

Mapal Soiless Growing Technology



Mapal Growing Technology

Mapal specializes in solutions for the hydroponics - soilless growers, enabling them to collect, re-use and/or recycle the drainage water & nutrients.

Mapal Agro division is involved in the developing & innovation of the needed soilless growing technology, offering the growers high quality, low cost and long lasting, efficient solutions.

Mapal Technology



Mapal Growing Technology

Mapal's products are very durable and especially treated to be UV resistant as well as resistant to steam sterilization (MPS), chemicals and acids.

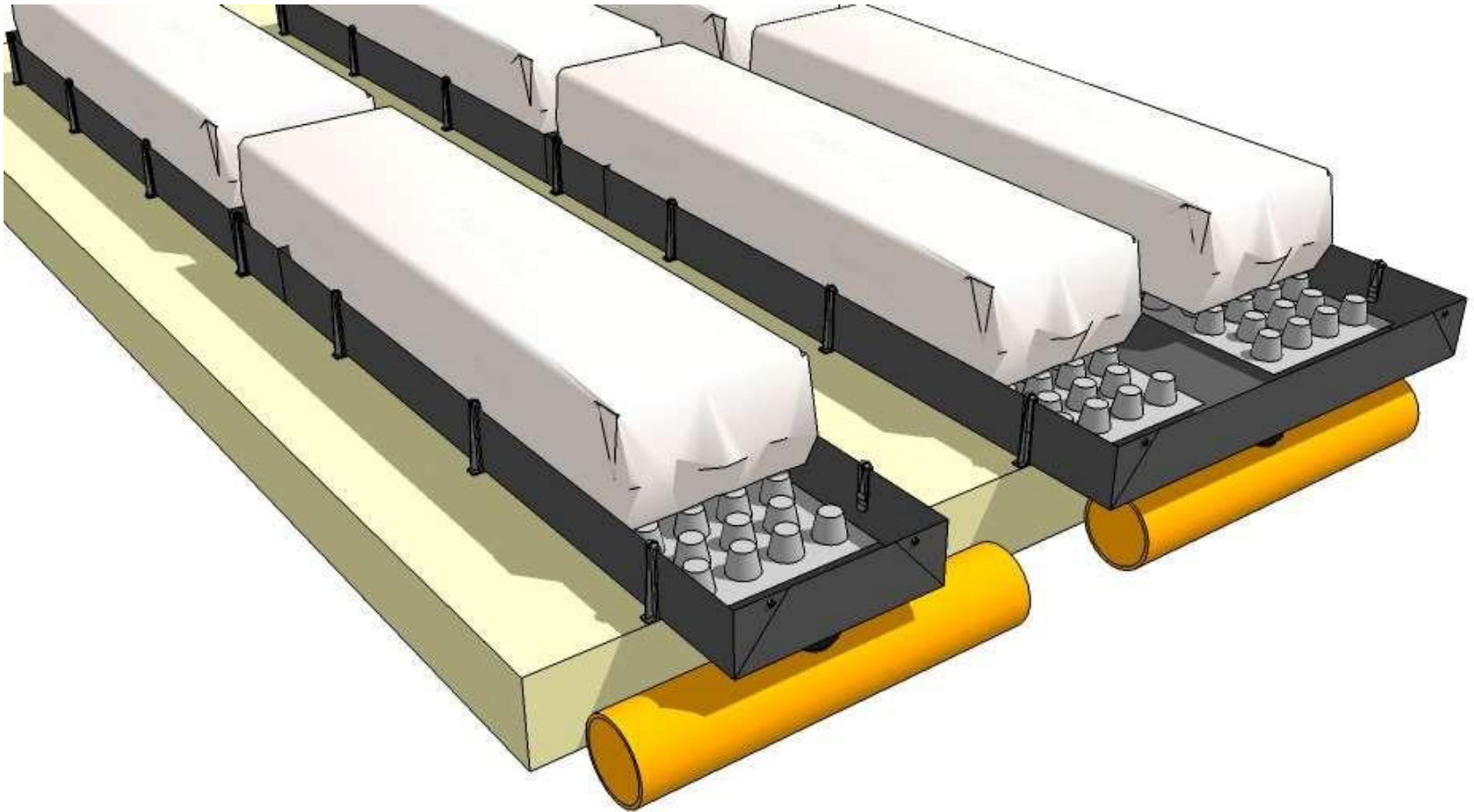
Mapal's troughs are suitable for all kinds of substrates such as volcanic soil, coir - coco peat, peat, perlite, rock wool and others.

The troughs are offered in flexible dimensions (length, width, depth and thickness) suitable for any drainage system and easily assembled to best serve the growers' needs.

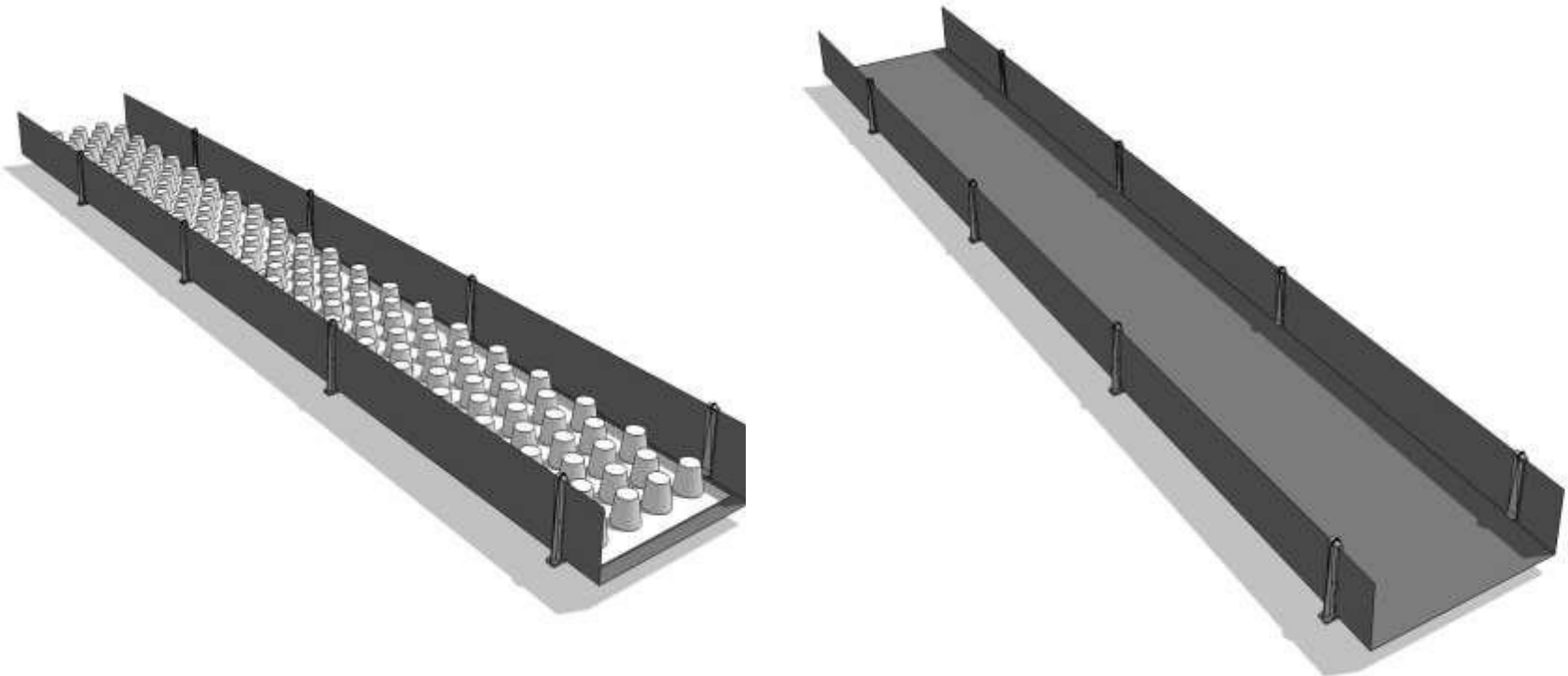
Mapal Technology –Vegetables in Grow Bags



Mapal Technology – Vegetables in Grow Bags



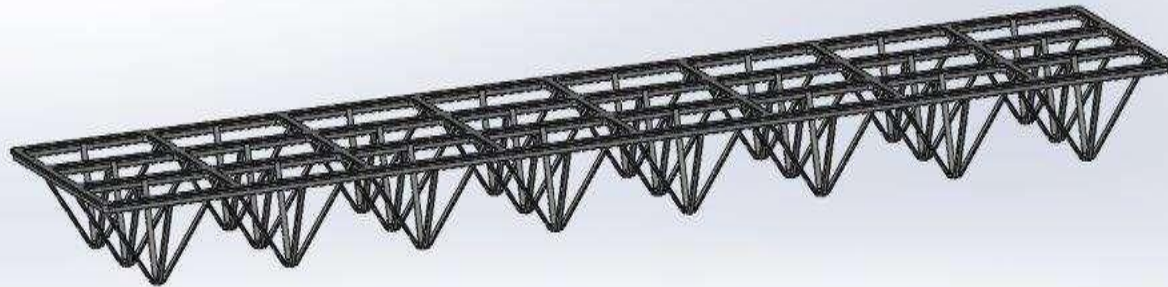
Mapal Technology – Vegetables Drainage Gutters for Grow Bags



Mapal Technology – Vegetables the spacers shape 25 mm height



Mapal Technology – Vegetables the spacers shape 60 mm height



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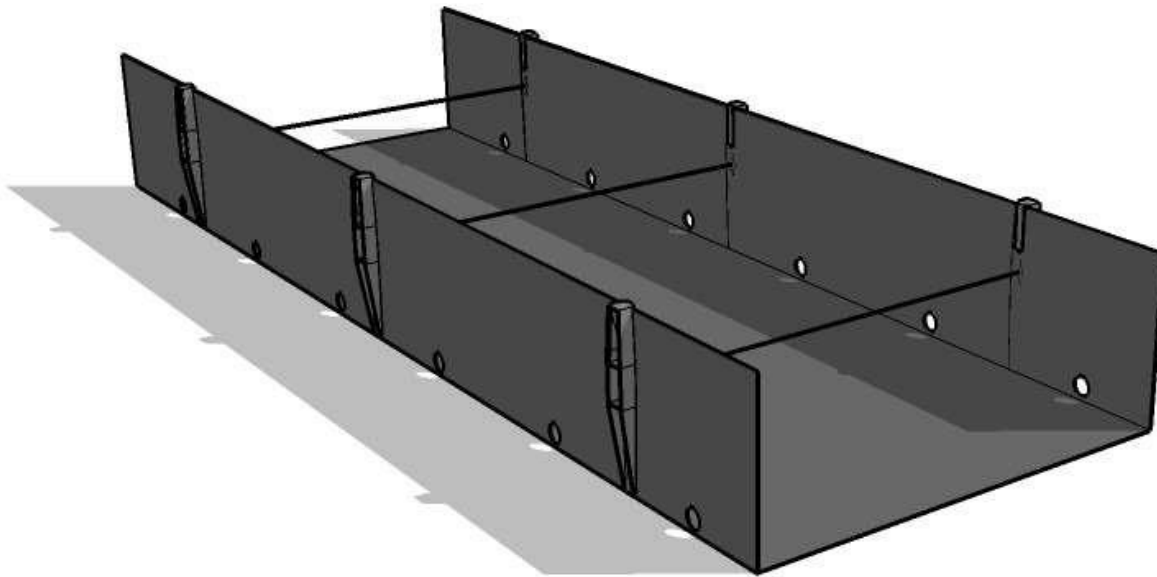
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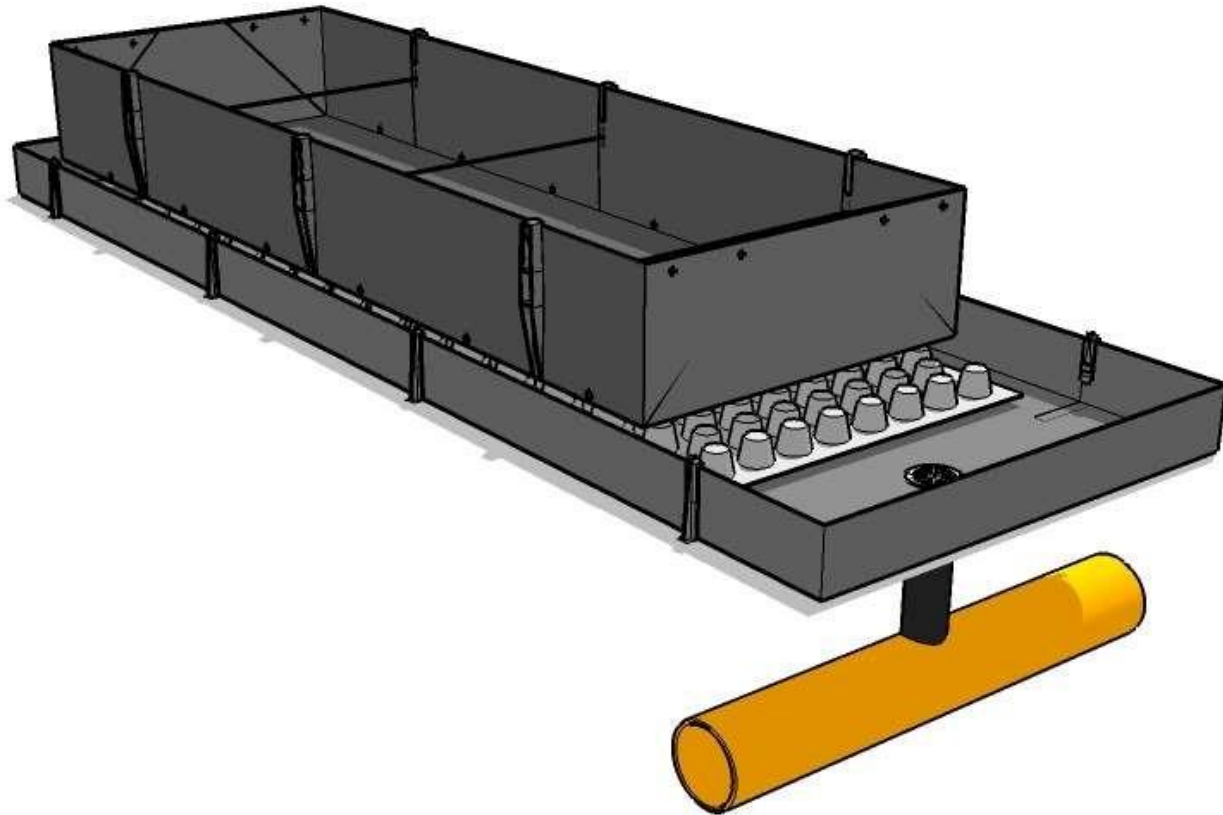
Mapal Technology – for Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



Mapal Technology - Vegetables



using Mapal soilless technology

- Enables growth in areas where the drainage system is problematic and does not allow normal growing conditions
- Enables use of a wide range of substrates, including disease depressing substrates which allows for better plant growth
- Enables the use of special minerals and organic fertilizers available to the plants only under these specific conditions



using Mapal soilless technology

- Enables growth without weeds, and soil born diseases
- Enables Monoculture conditions
- Enables crops growth over a long period of time
- Enables a good way to sterilize the substrates between seasons, when needed

Mapal Technology – Open Fields other advantages of soilless cultivation systems

- Improved control of the PH & EC levels in the roots zone
- The plants can absorb fertilizers and/ or organic feeding materials which are unavailable to the roots under normal PH soil conditions
- Better drainage system and a better control on the drainage quality and quantity levels.

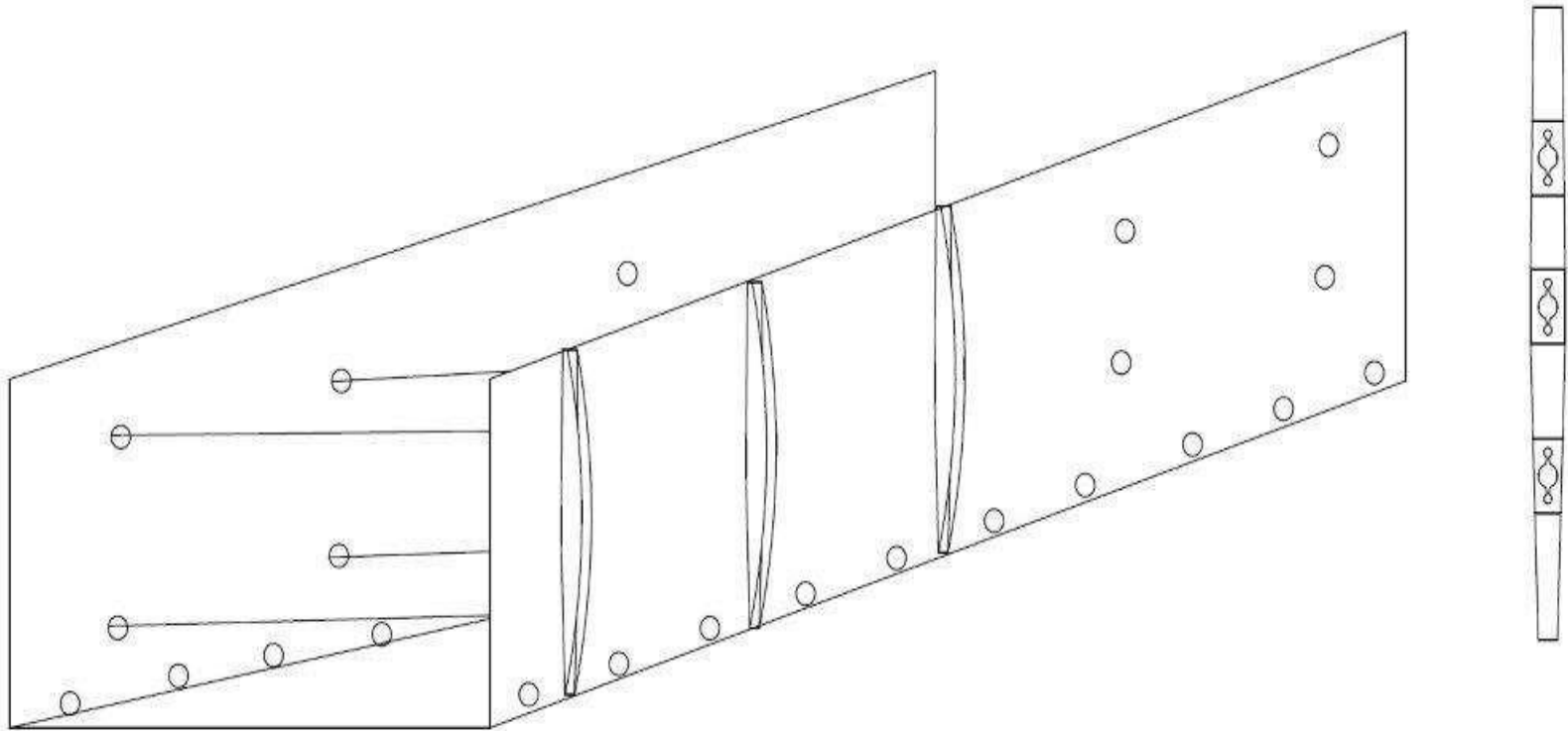
Organic Soilless Growing Systems



The Organic regulations in different places in the world
is very different.

In the Americas, growers are allowed to grow
Organic Fruits & Vegetables
using soilless culture systems

Organic Soilless Growing Systems



The troughs for the Organic growing system
Is usually 30-60 cm width
And 30-40 cm height



Organic Soilless Growing Systems

A lot of farms in the American areas are growing nowadays fruits and vegetables using organic growing methods

In most places, while growing organic, the income to the growers is much higher than the income the grower gets for regular non organic produce

Organic Soilless Growing Systems



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Organic Soilless Growing Systems

The Economic Issue

From our experience in different areas world wide

The yields are better in the soilless growing systems

The quality of the fruits is better too

Organic classified fruits do get prices that are higher than regular fruits

Therefore the return on their total investment is quicker than planned



Mapal Soilless Growing Technology

Mapal Plastic

Agricultural products division

Mevo Hamma, 1293400 Israel

Tel: +972 4-6764784 / 555 / 754

rubzvi@mapalplastics.com cell: [+972 528695355](tel:+972528695355)

Erick@mapalplastics.com cell: [+972 523677299](tel:+972523677299)

web: <http://www.mapalagro.com>