



CONCEPT:

WallGreen is a hanging vertical garden made from recycled PVC vinyl that improves indoor air quality.

Modern buildings are built to be efficient and airtight, yet at the same time there are many materials in our environment that are continually off-gassing. Products such as cheap plastics, low-cost furniture, tennis shoes and carpet release volatile organic compounds (VOCs) and dioxins that can cause or worsen allergies, asthma, chemical sensitivity and even cancer.

Plants are inexpensive, natural air conditioners. Needing only light, water, and occasional feeding, plants are a cost-efficient way to add oxygen and humidity to the air while removing chemical pollutants.

By using specific plants known for their effective consumption of air pollutants, WallGreen is not only an aesthetic but also functional part of the interior, which helps to create healthy space.

PLANTS:



Epipremnum aureum
(Golden Pothos)

High levels of transpiration,
removal of vapors, easy care



Hedera Helix "Wonder"
(English Ivy)

High level removal of chemical
vapors, especially formaldehyde



Adiantum fragrans
(Maidenhair Fern)

Part of the fern family, known for
good transpiration rates



Belchnum gibbem
("Silver Lady" Fern)

High level removal of chemical
vapors, high transpiration

WALLGREEN



TECHNICAL DETAILS:

WallGreen is a concept and method rather than a product.

Any PVC banner with a minimum size of 600 mm high and 400 mm wide can be fabricated into a working product.

Measurements for this example:
2000 x 1000 x ca 100 mm.
Original banner was 2000 x 2000 mm.
Growing pockets are sewn to 160 mm deep.

Method:
Pockets are folded and sewn with standard thread along side seams and attached to the back layer at 300mm intervals.
Caulking at the side seams creates a watertight seal.

Growing medium:
Expanded clay
Coconut fiber potting mix



Original PVC banner

WALLGREEN