



Test Results:

Light Weight Planter Box Mix

The A horizon or lightweight planter box mix is the top layer of the mineral soil horizons, above the B Horizon Planter Box Mix. The Lightweight Planter Mix is excellent for installation into the top 300 – 400 mm of a contained environment such as planter boxes and podiums. It provides great nutrition for continued root growth.

The A Horizon Mix is compared to Leake and Haege (2014) Specification E1: On-Slab Soil Media A-Horizon. We use the standards as a tool and environmental compliant testing. Scapeworks Australia engages 'The Urban Soil Doctor' to undertake in-situ sample collection at the Scapeworks site.

November 2024

Physical Properties		Unit	Target Range	Results
Texture		n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity		%	≥10	13.6
Water-Holding Capacity		%	≥ 40	54.7
Permeability (@16 Drops)		mm/hr	> 100	3,961
Organic Matter		% w/w	< 15	19.2
Wettability (AS4419)		min	≤5	2m 46s
Dispersibility		Category	1 or 2	3
< 2 mm			30 - 70	-
Large Particles	2 -10 mm	% ww	10 - 20	20.0
	10 - 20 mm		5 - 10	38.9
	20 - 50 mm		< 5	0
	> 50 mm		0	0
Chemical Properties		Unit	Target Range	Results
pH in water (1:1:5)		pH units	5.4 - 6.8	7.4
Electrical Conductivity		dS/m	< 2.2	1.6
Chloride		mg/ L	≤ 200	270
Ammonium-N (NH4)		mg/ L	≤ 100	0.6
Ammonium-N + Nitrate-N (NH4 + NO3)		mg/ L	≥ 50	2.2
Nitrogen Draw-Down Index		-	≥ 0.7	.01
Bioassay		mg/ L	≥ 70	90.3
Phosphorus		mg/ L	8 - 40	18.2
Low Phosphorus - P-Sensitive plant		mg/ L	< 3	18.2
Potassium		mg/ L	50 - 250	351
Sulphate (SO4)		mg/ L	> 40	47.6
Calcium (Ca)		mg/ L	≥ 80	127
Magnesium (Mg)		mg/ L	≥ 15	29.9
Ca:Mg Ratio		Ratio	1.5 - 10	4.3
K:Mg Ratio		Ratio	1 - 7	11.7
Sodium (Na)		mg/ L	≤ 130	130
Iron (Fe)		mg/ L	≥ 35	28
Copper (Cu)		mg/ L	0.4 - 15	0.5
Zinc (Zn)		mg/ L	0.3 - 10	4.6
	Manganese (Mn)	mg/ L	1 - 15	3.9
Boron (B)		mg/ L	0.02 - 0.65	0.3
Ad	ditional Testing	Units	Target Range	Results
Saturated Density		kg/L	< 2.4	1.2
Dry Bulk Density		Kg/L	No Requirement	0.5
Asbestos Polarized Light Microscope and dispersion staining method.		<u> </u>	None Detected	None Detected



Scapeworks Light Weight Planter Box Mix - A Horizon tests as Grade A soil for unrestricted use. The Urban Soil Doctor (TUSD) was requested by Scapeworks Australia to conduct in-situ sample collection at Scapeworks Australia's yard, also oversees, analyses and reports on products collected. CPSS Principal Soil Scientist BSc Env Sci, PGCert Green Infrastructure, CPSS