



THE 4BENEFITS OF THE 4FOLD CONTAINER

 **Holland Container Innovations**



1 4FOLD 25% SAVINGS ON OPERATIONAL COSTS

Currently 20% of the containers transported by sea and 40% transported by land are empty. The 4FOLD foldable container greatly reduces costs associated with empty containers by allowing four containers to be transported in the space of one. 4FOLD will result in lower transport costs and less time needed for repositioning, storage and ship handling. These benefits greatly outweigh the higher purchase price, maintenance costs and folding and unfolding costs.

Triple the profit margin of a standard container

Calculations show that 4FOLD can save 25% of operational costs. Since the revenue of a standard and a 4FOLD foldable container are equal, the profit margin of 4FOLD can be three times as high.

2 4FOLD FULLY ISO CERTIFIED

4FOLD is the first 40ft HC foldable container in the world to pass all tests in the ISO certification process under supervision of classification societies Korean Register (KR), American Bureau of Shipping (ABS) and DEKRA.

ISO, CSC and UIC certified

This ISO certification guarantees that the 4FOLD foldable container meets all industry requirements and can be used in the existing logistics system. All parts stay connected so no parts of the container go missing. The container can be repaired using standard parts that are available around the world at low costs.

Same size as a standard container

One bundle of four folded containers has the same dimensions as a standard container and can be handled in the same manner as a standard container.



3 4FOLD SAFE & SIMPLE TO OPERATE

Multiple trials with shipping lines have been concluded successfully or are still running. 4FOLD has been used in ports in Asia, USA and Europe carrying different types of goods, such as heavy fertilizer and cartons containing tea bags. 4FOLD is weather tight and suitable to transport delicate dry cargo.

(Un)folded within four minutes by two men

The 4FOLD is quickly and easily reduced or erected by a two-person team on the ground with standard existing equipment in less than four minutes.



The main economic benefits

- Reduction of empty transport movements
- Reduction of storage space needed for empties in yard/depot by up to 75%
- Faster handling of empties
- Reduces time in port loading empties (increases on-time performance and loading time is reduced by 75% for empty containers)
- Increases flexibility in loading and unloading ships
- Ability to lift four units at once with one crane (in case of twinlift, eight units)
- Less port congestion
- Creates three revenue-generating slots
- Fewer stranded/idle containers

4 4FOLD ENVIRONMENTAL SAVINGS

Transport with a 40ft container causes on average an emission of 600 tons CO₂ per year. The average emission reduction with 4FOLD is an estimated 28 tons of CO₂ per year, representing a saving of 5%. With 4FOLD there is a high probability that shipping lines will be able to monetize their CO₂ reductions. At sea, 4FOLD can create a reduction of 27% on total CO₂ emissions.

More efficient land use in ports

Storage space becomes more and more critical and has a large influence on the surroundings and the environment. 4FOLD is the solution. The foldable container also influences social aspects like noise pollution, esthetics, (city) development and employment.

The main environmental benefits

- Reduction in emissions (CO₂, NO_x and PM₁₀)
- Less fuel use
- Reduction of traffic jams
- Free up space around ports by reduction of storage space needed for empties close to inhabited areas





For more information about 4FOLD foldable containers

Holland Container Innovations

Simon Bosschieter

Managing Director

T: +31 (0)152682622

M: +31 (0)615308239

s.bosschieter@hcinnovations.nl



Co-funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 711257

www.4FOLDcontainers.com

4FOLD
Foldable Containers