Currently, organic waste is hardly separated in high-rise areas in the Netherlands. Flat inhabitants experience annoyance when seperating organic waste due to the odour that comes from preserving organic waste for multiple days. However, emptying small bits of organic waste on a daily basis in a public container is often precieved as too much effort. So, how could flat inhabitants seperate organic waste in a convenient way?

With the Frisbox, flat inhabitants can store organic kitchen waste for multiple days without experiencing odour annoyance. This is achieved by placing the Frisbox in the fridge, which slows the degradation process of organic waste down, resulting in no annoyance of odour.

The Friszak

10% of separate collected organic waste is polluted with other waste fractions. One of the main polluters is regular plastic bags in which organic waste is collected. The Friszak is a concept for a a non-leaking biodegradable bag for the Frisbox. The bag has a perfect fit in the Frisbox and a cord to close off the bag and transport the bag to a public container.

Why focus on organic waste in high-rise areas?

35% of all domestic waste in the Netherlands is organic waste. This thereby forms the largest part of all domestic waste. By 2023, all organic waste must be recycled or separately collected at its source, according EU law. The Dutch government has set the separation target at 75% by 2020.

The Hague is used as a case study for the Frisbox

60% of the Hague's inhabitants live in high-rise buildings and currently only **37%** of all domestic waste was separately collected at the source, which is below the Dutch average of **56%** (2017). This makes the Hague an interesting case study with high potential.

The amount of separetely collected waste at the source could increase with **10%** with the Frisbox. The condition for this is that all flat inhabitants in the Hague will separately collect their organic waste at the source with a Frisbox and dispose of the Friszak in a public containers.



''in the koelkast,
GFT dat moet cool gast''







Bart Krijgsman

The design of a sustainable, hygienic and low-effort bin to collect and store organic waste in high-rise buildings
06-07-18 IPD

Committee

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