

Solar Indoor Container Cycle





Overview

How is a container building insulated?

The container walls are insulated with foam insulation on the inside, while OBS sheathing covered with a hard plank siding are added on the outside. The building façade also has an air barrier to ensure an airtightness of 0.6 ACH50, which means 0.6 air changes at 50 Pa pressure difference.

Can a residential container home be off-grid?

Off-grid simulations of residential container homes are lacking in the literature. The module reduces construction waste and CO₂-emissions and educates for degrowth. Ventilation and heating are controlled based on ambient temperature, SoC, and time. Better energy efficiency, thermal comfort, and less dumped energy are achieved.

Should a container be insulated?

Thereby is as the containers would have more adjacent surfaces and less external surfaces. External insulation of the containers could also be considered, as long as it would still be practical to transport the modules. To reduce the heat loss to the ground, the foundation could also be insulated.

How can containers reduce construction waste?

Because containers already have an infrastructure for transportation, it becomes easier to transport the building back to the factory at the end-of-life for deconstruction and recycling of the structural steel. This can help to reduce construction waste, which, thus far, has often been overlooked in China (Chi et al., 2020).



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