

DC Protocol for Folding Containers for Bridges





Overview

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

Can a 4fold design be applied to a 20ft container?

A critical design problem for applying the 4fold design to the 20ft container is the folded container height. The new 20ft design needs to meet a five to one bundle size, meaning that the folded container needs to be one fifth the height of a normal container.

What are the design concepts for floating bridges?

Moan et al. [6] proposed three design concepts for floating bridges, including curved, end-anchored floating bridges; straight, side-anchored floating bridges with mooring systems; and floating suspension bridges with pylons supported by TLP or spar floating bodies.

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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[Figure 1: Dornier Foldable Bridge](#)

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