عنوان مقاله:
Opportunities and challenges of facade architecture using green elements


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خلاصه مقاله:
As the demand for sustainable and environmentally con scious building s grows, integrating living walls, green roofs, and vertical gardens into facades presents exciting prospects. This review article explores the opportunities and challenges associated with incorporating green elements into facade architectur e. The opportun ities offered by facade archi tecture with green elements include enhanced energy efficiency, improved air quality, aesthetically pleasing designs, and the promotion of biodiversity and urban habitats. However, several challenges must be cons idered, includi ng structural considerations, maintenance and upkeep requirements, and cost implications This article examines these opportunities and challenges in detail, drawing on case studies to showcase successful implementations. T his review highlights the potential for creating sustainable a nd visually appealing structures that benefit both occupants and the environment. The findings of this review article show es integrati on of exter nal green elements into facade architecture offers significant environmental advantages Building upon the find ings of recent research studies, architect s and designers can leverage these elements to create sustainable and visually appealing buildings. However, careful planning, implementation, and ongoing maintenance are crucial for realizi ng the full .potential of external green elements in facades

A ir quality improvement, energy efficiency, environmental function, e xternal green walls, living walls, sustainable building practices
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