



greenworks

FULL PROVIDER OF VERTICAL GARDENS



- 03 ABOUT GREENWORKS
- 04 WHAT MAKES GREENWORKS DIFFERENT
- 05 FULL SERVICE PROVIDER
- 06 CLIENTS
- 07 BENEFITS OF VERTICAL GARDENS
- 10 SUSTAINABLE SYSTEM
- 11 PLANT DESIGN
- 14 MAINTENANCE
- 16 LIGHTING
- 18 INDOOR VERTICAL GARDENS
- 35 OUTDOOR VERTICAL GARDENS
- 40 MOSS WALLS
- 43 LIVING FURNITURE
- 47 CONTACTS

03

ABOUT GREENWORKS

Greenworks is a full service provider of living walls. We offer our clients a smooth experience and professional expertise from first contact throughout long term maintenance.

We are particularly driven in finding customized design of plant solutions in public and commercial spaces.



04

WHAT MAKES GREENWORKS DIFFERENT

We have built our company on a honest ambition to actually make the world better. We strive to put our planet in focus in every small or big decision by inspiration and scientific findings.

Our diverse team is working in the focal point between product- and landscape design.

Greenworks' mission includes a creation of a well designed plant solutions. We use the latest technology in combination with the highest degree of sustainable materials.

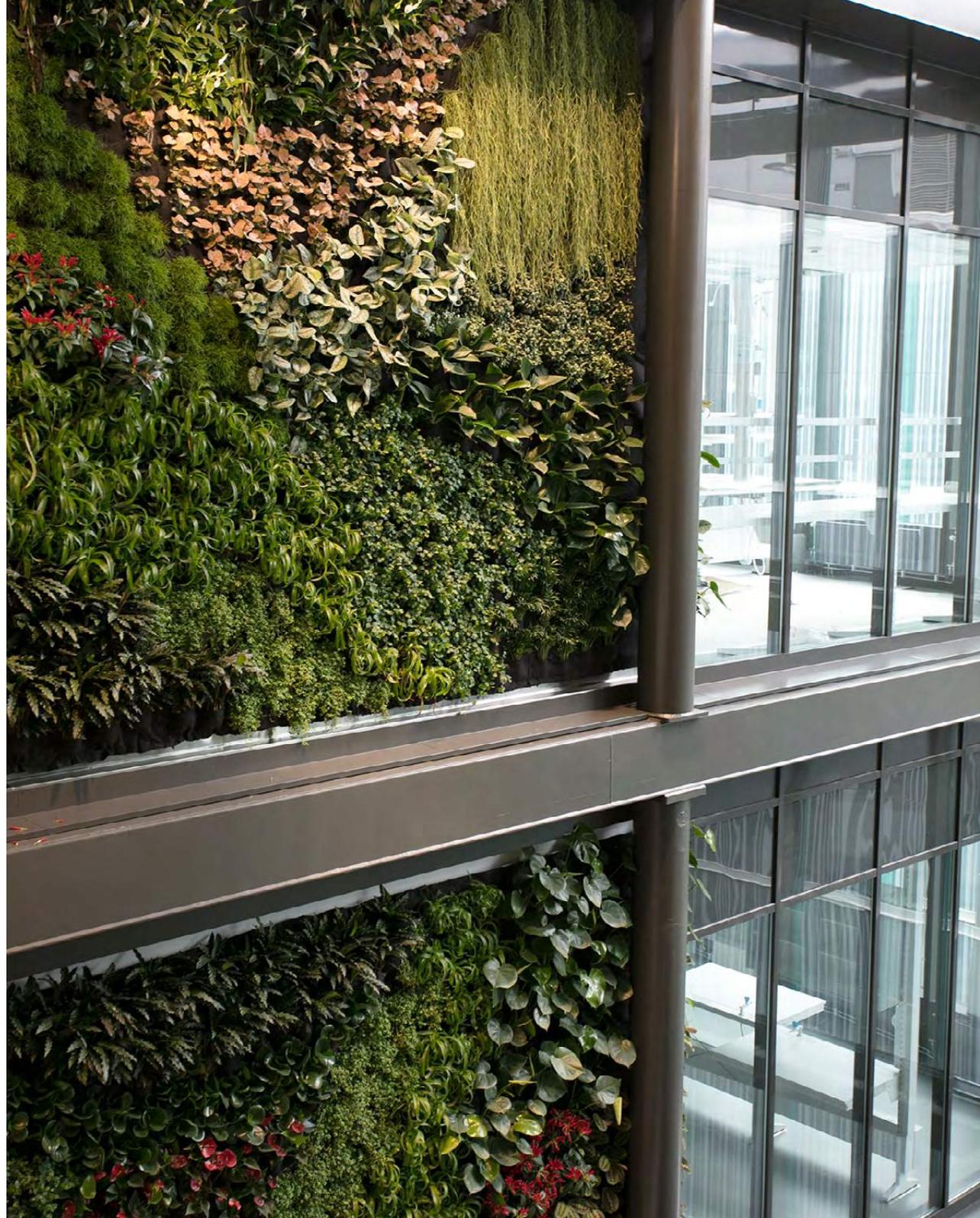


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FULL SERVICE PROVIDER

Today, we are Scandinavia's leading provider of Vertical Gardens and Living furniture with many hundred projects in our portfolio.

Greenworks' team can be your partner through the whole process from drawingboard throughout long term maintenance. With an efficient team of landscape design and engineering, industrial design, carpenters and project leaders, we take on challenges anywhere in the world.





06 CLIENTS

Greenworks works closely with clients to supply intelligent and well designed plant solutions in public and commercial spaces, indoors as well as outdoors.

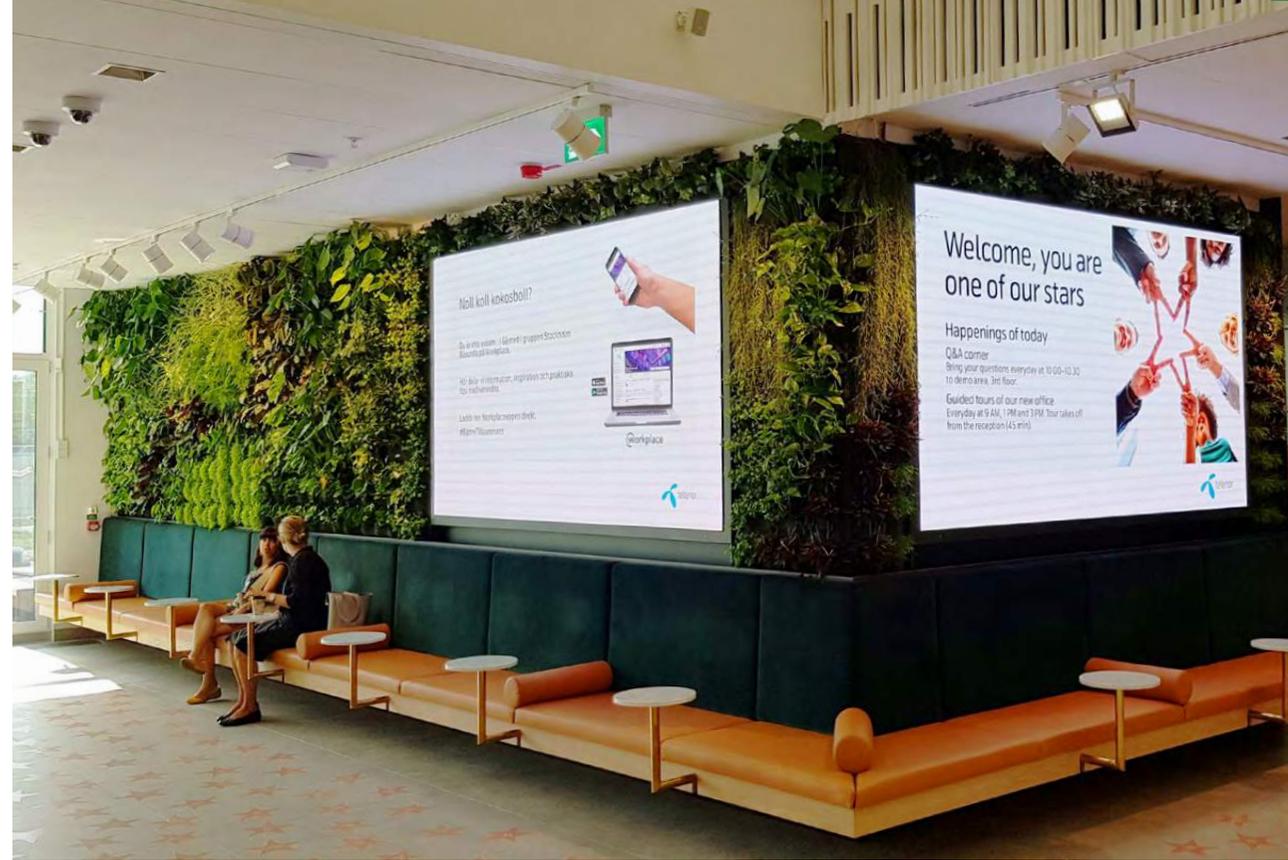


Living walls are natural air-filters, creating a cleaner and more invigorating work environment. Studies shows that this leads to better overall employee health and productivity. Office workers are often exposed to air toxins in their work environment in form of carbon monoxide and VOCs such as formaldehyde and benzene.

Living walls metabolize harmful toxins while releasing oxygen into the workplace air, much like office plants but on a much larger scale.

07

IMPROVE AIR QUALITY



08

HUMAN WELL-BEING

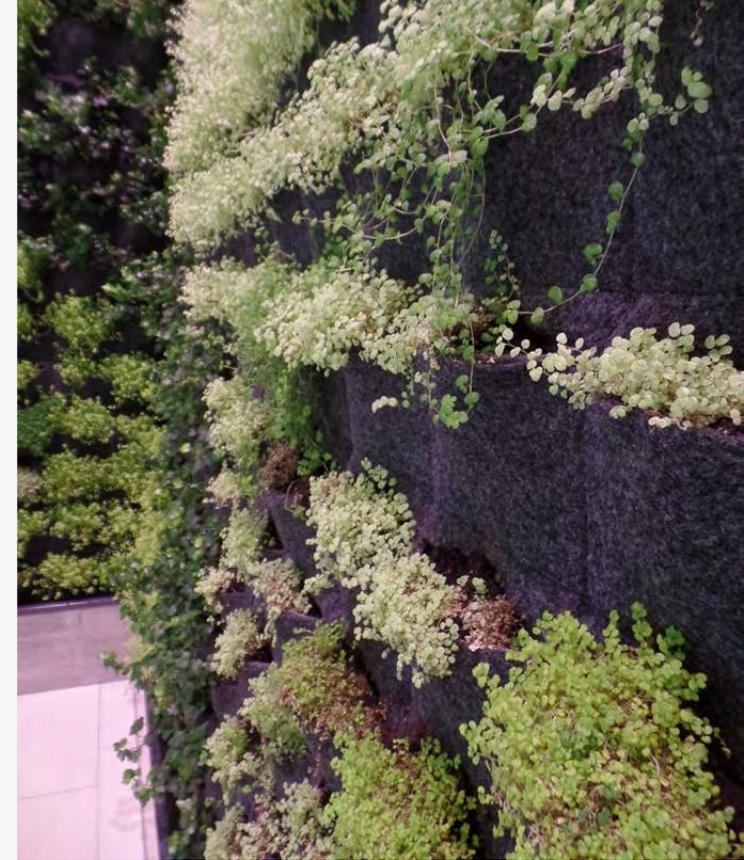
Exposure to nature reduces stress and increase mindfulness and well-being. Research show that many areas of our lives can be improved with proximity to nature and plants. Everything from how fast patients recover to an increase of life satisfaction in general.



One of the lesser known benefits of living walls is that the system reduces noise. Plants have been used, throughout the world, to reduce noise along roads and highways. Living walls naturally block high frequency sounds while the supporting structure can help to diminish low frequency noise. Our living walls act as extra insulation and trap with a layer of air between the plants and the wall. The living wall system reduce noise levels by reflecting, refracting as well as absorbing acoustic energy.

09

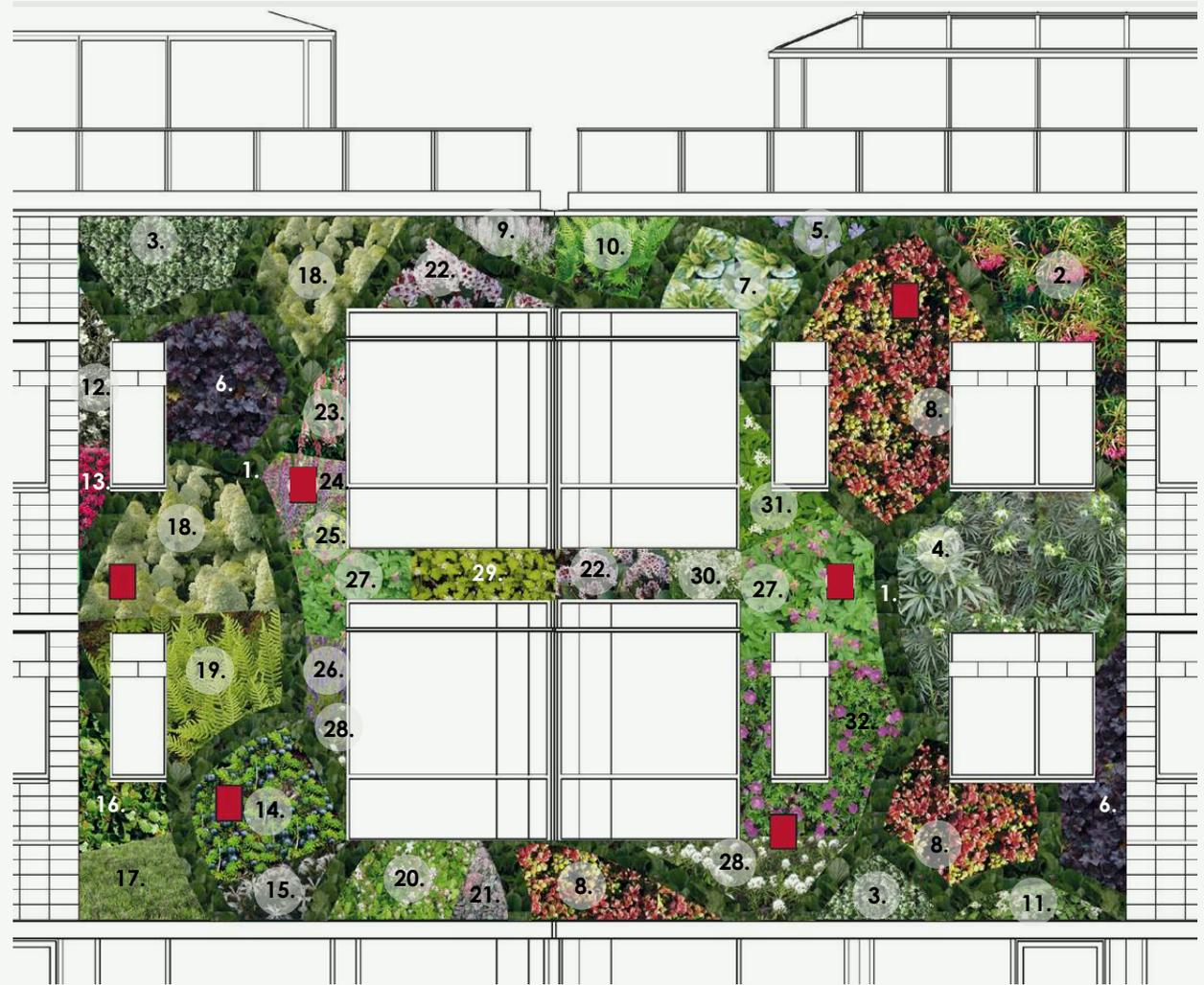
NOISE LEVEL REDUCTION



Our projects are always customised in order to find the perfect solution for any space. Greenworks designs and provide structures, irrigation- and lighting systems for any particular site. The capillary textile, made of recycled clothes, is optimal allowing roots to spread across the entire wall. This is the basis for not just getting plants on a wall, but literally a vertical garden. The sustainable board we use is waterproof and supports the vegetal system. Greenworks use engineered panels made from 100% recycled plastics.

10

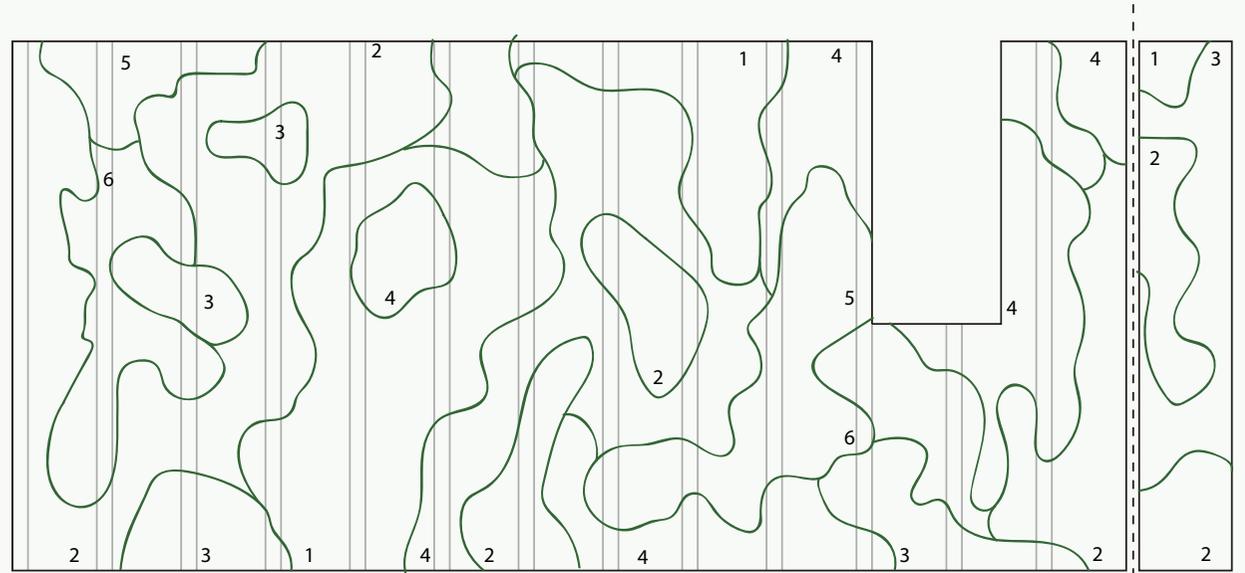
SUSTAINABLE SYSTEM



11

PLANT DESIGN

For each exterior wall location, we look into the specific microclimate such as temperatures, wind and sun study. This gives us a number of different zones on each wall. From this point the design and plant choice is made and the irrigation is calibrated accordingly.



1 Anthurium



2 Caladiom
Bicolor



3 Peperomia
Caperata Lillian



4 Calathea



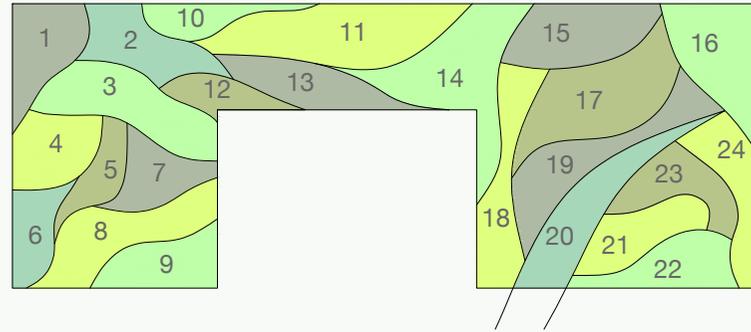
5 Alocasia
Bambino



6 Monstera
deciliosa

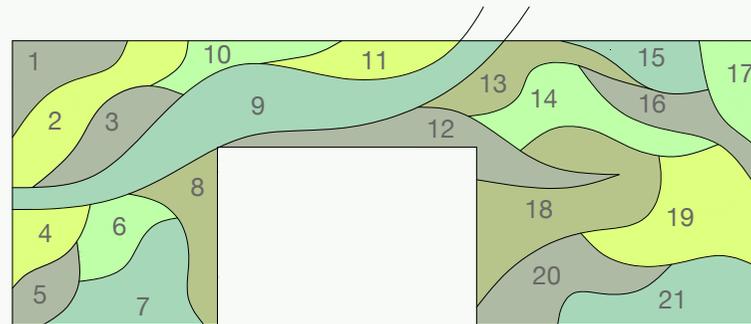
12

PLANT DESIGN



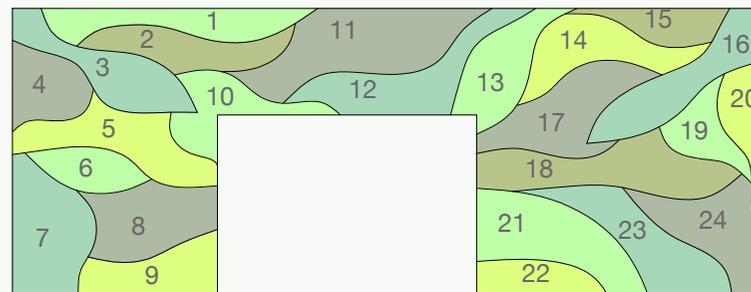
A9 section A - floor 9

ID	plant name	m ²	Total plants
1	Aeschyanthus marmoratus	0.7	23
2	Schefflera luseana	0.8	26
3	Peperomia	1.1	36
4	Callisia repens	0.7	23
5	Ludisia discolor	0.4	13
6	Ficus pumila	0.5	17
7	Calathea	0.6	20
8	Soleirolia soleirolii	1.0	33
9	Alocasia polly	0.7	23
10	Anthurium andraeanum	0.4	13
11	Ctenanthe burle-marxii	1.5	50
12	Muehlenbeckia complexa	0.4	13
13	Ficus anouk	0.7	23
14	Scindapsus pictus "Trobi"	1.4	46
15	Hoya linearis	1.0	33
16	Syngonium arrow	1.7	56
17	Chlorophytum comosum	1.4	46
18	Syngonium white butterfly	0.9	30
19	Pilea	1.0	33
20	Chamodorea elegans	0.9	30
21	Maranta	0.7	23
22	Hoya australis	0.7	23
23	Monstera deliciosa	0.7	23
24	Scindapsus argyraeus	0.8	26



A8 section A - floor 8

ID	plant name	m ²	Total plants
1	Philodendron Xanadu	0.6	20
2	Rhipsalis cassutha	1.0	33
3	Peperomia	0.7	23
4	Pilea	0.5	17
5	Scindapsus pictus trebi	0.4	13
6	Muehlenbeckia complexa	0.6	20
7	Scindapsus argyraeus	1.0	33
8	Ficus Anouk	0.8	26
9	Chamedorea elegans	2.7	89
10	Maranta	0.5	17
11	Ficus pumila	0.6	20
12	Syngonium Arrow	1.1	36
13	Ctenanthe burle-marxii	0.7	23
14	Spathiphyllum chopin	1.0	33
15	Callisia repens	0.5	17
16	Ludisia discolor	0.7	23
17	Anthurium andraeanum	0.7	23
18	Chlorophytum comosum	1.9	63
19	Alocasia polly	1.6	53
20	Calathea	1.0	33
21	Schefflera luseana	1.0	33



A7 section A - floor 7

ID	plant name	m ²	Total plants
1	Aeschyanthus marmoratus	0.8	26
2	Peperomia	0.7	23
3	Alocasia polly	0.8	26
4	Hoya linearis	0.6	20
5	Soleirolia soleirolii	1.0	33
6	Ctenanthe burle-marxii	0.5	17
7	Schefflera luseana	1.0	33
8	Pilea	0.9	30
9	Calathea	0.7	23
10	Ficus pumila	0.7	23
11	Chamedorea elegans	1.5	50
12	Hoya australis	1.0	33
13	Ficus anouk	0.8	26
14	Spathiphyllum chopin	0.8	26
15	Anthurium andraeanum	0.4	13
16	Chlorophytum comosum	1.0	33
17	Rhipsalis cassutha	1.0	33
18	Ludisia discolor	1.2	40
19	Muehlenbeckia complexa	0.5	17
20	Philodendron Xanadu	0.5	17
21	Scindapsus pictus trebi	1.2	40
22	Monstera deliciosa	0.4	13
23	Maranta	1.0	33
24	Callisia repens	0.9	30

13
PLANT DESIGN

14

INDOOR MAINTENANCE



The maintenance of Vertical Gardens is strongly linked to plant choice, technical solutions and lightning. Our incentive is to create living walls that last over decades. Maintenance is not only about maintaining the wall, it is also about finding out how the wall are doing in a proactive way. We offer a remote management system of the living walls that measures nutrition levels, amount of water, pH /EC, moisture and temperature. We use the right plant on the right spot to ensure low maintenance vertical gardens.

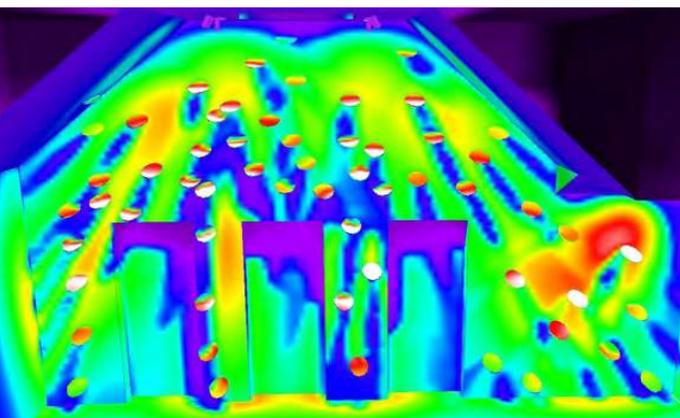
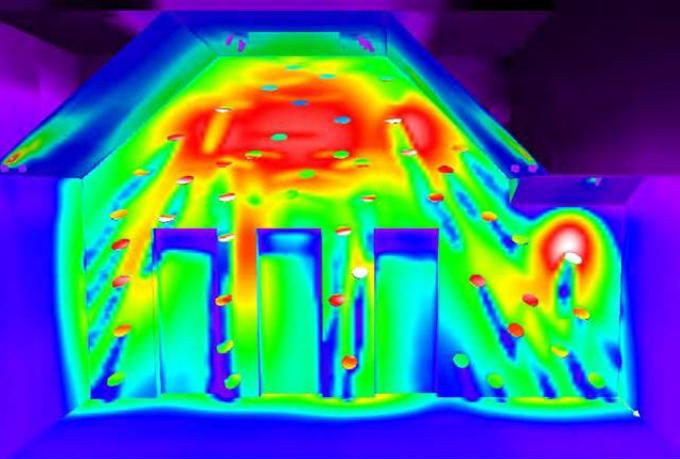
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OUTDOOR MAINTENANCE

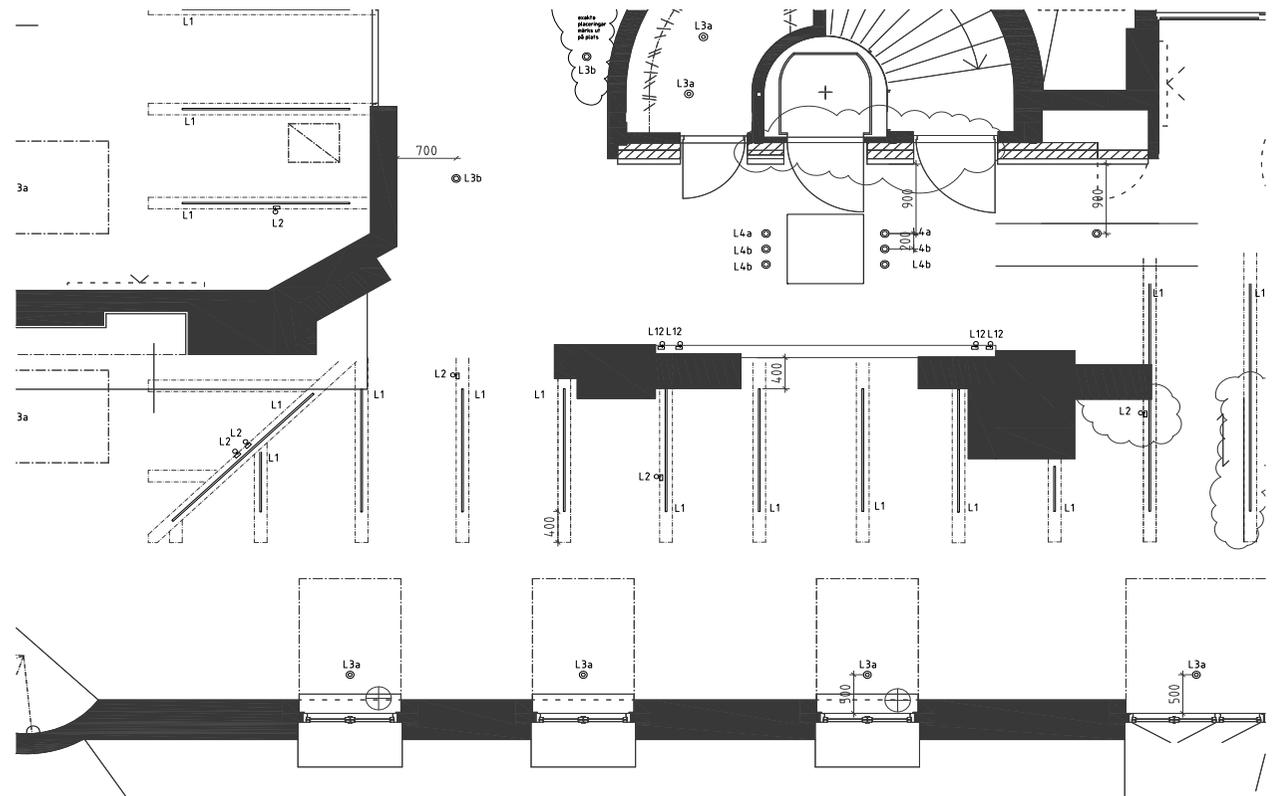


The outdoor wall is highly dependent on what kind of effect the customer wants. In general perennials require more maintenance than evergreen plants.

Outdoor walls in our climate zone have distinct seasons, normally we do service twice a year, spring and autumn. The use of remote management systems is extra important for exterior walls. Monitoring our living walls enables us to make necessary adjustments to irrigation and nutrition levels.



1500.00	lx
1000.00	lx
700.00	lx
500.00	lx
250.00	lx
100.00	lx
50.00	lx
10.00	lx
0.00	lx



Plants appreciate full spectrum light because it resembles natural sunlight. It's crucial to choose a good quality light source with high colour rendering index.

In terms of lightning there is both the aspect of ambiance, what the architect is looking to create as well as the plants need.

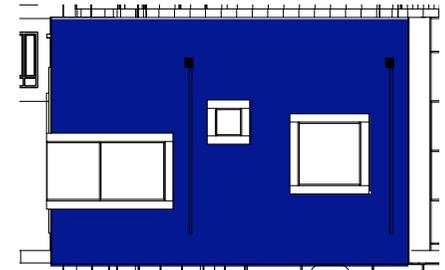
Greenworks will offer a proposal to each project on how to optimize the plants well-being and at the same time achieve a nice visual effect.

16

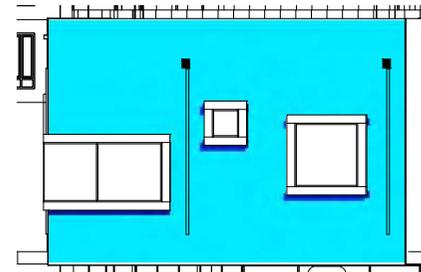
INDOOR LIGHTING



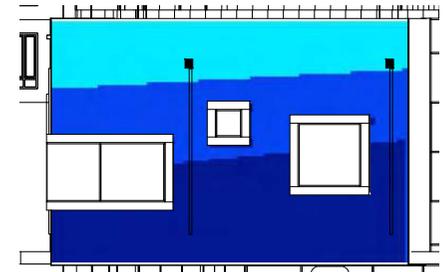
MORGON FRÅN KL. 01 TILL 11



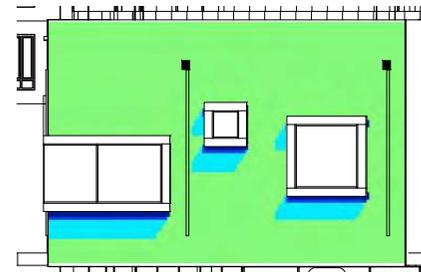
EFTERMIDDAG FRÅN KL. 11 TILL 16



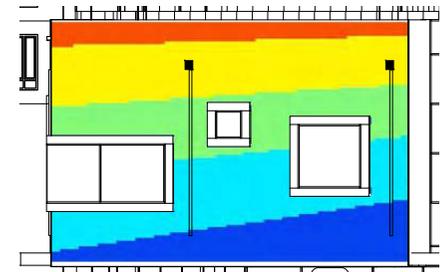
AFTEN FRÅN KL. 16 TILL 24



EFTERMIDDAG FRÅN KL. 11 TILL 16



AFTEN FRÅN KL. 16 TILL 24



17

OUTDOOR LIGHTING

For outdoor Vertical Gardens the plants thrive from natural light. We carefully look at sun studies of the object to ensure having the right species of plants for each section of the wall. Artificial lighting is used to create a visual effect of the Vertical Garden during dark hours, which can be long in the wintertime at our latitudes.

18

INDOOR VERTICAL GARDENS
REFERENCE PROJECTS





2017
BIOMEDICUM
600 SQM, 28 PLANT WALLS ON 10 FLOORS



2017
TEKNISKA MUSEET
SPECIAL SHAPE DESIGN IN THE EVENT AULA



2017
ÅKE SUNDVALL
INSPIRING CONFERENCE AREA



2017
SAMBAMAKI
TROPICAL FEELING PLANT DESIGN



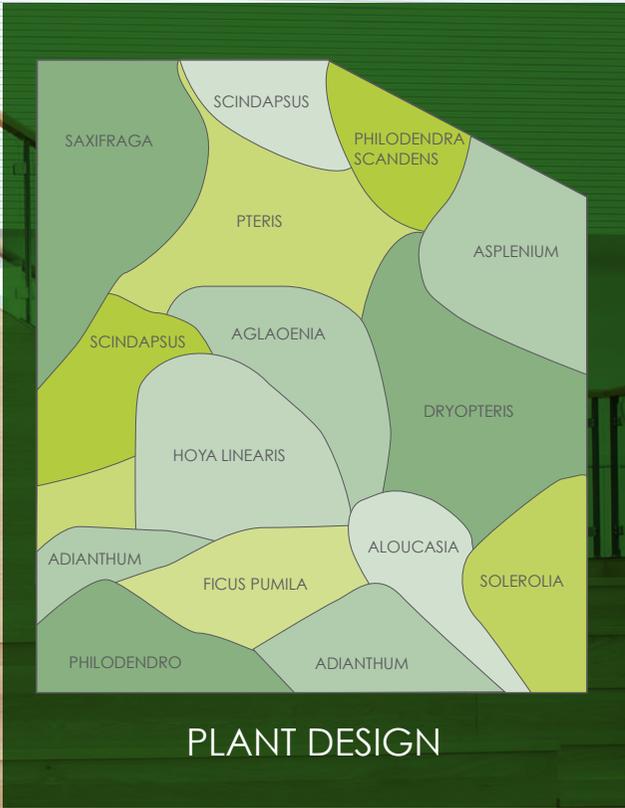
2016
TRYGG-HANSA HEADOFFICE



2016
PREEM HEADOFFICE
A GREEN JEWEL FOR THE LUNCH AREA



2016
PRIVATE VILLA TYRESÖ CITY



2016
LÄNSFÖRSÄKRINGAR



2016
PRIVATE PENTHOUSE STOCKHOLM CITY



2015
SUPERFRUIT
TANK INTEGRATED IN THE FURNITURE



2014
TELE2 ARENA



2014
BODYSHOP NACKA FORUM
EMBEDDED LOGO



2013
IHM BUSINESS SCHOOL
EMBEDDED DOORS



2013
ARLANDA LOUNGE SWEDAVIA
ROOM DIVIDER



2013
TRIANGELN MALMÖ
BIG WALL OVER AN AQUARIUM



2011
SKOLVERKET

35

OUTDOOR VERTICAL GARDENS
REFERENCE PROJECTS





2016
KLARA ZENIT, DROTNINGATAN
FIRST OUTDOOR WALL IN STOCKHOLM CITY
NYRÉNS ARKITEKTER

Hemköp

Alla dagar 7-23

Ingång T-banepåsen



Soderberg & Partners

2013
PUMPHUSET HELSINGBORG
FIRST OUTDOOR WALL IN SWEDEN



2013
PUBLIC TOILET IN HELSINGBORG

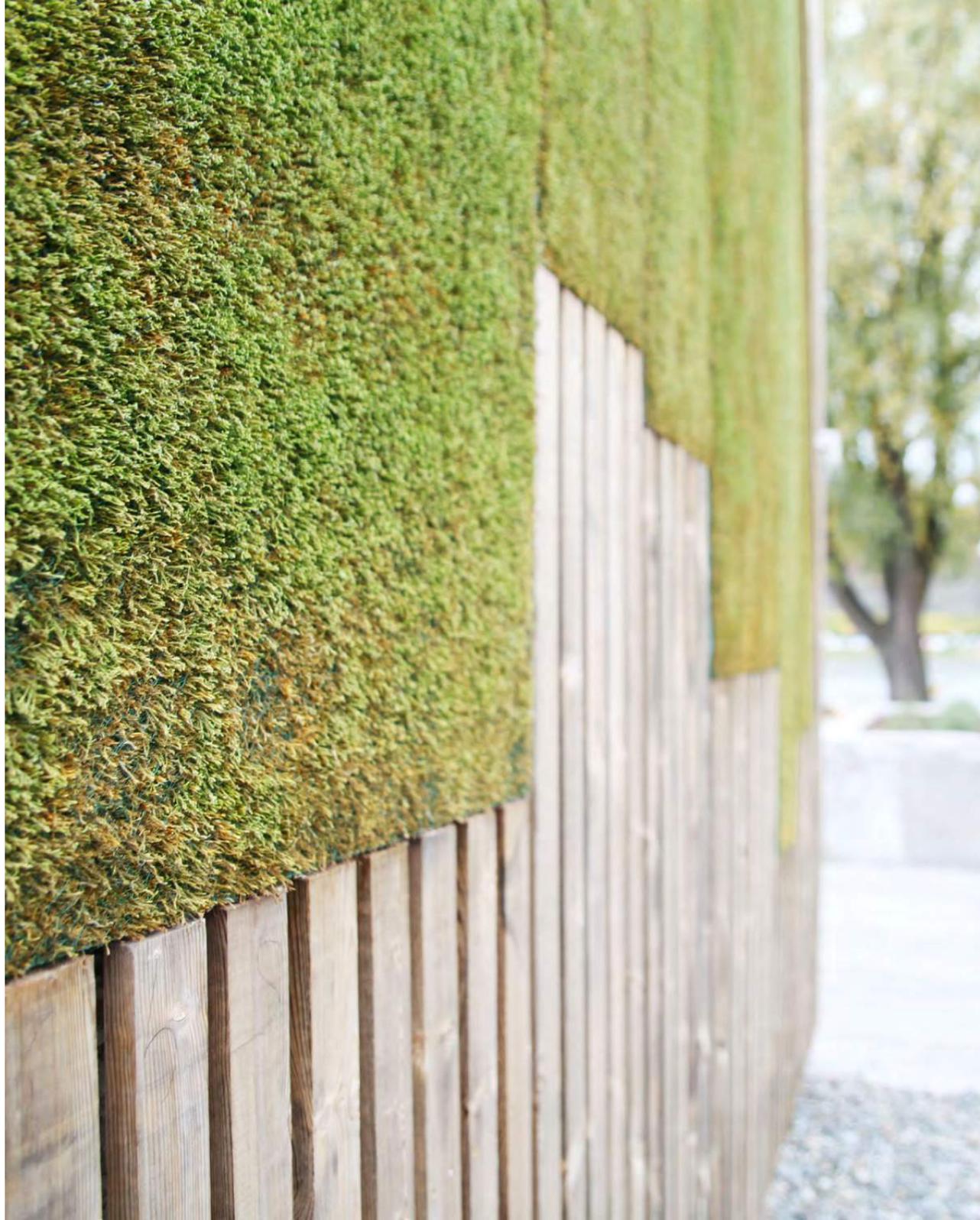


Johannsons

2015
PARKING GARAGE IN GÖTEBORG

40

MOSS WALLS





41

GREEN OASES INSTEAD OF GREY ASPHALT

Renewable facades, blooming walls, breathing buildings – the cities of the future must become green lungs. Greenworks strives to make this vision a vivid reality. The basis and magical material for all this is a 350 million year old patent by nature – moss. Greenworks has taken a closer look at the fantastic properties of moss and uses the microscopically small allrounder for the greening of vertical and horizontal surfaces in urban areas.



2016
SCANIA
OUTDOOR MOSS WALL

43

LIVING FURNITURE





Moving Hedge is a double sided plant wall on wheels with integrated irrigation system. The units are perfect as room dividers in an office space or for creating recreational spots in an indoor environment.

Moving Hedge is an intense green boost at any space that can benefit of air purification, sound absorption and overall aesthetic functions.

44

MOVING HEDGE



45

BABYLONE

Babylone is a spherical plexiglass pendant with room for plants. The sphere has openings that allows stems and leaves to meander out of the globe. Almost any plant can be used to create a unique expression. The full spectrum light source satisfies the plants and gives a pleasant ambience. We recommend to use a mineral rich and high water retention substrate.



46

BRIDGE

More than a high quality lighting product, Bridge pendant is also a way to get plants closer to where people actually work or dine. invites you to create endless variations. Bridge can also be equipped with a plant light enabling plants to flourish even in dark spaces.



47

2M2 GREEN SCREEN

2M2 is the easy mounted green system that can be hung on any wall, thanks to its light structure with slim profiles. An automatic irrigation system is connected with an elegant water collector, that can be used as a stool or a coffee table. The units are perfect as sound absorbing panels in any space where a touch of nature is needed, with air-purifying benefits.

greenworks

DO YOU WANT TO KNOW MORE?

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