

## **Deliverable C - Design Criteria and Target Specifications**

**Team: C02**

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The client has asked for a new design for a growing wall. They have asked that it is to be small and portable while still producing the greatest yield for its size. They also asked for there to be changes to the reservoir so that it has a larger capacity with an easier method to clean and align the drip system. In addition, they asked for there to be place to share their story (advertising Parkdale Food Centre, Growing Futures, and other sponsors). Lastly they asked that the modularity, lighting, and spacing of the plants is to be kept since it already works for what they need.

### **Design Criteria & Specifications**

#### Functional Requirements:

Easy to move  
Modules can be removed for harvesting (Modularity)  
Size of reservoir (L)  
pH and fullness gauge  
Better dripper (mL lost)

#### Non-functional Requirements:

Durable material  
Corrosion resistance  
Space efficient  
Produces the greatest yield  
Weight (reasonable for the children)  
Product life  
Product's advertisement  
Inclusion of company's logo  
Allocating space to display name on product  
Reservoir easily fillable  
Reservoir easily cleanable

#### Constraints:

Must fit in an elevator  
Height: less than 1.52 m (5 ft)  
Width: at least 2.43 m (8ft)  
Spacing: at least 12.7 cm (5 inches)  
Yield more than 20 plants  
Cost (\$)  
Aesthetic

By communicating with the client the above list of design criteria and specifications was able to be produced. However, some details such as dimensions, weight, and materials are missing due to the information not given by the client, or the information was not known to the client at the time of the meeting.