



MIILKIIA

MIILKIIA AGRICULTURE

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COMPANY PROFILE

Miilkiia Agriculture, the predecessor plastic factory was founded in 2003. It is a high-tech modern enterprise specializing in designing, manufacturing and providing complete agricultural facility solutions for customers.

Products include greenhouses, hydroponic systems, irrigation systems, vertical planting racks, home smart systems, rolling benches and other accessories.

Miilkiia is driven by a vision of a greener, more efficient future for agriculture. Our black and white hydroponic channels, paired with the thermal insulation quilt, are engineered to deliver superior performance in greenhouse settings. We are dedicated to supporting farmers and growers with the tools to ensure year-round growth. Your success is our priority.



Nearly 200 projects serve more than 50 countries and regions around the world

Shanghai
 Hong Kong, Taiwan, China, Macao
 Shenzhen, Xinjiang, Wuhan, Beijing, Guangzhou, Qingdao
 Zhengzhou, Hefei, Nanjing, Harbin, Lanzhou, etc
 Singapore
 Saudi Arabian countries such as Dubai
 Indonesia
 United States (Seattle, California, Washington, Xiyue, etc.)





Led
Spectrum



Seedling
Cultivation



Variety of
Planting



Product
Development



Internet
System



Smart
Agriculture



Environmental
Control
Equipment



Auxiliary
Materials

PINEAPPLE GROWING TOWER

BASIC



PRODUCT SPECIFICATION

6 Layers	670mm (Dia) * 1100mm (H)
8 Layers	670mm (Dia) * 1400mm (H)
10 Layers	670mm (Dia) * 1700mm (H)



6 LAYERS

8 LAYERS

10 LAYERS

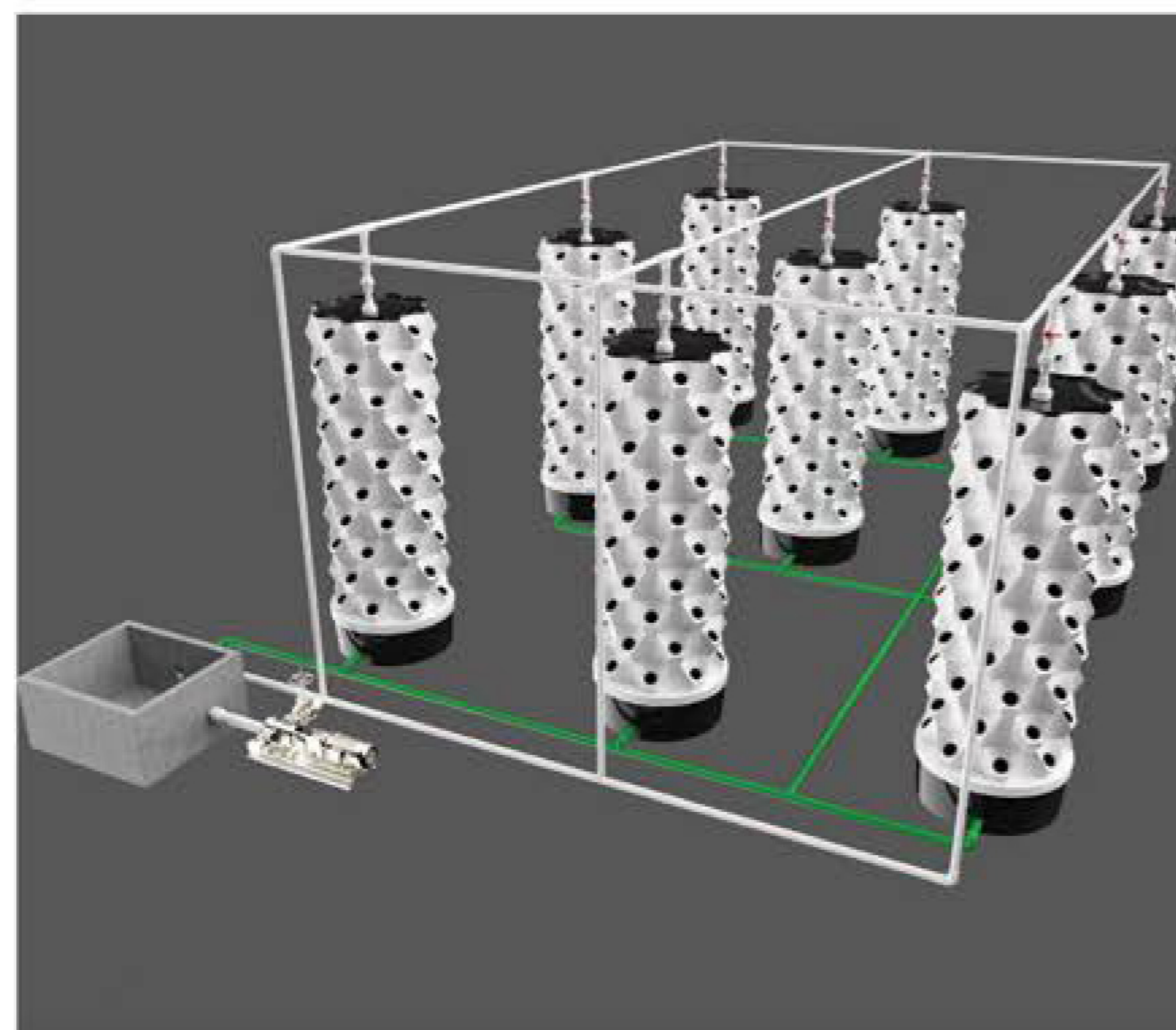
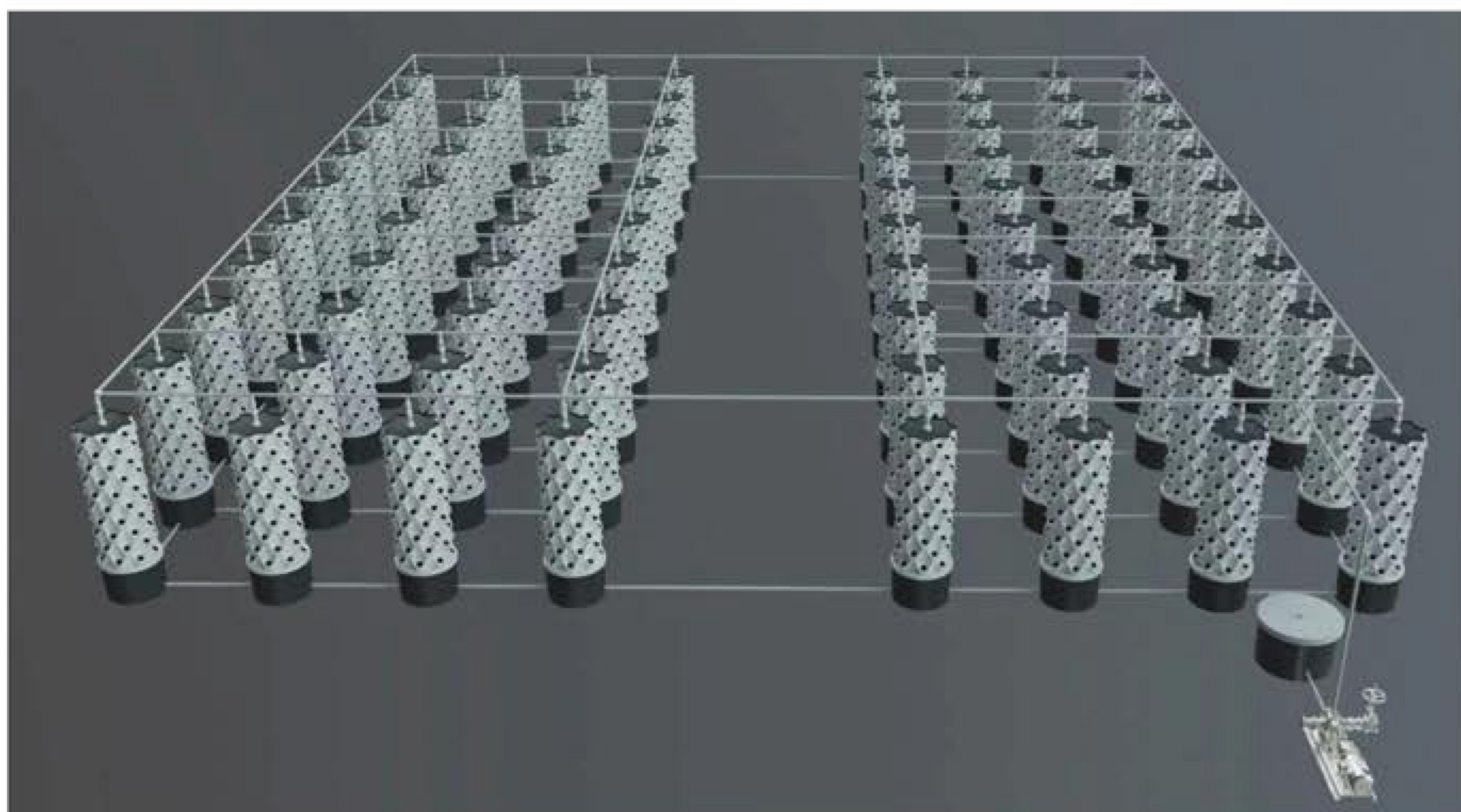
Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.

PARAMETER SPECIFICATION

Name of product	Pineapple Growing Tower (Basic)
Material	Environmentally Friendly Plastic
Package Size(cm)	68(Dia) * 35(H) / 68(Dia) * 44(H) / 68(Dia) * 44(H)
Water pump voltage	110-240V, 2500L/H, 15W
Planting	48/64/80
Water tank	30L
Product color	White / Yellow / Green
Customized	The size can be customized according to your needs

PINEAPPLE GROWING TOWER PROJECT DISPLAY

Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



RAINFALL HYDROPONICS OF PETAL COLUMN

- 

Simple Combination
- 

Soiless Culture
- 

Food Grade
- 

Natural Lighting
- 

Indoor USE



Petal column rain water culture facility is a fixed device composed of a special cultivation bowl Four-petal planting basin is equipped with water culture cupThe column can not only make full use of the Limited cultivation space, but also satisfy different layout forms to create a beautiful three-dimensionalagricultural landscape effect.

PUMP SPECIFICATION

Output	DC 24V
Input	AC 100~240V
Power	28.8W

30L Ø420*300mm



8 LAYERS



12 LAYERS

PRODUCT SPECIFICATION

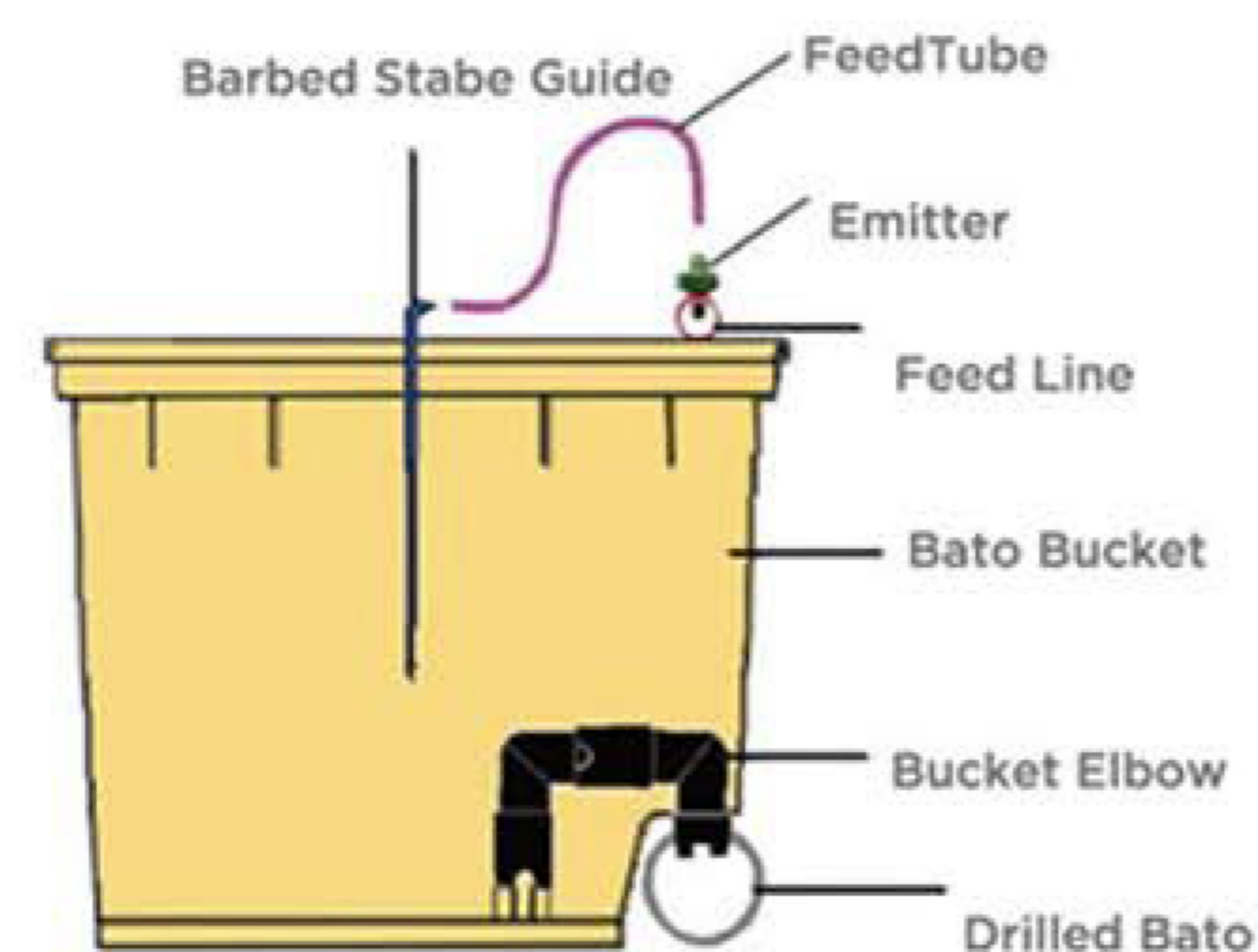
Product name	Vertical hydroponics system
Product size	48x48x170cm
Package size	49x49x49cm
Product material	Food PP
Layers	8/12 layers
Number of planting holes in each layer	4
Product color	White
Weight	8.5KG

RAINFALL HYDROPONICS PROJECT DISPLAY

Rainfall Hydroponics is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



DUTCH BUCKET



PRODUCT SPECIFICATION

Size(L*W*H):	30x25x23cm
Color	Yellow, White or Black
With Drain Elbow	Yes
Usage	Hydroponic planting vegetables or garden use
Material	PP
Advantage	Easy to installation and environment friendly
Customized	The color can be customized according to your need

Used for planting flowers, salads, vegetables, herbs, potatoes, fruits, etc

AVAILABLE IN THREE COLORS



DUTCH BARREL CULTIVATION PROJECT DISPLAY

Dutch pail has been widely used in global modern water cultivation farm that can improve productive efficiency and food security.



PVC PIPE HYDROPONIC SYSTEM

By definition , hydroponics is a method of growing plants in a water-based , nutrient-rich solution. Hydroponics does not use soil , but uses inert media (such as perlite , rock wool , coconut skin) to support the root system . The basic premise of hydroponics is that the roots of the plant are in direct contact with the nutrient solution and can also be exposed to oxygen , which is essential for normal growth .



95*45*100cm



95*45*100cm



98*50*103cm



98*55*72cm

LAYERED PLANTING FRAME

Hydroponic systems are now widely used in Greenhouses. This is an agricultural system that uses nutrient-rich water instead of soil for plant nutrition. It not only does not require natural precipitation or fertile land to function effectively, but also provides people living in arid areas with a means to grow food and make profits for them.

At the same time, the technology can be used for rooftop agriculture, so it is very useful in areas with limited space.



A variety of specifications



1270*650*1308
1530*650*1308



1270*650*1756
1530*650*1756



1270*650*2200
1530*650*2200



* ABS Tray+Galvanized Pipe

LAYERED PLANTING FRAME



HYDROPONIC SYSTEM



Size (LxWxH) 5.0x0.6x1.5m
Materials SUS&Food grade PVC
Custome Available

The horizontal NFT system is the most popular hydroponic structure in vegetablehydroponic agriculture at present . It is suitable for users with large planting area , andis famous for its simple equipment construction , easy management . less investmentcost and even plant growth . The small area of the user can choose to build thevertical NFT , which can effectively use the vertical space , effectively reduce the costof equipment and the cost of the personnel management and increase the amountof the yield by about 30 percent



Size (LxWxH) 5.0x1.6x0.7m
Materials SUS&Food grade PVC
Custome Available

- Simple Combination
- Soiless Culture
- PVC
- Circular watering
- Optional auto water feed
- Grow bigger and faster yield
- Saves water space, and fertilizers

NFT HYDROPONIC SYSTEM

NFT is a hydroponic technique. The root system of the plant grows in a plastic tube or a fixed channel, and the nutrient solution is continuously circulation provide the necessary nutrients and water to the plant through the channel.

NFT is most commonly used for growing smaller quick growing plants like different types of lettuce. It is quite popular with home hydroponic growers. Along with growing lettuce, some commercial growers also grow different types of herbs and baby greens.



Size (LxWxH) 122x122x150cm
Materials Aluminum+Food grade PVC
Custom Available



Size (LxWxH) 130*35*200cm
Materials Aluminum+Food grade PVC
Custom Available

-  Simple Combination
-  Soilless Culture
-  Non-toxic
-  Circular watering
-  Optional auto water feed
-  Grow bigger and faster yield
-  Saves water space, and fertilizers

Smart Planting Series

The Sen style intelligent embedded planting machine adopts precise computer environmental control, and zero pollution throughout the entire process, taking safety and hygiene to the next level. Smart planting can restore the original taste of vegetables and enjoy healthy and delicious food at home.



Adjustable spectral LED light, APP intelligent control

Exclusive one button planting function, whole system layered temperature control, automatic liquid mixing, intelligent water circulation, full spectrum automatic adjustment and diversified Vegetable farming parameters. let

Product Name	Sen style fully intelligent planting and cultivation machine (Double door)
Product size	1200*650*1800mm
Power consumption	220V/250W
wireless network	no
Number of planting holes	125
weight	About 150kg
material quality	Stainless steel, aluminum alloy, ABS, PVC, glass
Function Introduction	Constant temperature and humidity, intelligent control, full spectrum LED light, automatic nutrient solution addition
control mode	Touch screen control



Family planting: Light luxury planting series

The perfect visual garden design allows for the planting of various green plants and landscaping, adding natural vitality to office buildings or business places. Overall environmental control, Dedicated outdoor air system, full spectrum light compensation, allowing plants to grow freely.



Water and soil separation and control, easy to match

Adopting a visual staircase design, built-in stepless lifting glass, hidden spiral air vents, maintaining air circulation, built-in temperature control system, full spectrum supplementary light, allowing plants to grow healthily

Product Name	Sen style hydroponic tower multi-layer planting machine
Product size	1660*1160*720mm
Power consumption	220V/250W
wireless network	no
Number of planting holes	Customization
weight	Customization
material quality	Aluminum profiles, rock slabs, glass
Function Introduction	Layer height stacking, full spectrum LED lights, water circulation
control mode	Touch screen control



Top perspective

Family planting: Light luxury planting series

The Sen's Wood Life multi-layer hydroponic planting machine adopts an independent seedling layer design, with layered lighting control. Each plant has an independent planting slot, and is equipped with a built-in wind circulation system to simulate natural wind and allow the plant to sway and grow.



Wood+ABS material, high-end appearance

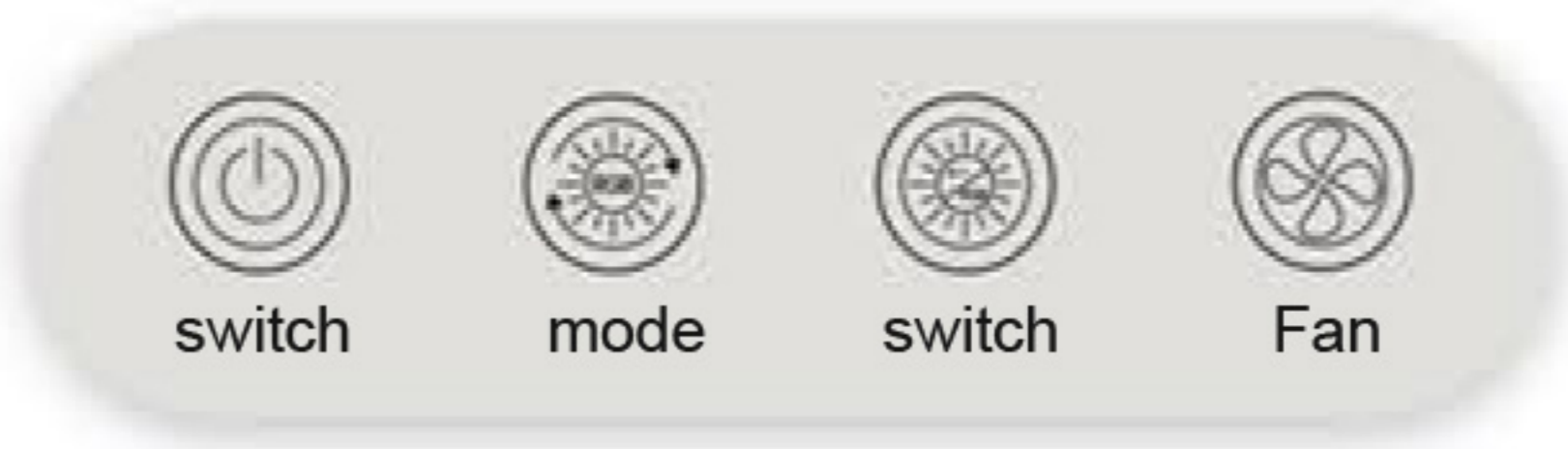
Made of raw wood and ABS material, with heat treatment process, the overall high-end and atmospheric appearance makes it a beautiful scenery for you to place at home, office, school, and other occasions

Product Name	Sen style hydroponic tower multi-layer planting machine
Product size	1410*770*500mm
Power consumption	220V/250W
wireless network	no
Number of planting holes	88
weight	40kg
material quality	Log+ABS
Function Introduction	Capacitive display screen, adjustable spectral LED light, water circulation, wind control
control mode	Touch screen control



Home planting: desktop planting series

High aesthetic design, easy planting, creating a desktop garden, touch control, fans, lighting, and bidding farewell to the tedious planting steps. Built in wind circulation, simulating natural wind allows plants to breathe fresh air, allowing them to grow and survive for a longer time.



Adjustable spectral LED light, precise fill light

3500K full spectrum illumination provides sufficient light for plants. Free switching of multi-color lighting, full color supplementary lighting, creating a colorful exclusive private garden.

Product Name	Square inch desktop garden
Product size	320 * 220 * 220mm
Power consumption	220V/15W
wireless network	have
Number of planting holes	no
weight	2kg
material quality	ABS
Function Introduction	Full spectrum LED light, wind cycle
control mode	APP, touch

Touch version



Wireless version

ROLLING BENCH



Outside Dimensions

1320*720*650 MM (2'x4')
 1320*1320*650 MM (4'x4')
 1930*1015*650 MM (3'x6')
 1930*1320*650 MM (4'x6')
 2540*1323*650 MM (4'x8')

Other parameters

Material: Galvanized Steel

Wheels: 4*Fixed Caster ;
 2*Universal Wheel

Weight: 17.7 / 17 / 22.5 / 24 / 30KG

Pipe: 4 PCS

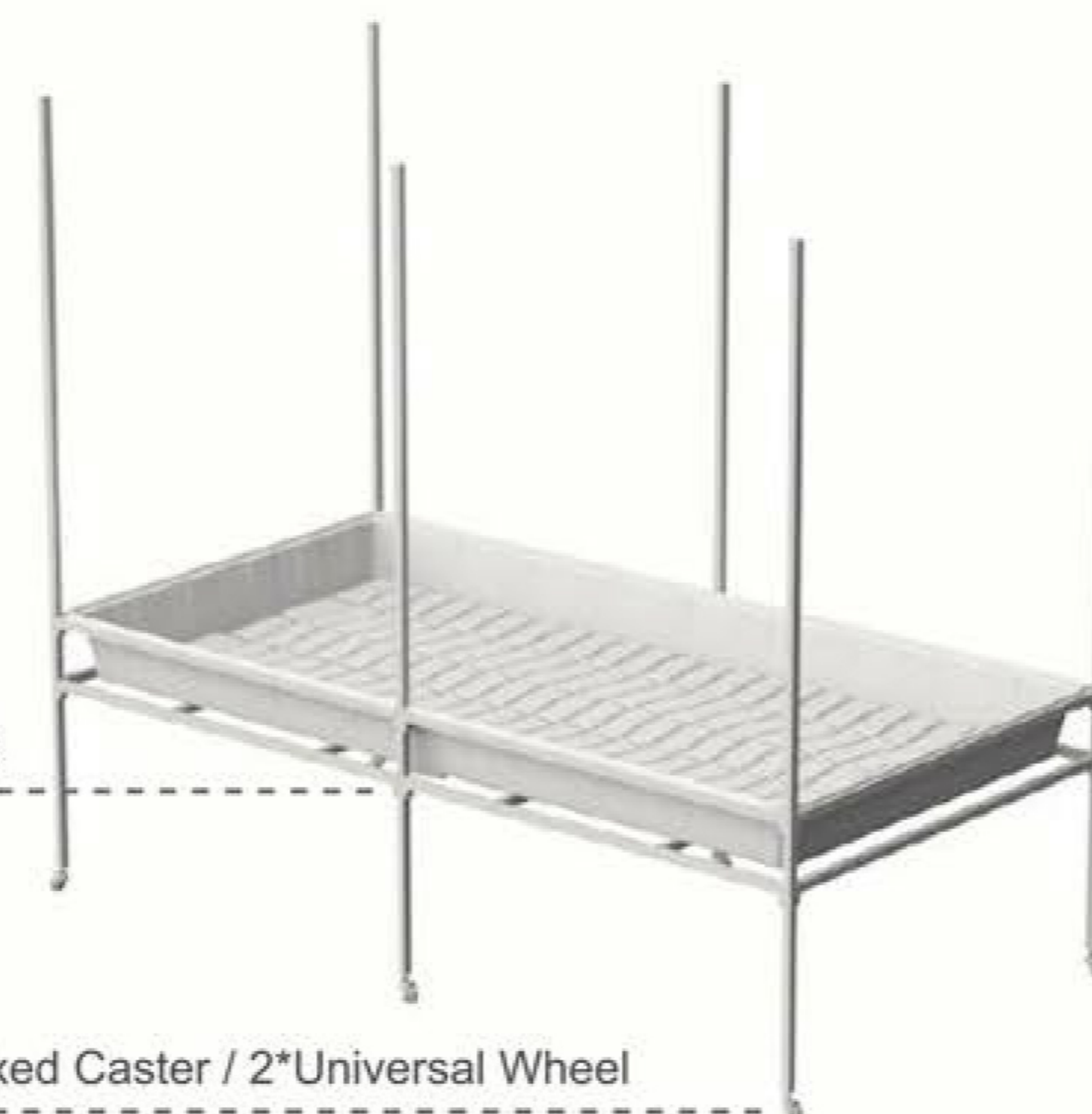
Maximum Load: 300 KG



nested structure



4*Fixed Caster / 2*Universal Wheel



ROLLING BENCH

Product Parameter

Flood Tray Size: 4X8X0.35 FT or Customized

Flood Tray's Material: ABS Material Formed

Bench Leg' Material: Galvanized Steel

Total Height: 2.7 FT or Customized

Frame/Vertical Bar: Aluminum Alloy



Handy steerin wheel



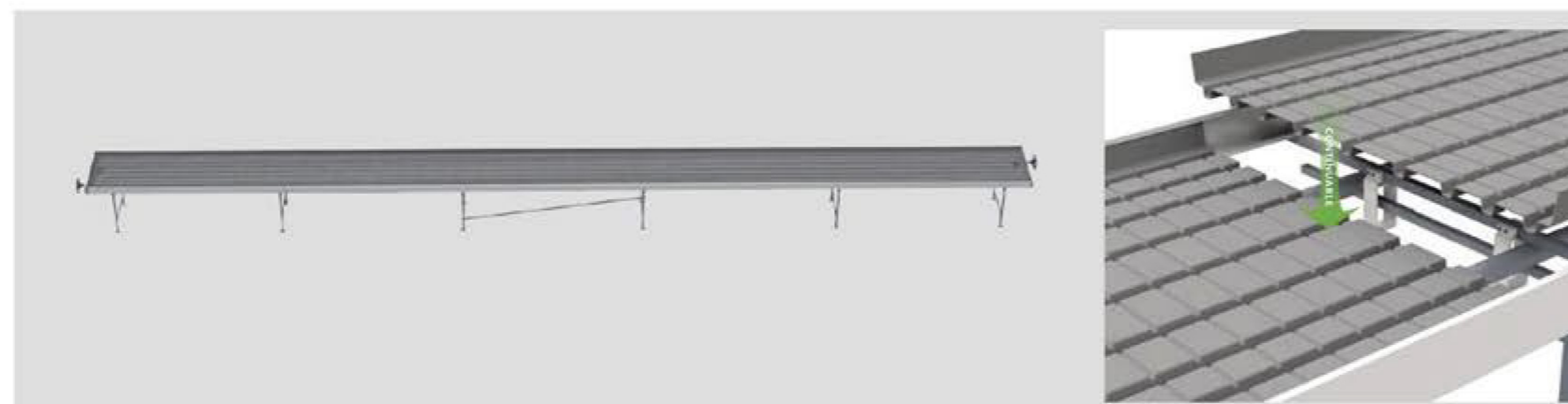
Anti-dip bracket



Adjustable greenhouse bench feet



Snap together aluminum profiles



MULTI-TIER MOVABLE RACK SYSTEM

Ruinuo works with indoor farmers to try to maximize their profit potential by providing multifunctional vertical planting systems. These systems help increase crop production capacity, reduce energy inefficiency and increase harvesting efficiency.

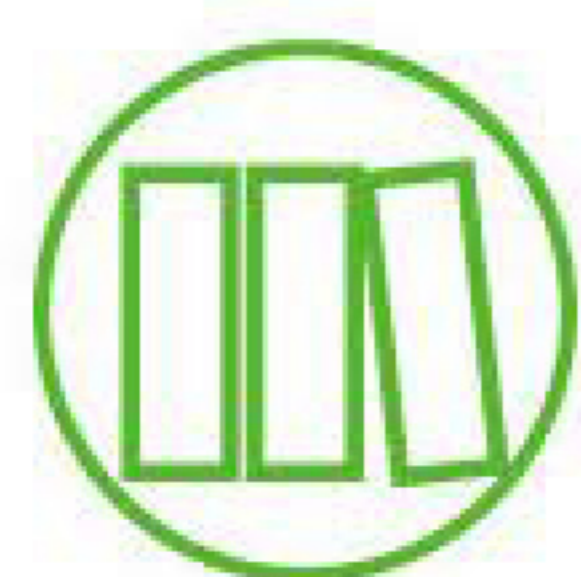
Using our mobile pallet racking system, we can eliminate unnecessary aisles and avoid wasting heads-pace, thereby increasing your production capacity to 100%.

Length _(mm)	Width _(mm)	Height _(mm)	Layers	Load-bearing	Material
2440	1200	2500	2	2~3T	ABS Tray Galvanized Pipe
2440	1200	3500	3	2~3T	ABS Tray Galvanized Pipe



INDEPENDENT VERTICAL ZIPPER HYDROPONIC SYSTEM

It occupies small space, can be easily equipped with flexible assembled. It could be hung on any wall, window, balcony or fence. This planting model can save water resource, and effectively save energy and be easily maintained. Column water cultivation system is the best choice for urban people experiencing the pleasure of planting and taste healthy vegetables cultivated by themselves. Meanwhile, it could be used for planting landscape plants to reduce formaldehyde and increase O₂, and decrease temperature at the same time. It also can improve home decoration and make it more beautiful.



Simple
Combination



Soilless Culture



Circular watering



Optional auto
water feed



Grow bigger
and faster yield



Saves water space,
and fertilizers



Black Sponges

STRUCTURE

The zip planting pipe is usually made of high quality PVC material, and the plant is fixed internally with transplanting sponge. The filter cotton can ensure that the plant can have enough nutrient solution and water needed for growth.



PVC TUBE
Height : 2.5M/Custom



SPONGES
Color : Black/White/Blue



HIGH QUALITY FILTER COTTON
Color : White / Black





HYDROPONICS SYSTEM DEMO

The circulatory system can continuously provide water for plants .

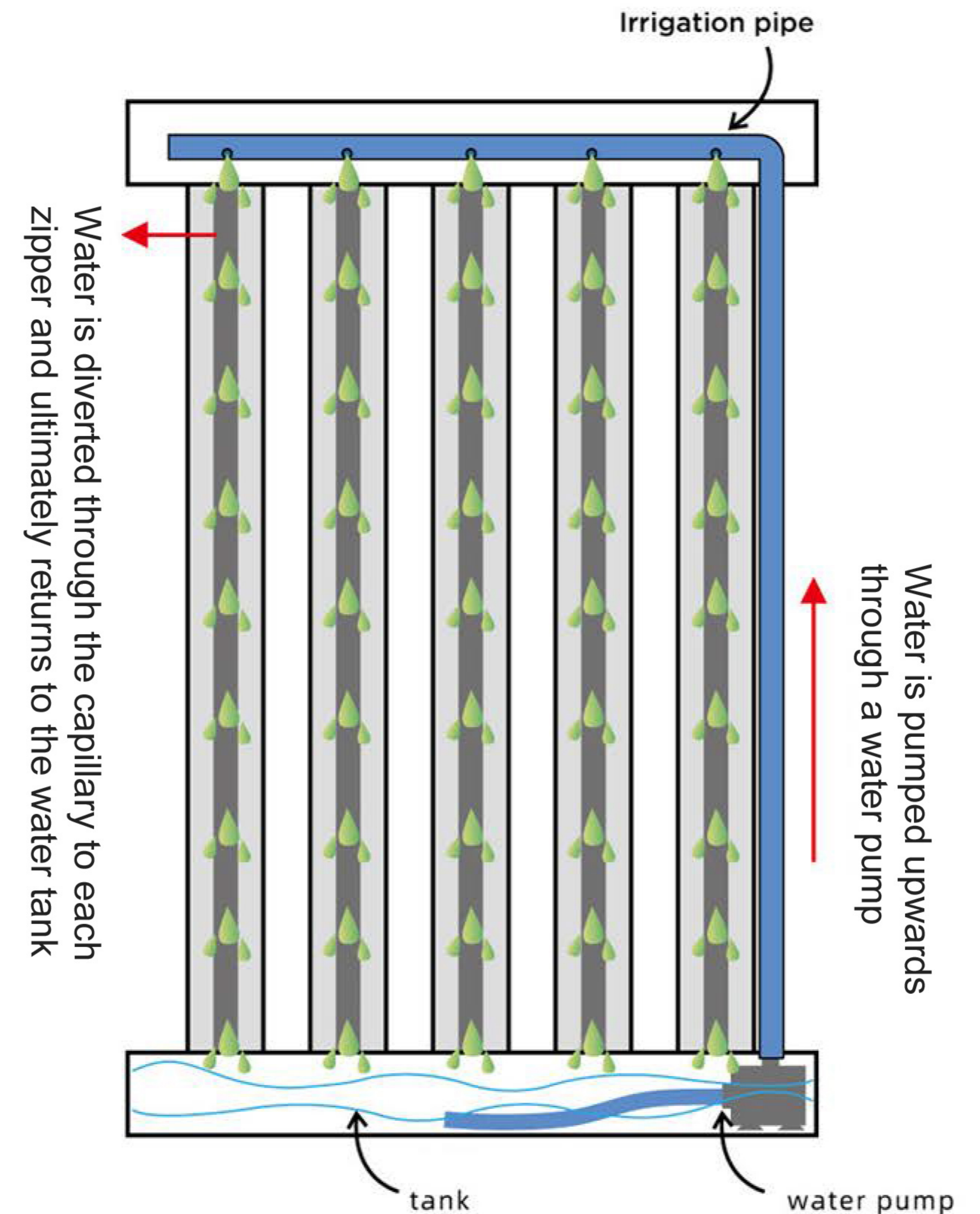
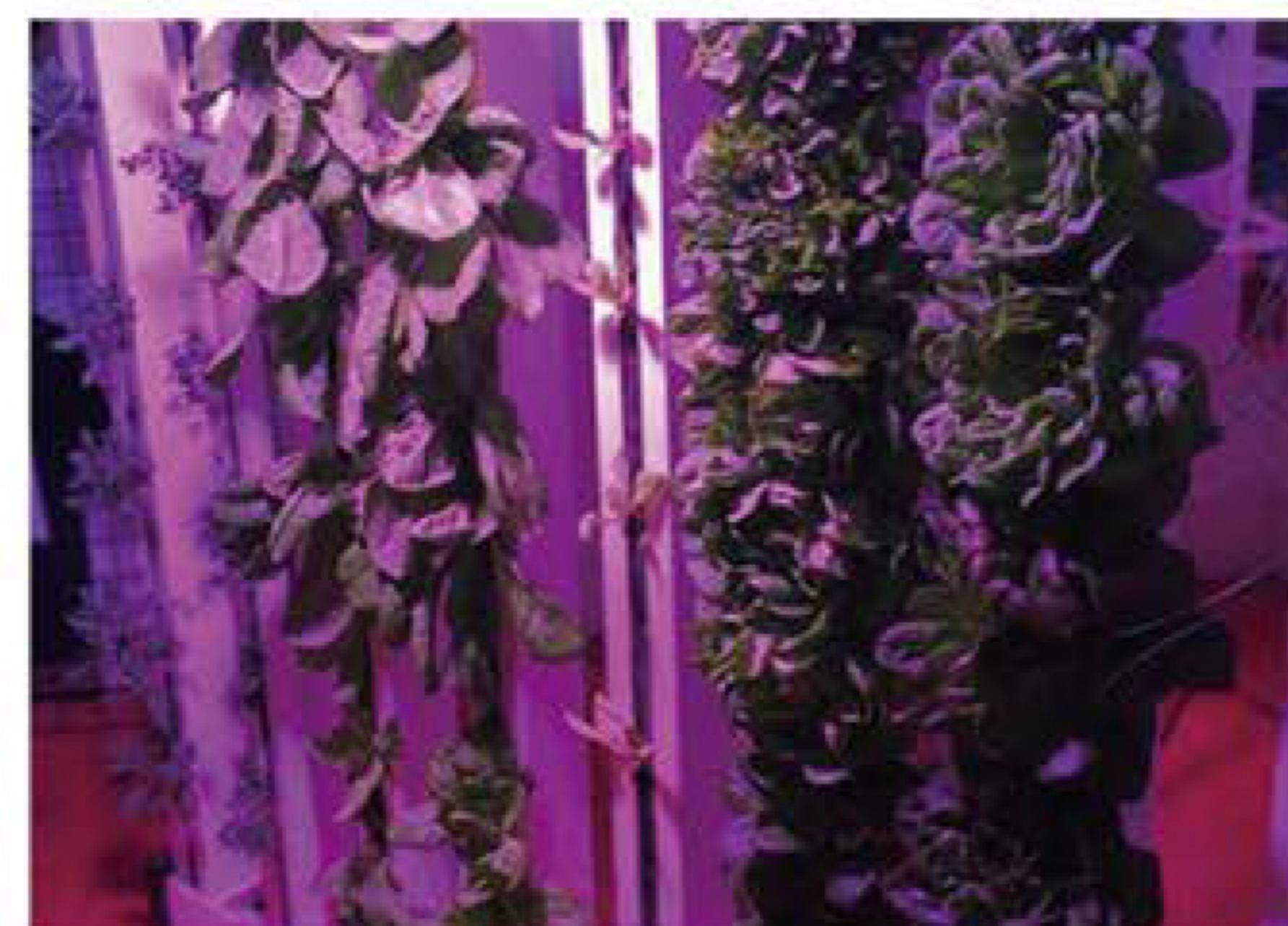
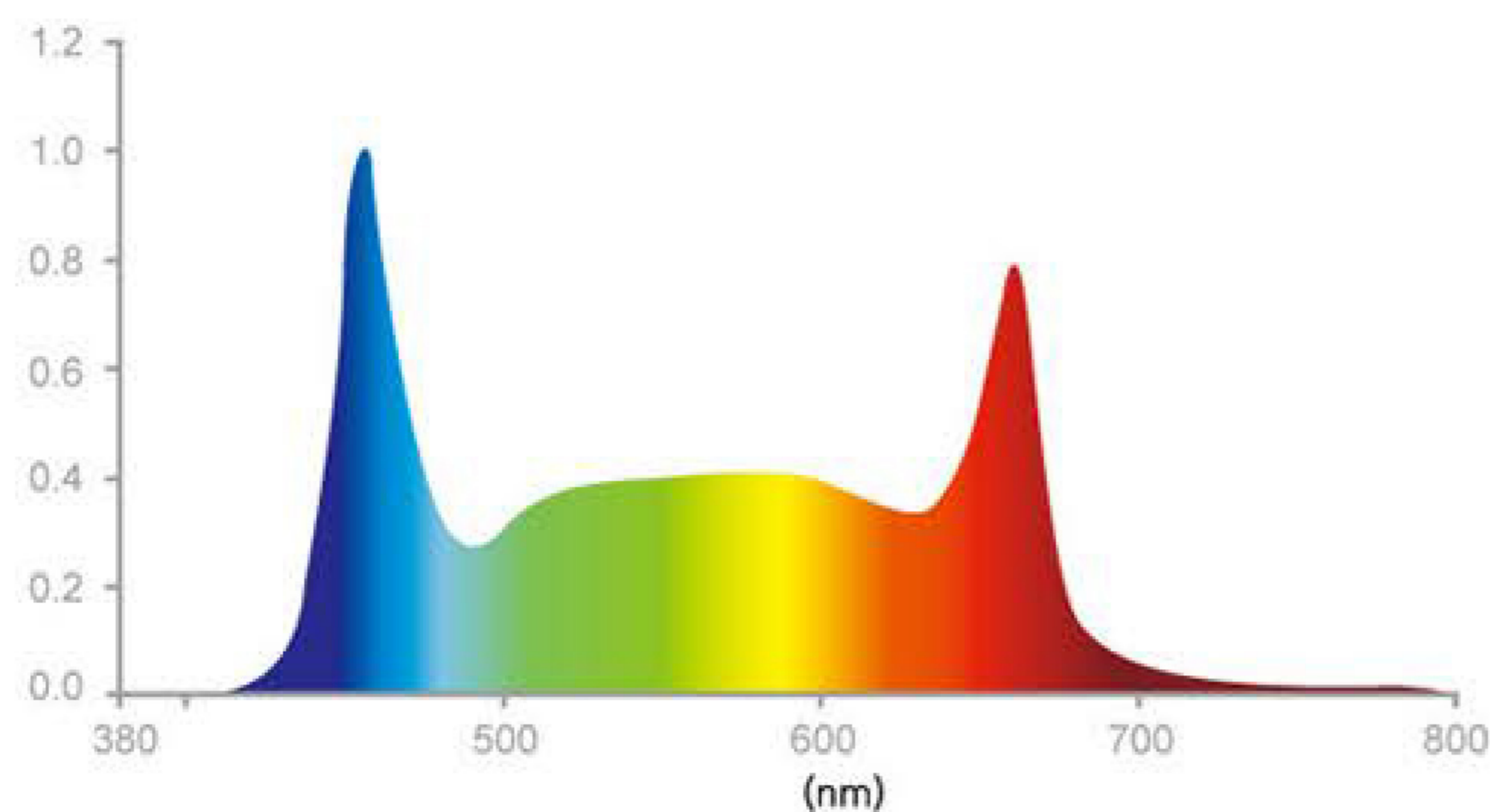


PLANT LED LIGHTING

- The natural spectrum generated by LED can effectively stimulate plant growth
- Flexible and simple installation, energy saving and safety

LIGHT SPECIFICATION

DC 24V	Output	DC 24V
AC 85~256V	Input	AC 85~256V
25-32W	Power	25-32W



High efficient natural spectrum, long-term lighting makes plants grow quickly.

INDEPENDENT VERTICAL ZIPPER HYDROPONIC SYSTEM

AVAILABLE
PRODUCTS

Can be customized according
to customer needs



16 strips zip system

Size (LxWxH)	128x50x250cm
Materials	Food grade PVC
Custome	Available



Customized zip system

Size (LxWxH)	207x107.5x270cm
Materials	Food grade PVC
Custome	Available



12 strips zip system

Size (LxWxH)	181x51x205cm
Materials	Food grade PVC
Custome	Available



4 strips zip system

Size (LxWxH)	80x70x160cm
Materials	Food grade PVC
Custome	Available



5 strips zip system

Size (LxWxH)	75x18x106cm
Materials	Food grade PVC
Custome	Available

Part Two

Channel Engineering

100x50

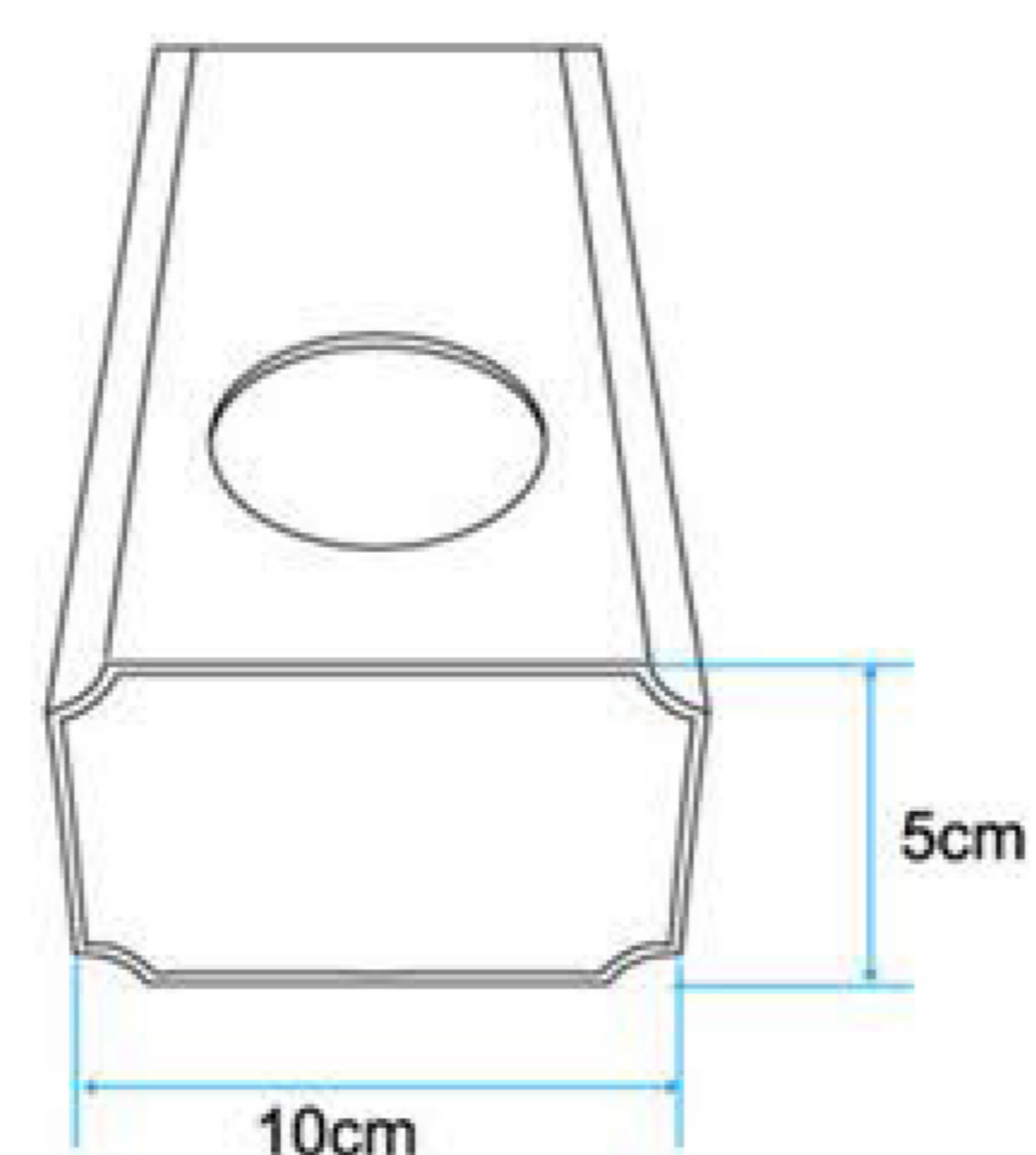
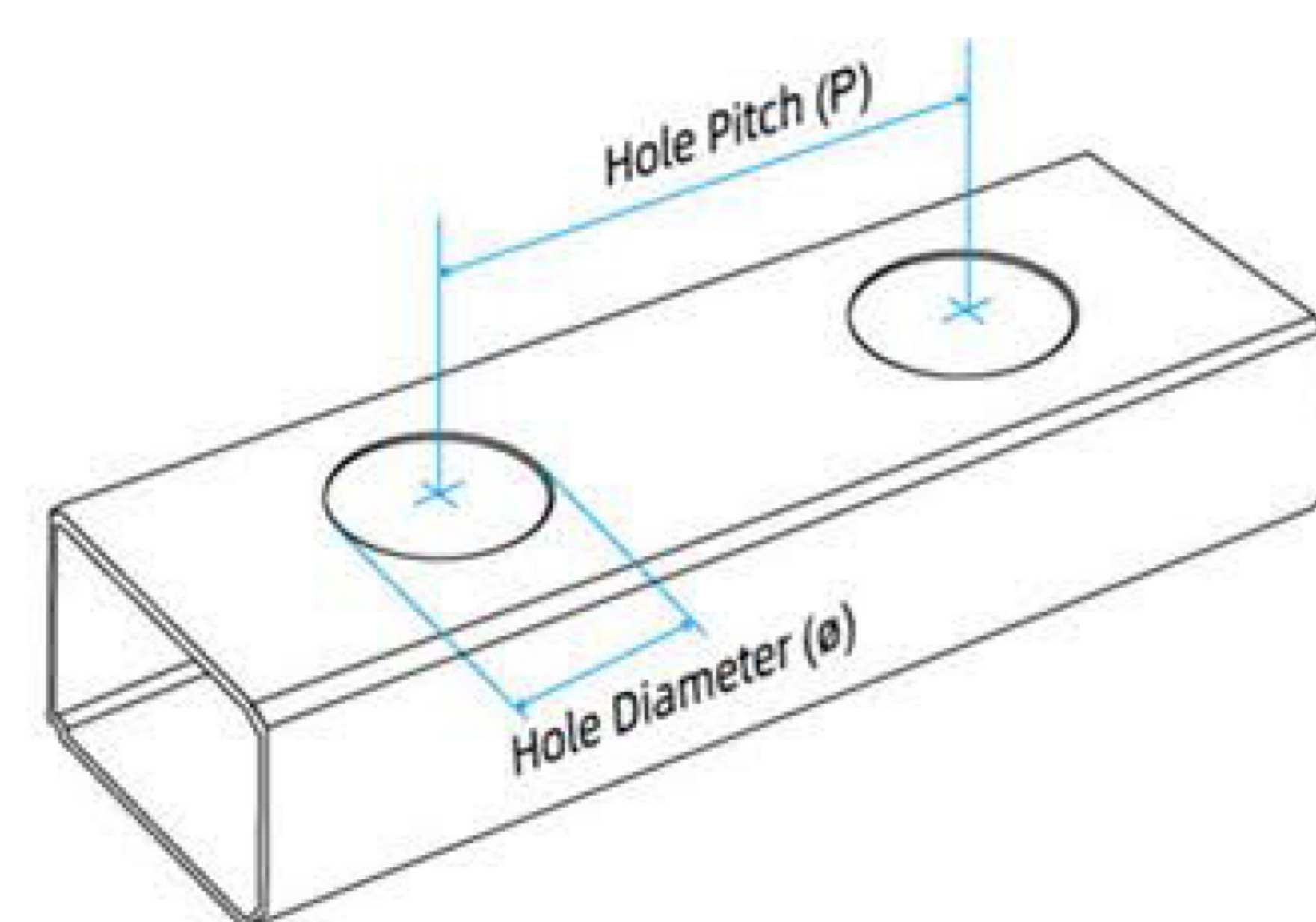
PVC NFT CHANNEL

Free Combination, Build quickly

PRODUCT SPECIFICATION

Size (WxH)	10x5cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length



117x50

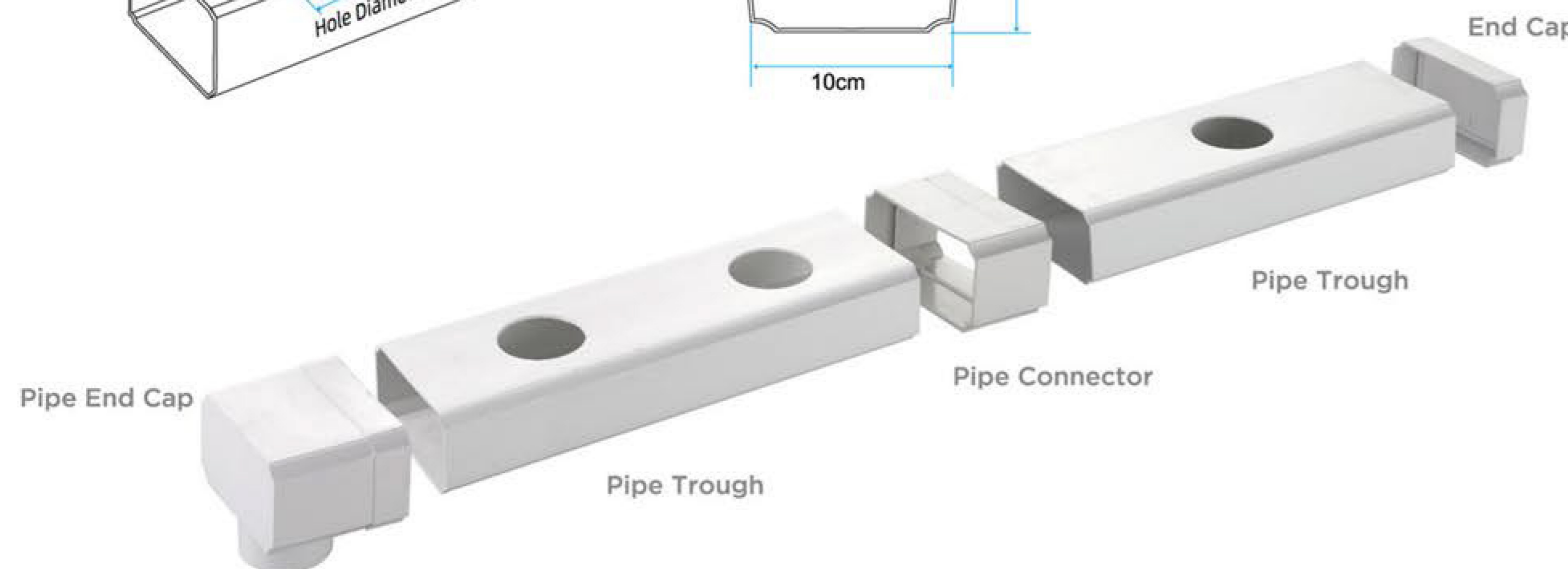
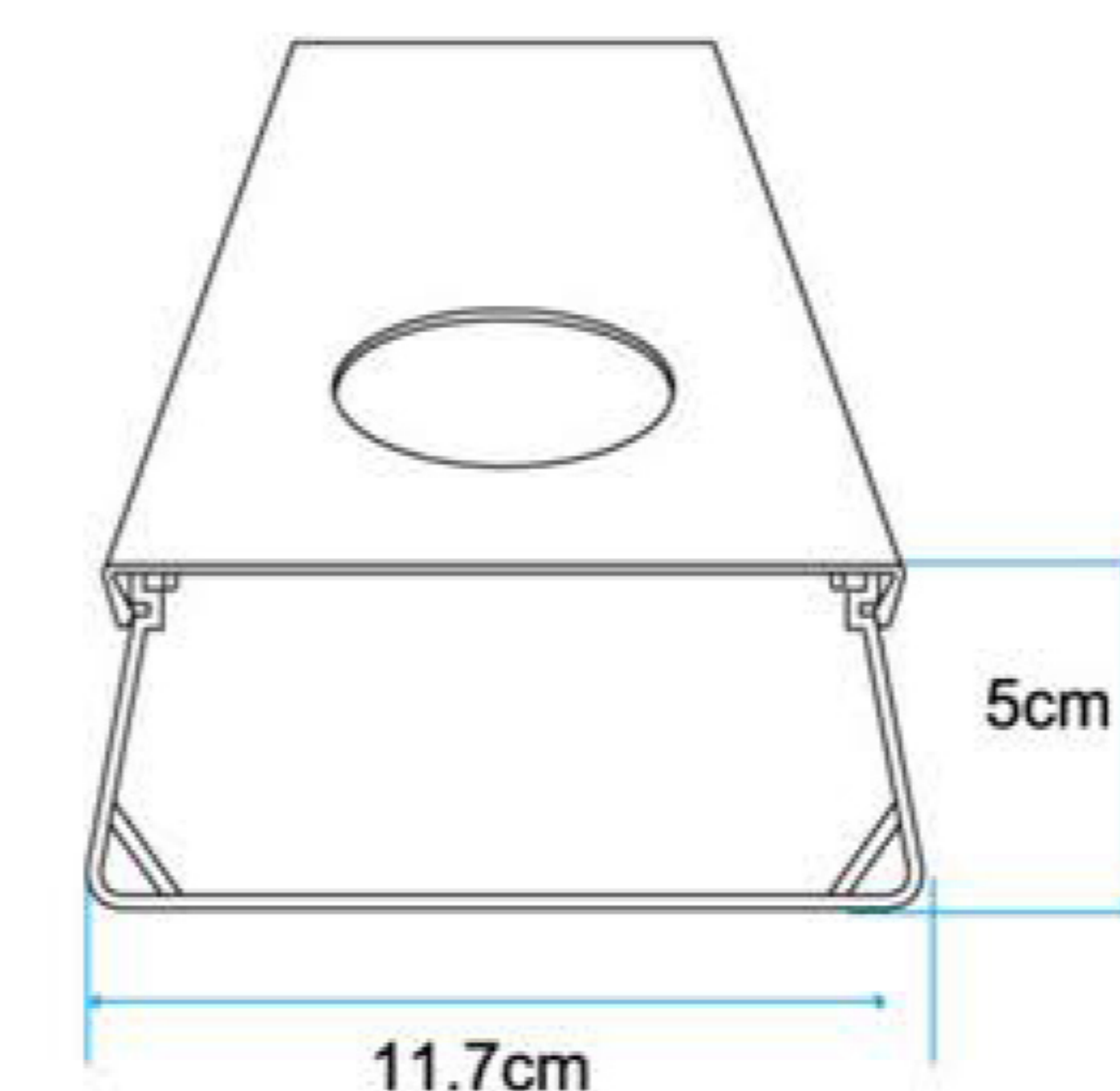
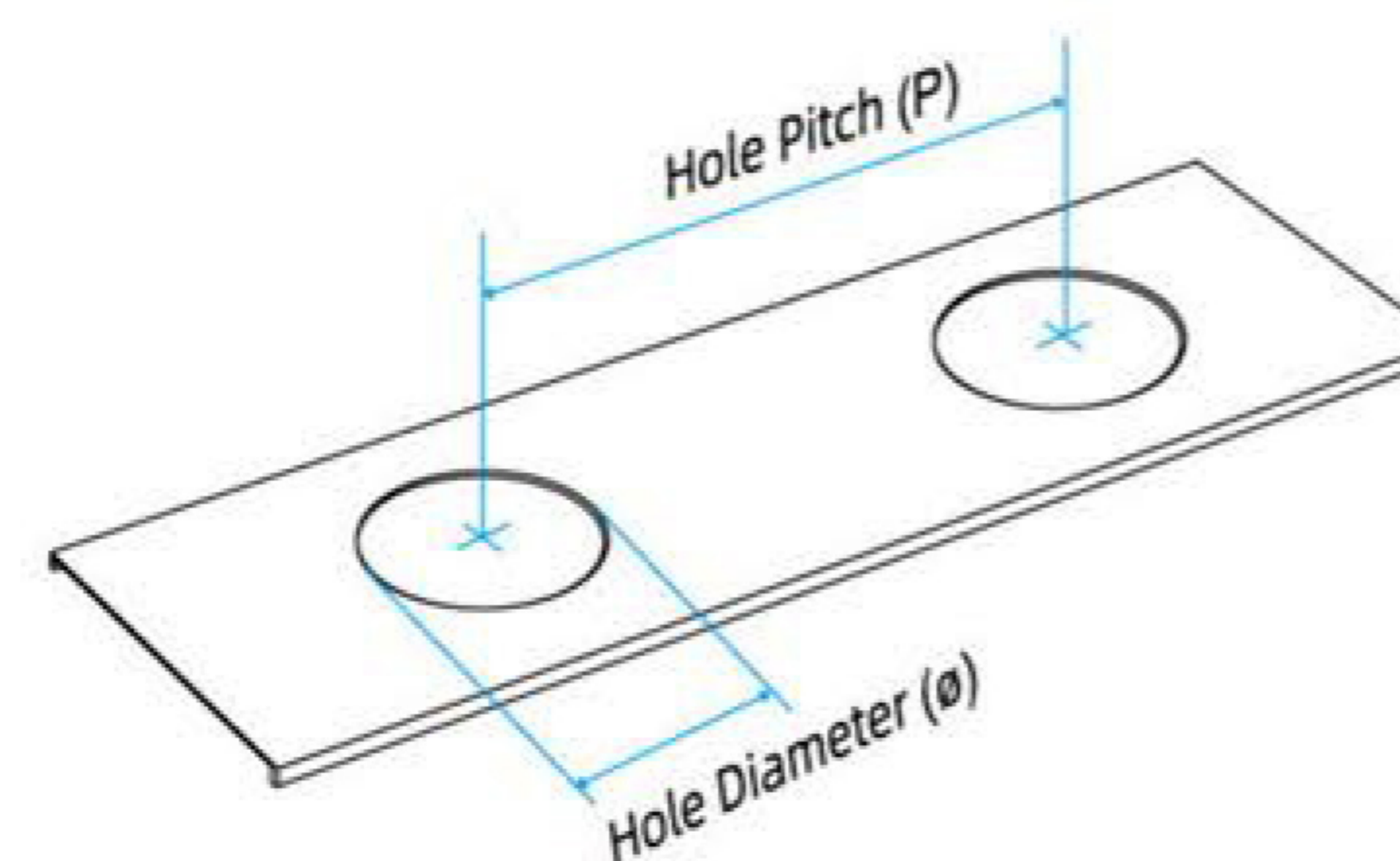
OPEN LID PVC NFT CHANNEL

Free Combination, Build quickly

PRODUCT SPECIFICATION

Size (WxH)	11.7x5cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length



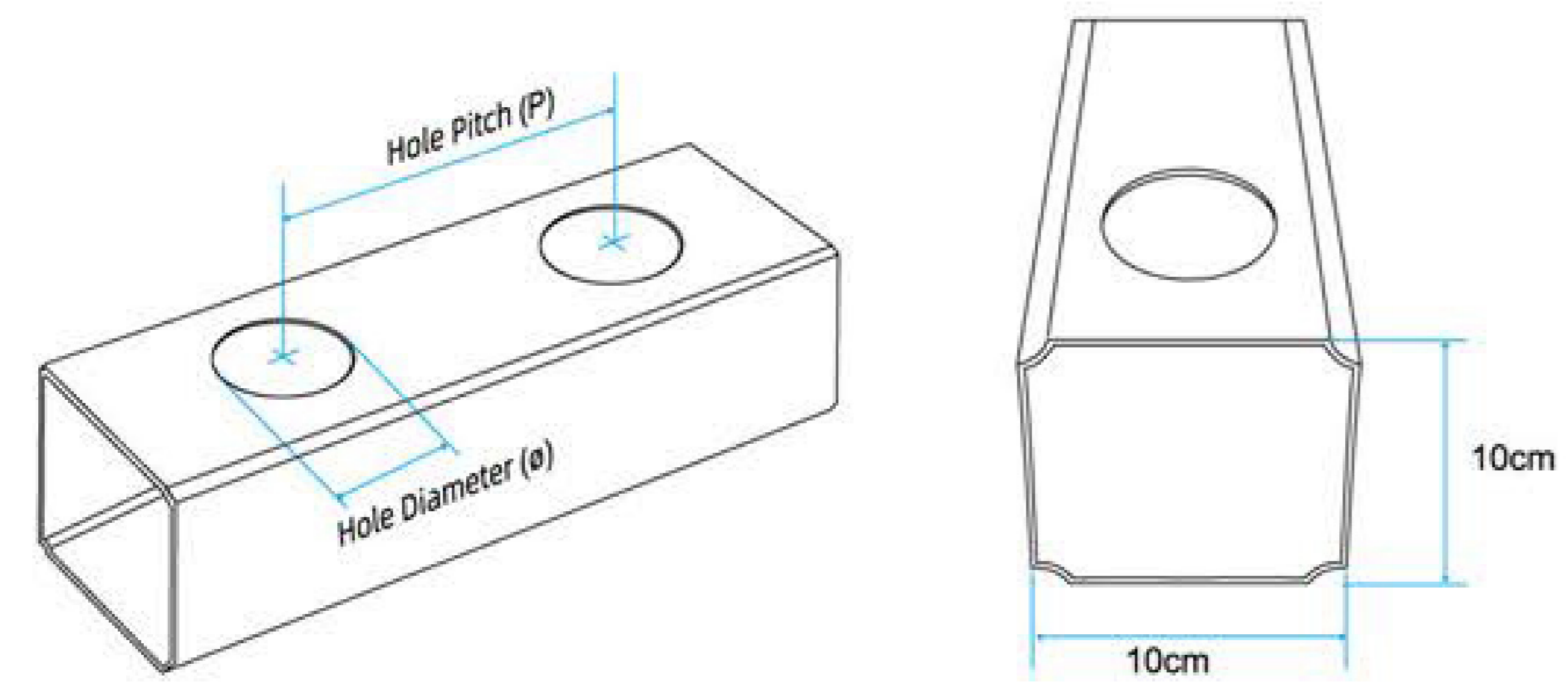
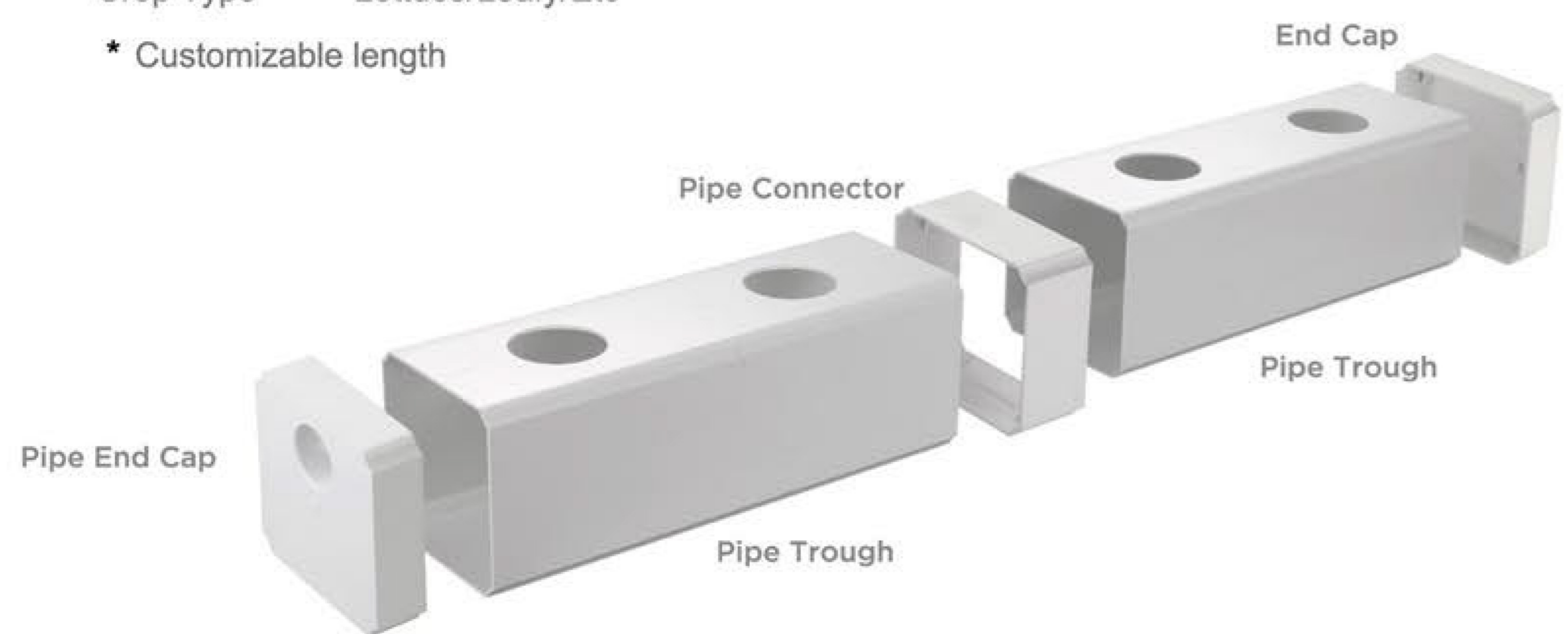
Channel Engineering

100x100 PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	10x10cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length

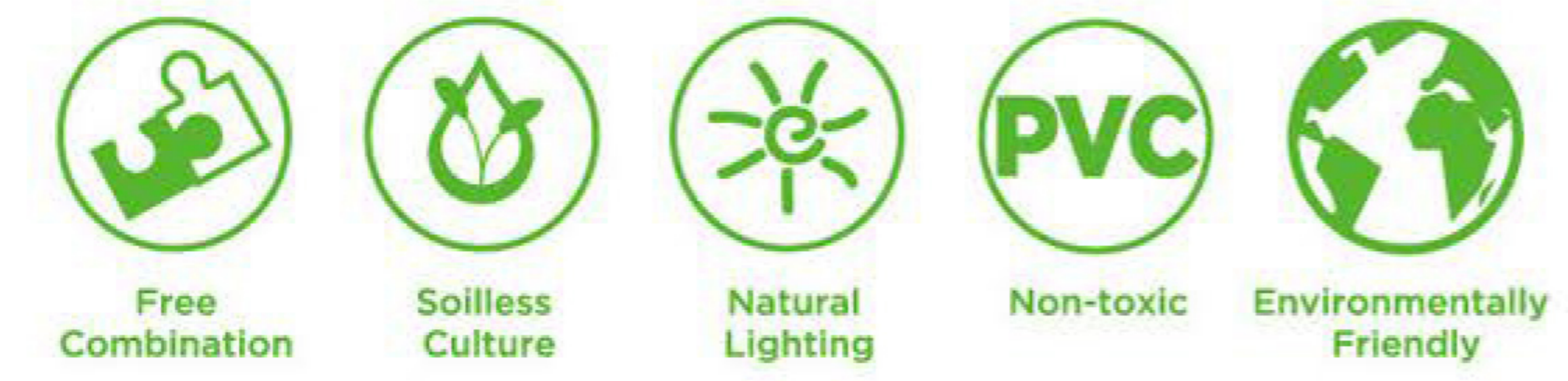
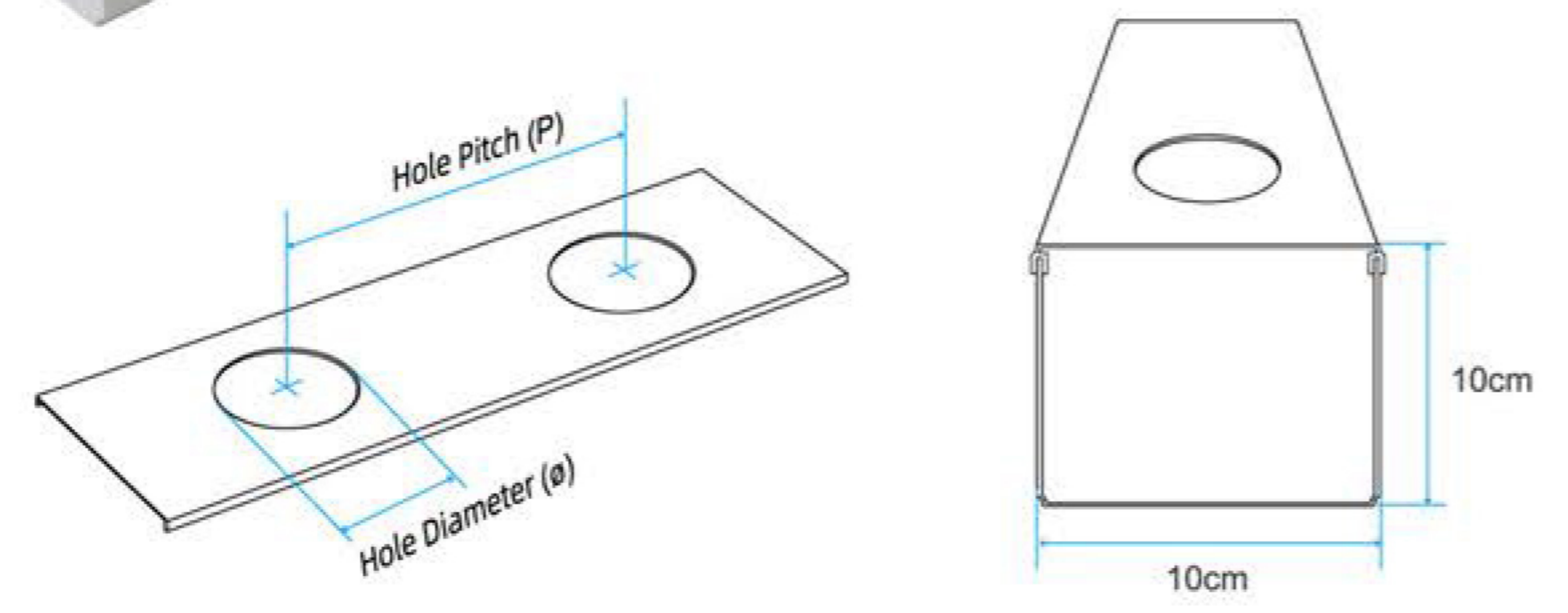
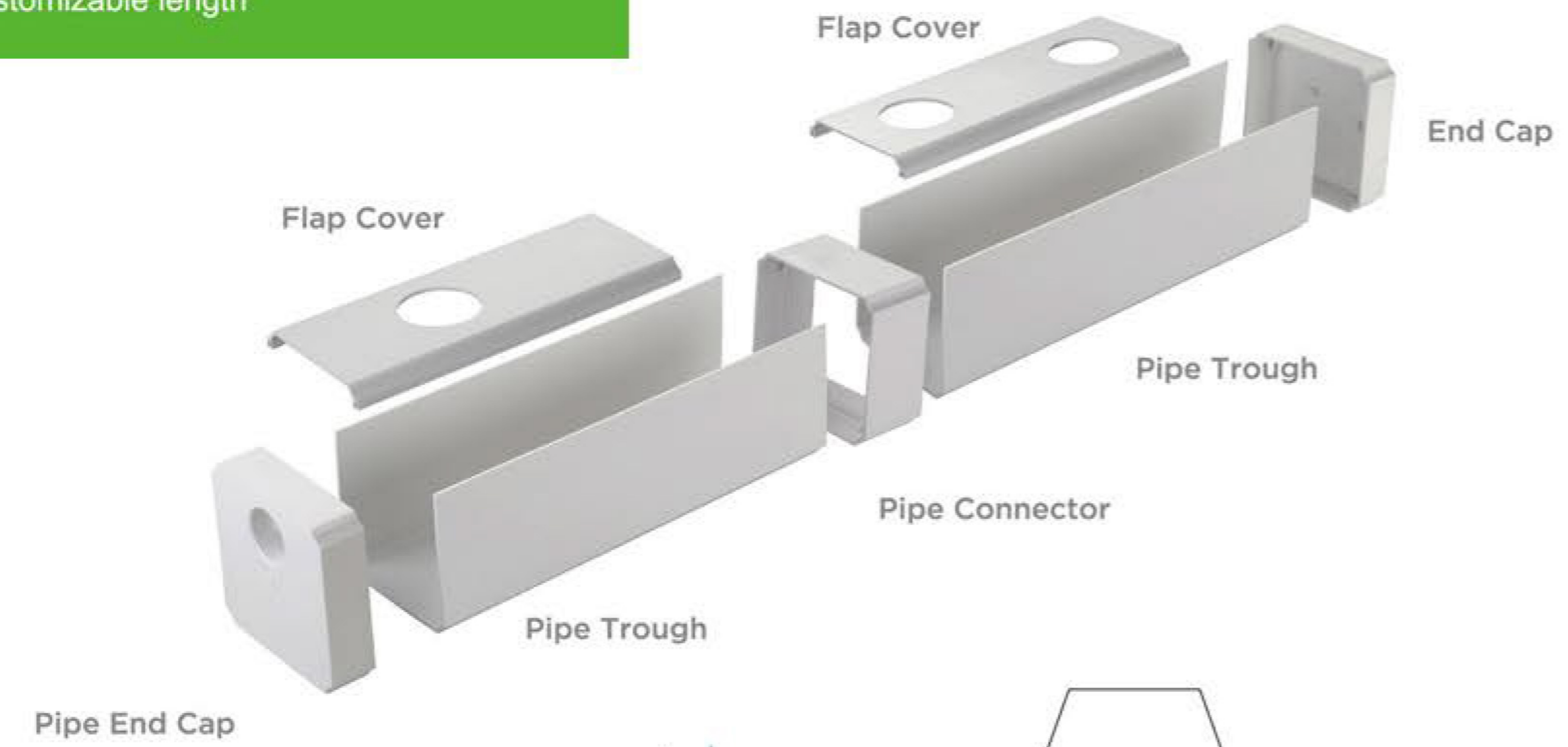


100x100 OPEN LID PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	10x10cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length



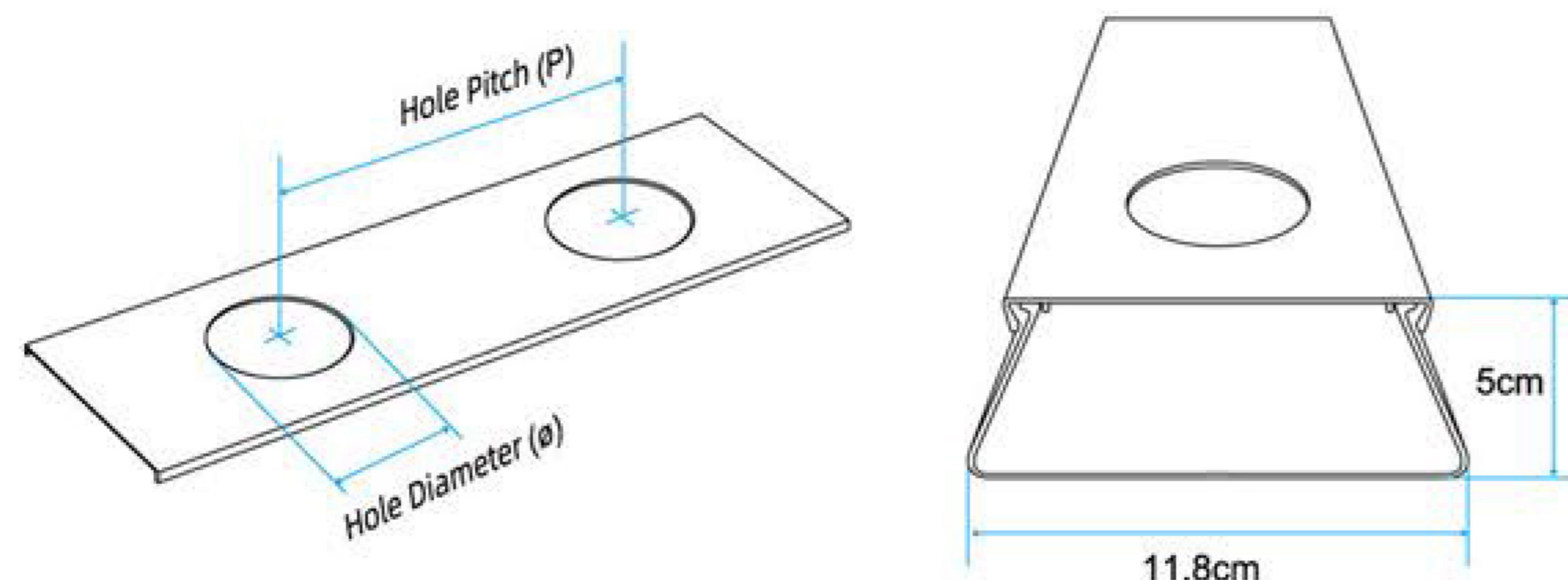
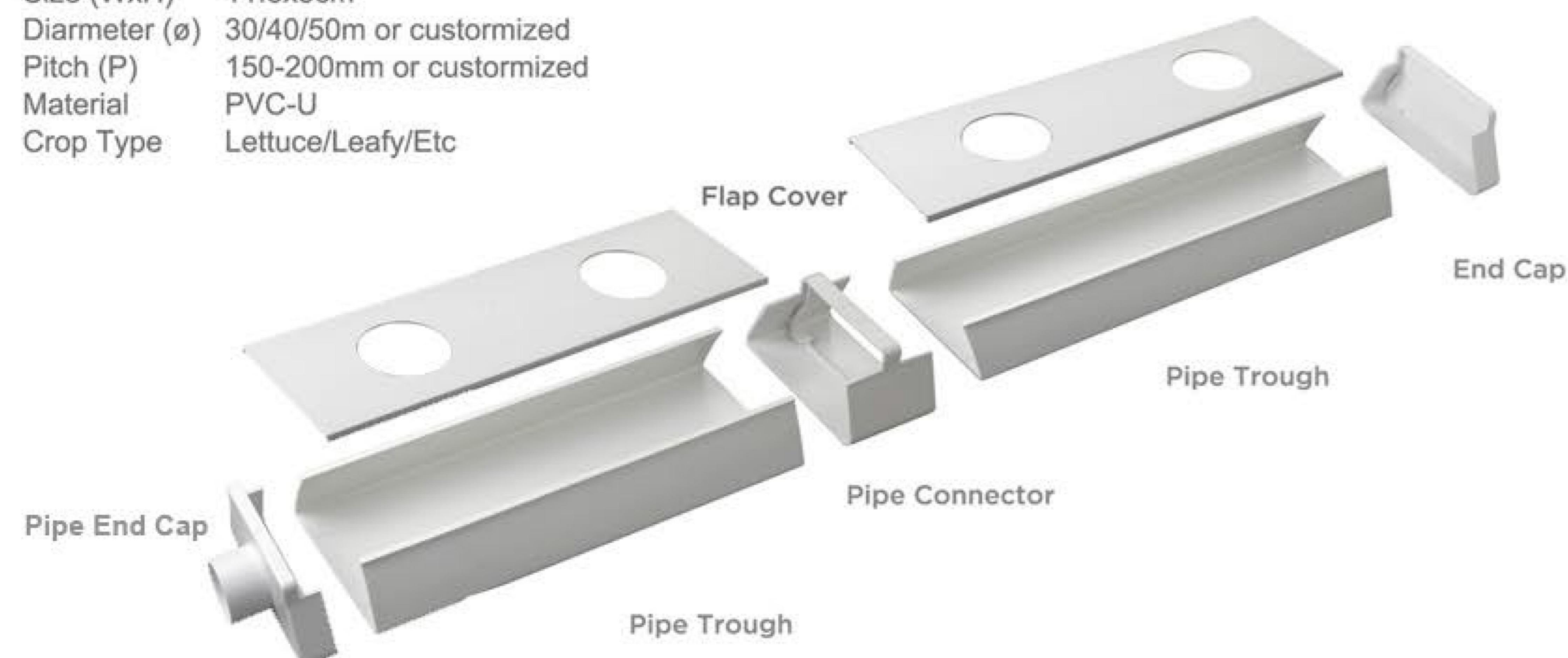
Channel Engineering

118 x 50

OPEN LID PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	11.8x5cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

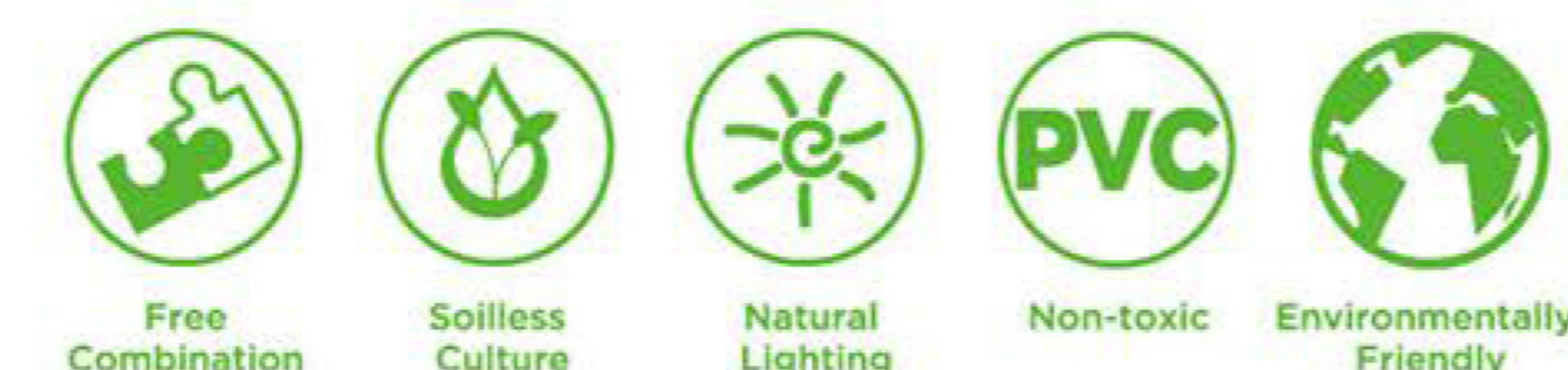
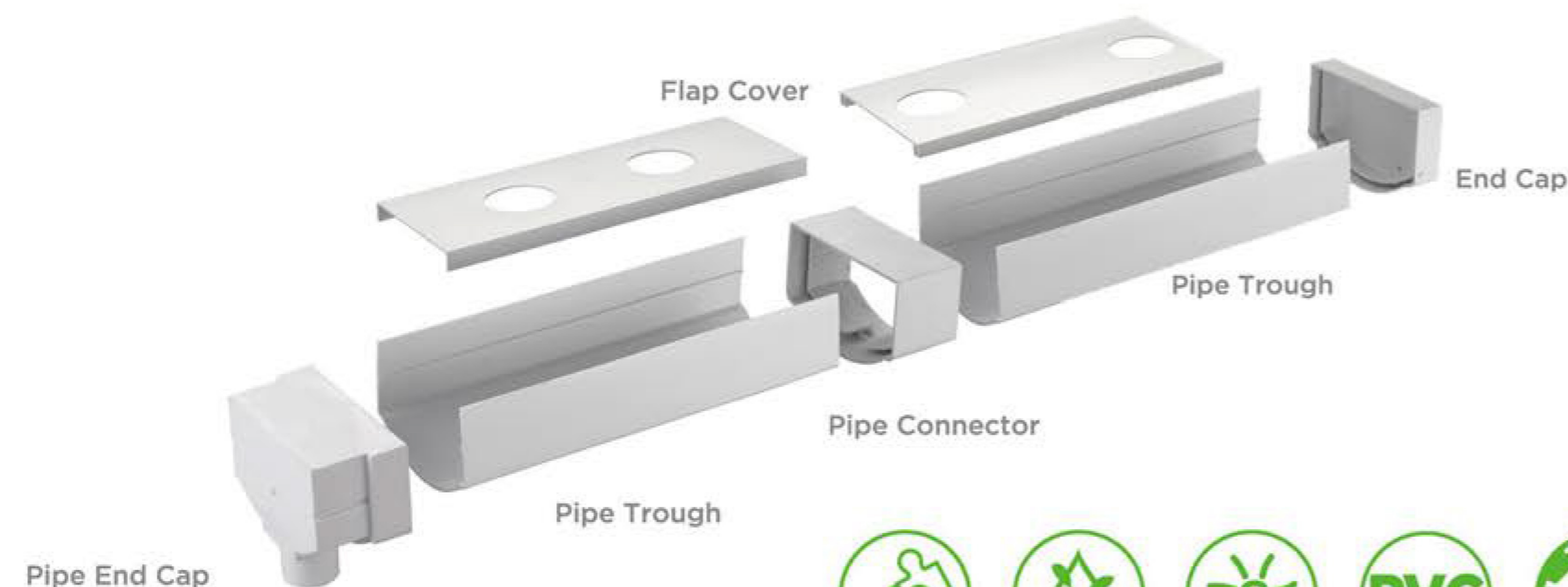
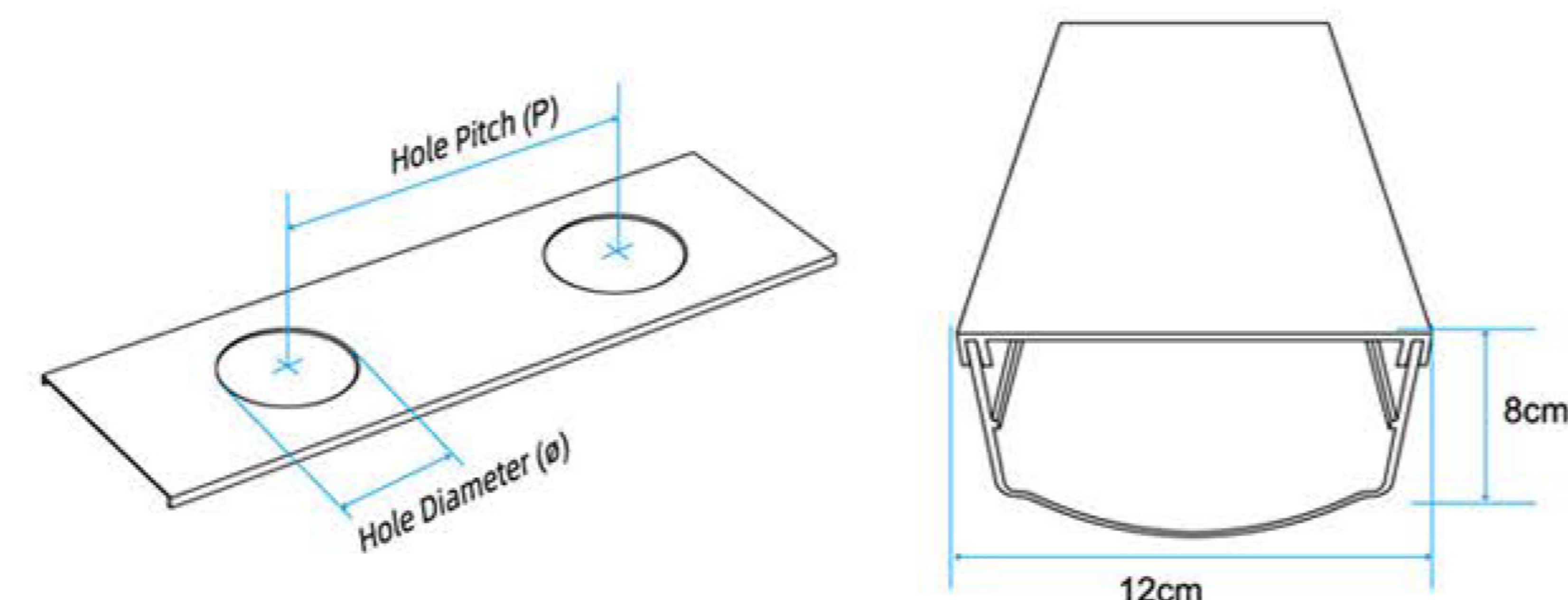


120x80

NFT CHANNEL FOR MELON AND FRUIT

PRODUCT SPECIFICATION

Size (WxH)	12x8cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc



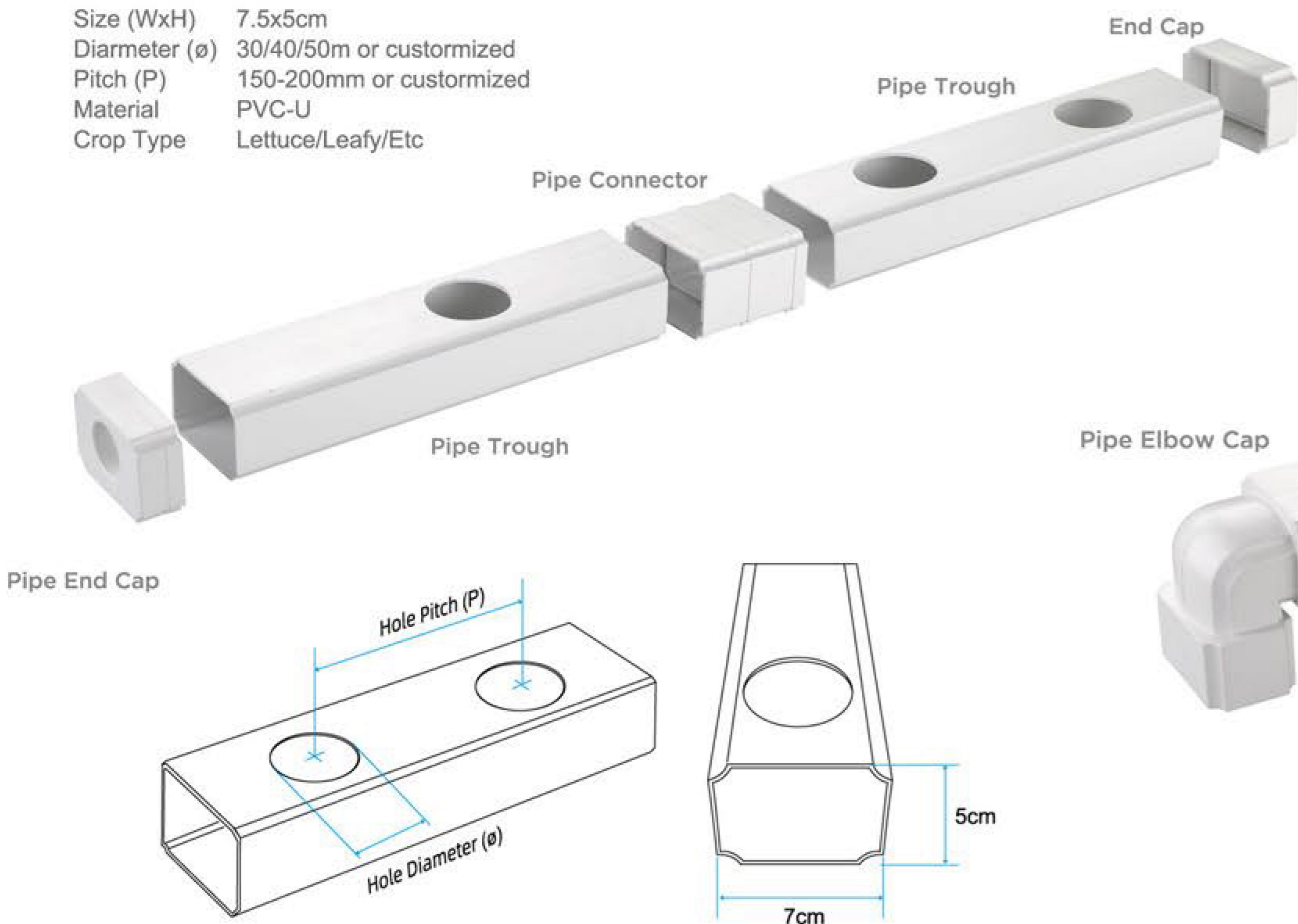
Channel Engineering

75x50

PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	7.5x5cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

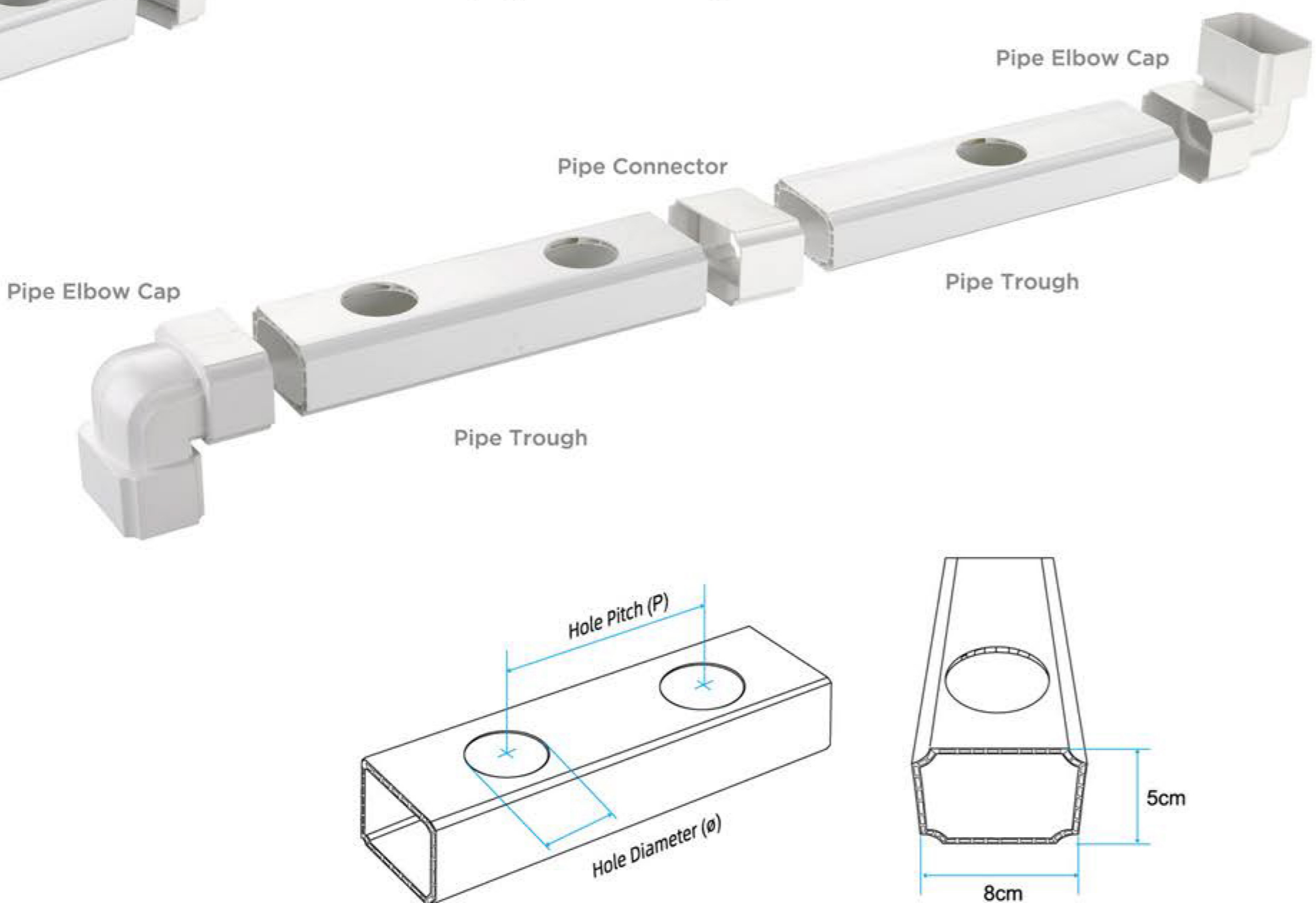


80x50

PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	8x5cm
Diarmeter (ø)	30/40/50m or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc



Free
Combination



Soilless
Culture



Natural
Lighting



PVC

Non-toxic



Environmentally
Friendly

NFT CHANNEL CASE APPLICATION



NFT CHANNEL CASE APPLICATION



AQUAPONICS

How to achieve aquaponics
Various cultivation modes meet different needs



1

Suitable for growing all kinds of vegetables, planted in the matrix such as pottery. The substrate acts as a biochemical filter and solid state. Nitrifying bacteria grow on the surface of the substrate and are responsible for biochemical filtration and solid fertilizer filtration.



2

Suitable for leaf and some fruit, vegetables. Vegetables are grown on water tanks that are held up by floating materials such as foam. The roots of the vegetable extend down through the holes into the water to absorb nutrients.



3

Using PVC pipe as a planting carrier, nutrient water is pumped into the PVC pipe. The plants are fixed by the planting basket and planted in the opening above the PVC pipe, allowing their roots to absorb water and absorb nutrients. This method is mainly used for leafy vegetables.



4

The water for fish cultivation is sprayed directly into the root system of the plant after atomizing to achieve the purpose of nutrient absorption. This method is also mainly used for leafy vegetables. Before spraying, the water needs to be fully filtered and purified to avoid clogging the spray device.

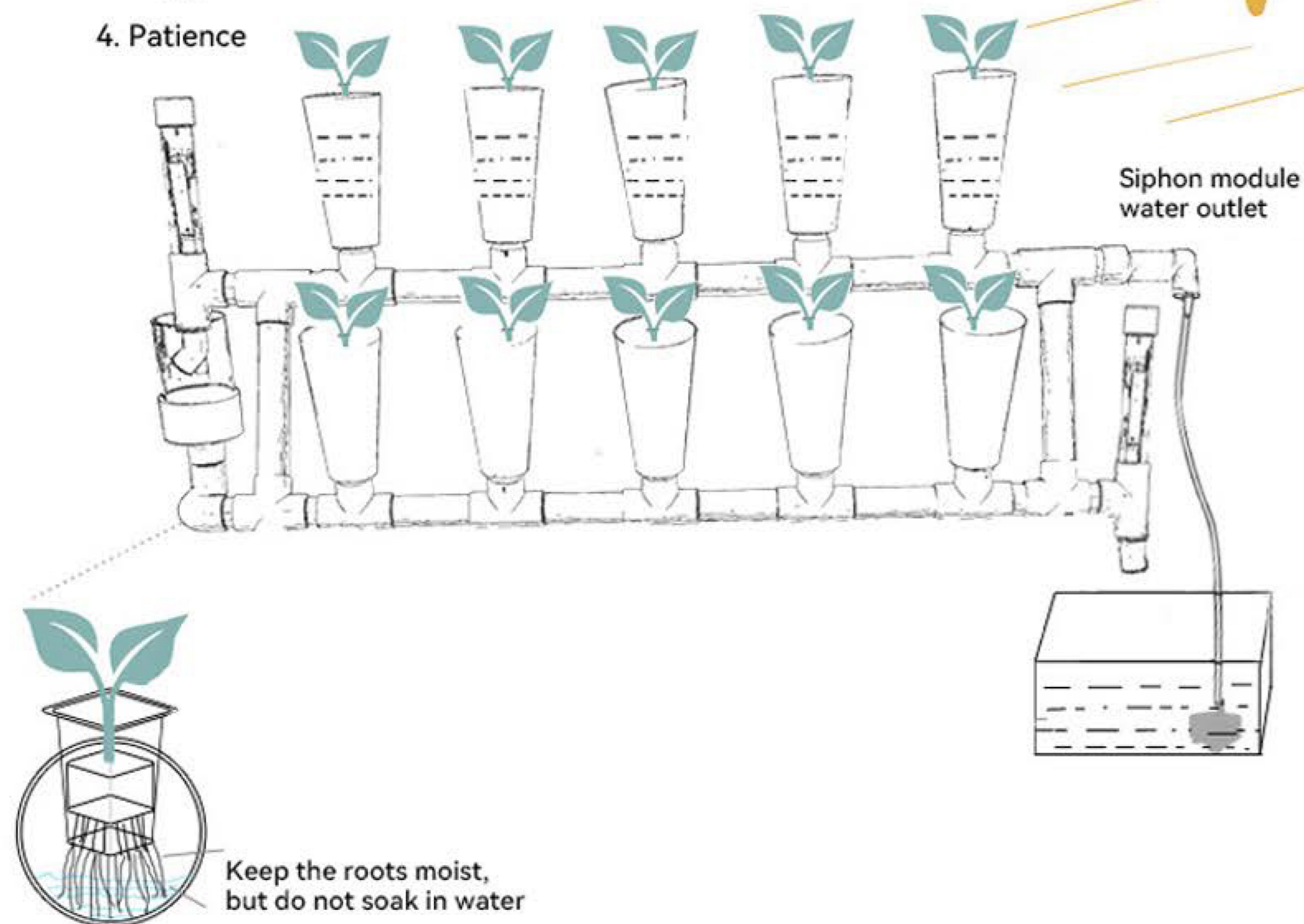
AQUAPONICS

Siphon System - Tide planting cup

Four necessary conditions:

1. Lighting (or use suitable plant lamps instead)
2. Nutritional composition
3. Oxygen
4. Patience

1. More than 4 hours of light per day

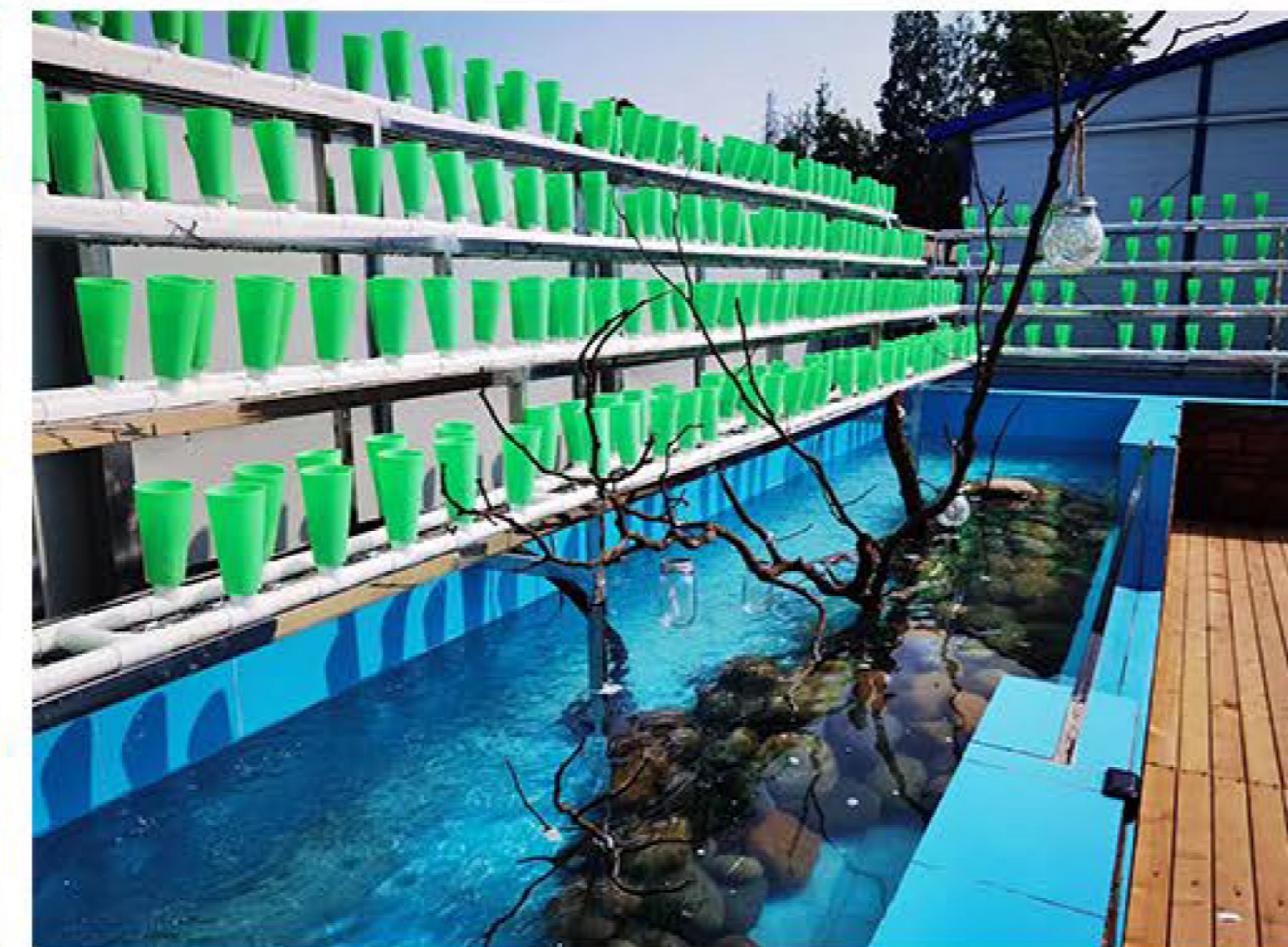



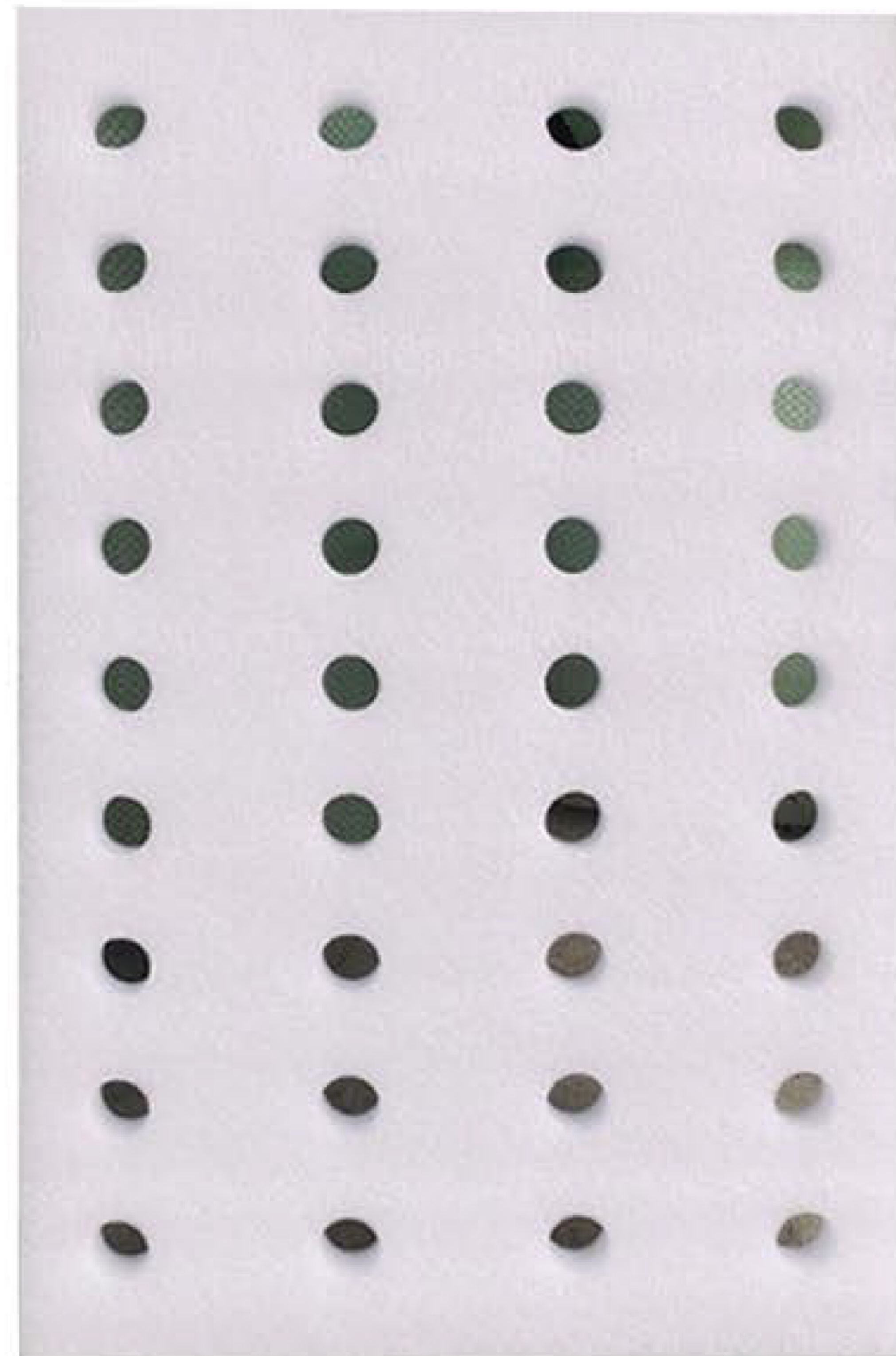
Working principle: Electric water supply through a water pump, drainage using the siphon principle (the flow rate of the water supply is less than the flow rate of the drainage water)



AQUAPONICS

Siphon System - Tide planting cup





X36



X36

Large quantity supports customization

Size: 36cm * 56cm * 3cm (thickness)

One set includes: 36 holes (25mm aperture)+baskets (36 pieces)+sponges (36 pieces)

Characteristics: Corrosion resistance

Application scenario: Home gardening

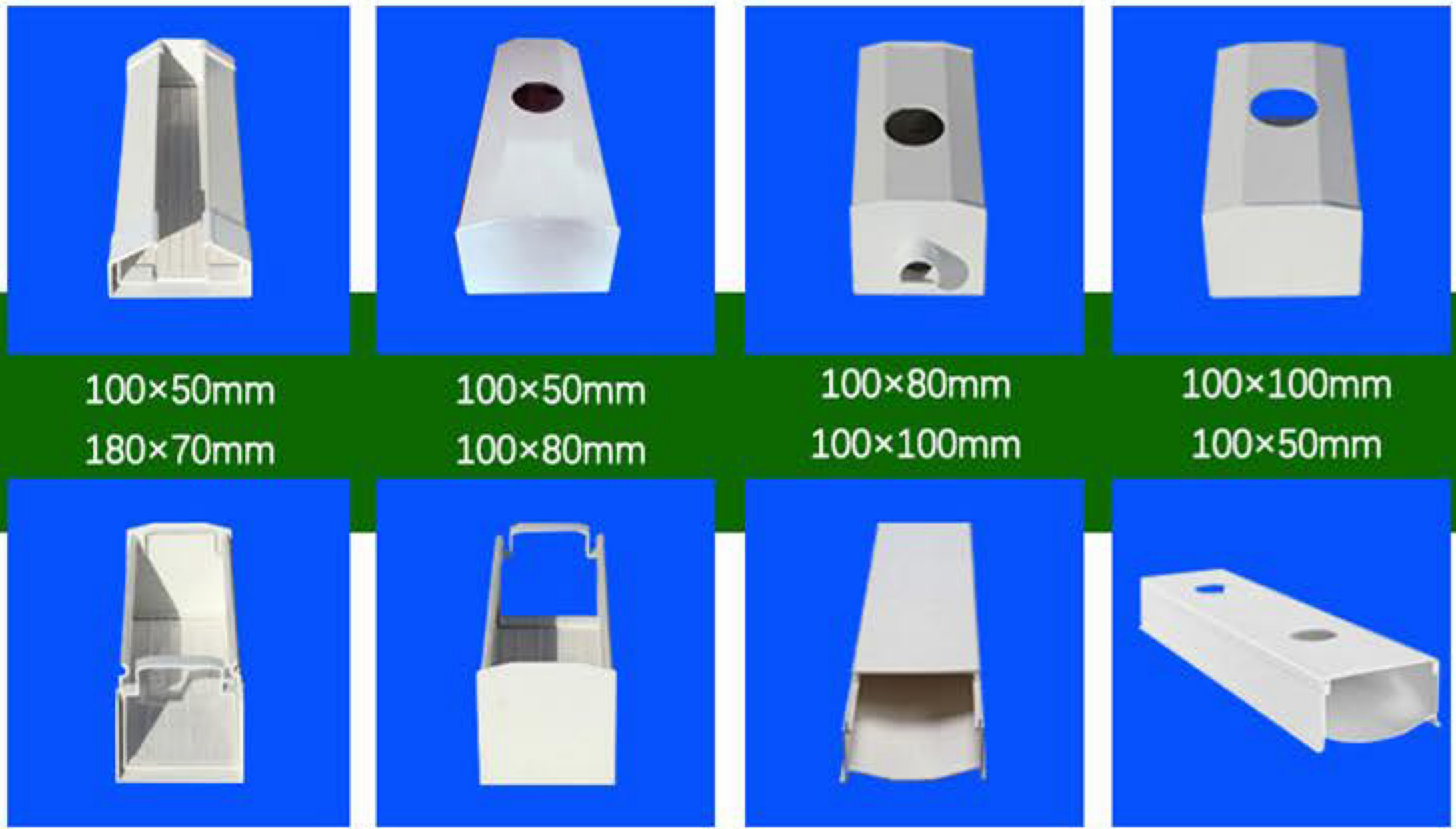


AQUAPONICS

Soilless cultivation hydroponic tube
Fish and vegetable symbiotic planting tube



4m long, 1.45m wide, and 1.5m high
Sizes can be customized



Miilkiia Agriculture



Email: info@miilkiiagrow.com
Whatsapp & Tel: +86 15968966470
Website: <https://www.miilkiiagrow.com>



Miilkiia Grow



Miilkiia Agriculture



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