



**GREENROOF
SYSTEMS**

Mumbai International Airport



India's largest green roof @ Mumbai International Airport



Green roof @ Mumbai International Airport



Green roof @ Mumbai International Airport









Complete planter beds @ sahar elevated road, Mumbai









YATI

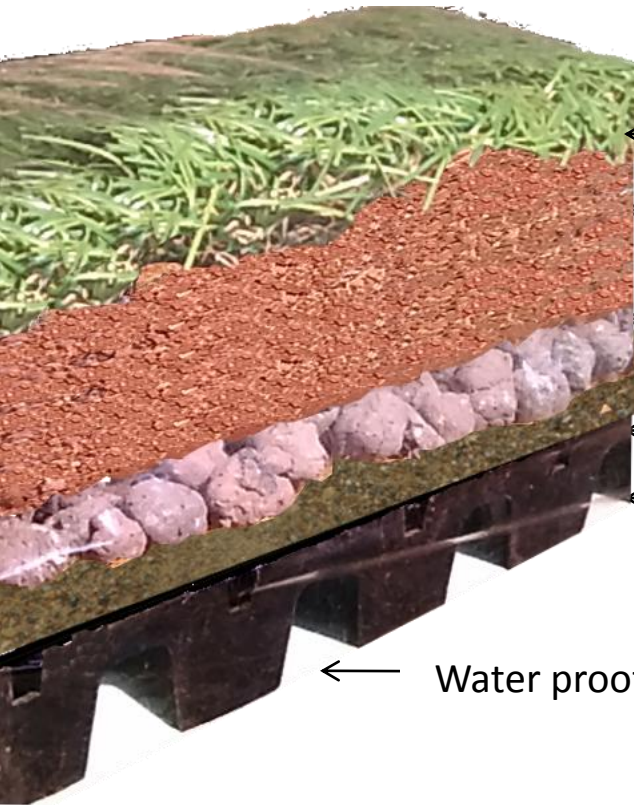








JKD Green Roof system

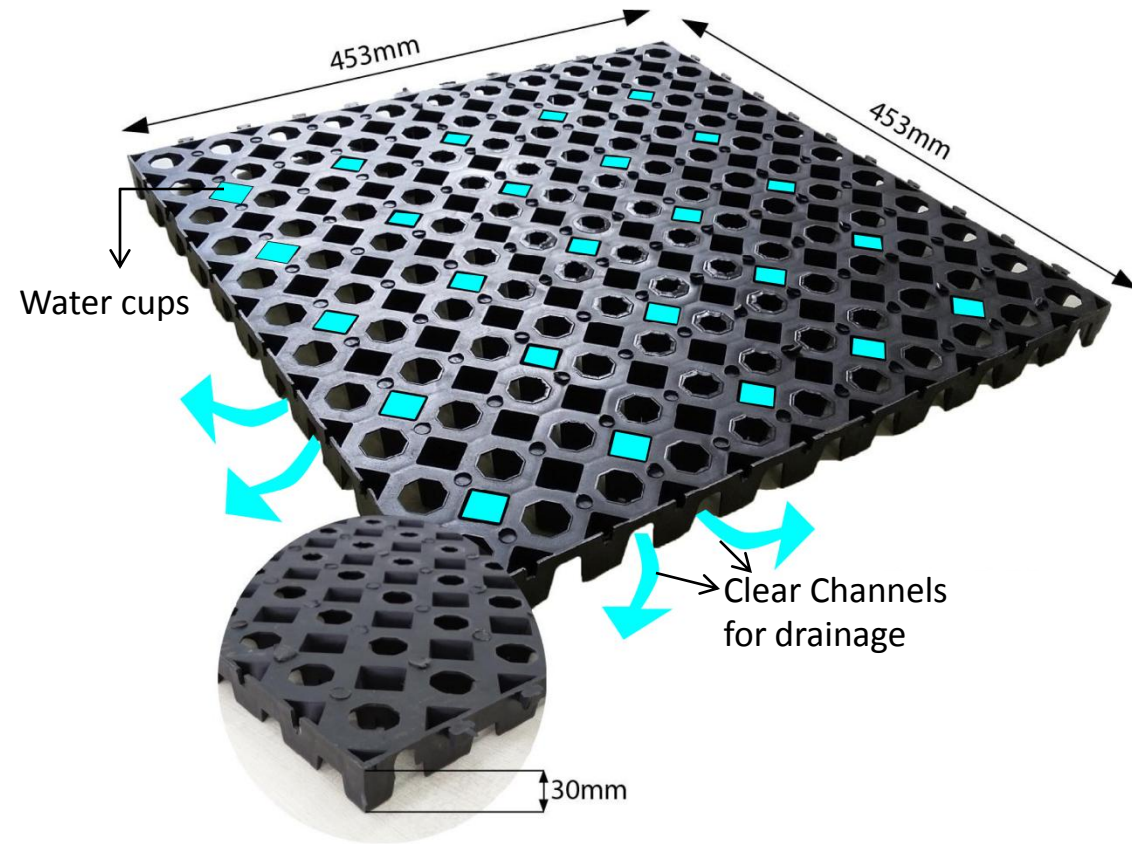


- ← Vegetation
- ← Planting Medium
- ← JKD Xlay
- ← Sand / gravel layer
- ← JKD Geotextile
- ← JKD Draincells
- ← Water proofing layer on RCC roof structure



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Aquaduct  SUB-SURFACE DRAINAGE SOLUTION **Draincells 20**

Aquaduct  SUB-SURFACE DRAINAGE SOLUTION **Draincells 30**

Hydrocup  WATERCUPS + SUB-SURFACE DRAINAGE **Draincells 30**

- excellent drainage
- water storage in cups
- reduces irrigation frequency
- injection Molded
- recycled Polypropylene
- strong
- long life

Drainage layer



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Non-Woven Geotextile

- geotextile fabric
- filters water
- quick & easy installation
- long life

filtration layer



JKD Xlay



Expanded clay (Xlay) is a light weight aggregate made by heating clay to around 1,200 °C (2,190 °F) in a rotary kiln. The yielding gases expand the clay by thousands of small bubbles forming during heating producing a honeycomb structure.

Xlay has an approximately round or potato shape due to circular movement in the kiln, and is available in different sizes and densities.



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Features

- Resist clogging and improves drainage
- Provides superior aeration
- Promotes growth of plant roots
- Supports plant survival
- Increases insulation
- soundproofing by high acoustic resistance
- Improves water quality
- Fire resistant
- Incompressible under gravity loads
- Freezing and melting resistance
- Long life
- Light weight
- Reusable
- Chemically neutral

Ideal for mixing with the planting medium to reduce the load on green roof and green wall structure

Technical Specifications - Xlay

- Particle size: 5-10 mm, 7-15mm
- Bulk Density: 300 to 750 Kg/m³
- Cylinder Compressive Strength : 0.6 to 3.0 N/mm²
- Dry Thermal Conductivity : 0.09 to 0.10 W/mK
- Surface Alkalinity: 7 to 9 pH
- Water Absorption: 18 to 20 % of size

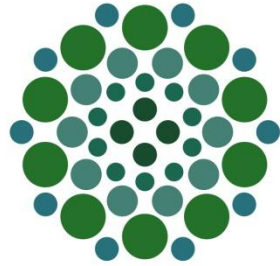
Applications

- Urban Landscaping : Green roofs, Green walls, Roof Gardens, planter beds
- Gardening : Landscaping, planter beds, Plant Pots, sports fields
- Agriculture : Agriculture, Horticulture, Hydroponics.

Installation - Xlay

- 1) Prepare a base layer by spreading Xlay which is of 10-20% of the container or the area.
- 2) Mix Xlay and soil in equal quantity including organic matter. Mixture is spread by 60-80% of the container or the area.
- 3) Complete seeding or planting.
- 4) Top layer as dressing by spreading 10-20% of the container or area.

Note: Top dressing is not required for lawns.



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