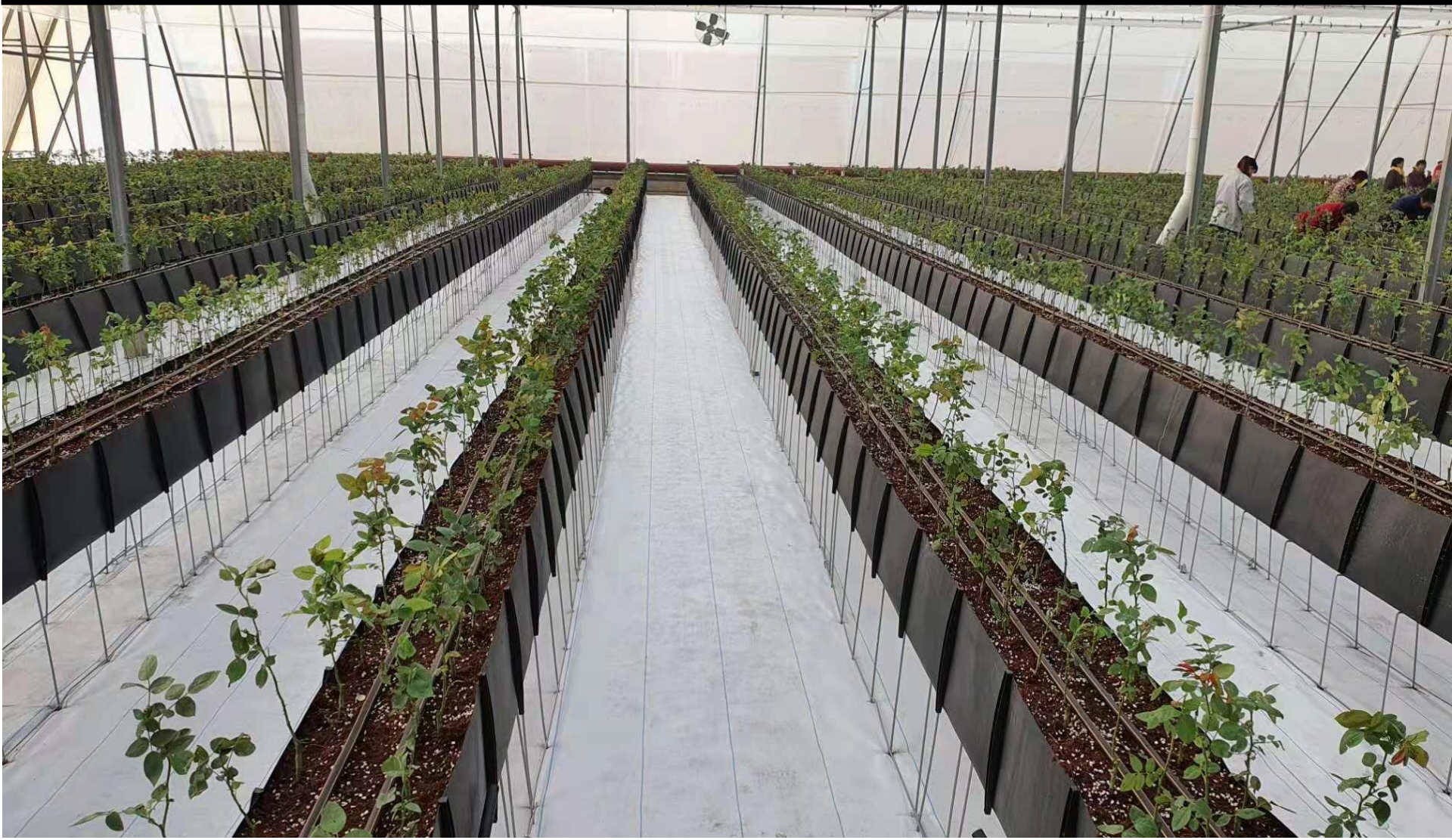


MAPAL GROWING SYSTEMS – ROSES & OTHER CUT FLOWER



MAPAL TECHNOLOGY & PRODUCTS - ROSES



Mapal trough system has been in use in the Roses Industry

for many years. Troughs used for Roses are troughs without drainage holes. The drainage & nutrients are collected from Mapal troughs in the end of every row to be recycled or reused.

The Roses troughs growers use are mainly in dimensions that are

20-40-20

25-40-25

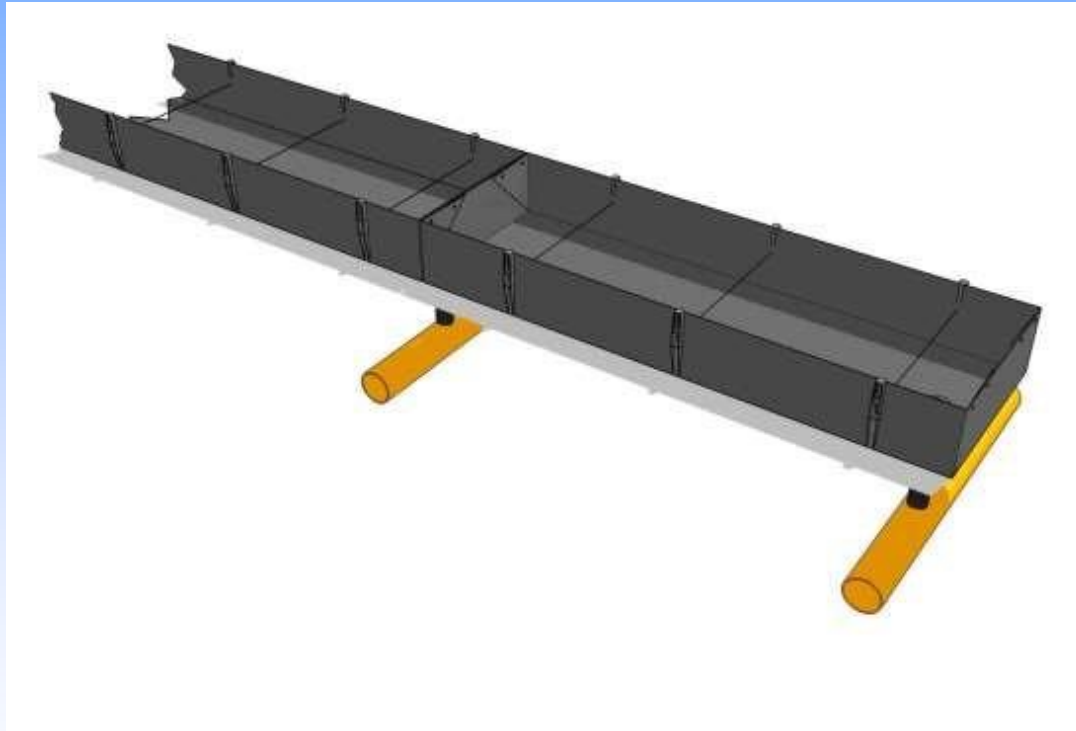
30-30-30

30-40-30

30-60-30

MAPAL TECHNOLOGY & PRODUCTS - ROSES

MAPAL'S TROUGH SYSTEM WITHOUT DRAINAGE HOLES

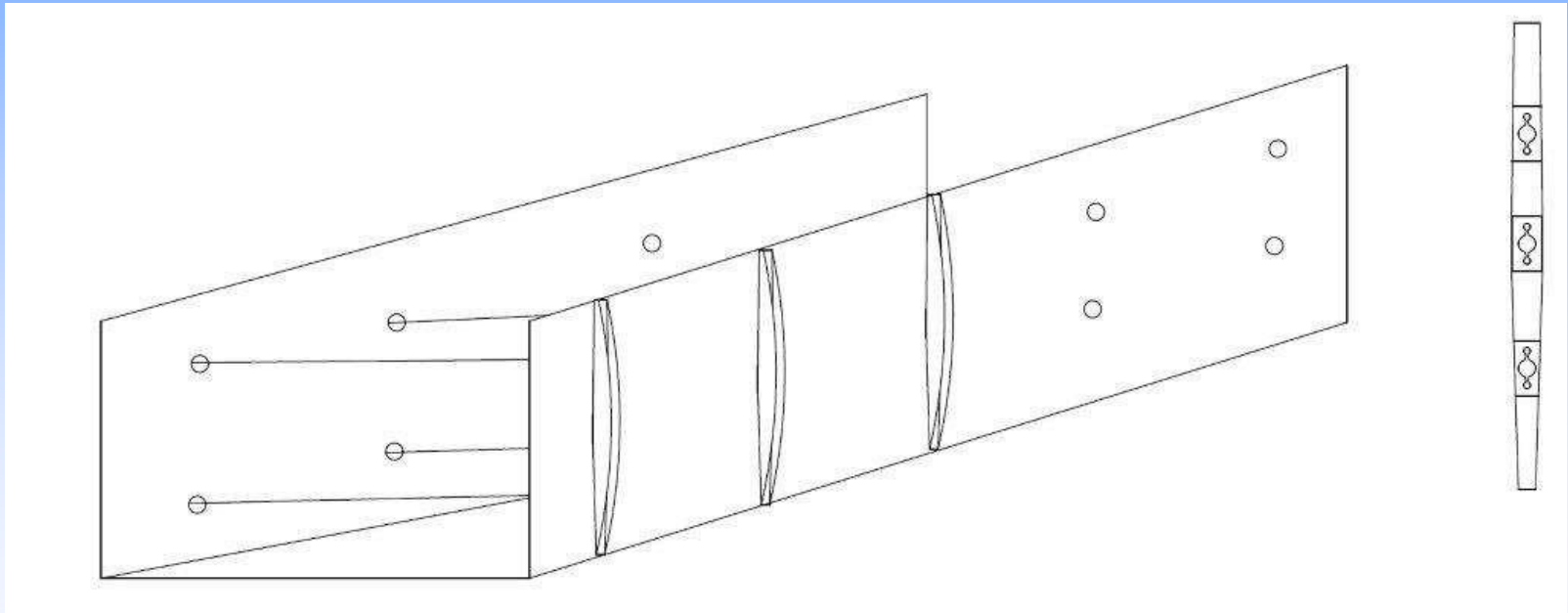


RECOMMENDED FOR GROWING ROSES
OPTIMUM SIZE: WIDTH 30-40-60 CM, HEIGHT 20-30 CM,



MAPAL TECHNOLOGY & PRODUCTS - ROSES

MAPAL'S HIGHER TROUGH SYSTEM WITHOUT DRAINAGE HOLES
ARE USUALLY 30 CM HEIGHT. THEY INCLUDE 2 LACES & 30 CM PEGS



RECOMMENDED FOR GROWING ROSES
OPTIMUM SIZE: WIDTH 30-40-60 CM, HEIGHT 30 CM

MAPAL TECHNOLOGY & PRODUCTS



The Roots System in the Trough

Roots are not confined. They are able to build themselves along the trough, few meter to every direction



The Drip Line system in Mapal Troughs

**Growers are using regular drip lines in Mapal trough system.
Therefore, along the trough, there are a lot of drip points.
Water and Nutrients are running along the Troughs
fully available to the plant roots**



THE WATER DISTRIBUTION METHOD IN THE SOILLESS GROWING SYSTEM

**WHEN THE TROUGH IS "HIGHER"
MEANING 30 CM INSTEAD OF 20 CM**

**THE HYDRAULIC DISTRIBUTION
OF THE WATER IN THE TROUGH
IS BETTER**



MAPAL TECHNOLOGY & PRODUCTS

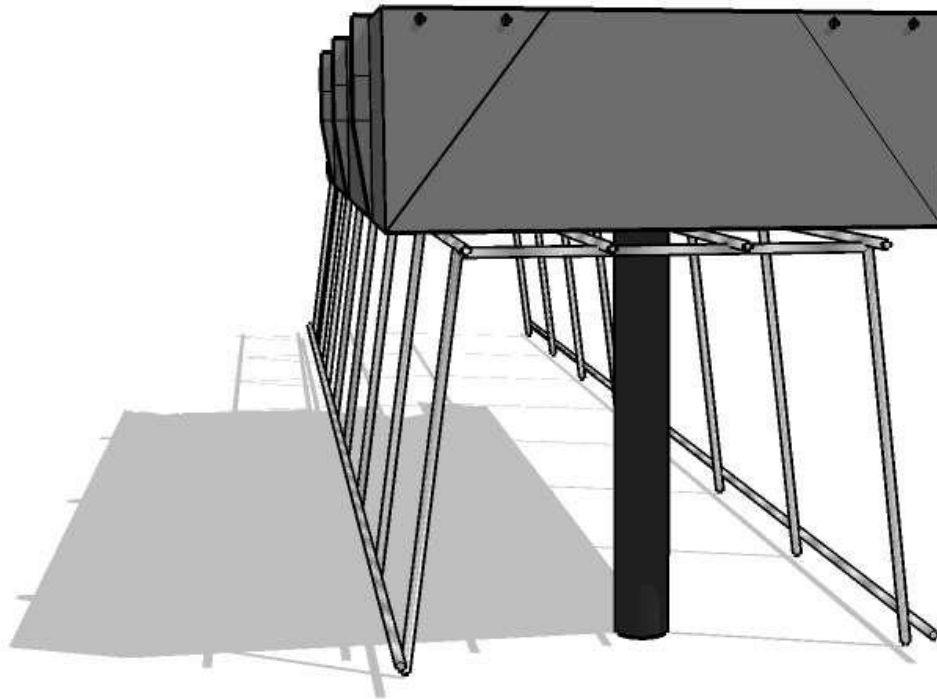


MAPAL TECHNOLOGY & PRODUCTS



MAPAL TECHNOLOGY & PRODUCTS

MAPAL TROUGH ON A METAL ELEVATION



MAPAL TECHNOLOGY & PRODUCTS

MAPAL'S TROUGH ON ELEVATION



MAPAL TECHNOLOGY & PRODUCTS



MAPAL TECHNOLOGY & PRODUCTS



MAPAL TECHNOLOGY & PRODUCTS





MAPAL TECHNOLOGY & PRODUCTS

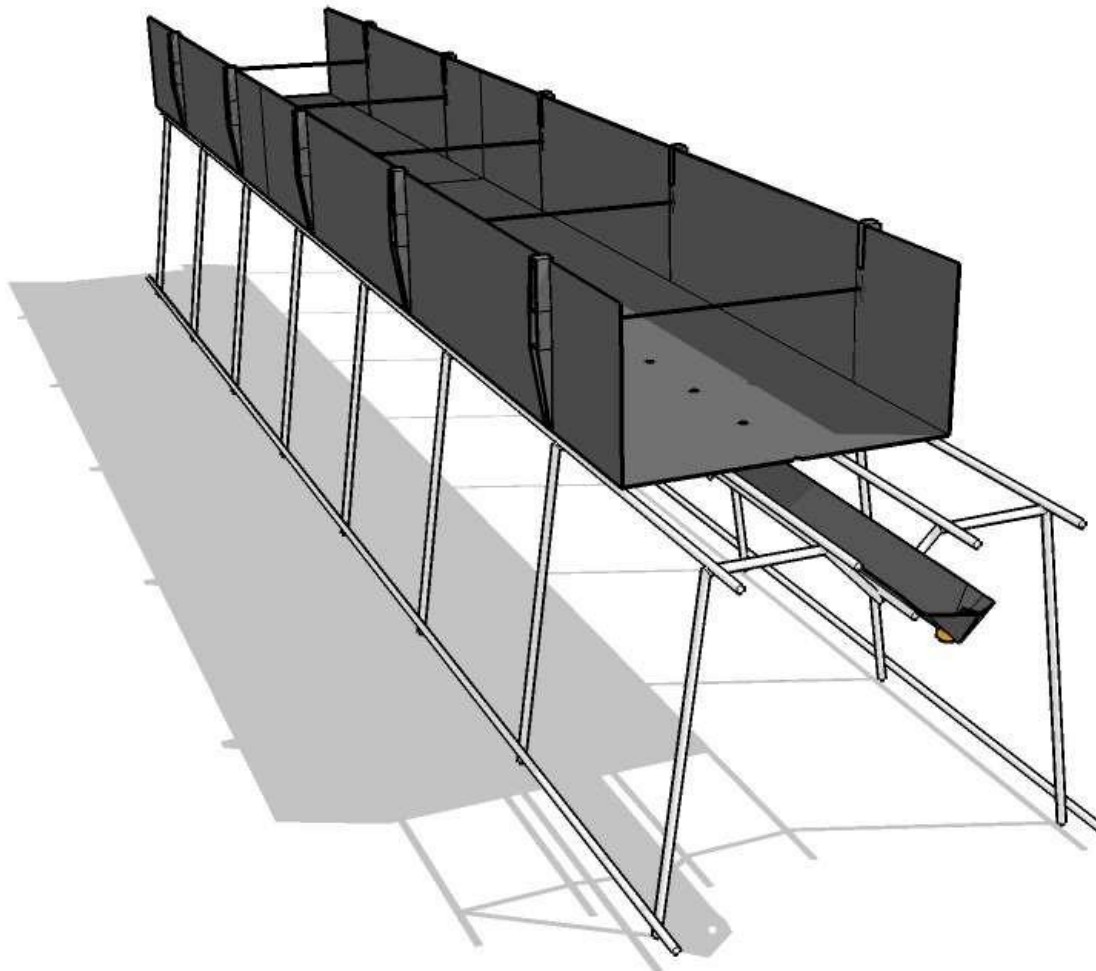


MAPAL TECHNOLOGY & PRODUCTS



MAPAL TECHNOLOGY & PRODUCTS

MAPAL'S TROUGH ON A METAL ELEVATION + V DRAIN GUTTER





MAPAL TECHNOLOGY & PRODUCTS



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DATA ABOUT GROWING ROSES ALL OVER THE WORLD

The 3 main locations growing roses nowadays in the world are :

EAST AFRICA – KENYA, UGANDA, TANZANIA, ETHIOPIA and more

SOUTH AMERICA – COLOMBIA & ECUADOR

CHINA – all over China. YUNAN Province is the flower capital of China

You can find other areas of Roses grown in the world but in other quantities:

INDIA / HOLLAND / EAST EUROPE / JAPAN and THE FAR EAST

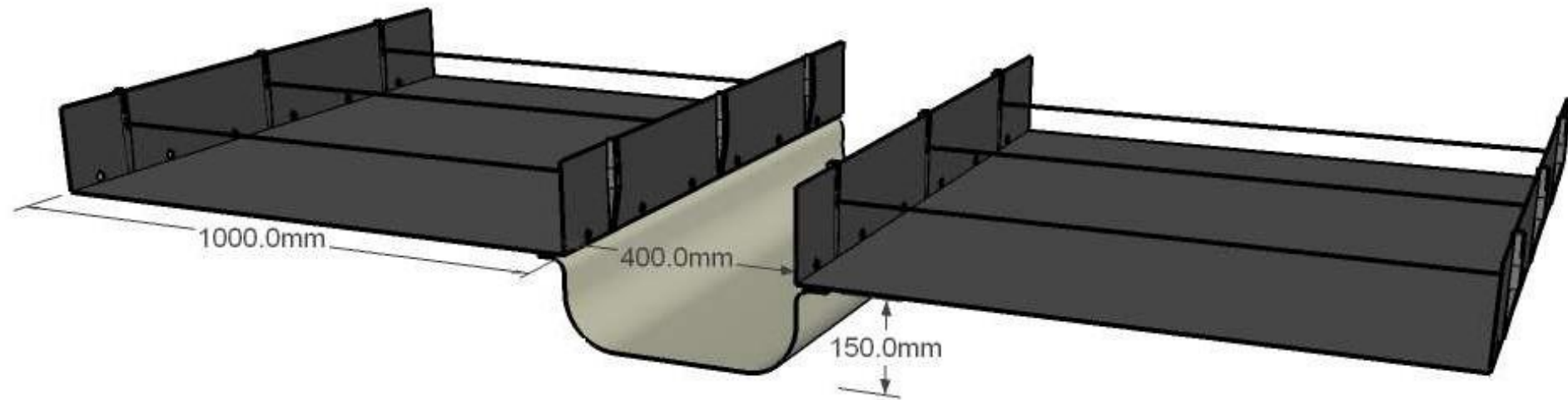
MAPAL TECHNOLOGY & PRODUCTS

OTHER CUT FLOWERS



MAPAL TECHNOLOGY & PRODUCTS – other Cut Flowers

**MAPAL'S TROUGH SYSTEM WITH DRAINAGE HOLES
IN BOTH SIDES**

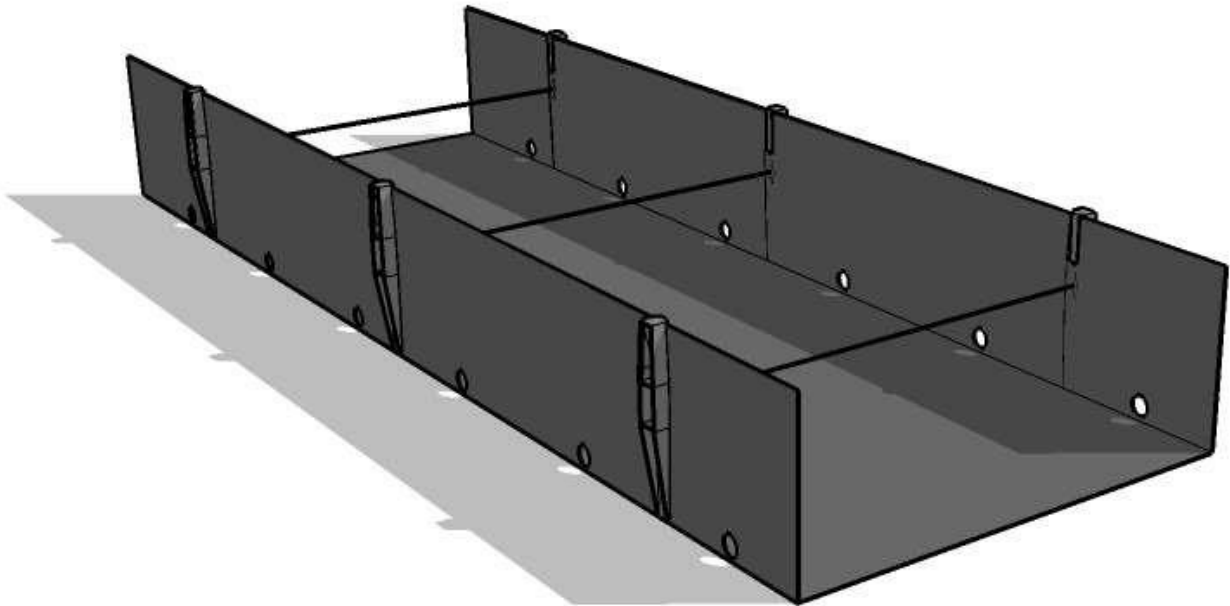


RECOMMENDED FOR GROWING DIFFERENT CUT FLOWERS
OPTIMUM SIZE: WIDTH 80 - 1000 CM, HEIGHT 20 CM



MAPAL TECHNOLOGY & PRODUCTS

OTHER CUT FLOWERS



MAPAL TECHNOLOGY & PRODUCTS

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MAPAL

SOILLESS CULTURE for Roses

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