

DATA SHEET

SKY GARDEN PLANTER MIX SGPM01

Version 1.0

SKY GARDEN PLANTER MIX

The Planter Mix Substrate is a premium, high-performance growing medium designed for use in raised planters, roof gardens, containers, and podium landscapes. Engineered to provide excellent structure, drainage, and nutrient availability, it supports a wide range of vegetation types—from ornamental perennials to small shrubs and trees.



SYSTEM CONSIDERATIONS

- Designed to retain sufficient moisture for plant health while avoiding waterlogging.
- Provides structure and aeration that supports strong, healthy root systems.
- Suitable for rooftop and podium applications where weight is a critical factor.
- Contains balanced organic content to sustain plant growth over time without rapid degradation.
- Made with recycled or responsibly sourced materials, suitable for a wide range of planting applications.

PHYSICAL PROPERTIES

Bulk Density When Oven Dried	0.70 – 0.85 g/cm ³ Lightweight for rooftop loading and container use
Bulk Density at Field Capacity	0.90 – 1.00 g/cm ³ Moisture-retentive while remaining aerated
Field Capacity (% v/v)	40 – 45% High water retention for summer resilience
Total Porosity (%)	55 – 65% Excellent structure for root health
Porosity at Field Capacity (%)	15 – 20% Good air retention post-watering

TECHNICAL PROPERTIES

Organic matter (% weight)	12 – 15% Moderate-high to support nutrition and microbial activity
pH	6.0 – 7.0 Slightly acidic to neutral – ideal for ornamental and edible plants
Electrical Conductivity (mS cm ⁻¹)	0.8 – 1.5 Moderate – reflects nutrient-rich mix without
Phosphate (mg l ⁻¹)	20 – 35 mg/L Supports root and flower development
Potassium (mg l ⁻¹)	200 – 300 mg/L High to support flowering and fruiting
Total nitrogen (%)	0.8 – 1.2% Supports leafy growth and establishment

SPECIFICATION DESCRIPTION

This mix combines lightweight aggregates with carefully blended organic matter to achieve optimal water retention while preventing compaction. It is ideal for both intensive and extensive planting schemes where root development, moisture management, and structural stability are key.

n.b. these substrate blends are currently undergoing independent laboratory analysis by STRI (Sports Turf Research Institute) to validate physical, chemical, and biological performance. Full test reports will be made available upon completion and can be provided to clients on request.



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