also being increasingly adopted in many public buildings, and even for high-end residential projects.

How to design a curtain wall façade in a large open-plan office building?

Generally, for designing curtain wall façades in large open-plan office buildings, the best performance is for the combined façade with the following features: The upper panels with a 50–60 % concentration allow enough daylight to pass through.



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### Office building solar curtain wall project

Both curtain walls and spandrels from Onyx Solar elevate your building's sustainability and aesthetic appeal, providing customizable options and cutting-edge design.

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### 10 Curtain Wall Architecture Project Inspirations , Stekar

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