

GrowWall

Planting Manual



Table 1. Available seeds approved by OPCOMFarm for GrowWall can be purchased on OPCOMFarm website.

No.	Name	Chinese Name
1	BASIL	甜罗勒
2	Oregano Origanum vulgave	奥勒岗
3	Parsley Petroselinium crispum	欧芹 (意大利欧芹)
4	Lemon Balm	香蜂草
5	Peppermint	胡椒薄荷
6	Boston Lettuce	波士顿莴苣
7	Lettuce Green Romance	绿萝蔓莴苣
8	Red Lettuce	红叶莴苣
9	Green Lettuce	翠妹莴苣
10	Edible Amaranth	白苋菜

● **Leafy vegetables also you can try:**

Arugula, Endive, Spinach, Tatsoi, Pak Choy, Chinese Mustard, baby Salad leaf.

Herbs: Spring onion, Celery, Coriander, Thyme, Chive...etc.

Planting Manual for leafy vegetables

A. Sowing Stage

1. Application appropriate volume of water into the seedling tray
2. Soak the sponges containing seeds into water until the sponges fill in with water. (If using seeds purchased yourself, place seeds into sponges and seal the remain seeds in bag tightly, store in the refrigerator).
3. You can cover the seedling tray with a black cloth to keep it in dark until seed germinate. In general, the seeds will germinate within 3-7 days (depends on the specification of seeds).
4. Remove the black cover once the seeds germinated.
5. Prepare the nutrition solution recommended by OPCOMFarm. Add appropriate volume of water to dissolve the powder.
Nutrition solution: Make sure that E.C. is 0.8-2.0 mS/cm and pH 5.5-6.5.
OPCOM Farm SUGGESTION: Nutrition solution may be used by OANT001
6. Transfer the plants to GrowBox2, power on machine and press LED and PUMP "ON".

B. Seedling Stage

1. Keep the healthiest and strongest seedling on each sponge will be suggested. Remove extra or weak seedlings on sponges carefully.
2. Fill the empty growing tray with sponges to reduce the algae growth effectively.
3. Adjust LED lights and keep distance to make sure that LED cover all plants.
4. Set the LED "on" and PUMP "on" during this stage.



Figure , Seedlings of various Lettuce on GrowWall.

C. Growing stage

1. When the seedlings grow to 3-4 inches height, change control box to AUTO mode.
2. Measure the E.C. and pH at least once a week, adjust to optimal growth condition for better result.
3. Some plants, such as cucumber, peas or beans, you can plant next to the posts and twist the plant along with it carefully during the growing stages. (once a week)



Figure . Growing stages of lettuce on GrowWall.

D. Harvest

1. In general, you can expect to harvest the leafy crop within 4-6 weeks after sowing the seeds.
2. Some crops, such as coriander, basil, can continue growing after harvesting, there is no necessary to grow after each harvesting.



Figure . Harvesting stages of leafy vegetables.

Planting Manual for Grass Flowers

A. Sowing Stage (Otherwise you can also use cutting instead of skipping this step)

1. Application appropriate volume of water into the seedling tray.
2. Soak the sponges containing seeds into water until the sponges fill in with water. (If using seeds purchased yourself, place seeds into sponges and seal the remain seeds in bag tightly, store in the refrigerator).
3. You can cover the seedling tray with a black cloth to keep it in dark until seed germinate. In general, the seeds will germinate within 3-14 days (depends on the specification of seeds).
4. Remove the black cover once the seeds germinated.
5. Prepare the nutrition solution recommended by OPCOMFarm. Add appropriate volume of water to dissolve the powder.
Nutrition solution: Make sure that E.C. is 0.8-2.0 mS/cm and pH 5.5-6.5.
OPCOM Farm SUGGESTION: Nutrition solution may be used by ONAT001.
6. Transfer the plants to GrowBox2, power on machine and press LED and PUMP "ON".

B. Seedling Stage

1. Keep the healthiest and strongest seedling on each sponge will be suggested. Remove extra or weak seedlings on sponges carefully.
2. Fill the empty growing tray with sponges to reduce the algae growth effectively.
3. Adjust LED lights and keep distance to make sure that LED cover all plants.
4. Set the LED "on" and PUMP "on" during this stage.

C. Growing stage

1. When the seedlings grow to 1-2 inches height, change control box to AUTO mode.
2. Measure the E.C. and pH at least once a week, adjust to optimal growth condition for better result.
3. Some plants, such as cucumber, peas or beans, you can plant next to the posts and twist the plant along with it carefully during the growing stages. (once a week)



Figure , Several grass flowers grow on GrowWall

D. Harvest

1. In general, you will expect to harvest the grass flowers within varying weeks from 2-4 months after sowing the seeds according to the species.