



PRODUCT INFORMATION PACK



The CarbonCycle Compost Box is a system, designed to allow the user complete freedom, scalability, and ease of use when it comes to making compost.

The innovation which opens the door to this functionality lies in the design of the extruded aluminium frame.

It consists of four columns bolted at their base to four rails.



This creates a rigid frame which is freestanding. It does not rely on the ground for structural support, and can be moved anywhere at any time.

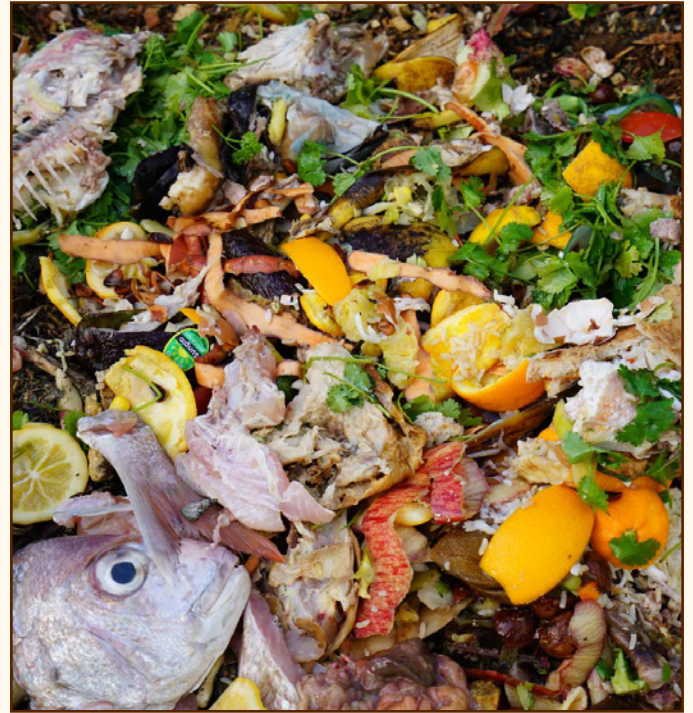
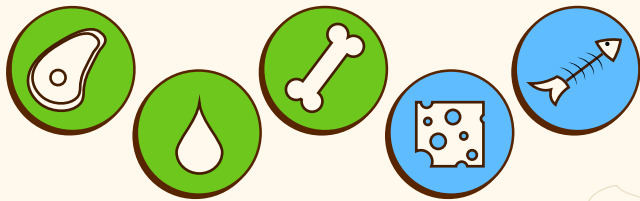
These columns and rails are the only elements of the box which are fixed to each other.

Everything else sits within that frame, and can be removed without affecting the structure.

The only compost box in the world with this design

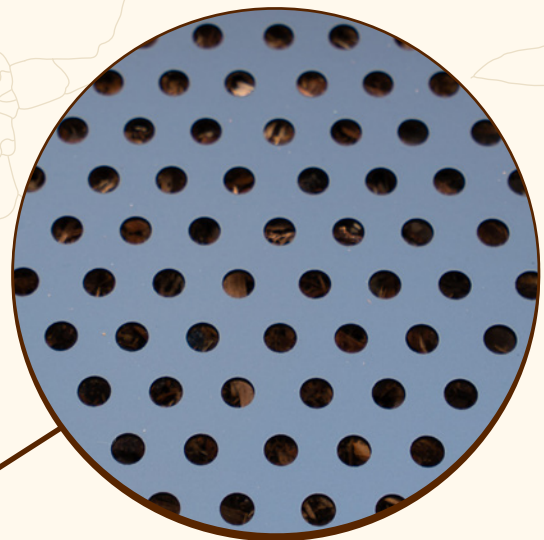
The CarbonCycle system is pest proof. It is safe to put any kind of food waste inside, including meat, oils, bones, dairy, and fish.

Our system supports hot composting by design, providing the necessary power to break down complex proteins, viruses and fats quickly.



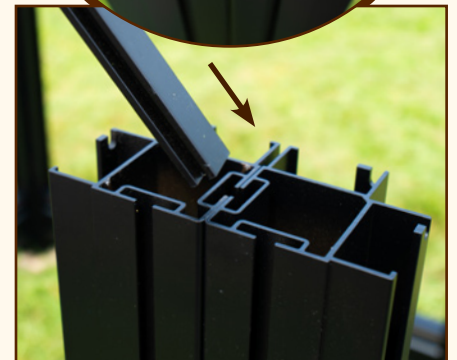
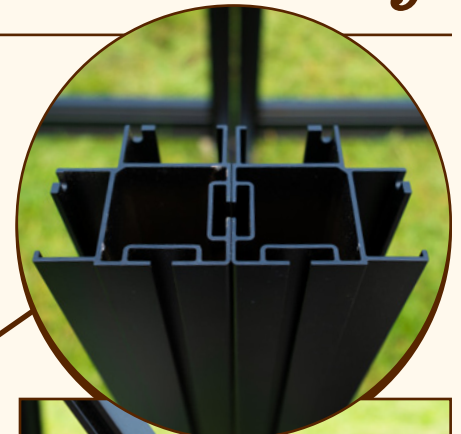
The boxes feature a perforated aluminium pest proof sheet which sits at the base.

This allows air and biology to enter the compost from below, and allows excess moisture to drain, while keeping vermin out.



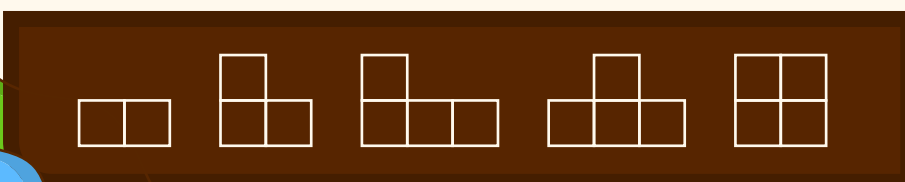
This is a key feature of the box, as having adequate air flow and drainage capacity is an important part of maintaining optimal composting conditions.

CarbonCycle boxes can be connected to one another from any side using our 'H-Shaped Joiner Bar' as illustrated below.



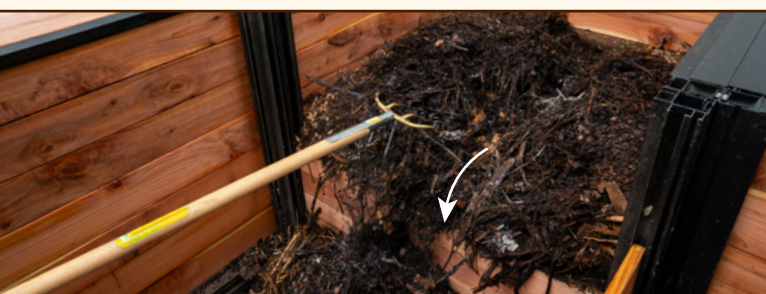
This modular system makes the boxes completely adaptable to the space you have available, as they can be arranged in any shape that fits your needs.

The waste processing capacity of your system can be scaled up as needed. All you need to do is add more boxes to your chain, the only limit is your available space. Below are some combinations.





Connecting multiple boxes together is where the real magic of the CarbonCycle system lies.

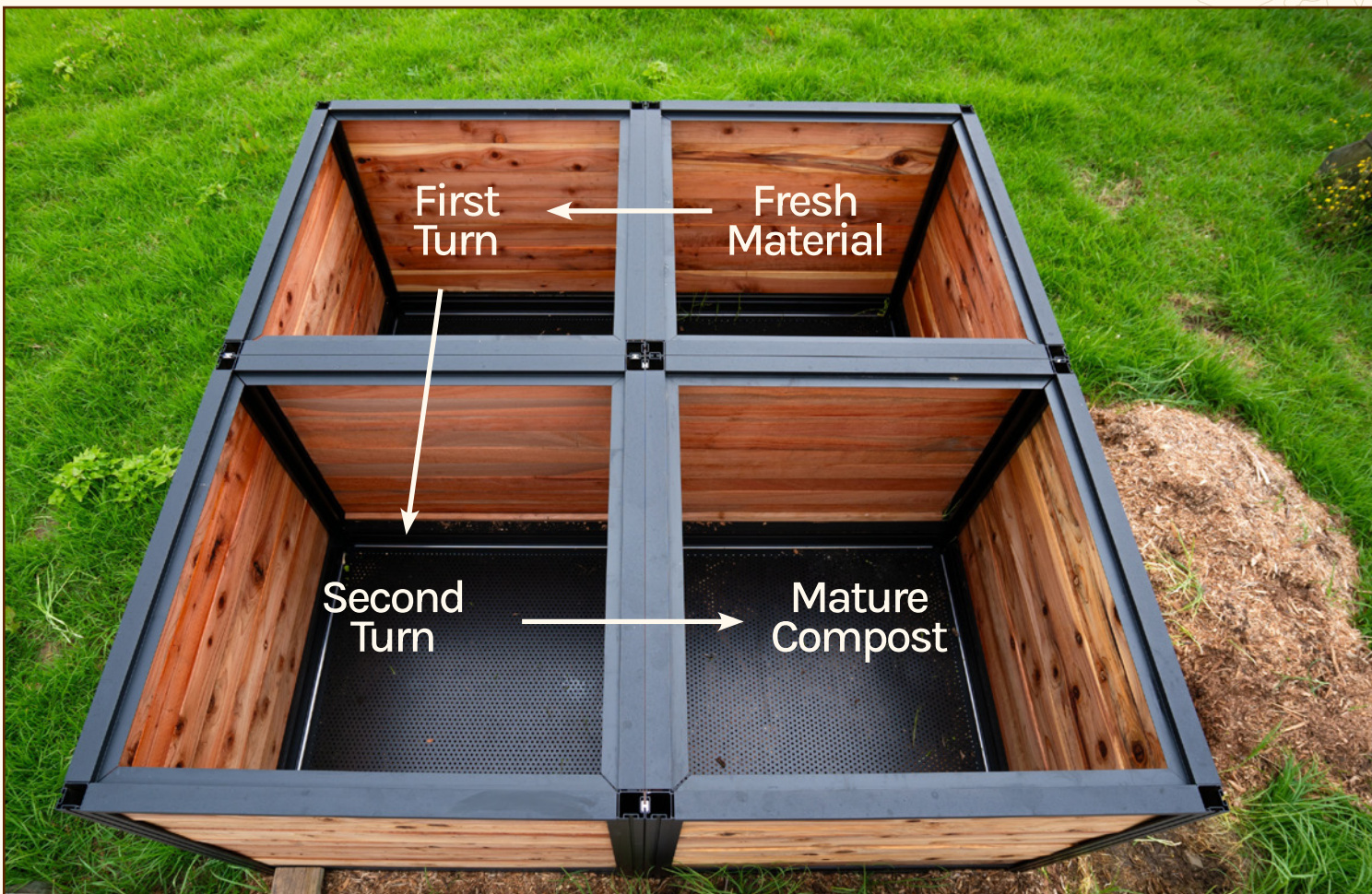


When one box is full or needs to be turned, you simply remove the inner wall slats, and use a drag fork to pull the compost from the full box, into the empty one.

This design leverages gravity to make turning the compost much easier.

It is efficient, and ensures no spillage of material during the process.

The idea is that CarbonCycle boxes work as a system of interconnected parts, supporting a constant flow of organic material at various stages of composting.





The frames, top plates, joiner bar and hangers are made from aluminium, extruded in New Plymouth.

The pest proof sheet is made from aluminium manufactured in Auckland.

Aluminium is lightweight and rigid, which enables the frame to have all of its structure at the bottom, while maintaining the geometry of the columns at the top, without significant deflection.

This allows for everything else to be removable, and gives the boxes their high functionality and portability.

The wooden slats comprising the walls, lids, and rat jam are a combination of Japanese cedar, redwood, and saligna, grown and milled in Northland.

Cedar and Redwood are rot resistant and stable, meaning they prevent deformation (cupping or warping) in the presence of hot, moist compost.

Saligna is used for the internal walls where two or more boxes are joined together.

It is a hard and durable wood, which performs better in an environment where it has moisture on both sides.

Excluding the bolts, our product is
100% New Zealand made.

Small Box

965mm x 965mm x 1000mm
0.93m³ Volume

For smaller communities.

Able to process up to 1m³ of organic material per month.



A Two Box System installed at
Onewhero Primary School.

Just right to process their food waste, and get the students involved in composting.

Large Box

1240mm x 1240mm x 1240mm
1.90m³ Volume

Ideal for larger groups or commercial solutions.

Able to process up to 2m³ of organic material per month.



A Four Box System installed at
Manurewa Marae.

Perfect for processing their food waste from regular large events.



Small Box

- Width: 965 mm
- Depth: 965 mm
- Height: 1000 mm

Large Box

- Width: 1240 mm
- Depth: 1240 mm
- Height: 1240 mm