

GREEN WALLS, WONDERGREEN BIO WALLS, WONDERGREEN BIO CURTAINS, FLEXI GREEN,
SELF WATERING VERTICAL GARDENS, GREEN ROOFS, MODULAR GREEN ROOFS, GREEN
MATRIX GREEN CURTAINS, GREEN STRINGS, ECO GROW SUBSTRATES



The Lifestyle Gardening

www.eltindia.com

Contents

- 1.Introduction**
- 2.World scenario: Few Projects**
- 3.What are Plants Requirements?**
- 4.What are the Climatic Factors to be considered?**
- 5.What are Micro Climatic Factors**
- 6.What are the Site Specific Factors to be considered?**
- 7.What kind of projects are executed in India?**
- 8.Different sustainable systems for creating non-conventional greenery.**
- 9.Future Scope for Industry Growth.**

WHO ARE WE ?

This venture into greenery started back in 1986. It led to an extended period of entrepreneurship that has lasted almost 30 years.

ELT INDIA has expertise in Vertical Gardens, Green Roofs, Light Weight Gardening, Sensor based Automation of Irrigation with Remote Monitoring, High-rise Greenery, Urban Farming Nursery, Vertical Farming in addition to Soft-scape, Large Tree Transplantation, Soil Reclamation & Soil Stabilisation.

WHO ARE WE ?

Ecogreen Landscape Technologies India Pvt. Ltd,

DIRECTORS: Pradeep Barpande & Anuradha Barpande

Expertise:

Research

Experiment

Development

Manufacturing

Growing

Installing

Maintaining of non conventional greeneries.

ELT India Operates in countries, India, Malaysia & Bahrain through network partners & export ELT India products to few more countries.

ELT BENCHMARKS

- » START AS NURSERYMEN 1986
- » LANDSCAPING SINCE 1989
- » TREE TRANSPLANTATION 1995
- » GREEN PRACTICES & URBAN FARMING 1996
- » SLOPES STABILISATION 2001
- » SOIL RECLAMATION 2004
- » LIGHT WEIGHT ROOF GARDENING 2006
- » VERTICAL GARDENING 2008
- » GREEN CURTAINS 2011
- » HYDROPHILIC FOAM BASED SYSTEMS 2012
- » WONDERGREEN BIO WALLS & BIO CURTAINS 2013
- » SELF WATERING GREEN WALL SYSTEMS 2014
- » MODULAR GREEN ROOF SYSTEM 2014
- » GREEN MATRIX SYSTEM 2014
- » SENSOR BASED CONTROLS & MONITORING 2015(LAUNCH)
- » ELT GREEN TRELLIS 2015



ELT RESEARCH CENTRE, VILLAGE VARAVE, PUNE



GREENERY IN GREEN BUILDINGS



ELT FACILITY, VILLAGE VARAVE, PUNE



GREENERY IN GREEN BUILDINGS

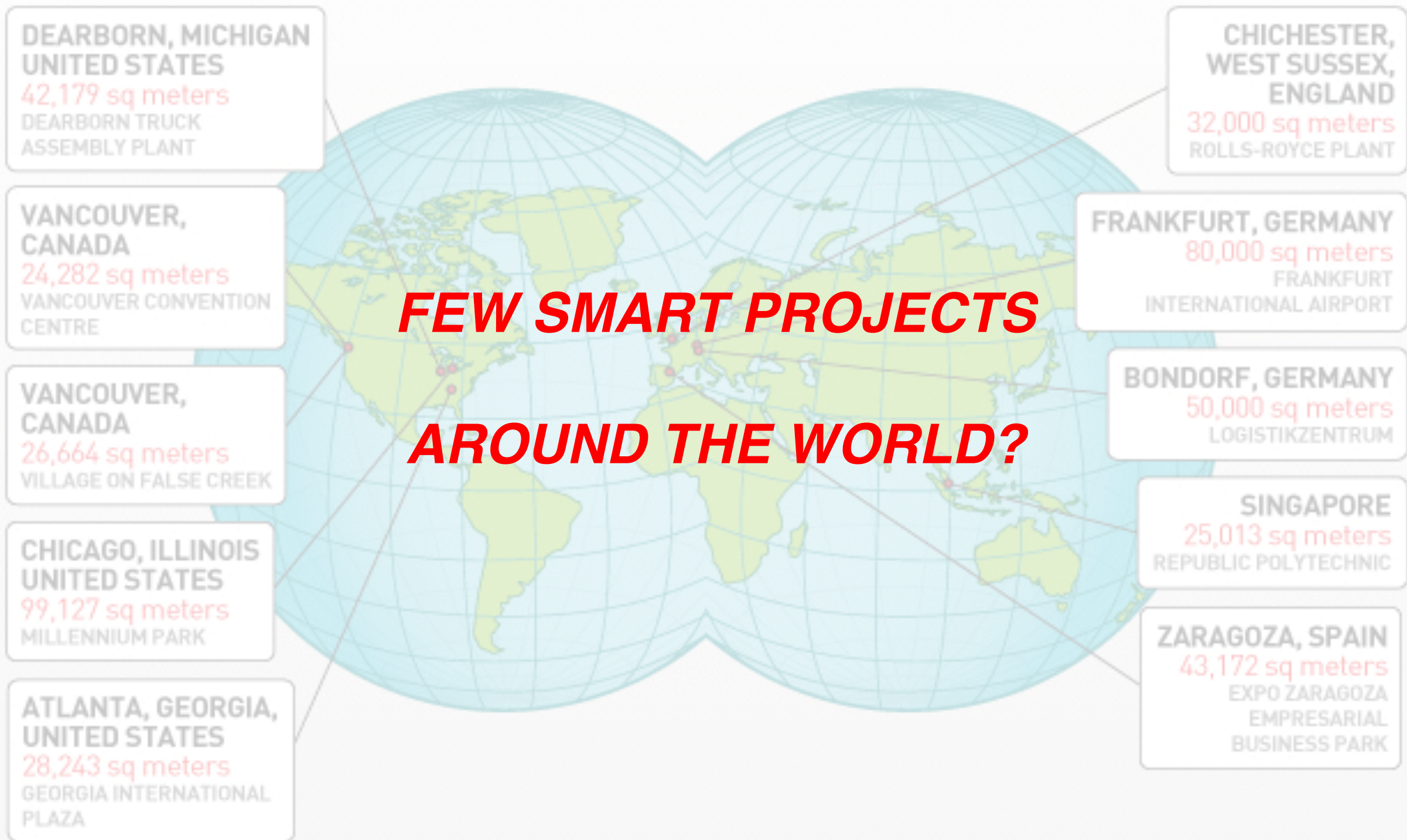


SHORT INTRODUCTION TO TECHNOLOGY

You Tube Link to Different Systems : <https://youtu.be/SpD9i48zgHs>

THE WORLD SCENARIO

TEN LARGEST GREEN ROOFS IN THE WORLD



GREENERY IN GREEN BUILDINGS

INHABITED HILLS, TAIWAN, ARCHITECTS : BIG

**PITCHED ROOF
UPTO 75 DEGREES SLOPE AT FEW LOCATIONS**

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WORLD TRENDS
www.eltindia.com



INHABITED HILLS, TAIWAN, ARCHITECTS : BIG



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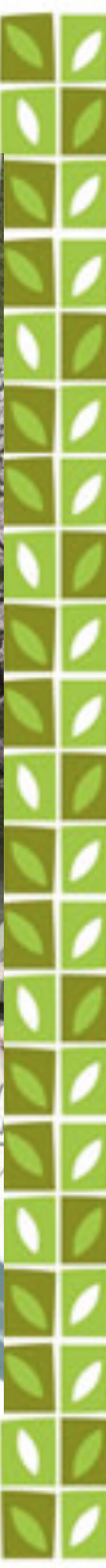
INHABITED HILLS, TAIWAN, ARCHITECTS : BIG



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INHABITED HILLS, TAIWAN, ARCHITECTS : BIG



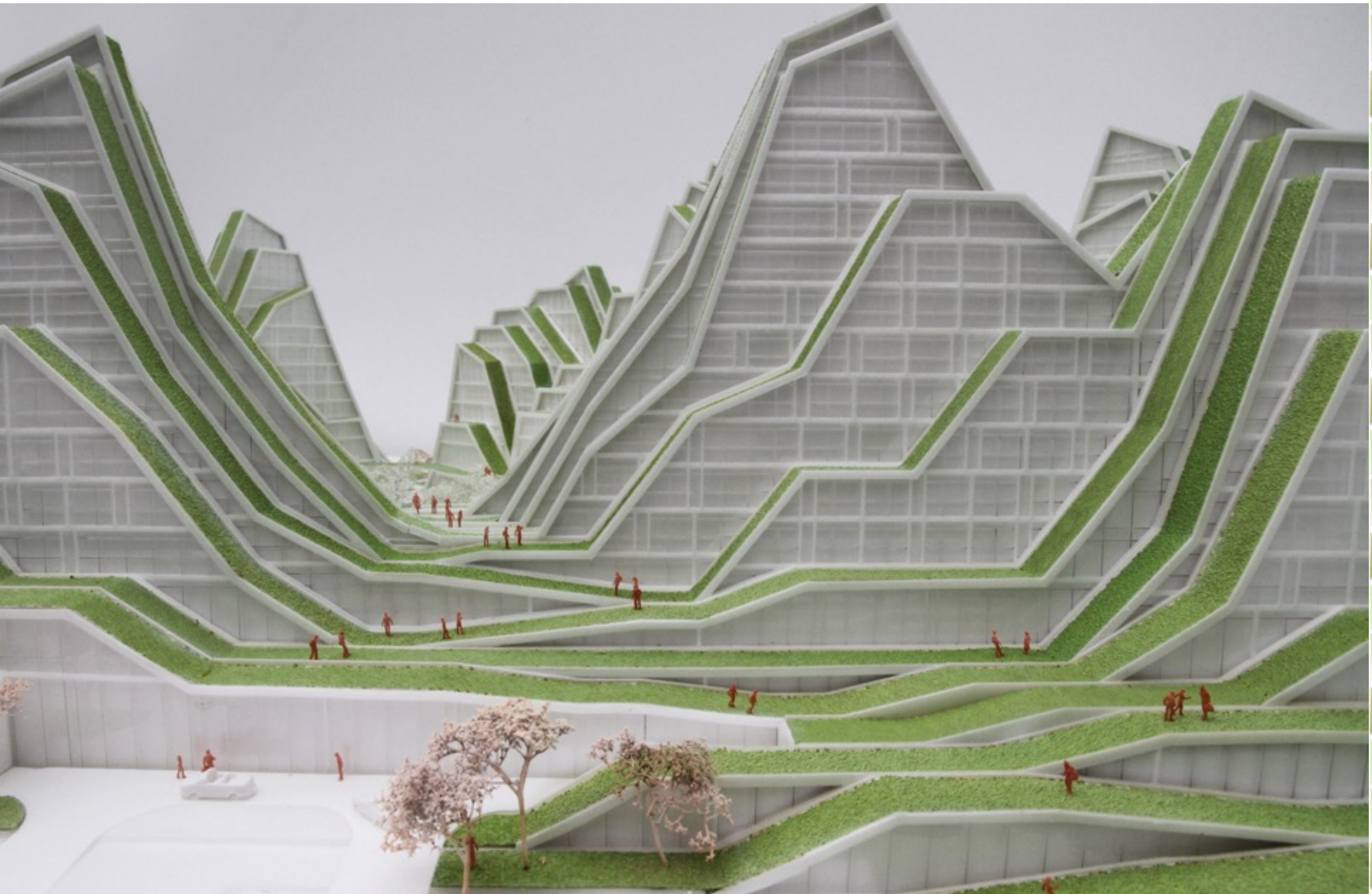
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INHABITED HILLS, TAIWAN, ARCHITECTS : BIG



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SYJONG, SOUTH KOREA. ARCHITECTS: BALMORI ASSOCIATES

15 GOVT. ADMIN. BUILDINGS ARE CONNECTED.



GREEN ROOF AREA :27 ACRES, GREEN ROOF LENGTH : 3.5KM

GREENERY IN GREEN BUILDINGS

WORLD TRENDS

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SYJONG, SOUTH KOREA. ARCHITECTS: BALMORI ASSOCIATES

15 GOVT. ADMIN. BUILDINGS ARE CONNECTED.



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SYJONG, SOUTH KOREA. ARCHITECTS: BALMORI ASSOCIATES



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An aerial photograph of a large, lush green roof garden situated in a dense urban environment. The garden is filled with various trees, shrubs, and grassy areas, with winding paths and small structures scattered throughout. It is surrounded by tall, modern buildings with glass facades. In the foreground, a road with a bus and a parking lot are visible.

LANDSCAPE ARCHITECTS : PWP

GREEN ROOF AREA : 20000m²

**GARDEN FOR BUILDINGS &
GREY WATER FOR GARDEN**

GREENERY IN GREEN BUILDINGS

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TRANSBAY TRANSIT CENTER, SAN FRANCISCO



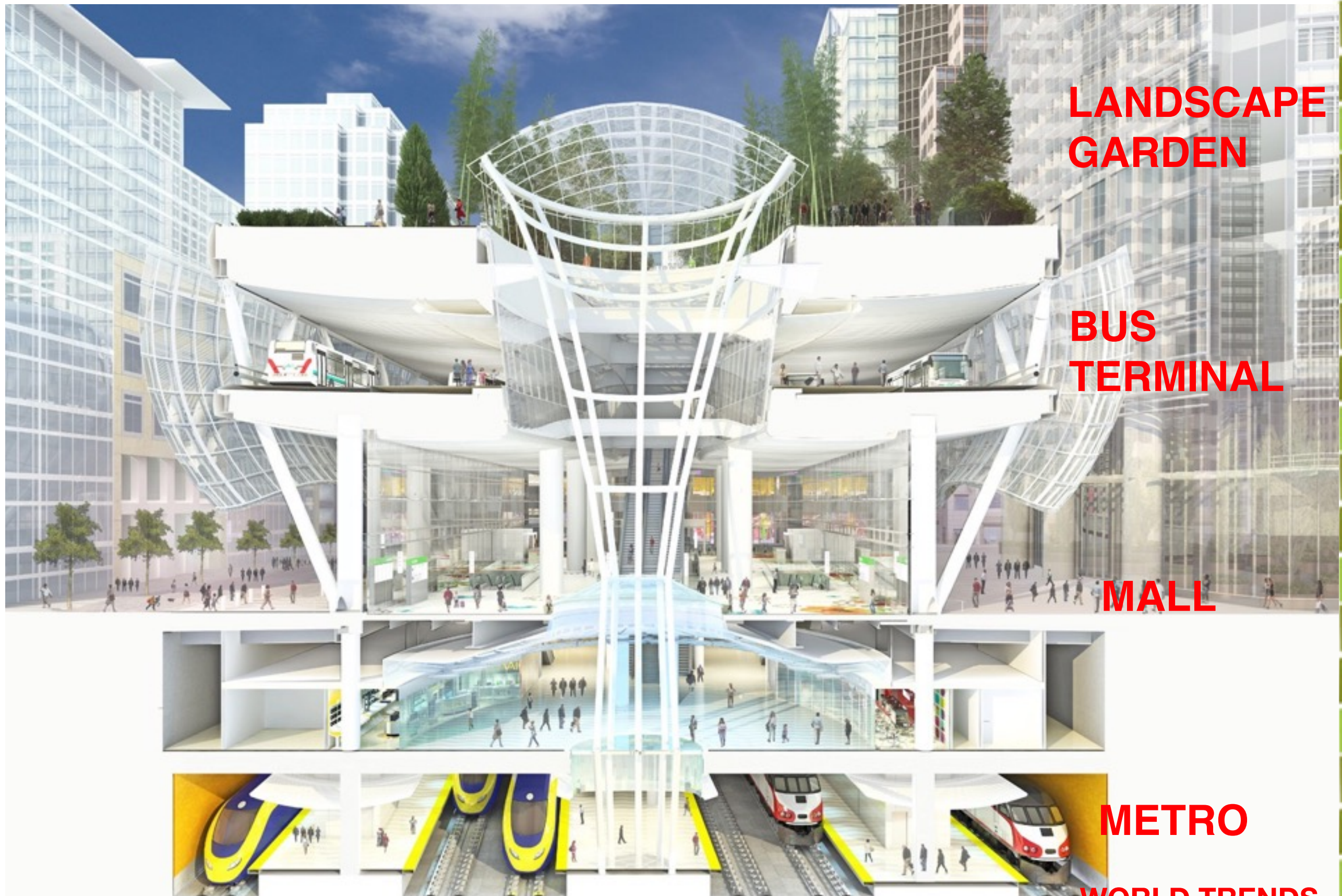
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BOSCO VERTICALE TWIN TOWER, MILAN ARCHITECT : STEFANO BOERI, ITALI.

**THE 260' AND 367' TALL TOWERS WITH 900 TREES &
MORE THAN 20,000 SHRUBS & OTHER PLANTS**

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BOSCO VERTICALE TWIN TOWER, MILAN ARCHITECT : STEFANO BOERI, ITALI.



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BOSCO VERTICALE TWIN TOWER, MILAN ARCHITECT : STEFANO BOERI, ITALI.



GREENERY IN GREEN BUILDINGS

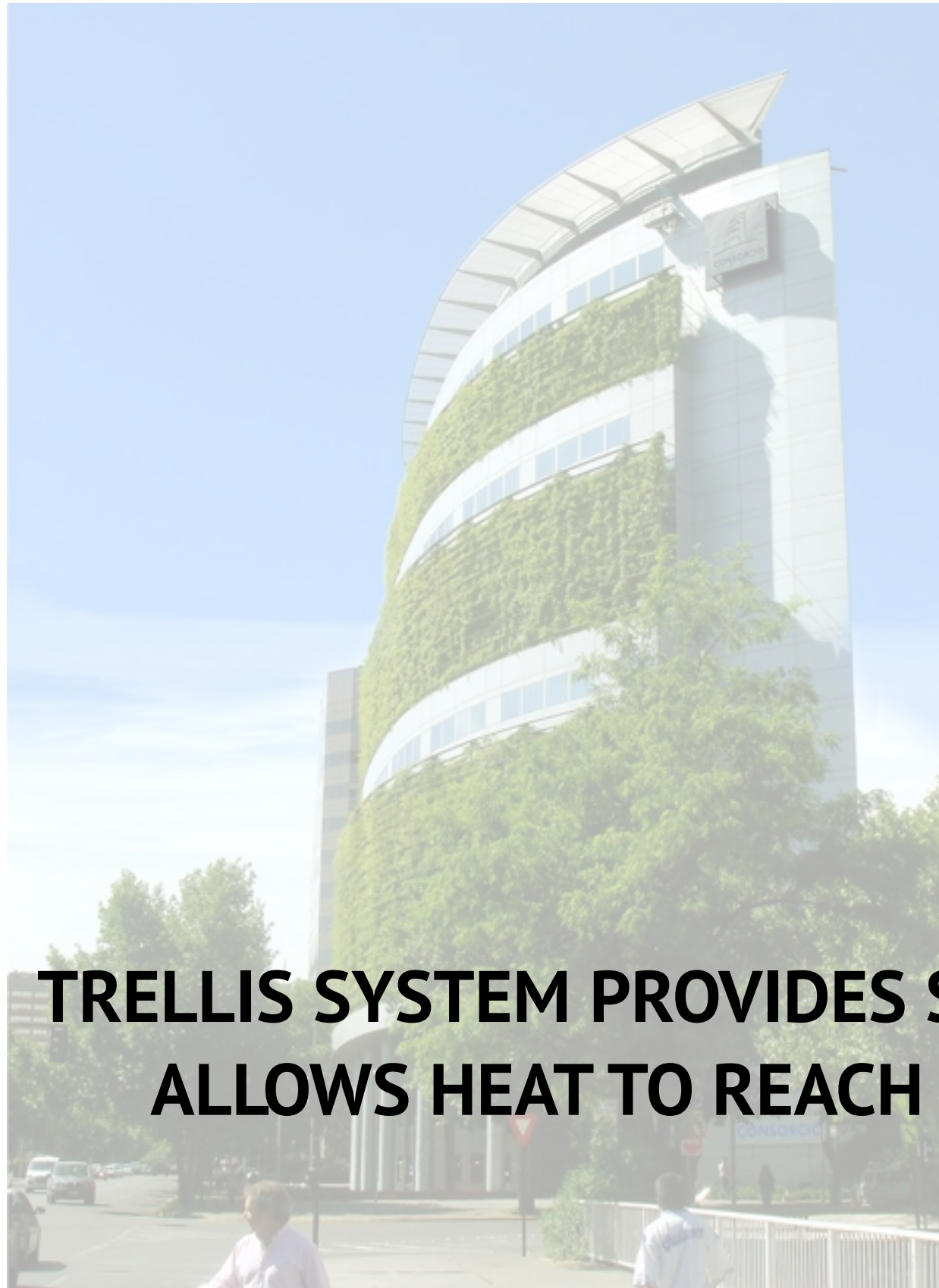
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CONSORCIO – CHILE OFFICE BUILDING, CHILE, SOUTH AMERICA

ARCHITECTS : ENRIQUE BROWNE ARQUOTECTOS



**TRELLIS SYSTEM PROVIDES SHADING DURING SUMMER &
ALLOWS HEAT TO REACH BUILDING IN THE WINTER**

GREENERY IN GREEN BUILDINGS

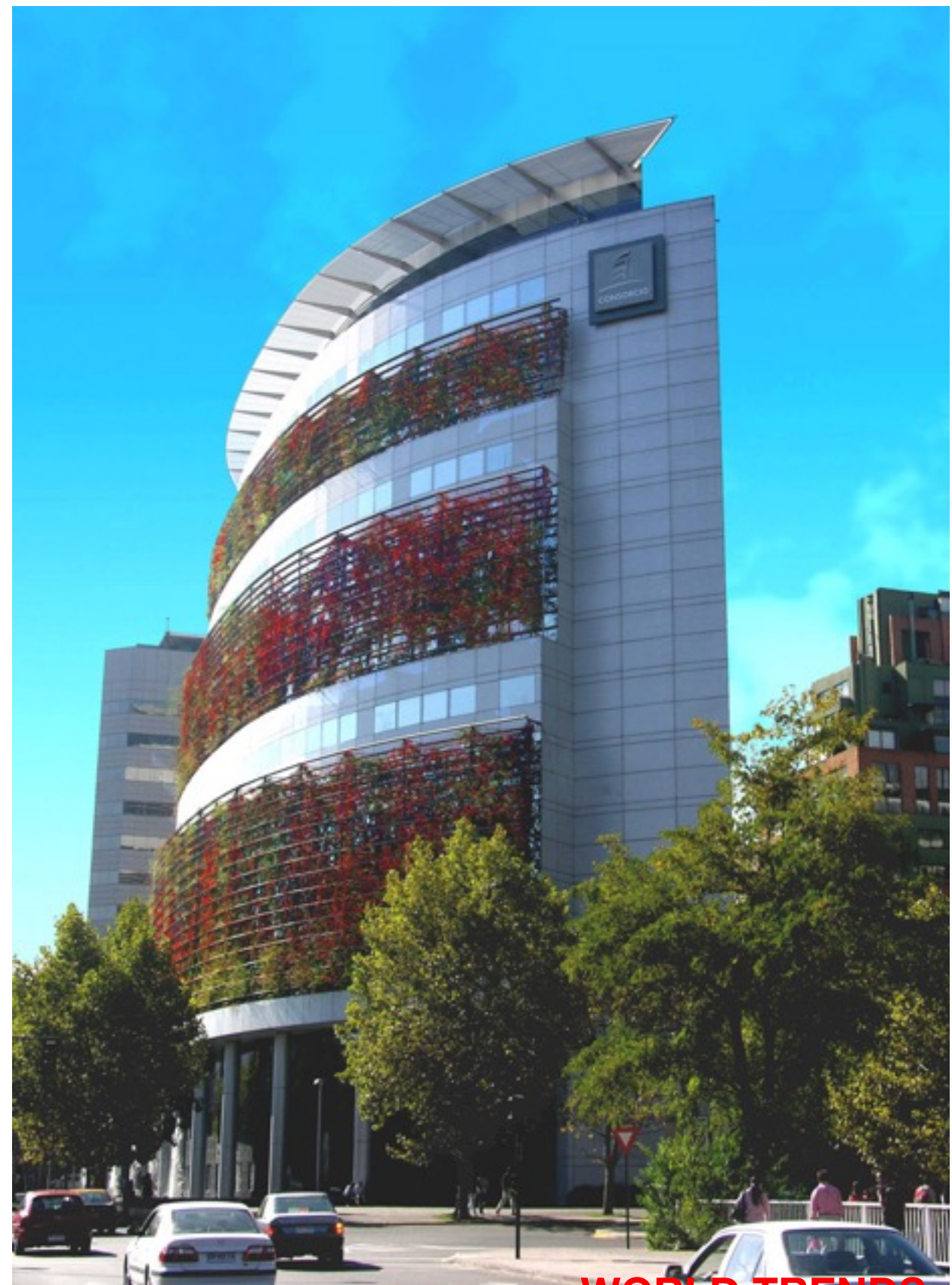
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PROJECTS IN INDIA

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PROJECTS IN INDIA



HDFC, MUMBAI

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PROJECTS IN INDIA



MFAR, BANGLORE

GREENERY IN GREEN BUILDINGS



PROJECTS IN INDIA



ONGC, DEHRADUN

GREENERY IN GREEN BUILDINGS



PROJECTS IN INDIA



DELTA TERRACE, NAVI MUMBAI

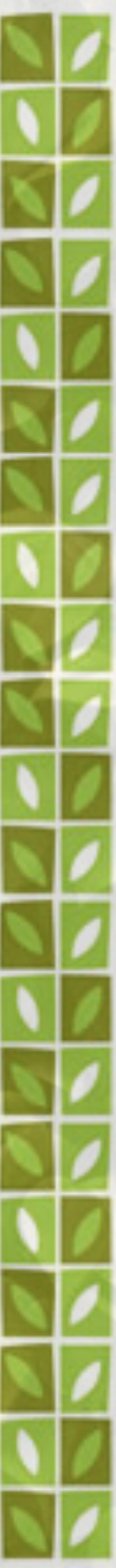
GREENERY IN GREEN BUILDINGS



WHAT DO PLANTS REQUIRE

**BASIC FACTORS RESPONSIBLE FOR SUCCESS
OF VEGETATION**

GREENERY IN GREEN BUILDINGS



WHAT DO PLANTS REQUIRE

**BASIC FACTORS RESPONSIBLE FOR SUCCESS OF THE
VEGETATION**

SUNLIGHT

ANCHORAGE FOR ROOTS

GROWTH MEDIUM OF RIGHT QUALITY

MOISTURE LEVELS AROUND SHOOT SYSTEM

MOISTURE LEVELS NEAR ROOT ZONE

ENOUGH DEPTH FOR ROOTS TO ABSORB NUTRIENTS

ROOT ZONE TEMPERATURE

POLLUTION

WATER QUALITY

IRRIGATION

GREENERY IN GREEN BUILDINGS



WHICH SYSTEM TO CHOOSE

COUNTRY	MONTHLY TEMP. MAX.	HUMIDITY	MONTHLY RAINFALL
FRANCE	25	65 ~ 85	35 MM
SINGAPORE	31	60 ~90	175 MM
CANADA	27	55 ~ 70	50 MM
AUSTRALIA	29	60 ~ 70	45 MM
INDIA	47.8	15 ~ 90	0 MM TO 150MM

FRANCE



ENGLAND



CANADA



SINGAPORE



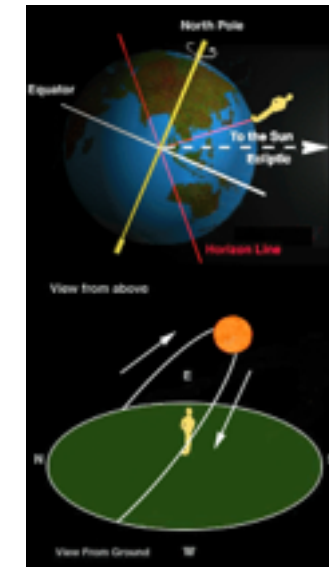
GREENERY IN GREEN BUILDINGS

UNDERSTANDING MICRO CLIMATE

A. UNDERSTANDING SITE SPECIFIC MICRO-CLIMATIC FACTORS.

- 1. LIGHT INTENSITY, AVAILABILITY AND DURATION**
- 2. NEARBY WATERBODY**
- 3. NEARBY FIRE PLACE / CHIMNEY**
- 4. DIRECTION OF GREEN WALL- FACE**
- 5. SUN PATH & SHADE DIRECTION DURING DIFFERENT SEASONS**
- 6. OTHER STRUCTURES, TREES & OTHER ELEMENTS THAT CAN AFFECT MICRO CLIMATE**
- 7. WIND VELOCITY**
- 8. NEARBY INDUSTRIAL ESTABLISHMENTS CAUSING DIFFERENT TYPES OF MICRO-CLIMATIC HAZARDS LIKE DUST, SMOKE, FUMES, GASES & OTHERS.**
- 9. WATER QUALITY**
- 10. SALT SPRAY**

GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM ELT SUBSTRATE

ELT LIVING WALL SYSTEM

WITH

**LONGEVITY ENABLED
GROWTH MEDIUM**

GREENERY IN GREEN BUILDINGS

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ELT LIVING WALL SYSTEM ELT SUBSTRATE



GREENERY IN GREEN BUILDINGS

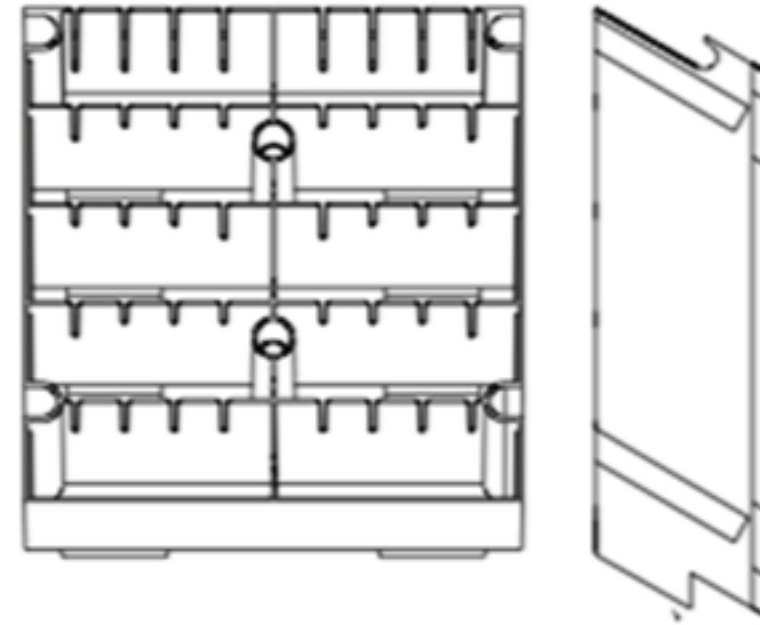


ELT LIVING WALL SYSTEM ELT SUBSTRATE

ELT Living Wall System

FEATURES:

- Modularity for easy installation & handling.
- Recyclable polypropylene copolymer material with longer life expectancy.
- Size 300 mm x 300 mm x 100 mm.
- Provision for screwing the panels to mounting strips.
- Individual cells for water retention & plant support.
- Panel spacers on the back to keep panel away from wall & allow for an air space.
- 2 Mounting channels across the back, support weight across the whole panel.
- Top collection chamber for irrigation emitter line.
- Water management incorporated into design with the notches.
- Drain window for each compartment to drain water into catchment area of lower panel.
- Unique Z pattern of nesting help to transfer water and provide stability to the Green wall.
- Drain tray is provided at the base of the Green wall to collect excess water.



ELT LIVING WALL SYSTEM ELT SUBSTRATE INSTALLATION

**Recycled Plastic Mounting
Strip**



Wall Mounted



Mounted on the structure

For Sales Enquiries
Call-020 27219275: Email-sales@eltindia.com: Visit-
www.eltindia.com

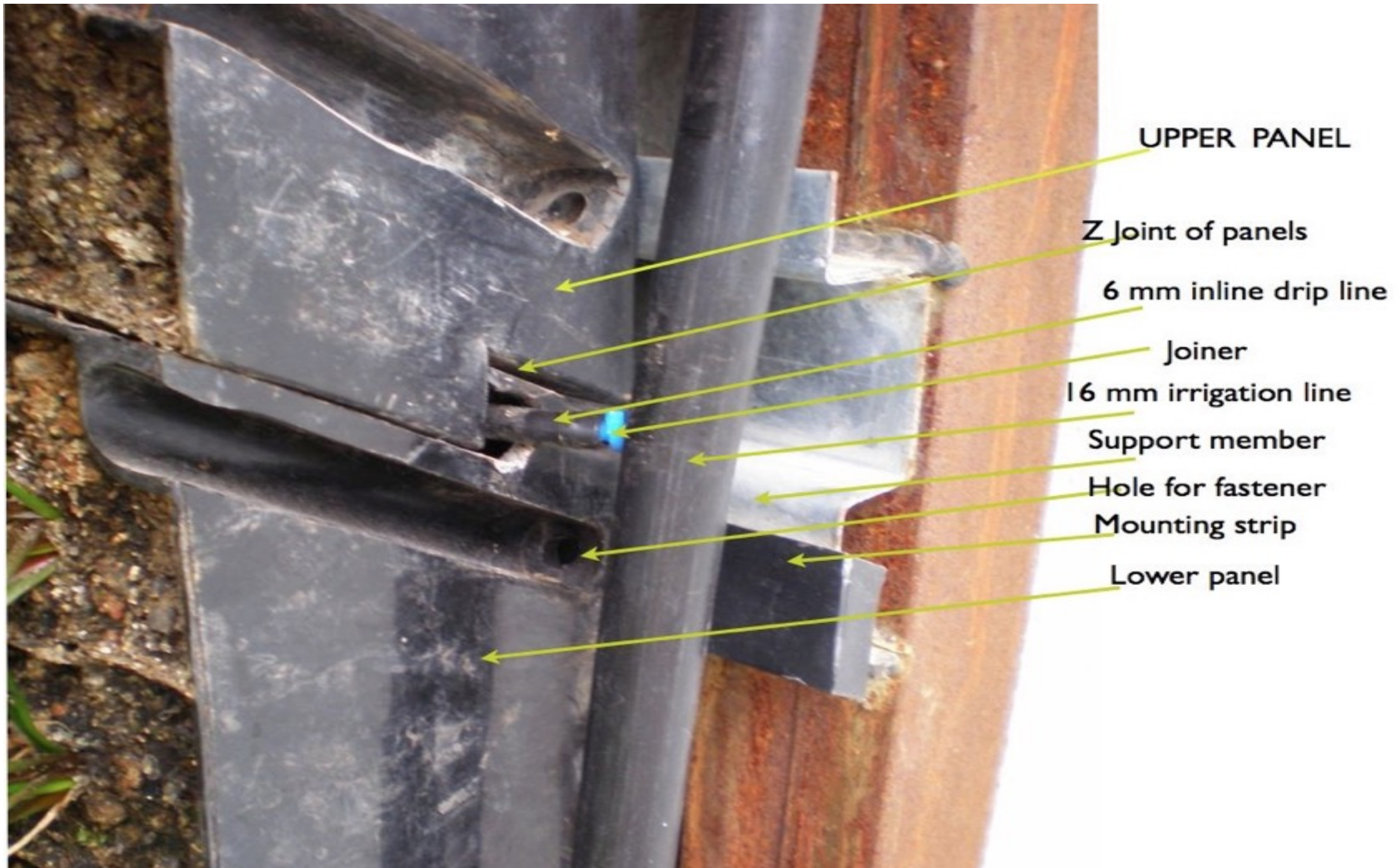
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ELT LIVING WALL SYSTEM ELT SUBSTRATE

IRRIGATION SYSTEM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM ELT SUBSTRATE ENGINEERED GROWTH MEDIA



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM ELT SUBSTRATE



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GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM ELT SUBSTRATE



GK 1, NEW DELHI

GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM ELT SUBSTRATE



SHAHAPUR, MUMBAI.

GREENERY IN GREEN BUILDINGS



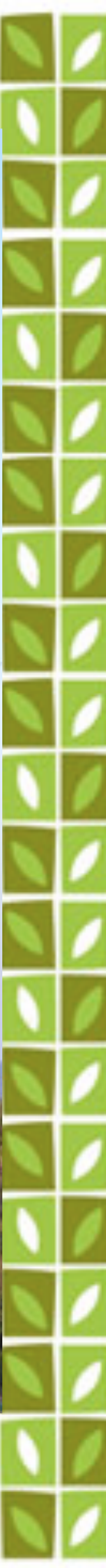
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SHAHAPUR, MUMBAI.

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THRISSUR, KERALA.

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THRISSUR, KERALA.

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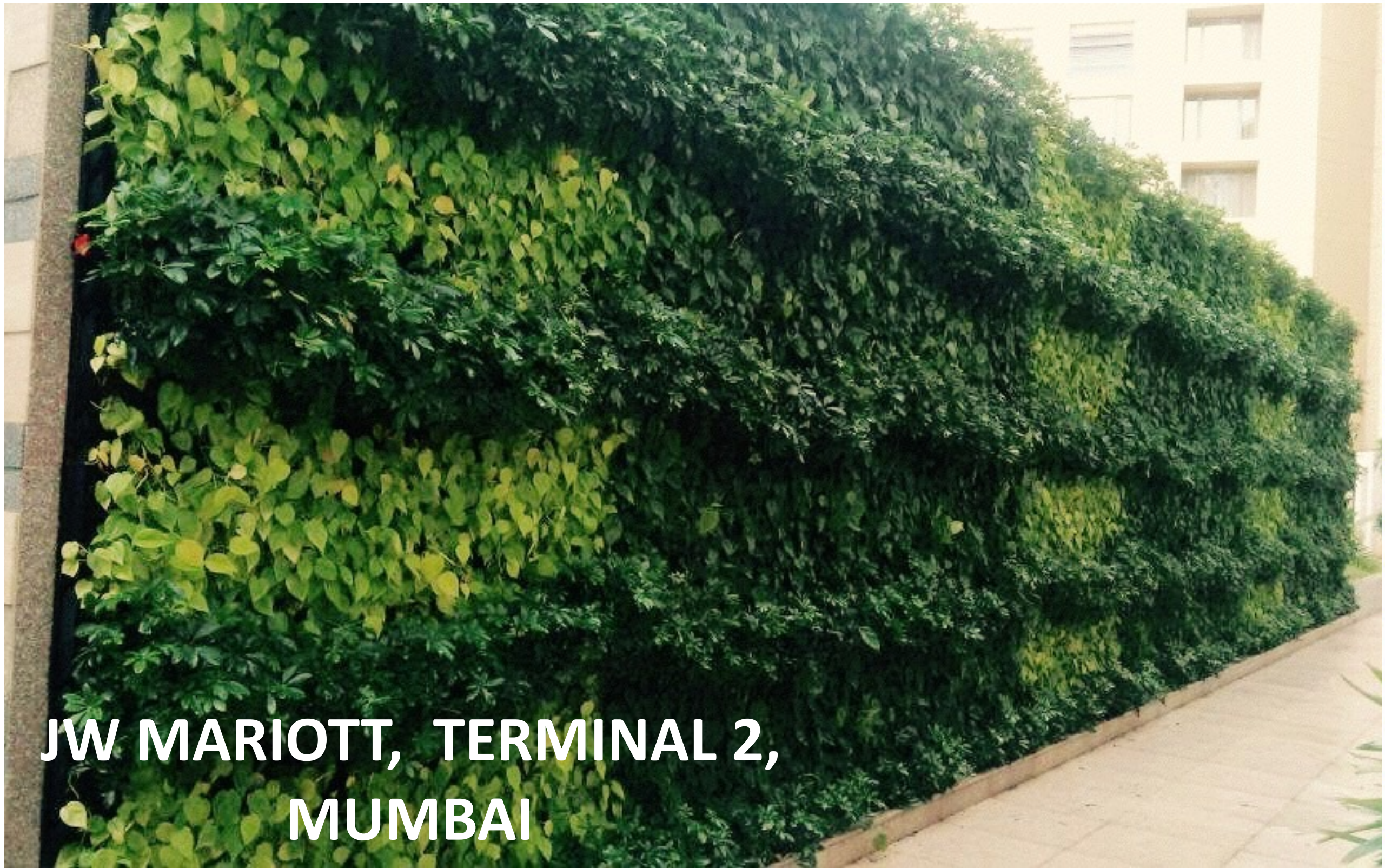
THRISSUR, KERALA.

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**JW MARIOTT, TERMINAL 2,
MUMBAI**

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**JW MARIOTT, TERMINAL 2,
MUMBAI**

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**KALPATARU INSPIRE,
MUMBAI**

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RASHTRAPATI BHAVAN

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**DURG, RAIPUR,
UTTARKHAND.**

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SAR, UDYOGVIHAR,
GURGAON

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**ELT
INDIA**

HOTEL REGENCY, BAHRAIN.

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**PRIVATE RESIDENCE,
MUMBAI**



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ELT LIVING WALL SYSTEM

WITH

HYDROPHILIC FOAM

ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



RELIANCE CENTER, MUMBAI

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ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



OBEROI, COMMERCE II,
MUMBAI

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ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



GREENERY IN GREEN BUILDINGS



ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM



MFAR, BANGLORE

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ELT LIVING WALL SYSTEM WITH HYDROPHILIC FOAM

AREA OF INSTALLATION : 1,596.00
AVERAGE LEAVES PER SQ. FEET : 156.00
ESTIMATED NUMBER OF LEAVES : 2,48,976
LEAVES SURFACE AREA PER SFT : 20.13
TOTAL LEAVES SURFACE AREA : 32,127.00



GREENERY IN GREEN BUILDINGS



**SELF WATERING VERTICAL
GARDEN SYSTEM**

LINEAR GREENS VERTICAL GARDEN SYSTEM

GREENERY IN GREEN BUILDINGS

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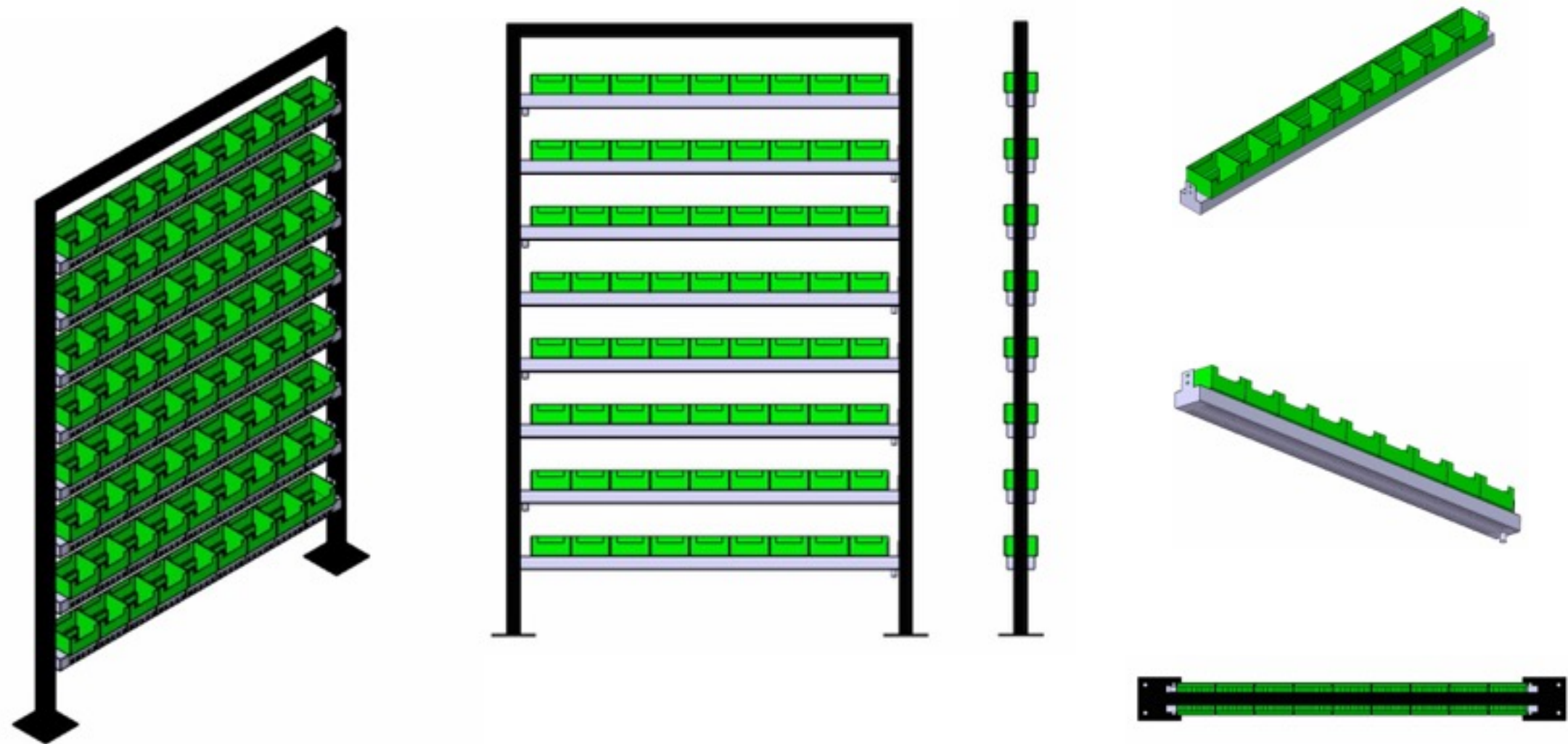
LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS

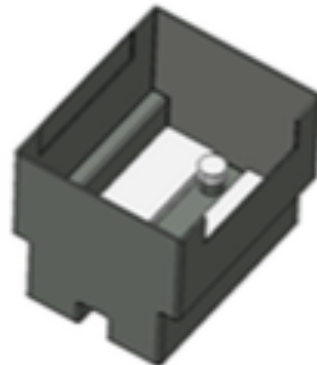
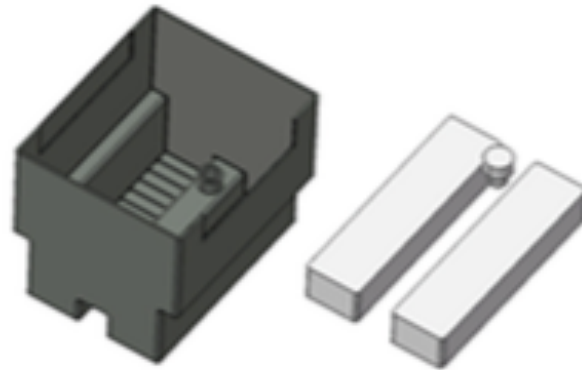


LINEAR GREENS VERTICAL GARDEN SYSTEM

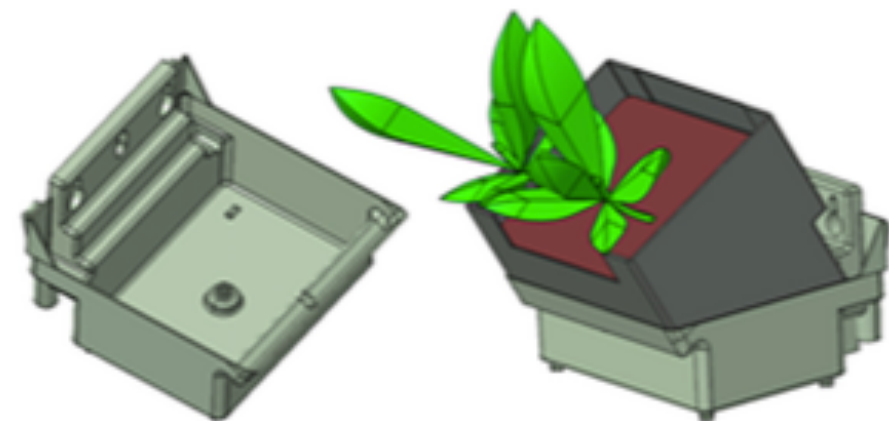
ELT Self Watering Vertical Garden System

This is made of ELT agro planter & Irrigation tray, Hydrophilic substrate, Growth Medium & Plants.

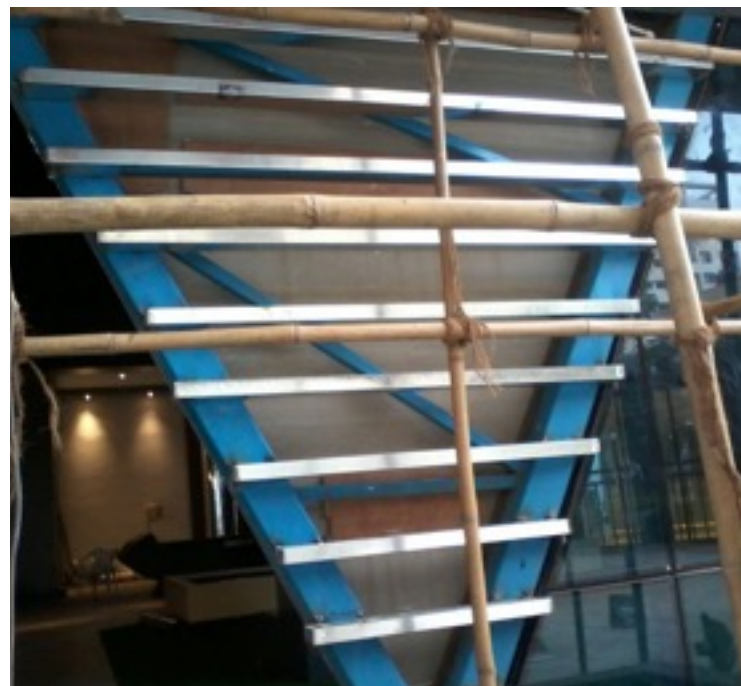
- Agro Planter is made of Polypropylene & has strength & long life. Hydrophilic substrate acts as filter blanket, retains water & provides anchorage to roots.
- Hydrophilic substrate is placed at the bottom of the planter.
- Planter is filled with Lightweight, porous, well drained ELT growth media which is a combination of inorganic & organic material. Depending on required looks & site conditions, plants varieties are chosen.



- ELT Agro Planters are mounted onto the wall or on framework using Irrigation trays. There are 2 different types of irrigation trays, one is Holder which is made from Polypropylene & each planter fits into the individual holder. This Holder in turn is fitted onto the wall or frame or mesh. Irrigation Tray can be continuous tray either of metal or suitable material.



LINEAR GREENS VERTICAL GARDEN SYSTEM



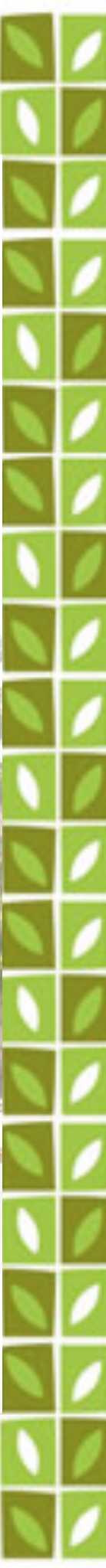
GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



LINEAR GREENS VERTICAL GARDEN SYSTEM



LINEAR GREENS VERTICAL GARDEN SYSTEM



LINEAR GREENS VERTICAL GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS





MODULAR GARDEN SYSTEM

GREENERY IN GREEN BUILDINGS



MODULAR GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



MODULAR GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



MODULAR GARDEN SYSTEM



GREENERY IN GREEN BUILDINGS



URBAN FARMING & VERTICAL FARMING



GREENERY IN GREEN BUILDINGS



URBAN FARMING & VERTICAL FARMING



GREENERY IN GREEN BUILDINGS



URBAN FARMING & VERTICAL FARMING



GREENERY IN GREEN BUILDINGS



URBAN FARMING & VERTICAL FARMING



GREENERY IN GREEN BUILDINGS





WIRE ROPE GREEN TRELLIS SYSTEMS



WIRE ROPE GREEN TRELLIS SYSTEMS



WIRE ROPE GREEN TRELLIS SYSTEMS



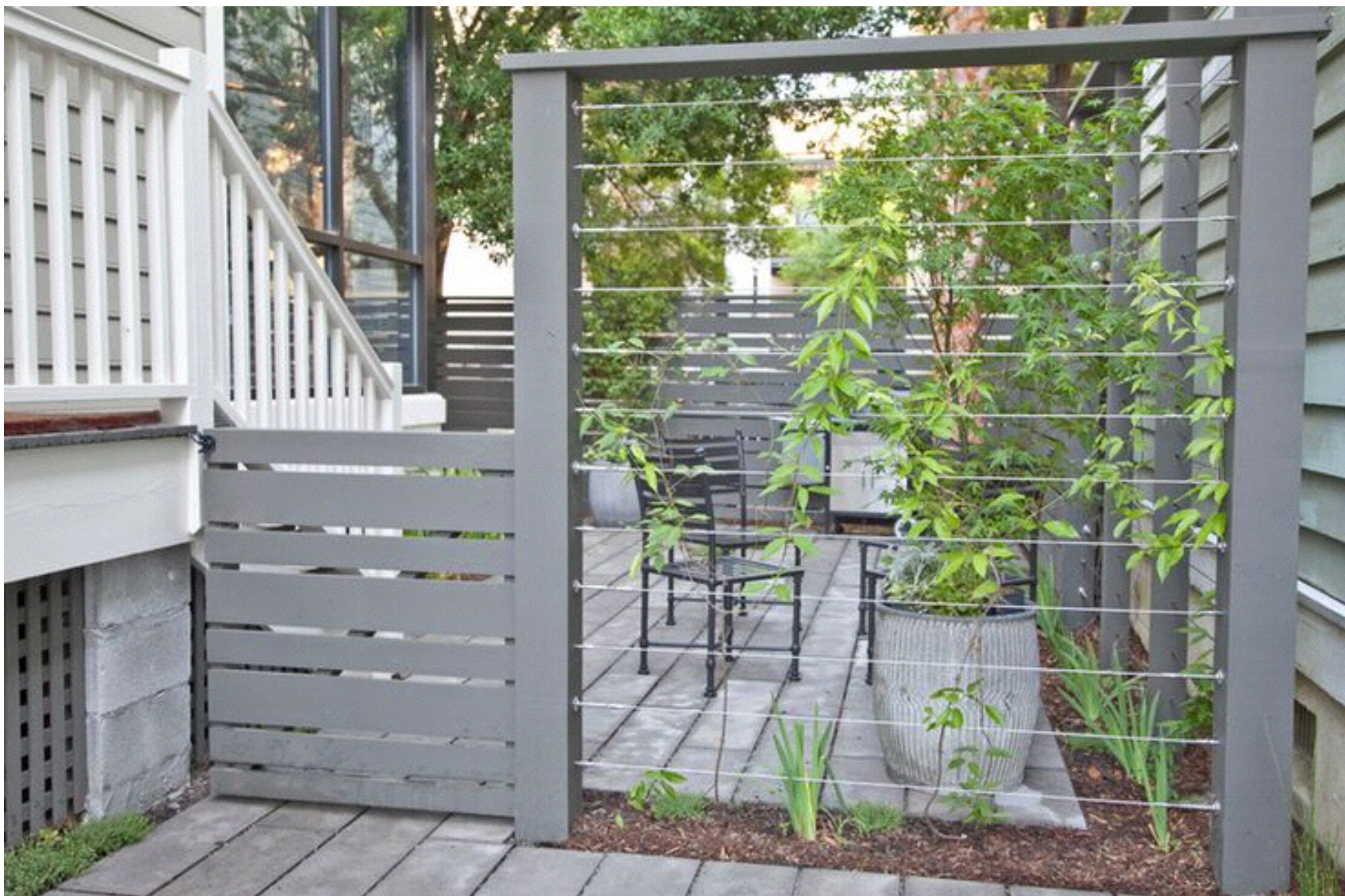
WIRE ROPE GREEN TRELLIS SYSTEMS



WIRE ROPE GREEN TRELLIS SYSTEMS



WIRE ROPE GREEN TRELLIS SYSTEMS



WIRE ROPE GREEN TRELLIS SYSTEMS



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.

WONDERGREEN BIO-CURTAIN



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



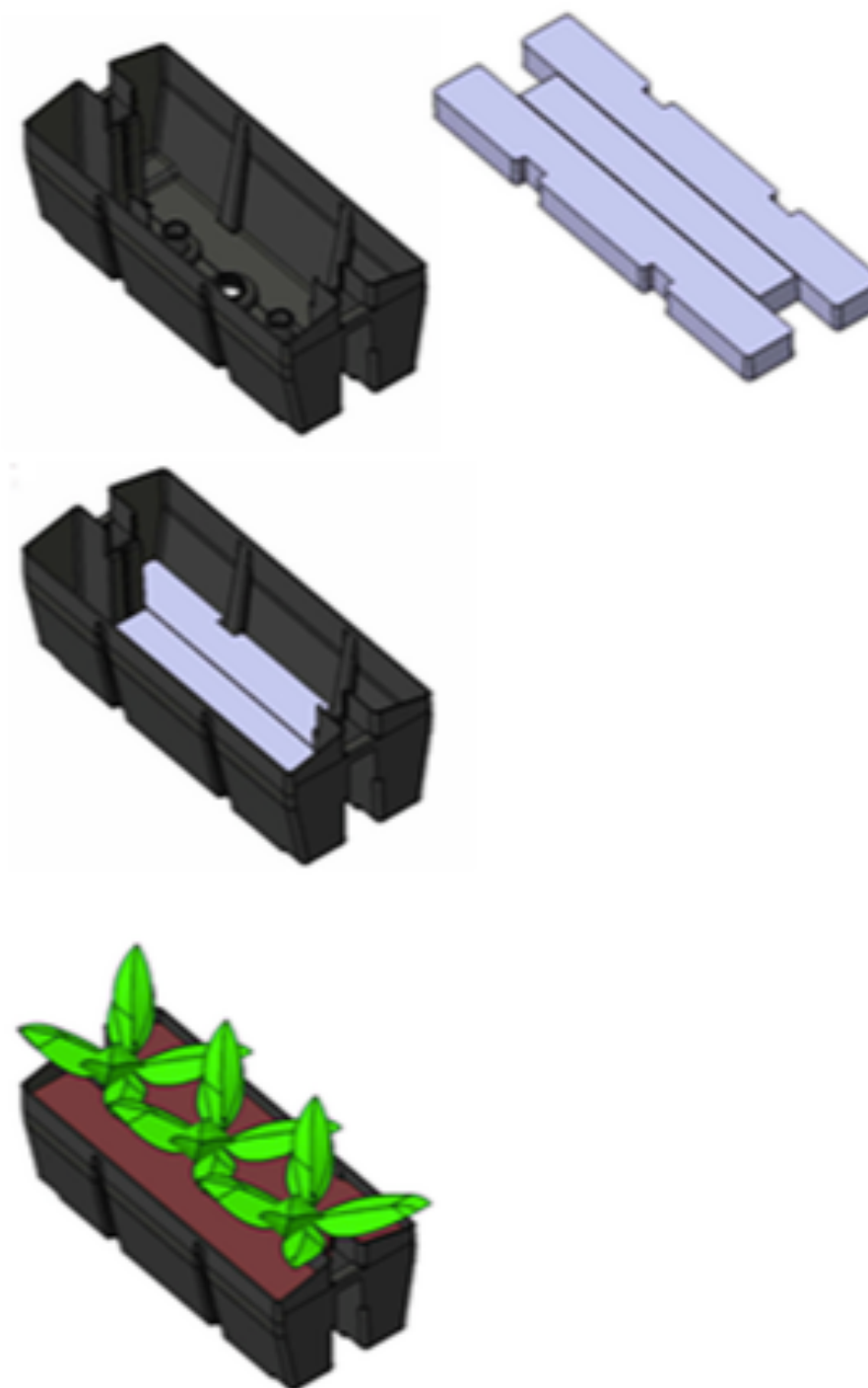
Wonder Green Bio Curtain

WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.

ELT Wonder Green System

This system consists of Module, Hydrophilic substrate, Joinery, Plants & Growth Medium.

- Module is made of Poly propylene & has strength & long life
Hydrophilic substrate acts as filter blanket, retains water & provides anchorage to roots.
- Hydrophilic substrate is placed at the bottom of the module.
- Module is filled with Light weight, porous, well drained ELT growth media which is a combination of inorganic & organic material.
Depending on required looks, site conditions, plants are planted in such filled module.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



WONDERGREEN BIO-CURTAIN INSTALLED ON WIRE ROPES.



**WONDERGREEN BIO-CURTAIN
INSTALLED ON WIRE ROPES.**



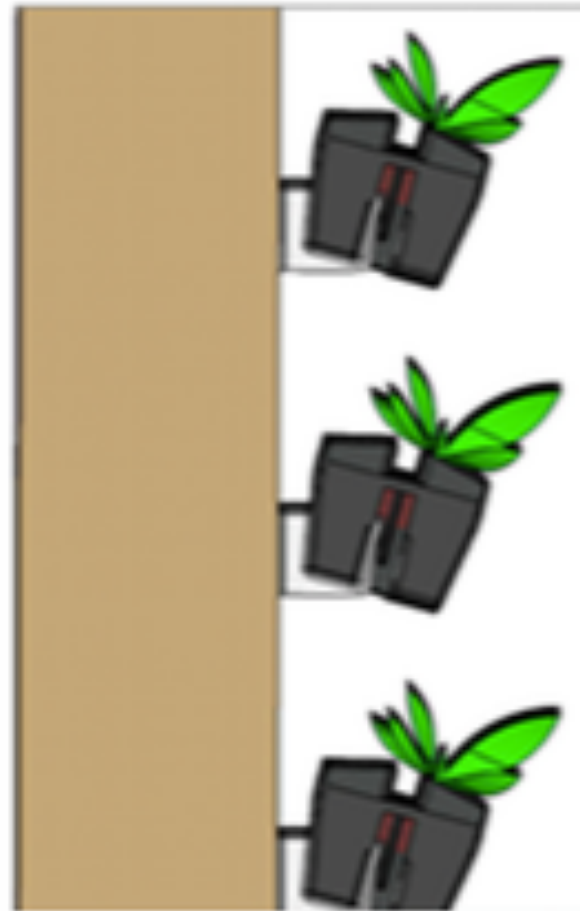
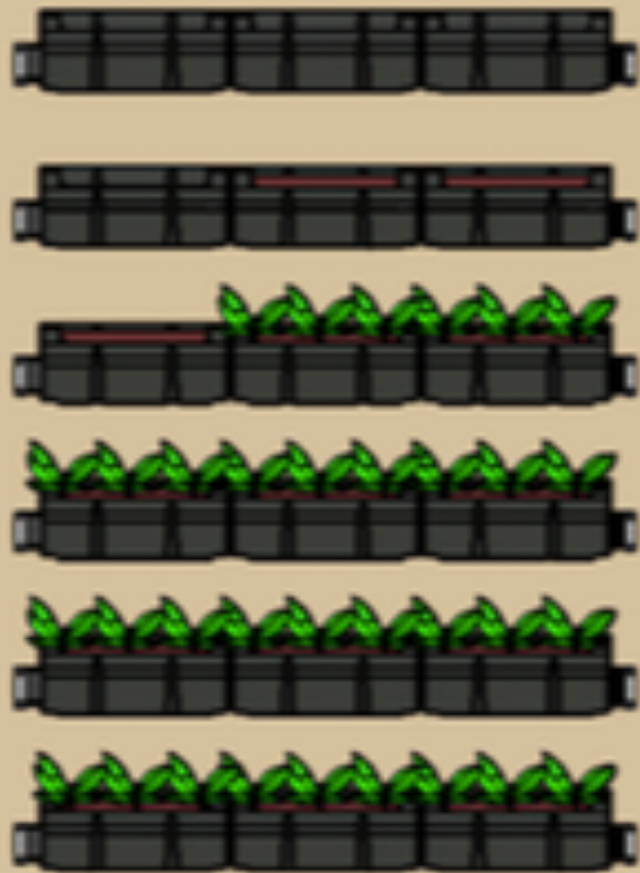


WALL MOUNTED BIO-WALL

WALL MOUNTED BIO-WALL



WALL MOUNTED BIO-WALL



WALL MOUNTED BIO-WALL



WALL MOUNTED BIO-WALL





GREEN ROOF SYSTEMS



GREEN ROOF SYSTEMS



GREEN ROOF SYSTEMS



GREEN ROOF SYSTEMS



GREEN ROOF SYSTEMS



3" THK URBAN FARMING ON GREEN ROOF



3'' THK URBAN FARMING ON GREEN ROOF



3" THK URBAN FARMING ON GREEN ROOF



3'' THK URBAN FARMING ON GREEN ROOF

- 1.Surface and subsoil hydrology
- 2.Root growth, Root Barriers and Air Pruning
- 3.Wind Velocity, Mechanical Anchoring of Shoot System and Root System
- 4.Light Intensity, Shade Path and Artificial Lights
- 5.Micro climate
- 6.Longevity of Soil Mix, Slow Biodegradability and Replenishment
- 7.Water Quality, Irrigation and Feeding
- 8.Sensor based automation of irrigation with remote monitoring facility.
- 9.Plant Protection, Organic and Green Approach
- 10.Load Factor and Soil Depth
- 11.Plant Selection

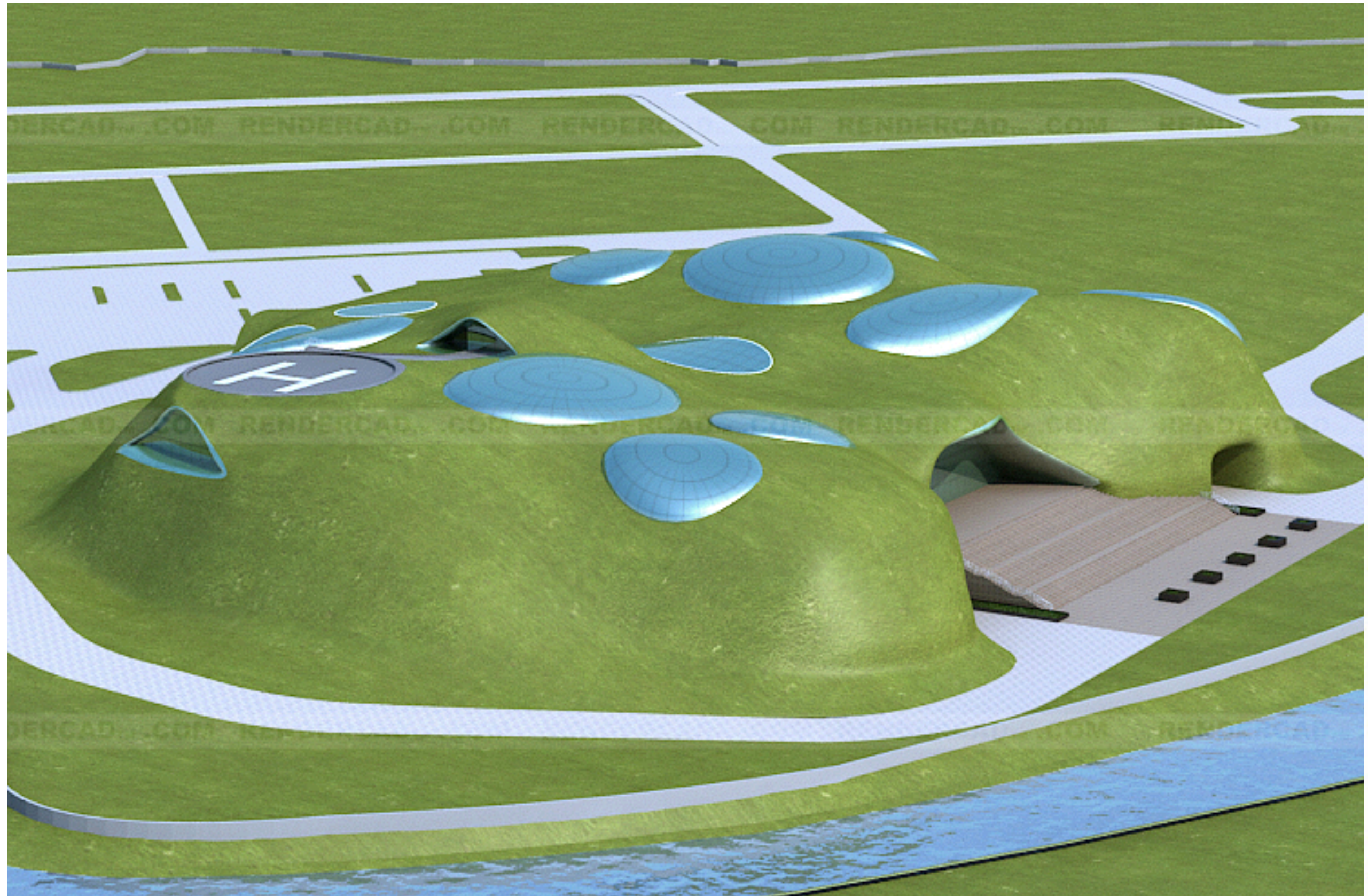
ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR

HOW WAS THIS MADE

ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR

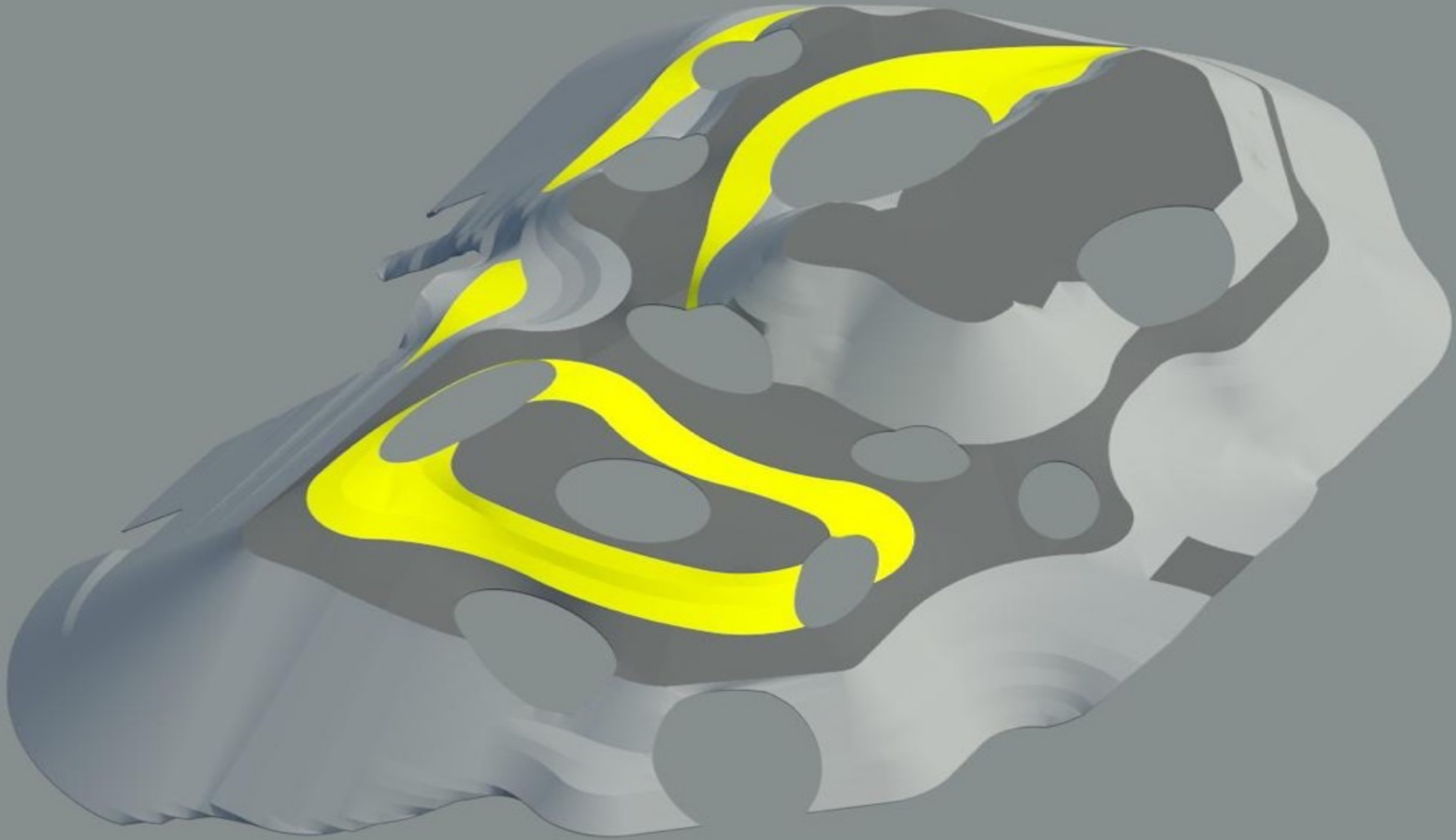


ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR



ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR

DIFFERENT SLOPES AND VALLEY FORMATIONS



ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR

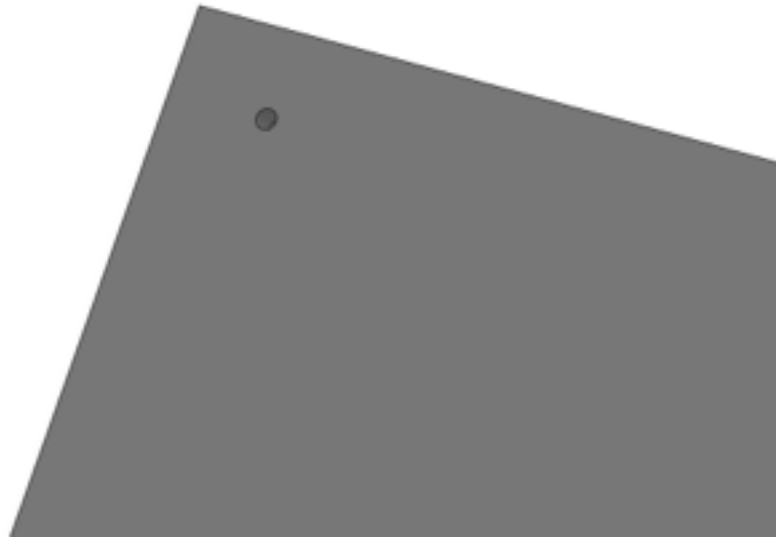
Method Statement to Install Ecogreen-Flexiroof on steep slope

Considering the slope, weight on studs, stability of soil and system, we have suggested the following methodology for installation 40 to 75 degree slope or have height more than 13 meters.

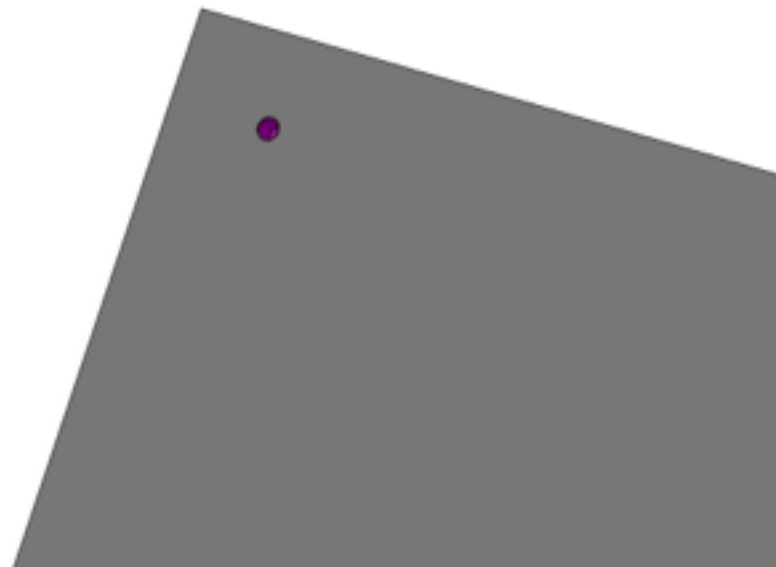
Method Statement

1. For slopes up to 15degrees: Conventional system with drainage board, geo textile & growth medium
2. For slopes up to 45 degrees:
 - a. Insert panel holders in the studs provided.
 - b. Lay ELT Drain board over surface.
 - c. Fix aluminum strips vertically and secure by fixing in the studs.
 - d. Fix soil stabilizers at a distance as per slopes.
 - e. Lay growth medium.
 - f. Lay lawn carpets of local species.
3. For slopes above 45 degrees: A - After waterproofing treatment, lay the drain board (by ELT) & the drain boards to be secured using the studs (by ELT), already fixed to the slab by others

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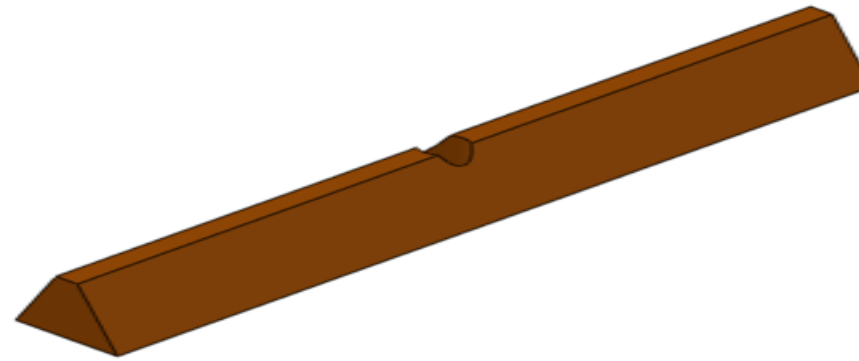
DRILL OVER BEAM



WATERPROOFING TREATMENT AS
PER SPECIFICATION BY OTHERS



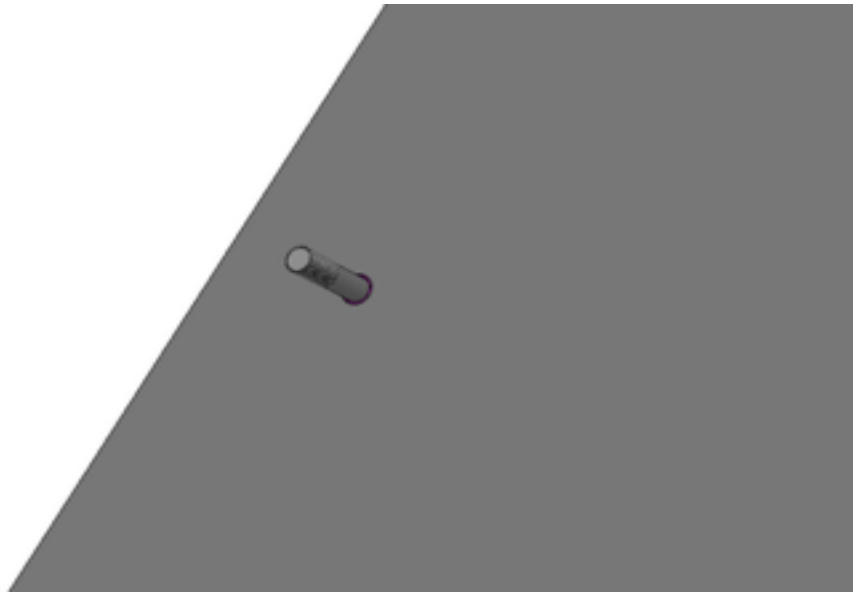
8 mm GI Stud and
Nut



Panel Holder Poly propylene
co-polymer



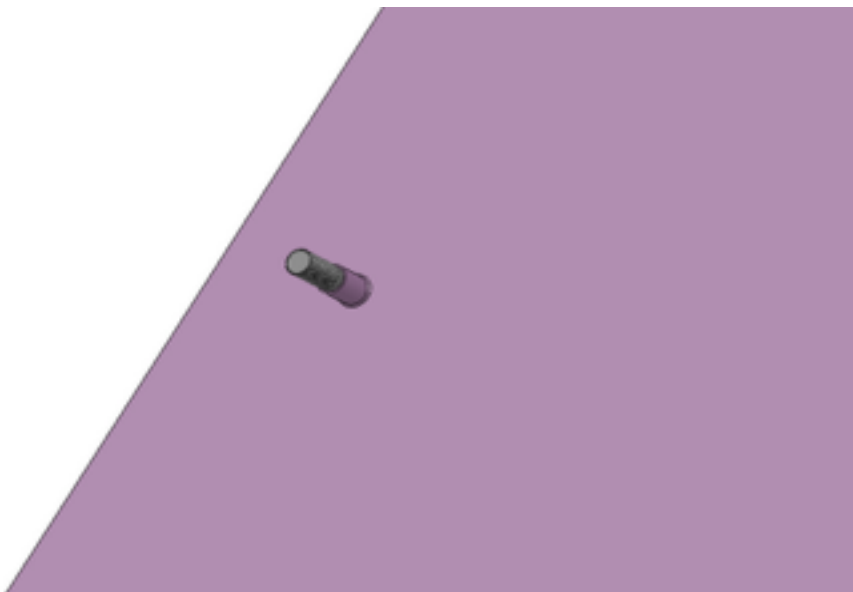
ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR



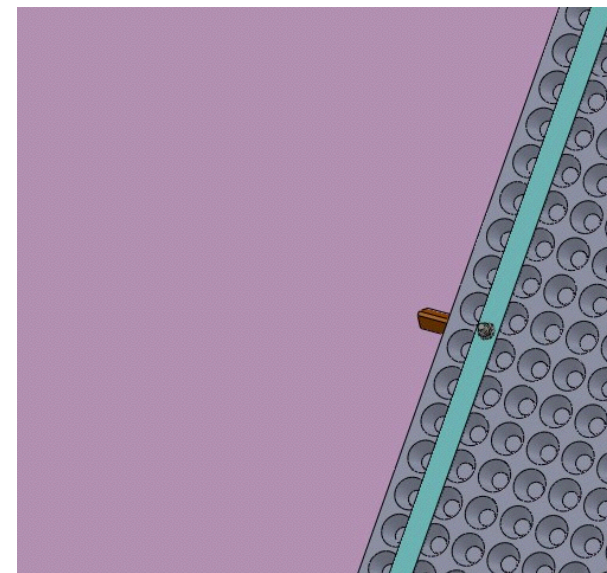
INSERTION OF STUD



INSERTION OF PANEL HOLDER



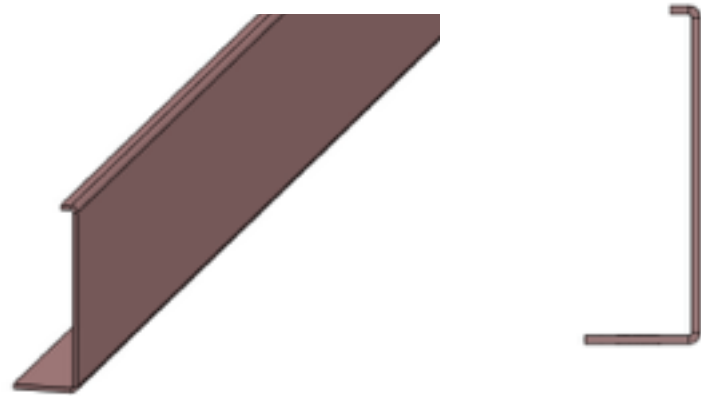
WATERPROOFING AS PER
SPECIFICATIONS
BY OTHERS



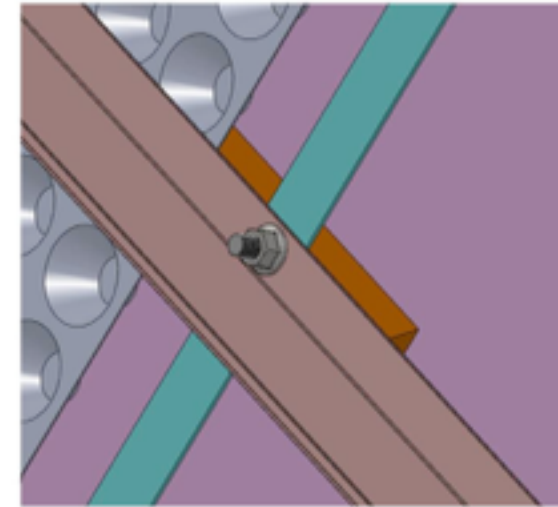
PANEL HOLDERS TO FIXED IN THE
STUD UNDER GREEN ROOF PANELS



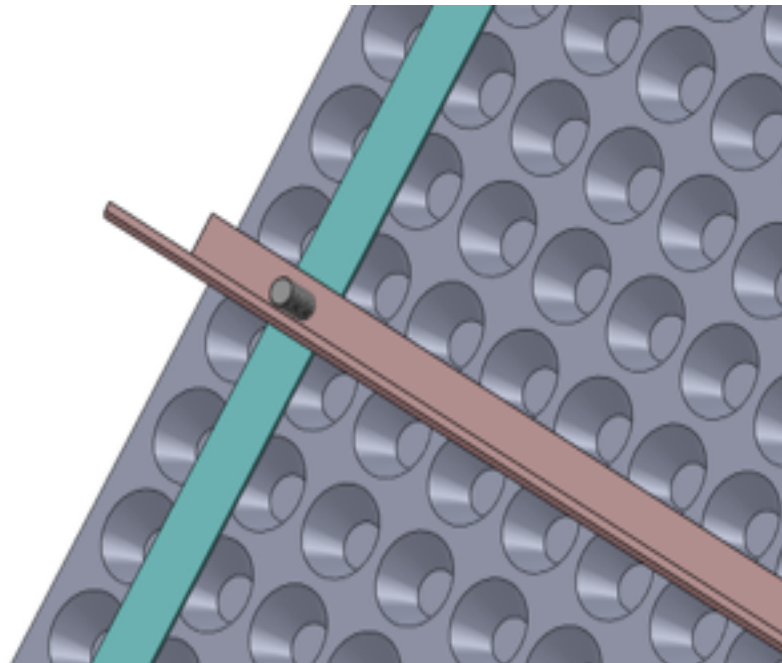
ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR



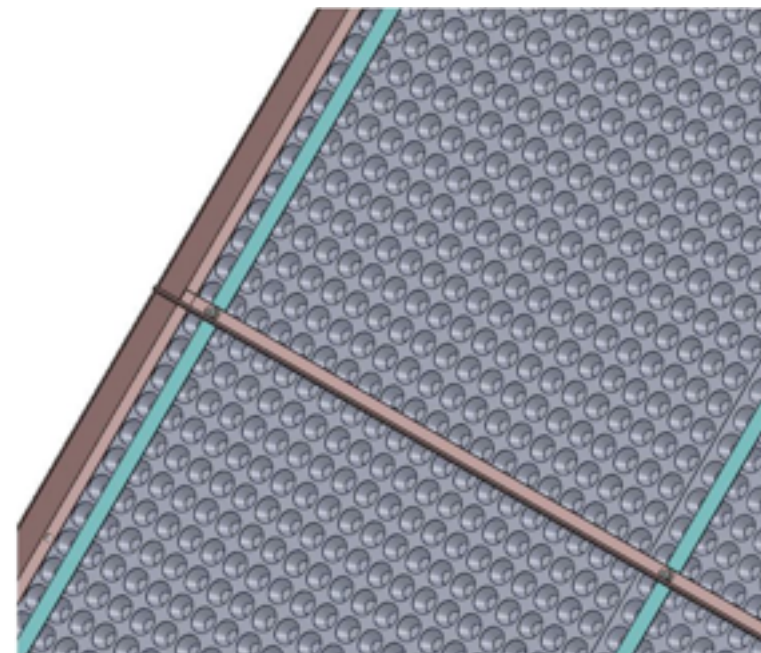
Soil Stabilizer



Typical Joints



Fixing Soil Stabilizer

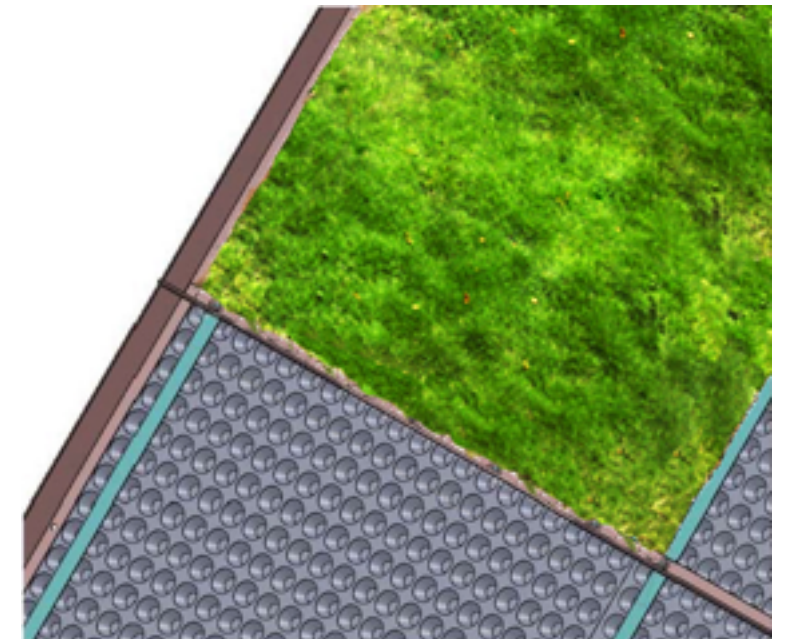
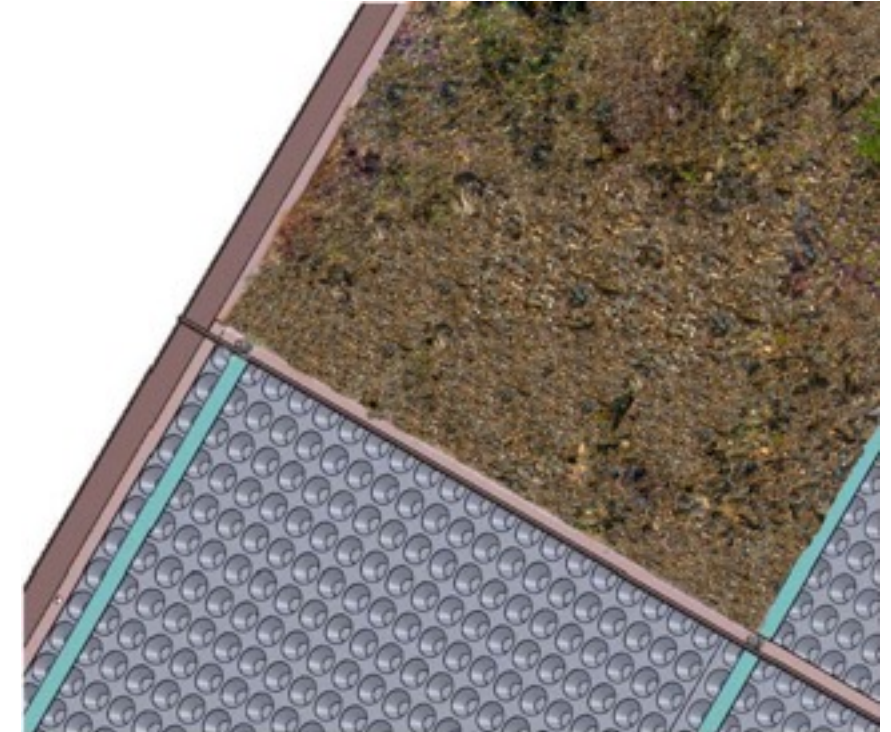
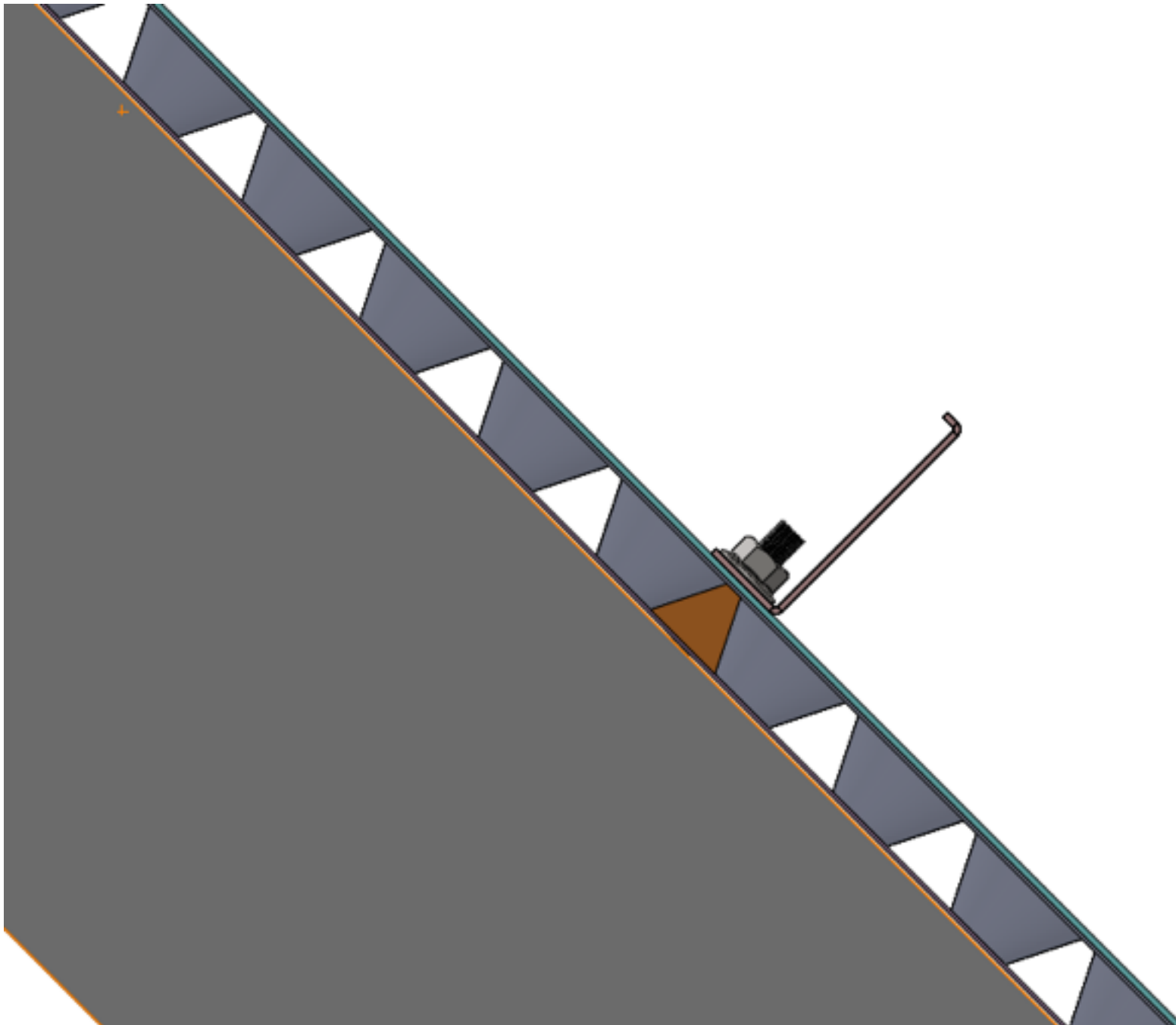


Typical Joints



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Fixing on Slopes



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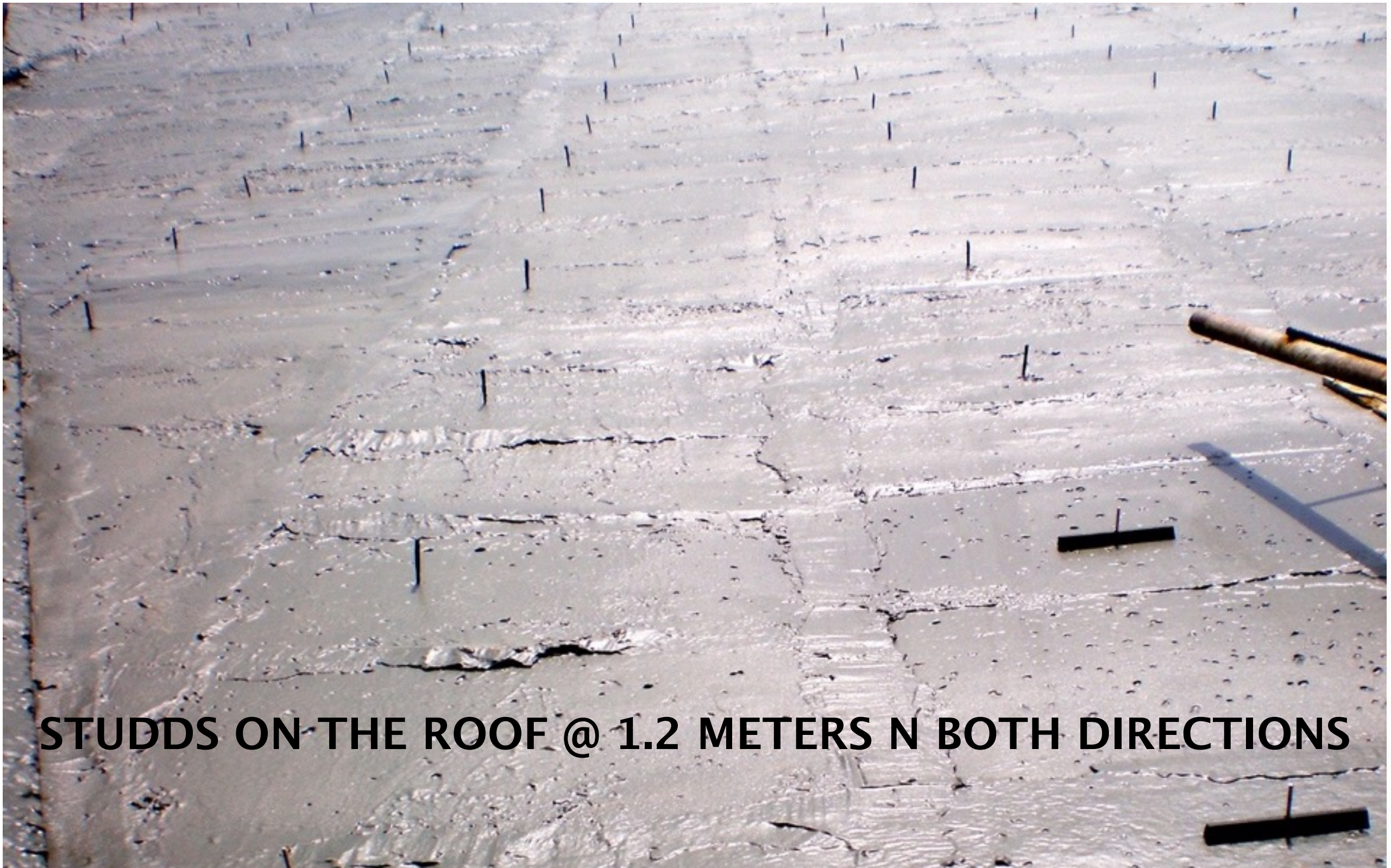
Mock Up & Similar Installations



ONGC, DEHRADUN. ARCH. HAFEEZ CONTRACTOR



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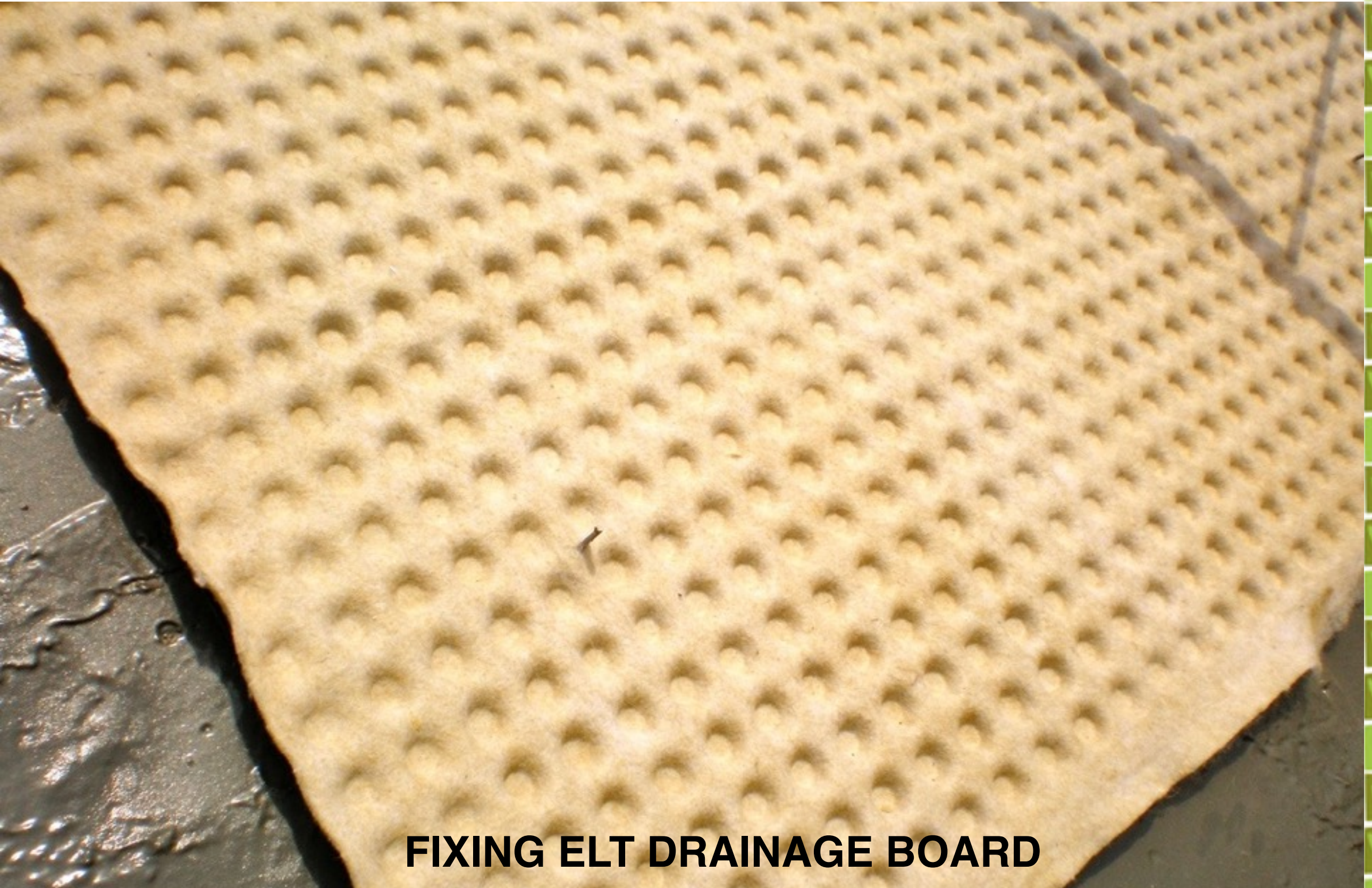


STUDDS ON THE ROOF @ 1.2 METERS IN BOTH DIRECTIONS

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FIXING ELT DRAINAGE BOARD



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13/09/2013 10:20

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CREAT 300% GREENERY IN URBAN HABITATS

HOW WAS THIS MADE

CREAT 300% GREENERY IN URBAN HABITATS



CREAT 300% GREENERY IN URBAN HABITATS



CREAT 300% GREENERY IN URBAN HABITATS

STONE PAVED AREA
ABOVE CONCRETE

SPACE FOR GRASS
JOINT

GREEN ROOF
MEMBER



CREAT 300% GREENERY IN URBAN HABITATS

**GROWTH
MEDIUM**



CREAT 300% GREENERY IN URBAN HABITATS



IRRIGATION LINES



CREAT 300% GREENERY IN URBAN HABITATS



CREAT 300% GREENERY IN URBAN HABITATS



CREAT 300% GREENERY IN URBAN HABITATS



MODULAR GREEN ROOF SYSTEM



MODULAR GREEN ROOF SYSTEM



MODULAR GREEN ROOF SYSTEM



MODULAR GREEN ROOF SYSTEM



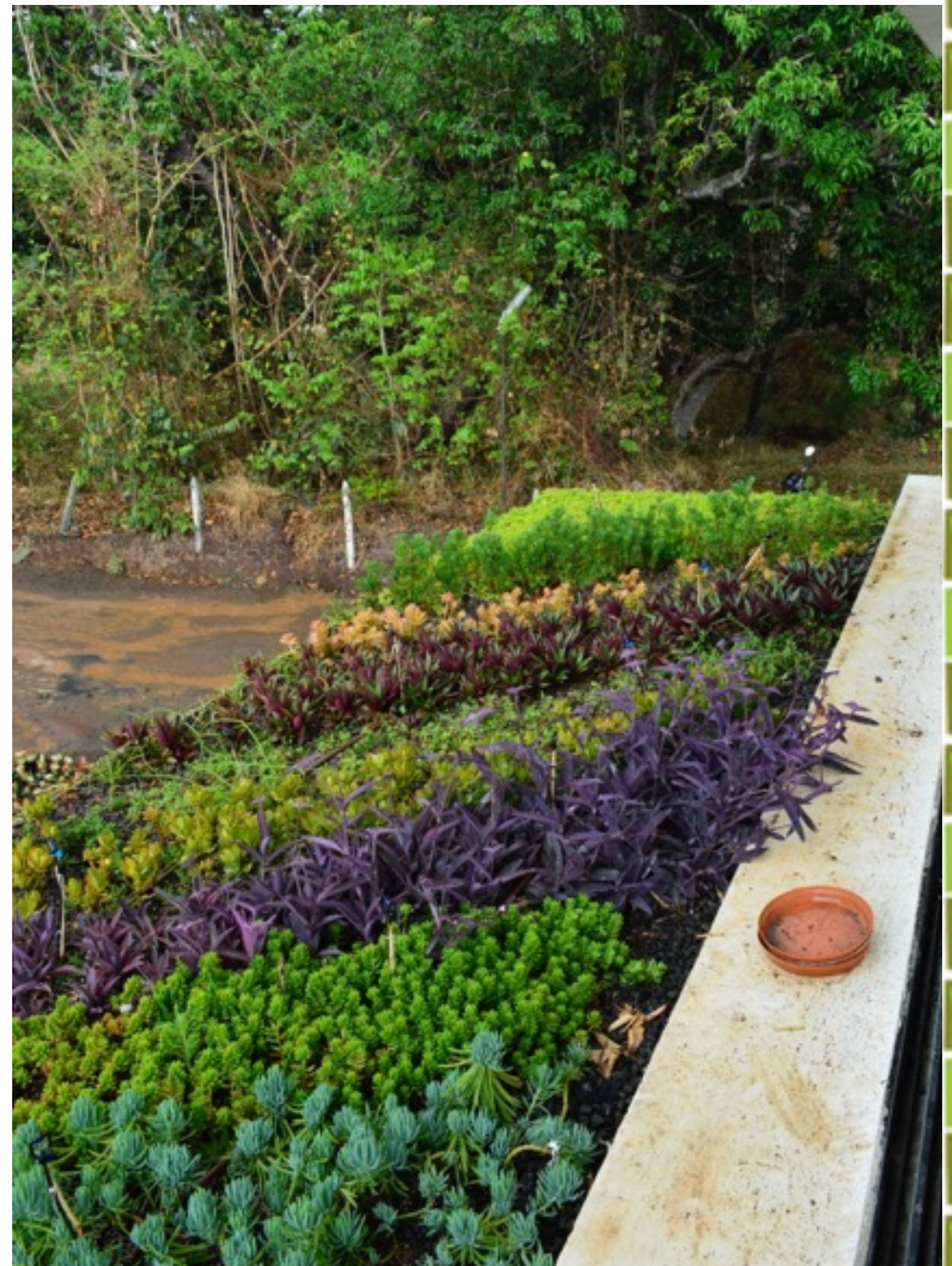
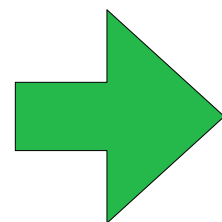
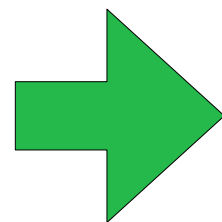
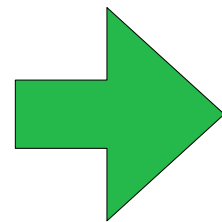
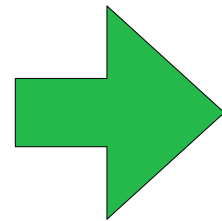
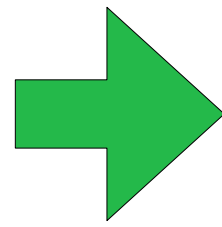
MODULAR GREEN ROOF SYSTEM



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF



GREEN ROOF ON TIN ROOF

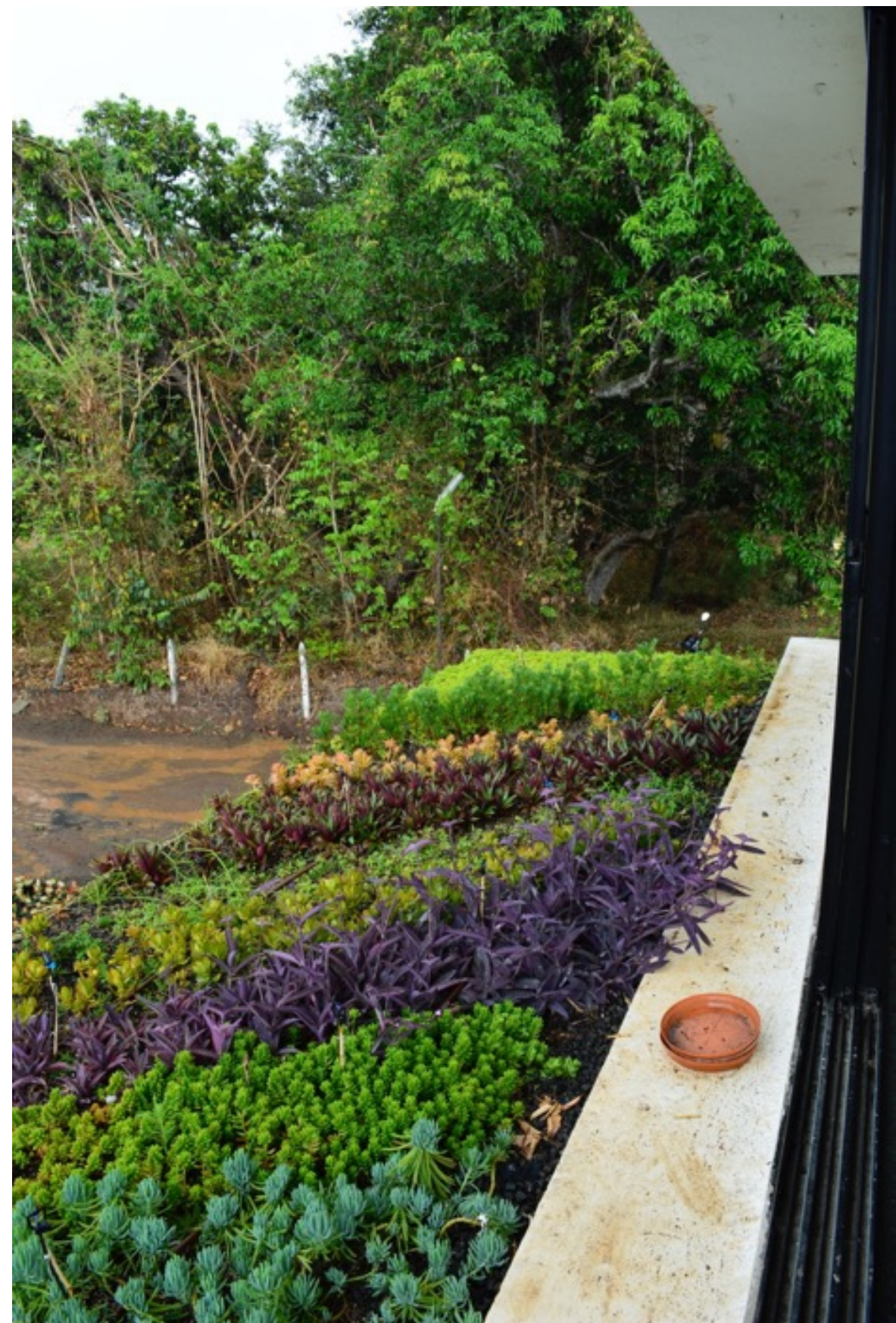


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GREEN ROOF ON TIN ROOF





THANK YOU

