

High-efficiency folding container for urban lighting





Overview

Can shipping containers be used sustainably for residential construction?

However, the challenge lies in determining how to utilize these containers sustainably for residential construction . Inter-modal Steel Building Units (ISBU), commonly known as shipping container houses, offer a promising solution by reducing embodied energy and emissions .

What is the U-value for a 20-foot container house?

In the present work, the U-value for external walls and roof is set at $0.10 \text{ W/m}^2 \text{ K}$, while for the floor, it is $0.13 \text{ W/m}^2 \text{ K}$. These values are consistent with those used for the 20-foot container house in previous studies .

Do fixed shading devices reduce energy consumption for container buildings?

Fixed shading devices can efficiently reduce solar gains for buildings in warm climate zones to address temperature swings, overheating, and visual comfort. In this regard, the current study examined various ASHRAE climate zones and installed fixed shadings to reduce annual energy consumption for container buildings significantly.

Are upcycled intermodal containers better for the environment?

Upcycled intermodal containers were found to have the lowest environmental impact compared to wooden and reinforced concrete constructions. The study employed EnergyPlus 8.4 to calculate annual energy consumption. In their research, the improved container (IC) case incorporated a 10% total facade glazing.



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