HND Year 2 Planter Project



HIND YEAT 2

By Patrick Bourne

Existing Products





6.0 Community

One of the main things that was put forward by Sallie at Horatio's Garden was that gardening has its most therapeutic value when people do it together. This design helps that by providing multiple spaces for people to sit at and enough room for all. The straight inside edges means that the user can get there wheelchair as close as possible to the bed and easily move in and out of position. It also has a slight taper downwards so that they can face front on to the bed a bit closer however this does not sacrifice room for the plants.





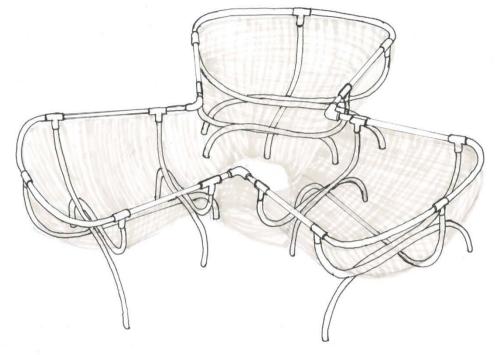




Can be used in whate ever position is the most contoposable.

Comunity 6.1 Development

This version of the community aims to bring down the solution to an affordable price. It's design is completely modular. The Steel frame is made from only 4 different parts the repeat all around the planter. This means that it can be a curvaceous shape without overly complex and expensive parts.



PP fabric

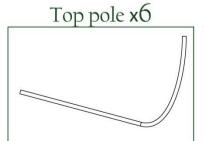
Researching online I found a fabric that was breathable and allowed the water to drain from the planter and gave the plants ventilation meaning that the roots would be air-pruned making them have stronger fibres and have better mineral absorption. After inquiring what this material was made of I heard from the manufacturer saying that it was "UV Stabilized geo-textile polypropylene fibre that is heat bonded on one side. It is BPA free and safe for organic gardening".

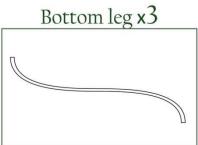


Galvanised Steel

For the poles I decided that galvanised steel would be suitable. It is commonly used to make trampoline frames and offers, durability, good weather resistance and is not overly heavy making it easily assembled.

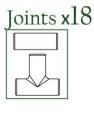












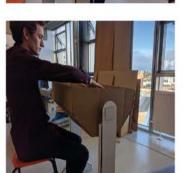








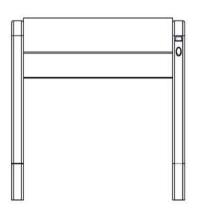
This vershion of tilting planter aims to bring in more features for both wheelchair user and fully able user. Now there is a compost bin on the sides and a locking mecanisum to reduce the amont of effort needed to tilt.

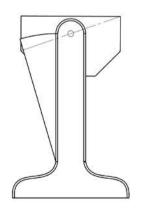


Leg level with planter



Compost bin on sides







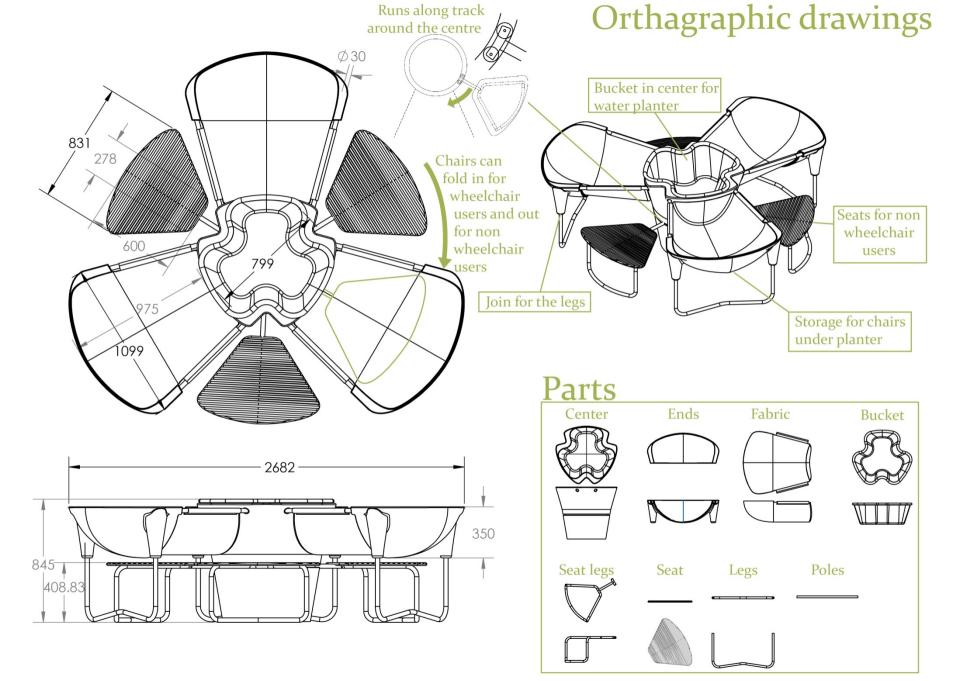


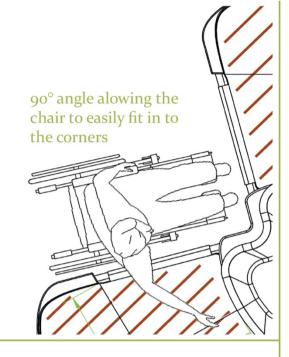


Ball Bearing lock
This would be a viable locking
mechanism as it can lock in 2
different positions. In this case the
upright position and the tilted
position.

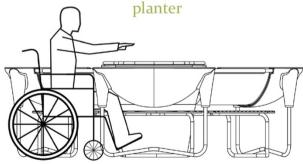
Clover

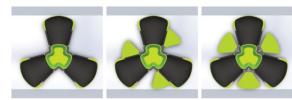






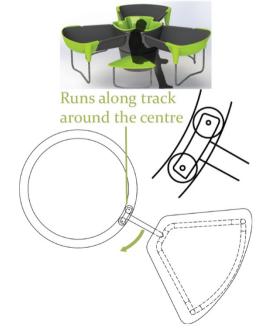






To help diversify the range of users it has 3 separate chairs that can be pulled out from below the planters in to a comfortable position. This opens the product up to non -wheechair users who either have trouble standing or would prefer to sit.

The height that they are at makes it easy for wheelchair users to reach it and pull it in or out. It also means that all users will be sitting at the same height giving a sense of ease and equality.



Final Features



One of the things that was very apparent from the community gardens was that they all loved variety. Often in a 1 square meter planter there would be 7 different plants. This cultivates that interest by including a water garden planter in the middle. It can be removed for cleaning and the plants that grow in the water need very little attention.







Manufacturing Process

