

## DATA SHEET

# SKY GARDEN STANDARD TREE SUBSOIL MIX STSS01

Version 1.0

## SKY GARDEN STANDARD TREE SUBSOIL MIX

The Standard Tree Subsoil Mix is a specially formulated mineral-based growing medium designed for use beneath topsoil in tree planting schemes. This subsoil mix provides essential structural support and a balanced environment for root development, ensuring long-term tree health in both urban and landscaped environments.



## SYSTEM CONSIDERATIONS

- Provides a stable, aerated foundation for deep root penetration and anchorage.
- Reduces the risk of waterlogging, ensuring adequate oxygen reaches the root zone
- Minimizes excessive microbial activity and nutrient leaching, promoting long-term soil stability.
- Allows root penetration
- Works seamlessly beneath approved topsoil to support layered planting systems.
- Meets BS 8601:2013 standards and is screened to remove large stones, debris, and harmful materials.

## PHYSICAL PROPERTIES

Bulk Density When Oven Dried	1.30 – 1.45 g/cm <sup>3</sup> Typical for mineral-based subsoils
Bulk Density at Field Capacity	1.45 – 1.65 g/cm <sup>3</sup> Includes water held after drainage
Field Capacity (% v/v)	25 – 30% Moderate moisture holding suitable for subsoil
Total Porosity (%)	35 – 45% Ensures gas exchange and root health
Porosity at Field Capacity (%)	10 – 15% Aeration after saturation

## TECHNICAL PROPERTIES

Organic matter (% weight)	1.5 – 3.0% Low, suitable for subsoil classification
pH	6.2 – 7.5 Neutral to slightly acidic – ideal for most trees
Electrical Conductivity (mS cm <sup>-1</sup> )	<1.2 mS/cm Low – indicates low soluble salt content
Phosphate (mg l <sup>-1</sup> )	<10 mg/L Low – aligns with subsoil nutrient guidelines
Potassium (mg l <sup>-1</sup> )	<150 mg/L Adequate for establishing woody species
Total nitrogen (%)	<0.5% Minimal nitrogen – ensures controlled early growth

## SPECIFICATION DESCRIPTION

Produced with carefully screened sandy loam or sandy clay materials, the mix maintains excellent drainage properties while allowing adequate moisture retention. Its low organic matter content helps prevent nutrient imbalances and excessive biological activity, making it ideal for establishing stable rooting zones below topsoil layers.

*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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