

Title: Long-life folding container for field research

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What are the benefits of a foldable container?

Using the newly developed foldable container can not only significantly reduce logistics costs, but also bring positive environmental impacts such as reducing greenhouse gas that may have arisen from transporting bulky empty containers. Also the foldable container influences social aspects such as noise pollution, local development and employment.

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

How can a foldable container reduce the cost of storage?

The satisfaction of such conditions and the eventual adoption of the foldable container by the market would reduce the operation costs by 50% to 60%, the storage space in yard and depot by 80% and CO 2 emissions by 20% [8,12].

How long does it take to fold a container?

This simple operating method makes it possible to complete the folding process within 10 min only with two persons and two forklifts. To check whether the developed container meets the requirement specified in ISO 1496-1 and CSC to obtain official certification, structural analysis was performed at the design stage.

They transformed a 40-foot shipping container into an operational field laboratory for environmental studies. This portable lab allowed researchers to study ecosystems in remote ...

Container-based laboratories are modular, portable research environments built within shipping containers or similar structures. These labs are designed to be self-sufficient, ...

Our foldable boxes are designed for long-term use, providing a cost-effective, sustainable packaging solution. These boxes are easy to fold when not in use, saving valuable space ...

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio ...

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