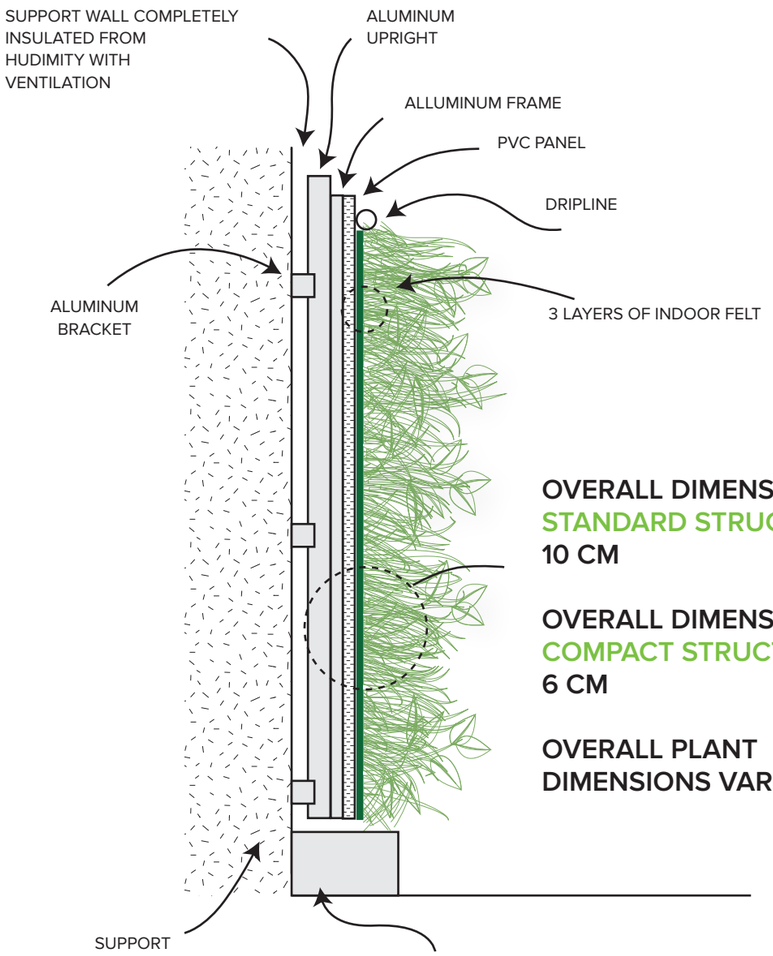
TECHNICAL DATA SHEET

INDOOR VERTICAL GARDEN
CLOSED CIRCUIT

SIDE VIEW



OVERALL DIMENSIONS OF
STANDARD STRUCTURE + PLANTS
10 CM

OVERALL DIMENSIONS OF
COMPACT STRUCTURE + PLANTS
6 CM

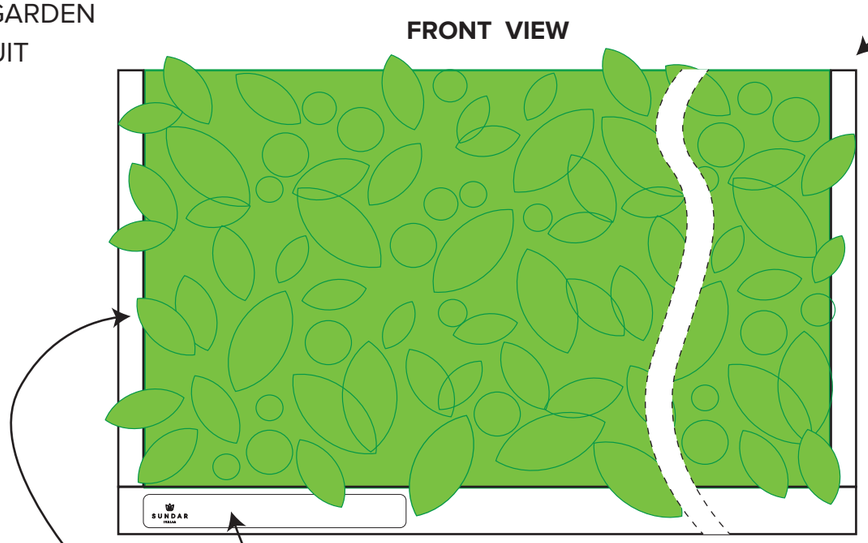
OVERALL PLANT
DIMENSIONS VARIES BY PROJECT

SUPPORT
WALLS IN :

- REINFORCED CONCRETE
- BRICK
- PLYWOOD
- PLASTERBOARD

ALUMINUM WATER
COLLECTING TANK PAINTED
WITH RAL CODE COLORS
WITH GRILL AND FILTERS
DIMENSIONS 120x150X LENGTH (MM)

FRONT VIEW



LATERAL BEAM IN PAINTED
ALUMINUM TO RUN TUBES
AND FOR SYSTEM
MAINTENANCE

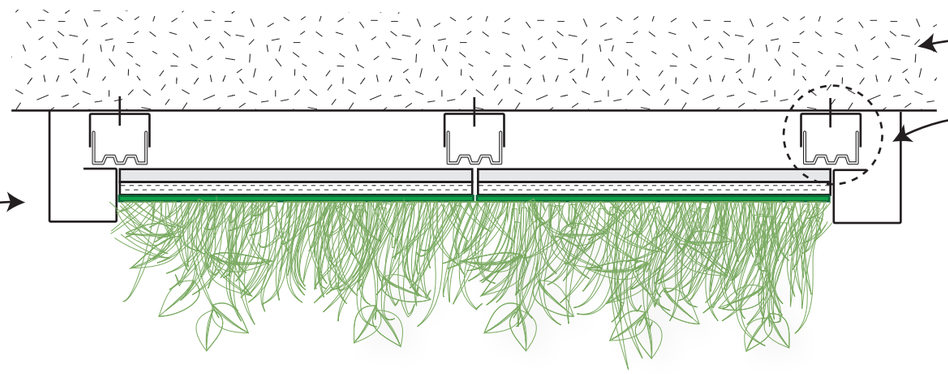
CONTAINMENT COMPARTMENT
IRRIGATION PUMPS WITH
FILTER AND PRE-FILTER

CONTROL UNIT BUILT INTO
SIDE BEAM

- IRRIGATION WITH PUMPS
- FERTILIZER IN TANK
- SANITIZER IN TANK
- REMOTE MANAGEMENT
- GSM / WIFI

ELECTRICAL SUPPLY 230V AC

VISTA IN PIANTA



SUPPORT
WALLS IN :

- REINFORCED CONCRETE
- BRICK
- PLYWOOD
- PLASTERBOARD

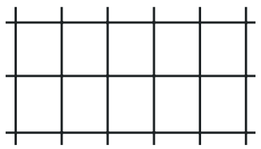
ALUMINUM
BRACKET AND
ALUMINUM
UPRIGHT

LATERAL BEAM IN PAINTED
ALUMINUM TO RUN TUBES
AND FOR SYSTEM
MAINTENANCE

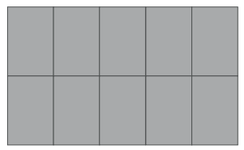
SUNDAR
ITALIA
GIARDINI VERTICALI

TECHNICAL DATA SHEET

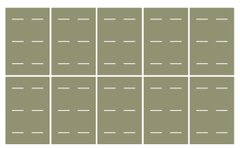
INDOOR VERTICAL GARDEN
CLOSED CIRCUIT



main structure in aluminum

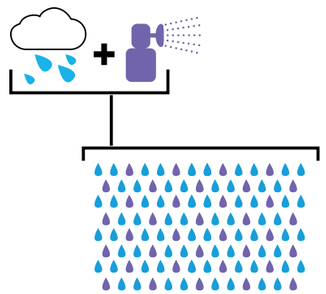


aluminum frame and structure in pvc

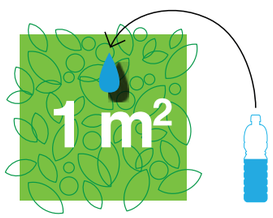


felt

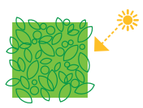
plants



fertilization/irrigation system
Daily water consumption
1/2 L* per day per 1 m²



Ecosystem services: urban scale effects



Urban Heat Island and Urban Canyons
The Living Wall limits the effects of wall and street surfaces that reflect solar irradiation and materials that absorb heat, also thanks to plant evapotranspiration

Augmented green space
The vertical shape of the Living Wall provides opportunities for for plant colonization in cities

Perception of temperature and climate comfort
The Living Wall induces the perception of lower temperatures even when these are not actually detected by devices

Urban area redevelopment
The Living Wall can contribute to attracting social life in abandoned urban spaces

Acoustic impact
The Living Wall can decrease indoor noise and outdoor echo

Visual communication
The Living Wall allows for the renewal and redesign of existing buildings

Air quality
The Living Wall can remove atmospheric pollutants such as sulfur dioxide (SO_2), ozone (O_3), nitrogen dioxide (NO_2) and particulate matter (PM10, for example)

Urban biodiversity
A careful selection of plants can attract birds and increase urban biodiversity

SUNDAR
ITALIA
GIARDINI VERTICALI