



BEN HUTCHINSON
LANDSCAPES

Green Walls

More plants into small spaces

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Whitehorse City Council
Presentation notes

Benefits

- Can reduce the radiant heat on a wall
- Reduces urban heat island effect and smog
- Cleans outside air of pollutants and dust and offsets the carbon footprint of people and fuel emissions
- Cleans interior air space by removing VOCs and other harmful toxins like benzene and formaldehyde
- Acts as a soundproofing barrier
- Soil and plants are a natural filter that can clean the water that flows through the wall
- Insulates and cools the building envelope, as well as protecting it from the elements
- Creates habitats for birds and beneficial insects, increasing biodiversity
- Can be used for growing food in urban settings, creating sustainable and local control of food sources

Types

Mesh Walls

- Climbing plants that are allowed to grow up and spread along some form of mesh
- Mesh wall can also have decorative or Terracotta pots hung on them

Pocket Planters

- Generally uses two sheets of fabric, usually a felt or carpet underlay to create pockets to allow planting.

Pot Planters

- Most common form used nowadays.
- Most systems consist of pots that are mounted to either a sheet of steel mesh or come with their own mounting system.
- Examples – ElMich Versiwall, Vicinity Greenwall, Altantis 4 Green Wall

Irrigation

It's recommended that all vertical gardens are irrigated in some way, whether it's top irrigated or pot irrigated.

- Top irrigated – only the top row of pots is irrigated and the system is run for a longer period of time. With systems like the Vicinity Greenwall, the irrigation is run for 2 – 3 hours every few days.
- Pot irrigated – Every single pot is irrigated with their own emitter/dripper. This allows for shorter running times, usually 10 – 20 minutes every day.

Plant Selection

- There are so many plants that can be used in a vertical garden.
- Try to stick to plants that don't grow larger than half a metre. It will reduce the maintenance.
- Look for interesting colours and textures
- Examples :
 - Prostrate Rosemary
 - Oregano
 - Sage
 - Thyme
 - Strawberries
 - Mint
 - Tomatoes (small varieties like cherry)
 - Ferns
 - Lomandra
 - Small Dianellas
 - Chrysocephalum "Yorke Peninsula"
 - Heuchera

More information

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