



## Benefits Of Living Walls

- Aesthetically Pleasing
- They provide growing space for smaller urban gardens
- Absorb outdoor air pollutants, such as Co2
- Improves indoor air quality by removing harmful VOC's like formaldehyde and benzene
- Helps mitigate sick building syndrome
- Contributes to LEED certification points
- Cools and insulates the building envelope; helping to reduce heating and AC costs
- Absorbs sound; acting as a sound barrier
- Increases the lifespan of a building's envelope by protecting it from UV rays and thermal expansion and contraction
- Can be used to capture and filter rainwater
- Helps reduce the Urban Heat Island Effect up to 75 degrees when compared to bare surfaces

## 5 MAJOR STYLES OF WALLS

- Hydroponic
- Pocket
- Modular
- Panel
- DIY

## Hydroponic



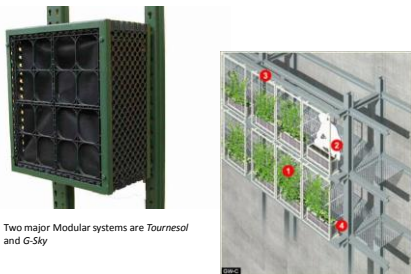
Two major manufacturers of hydroponic walls are Green Over Gray and Green Fortune

## Pocket



Two major pocket companies are Woolly Pockets and Plants on Walls

## Modular



Two major Modular systems are TourneSol and G-Sky

## Panel Systems



Elevated Living Technologies (ELT) Plastic Panel

## Green Living Technologies (GLT) Stainless or Aluminum Panel

• The Green Living™ Wall panels are able to control the flow of water through every cell for even saturation. The patented cell configuration provides superior drainage and free root migration holding the growing media while still allowing for the maximum green surface area. Unlike others our plants do not suffer from root rot and become root bound in a small cell.

• Available in standard 1 and 2 foot increments or custom manufactured as per specification. Both pre-grown and non pre-grown options are available.

• Choose the depth in relation to your plant material. (3" to 6")





### Small Scale



### DIY

### Soil

- Soilless wall mixes on the market
- Peat Bricks
- Modified soilless mix

Media choice depends on...

Plant choice (succulents, Veggies etc.)

Location the wall is being installed (Concrete, drywall etc.)

### PLANTING



### 3 Ways to Plant

- Seed - Best for Veggie Wall especially Lettuce
- Plug- Annuals, Perennials and Vegetables. This technique works only if you have 3 or more weeks to grow out the wall.
- 4"Pot - Most likely how you will end up planting a wall. Annuals, Perennials and Vegetables. This option is instant and the plant material is usually large enough to hold itself into the wall. I suggest using Rock Wool and Moss.

### How It Should Be Done

- Fill the Panel with soilless mix
  - Set the plants (plugs) on the Panel per your design
  - Using hand or bulb planter make holes in the cells and pop the plants in, packing soil around.
  - Water in
- In a greenhouse
- Allow 2-3 weeks horizontal
  - Allow 2-3 weeks at 45 degree angle to allow plants to begin to grow vertical
  - Mount and install irrigation

## How You Will Probably Do IT (Outdoor)

- Fill Panel with soilless mix
- Arrange 4" Plant material, per your design, on the panel
- Using hand or bulb planter pop plants in and pack around
- Water in
- Using sheet moss tuck each plant in its cell covering all soil. This will help hold the soil in and cover the soil until the plant grows in for an instant look.
- Mount

Note: For Annuals you can pack 6" material in for an instant look. For Perennials, I recommend no larger than 4" unless bare root.

## How you will Probably Do IT (Indoor)

- Fill Panel with soilless mix ½" below the lip of the cell and pack
- Cut Rock Wool to fit each cell (4x6" for GLTI) and ½" thick
- Fit the Rock Wool into each cell
- Cover each panel with sheet moss using 3" sod or weed cloth staples to hold
- Arrange your plants per your design
- Cut holes for plants in the Moss and Rock Wool just like you would in weed cloth
- Make sure everyone is tucked in
- Mount and irrigate



Mechanical



Hotel Intercontinental

.250 Drip Line



## Woolly Pocket Garden





## Pit Falls and Problems

- Cost \$\$\$
- Irrigation
- Plant selection and placement (anticipate thug behavior)
- Replacements
- Root Systems (Succulents and Grasses)
- Water Crystals
- Root Rot
- Anaerobic conditions in Hydroponic
- Poor tech support from many systems



Poor Plant Choice



System Failure



All Sorts of Bad



Trevor Smith  
 617-308-7063  
 trevscape@comcast.net  
 www.everydaygetaway.com