

Ultra-high efficiency folding containers for bridges





Overview

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.

Are foldable containers economically viable?

In order to examine the economic viability of the developed foldable container as compared to a standard 40-ft high-cube container, cost analysis is performed for an example route, i.e., the Busan-Vostochny-Moscow route (Fig. 10), which involves both inland and maritime transportation.

Can a 5-tier stacking foldable container be economically produced?

This paper presents the design of a new 5-tier stacking foldable container with convenient folding and unfolding process and that can be produced economically compared to previous products. The selected size of the container is the standard 40-ft high cube because it represents about 70% of the maritime container fleet transiting Korean ports.

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.



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