



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.

May 2025

Physical Properties	Unit	Target Range	Results
Texture	n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity	%	≥ 10	22.7
Water-Holding Capacity	%	≥ 40	45.3
Permeability (16 Drops)	mm/hr	> 100	6237
Organic Matter	% w/w	< 15	21.2
Wettability (AS4419)	min	≤2	>2
< 2 mm	% ww	30 - 70	60
. 2 -10 mm		10 - 20	40
Large 10 - 20 mm		5 - 10	
Particles 20 - 50 mm		<5	0
> 50 mm		0	
Chemical Properties	Unit	Target Range	Results
pH in water (1:1:5)	pH units	5.4 - 6.8	7.39
Electrical Conductivity	dS/m	< 2.2	2.14
Chloride	mg/ L	≤ 200	388
Ammonium-N (NH4)	mg/ L	≤ 100	1.18
Ammonium-N + Nitrate-N (NH4 + NO3)	mg/ L	≥ 50	2.07
Nitrogen Draw-Down Index	-	≥ 0.7	0.08
Toxicity Index	mm	≥ 70	72.8
Phosphorus	mg/ L	8 - 40	24.9
Low Phosphorus - P-Sensitive plant	mg/ L	< 3	24.9
Potassium	mg/ L	50 - 250	322
Sulphate (SO4)	mg/ L	> 40	13.1
Calcium (Ca)	mg/ L	≥ 80	120
Magnesium (Mg)	mg/ L	≥ 15	34.8
Ca:Mg Ratio	Ratio	1.5 - 10	3.46
K:Mg Ratio	Ratio	1 - 7	11.7
Sodium (Na)	mg/ L	≤ 130	177
Iron (Fe)	mg/ L	≥ 35	24.5
Copper (Cu)	mg/ L	0.4 - 15	0.22
Zinc (Zn)	mg/ L	0.3 - 10	2.83
Manganese (Mn)	mg/ L	1 - 15	8.37
Boron (B)	mg/ L	0.02 - 0.65	0.28
,			
Additional Testing	Units	Target Range	Results
Saturated Density	kg/L	< 2.4	1.18
Dry Bulk Density	Kg/L	No Requirement	0.3
Asbestos		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