

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.

Test Results:

August 2025

Physical Properties	Unit	Target Range	Results
Texture	n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity	%	10 - 20	16
Water-Holding Capacity	%	40 - 50	49.5
Permeability (16 Drops)	mm/hr	> 100	757
Organic Matter	% w/w	< 15	20.1
Water Repellence	Seconds	≤ 60	31
Chemical Properties	Unit	Target Range	Results
pH in water (1:1:5)	pH units	5.4 - 6.8	7.24
Electrical Conductivity	dS/m	< 2.2	2.32
Chloride	mg/ L	≤ 200	456
Ammonium-N (NH ₄)	mg/ L	≤ 100	4.1
Ammonium-N + Nitrate-N (NH ₄ + NO ₃)	mg/ L	50 - 100	20.5
Nitrogen Draw-Down Index	-	≥ 0.7	0.02
Toxicity Index	mm	≥ 70	84.7
Phosphorus – P standard range	mg/ L	8 - 40	29.8
Low Phosphorus – P-Sensitive plant	mg/ L	< 3	29.8
Potassium (K)	mg/ L	50 - 250	431
Sulphate (SO ₄)	mg/ L	> 40	10.1
Calcium (Ca)	mg/ L	≥ 80	120
Magnesium (Mg)	mg/ L	≥ 15	34.5
Ca:Mg Ratio	Ratio	1.5 - 10	3.47
K:Mg Ratio	Ratio	1 - 7	12.5
Sodium (Na)	mg/ L	≤ 130	183
Iron (Fe)	mg/ L	≥ 35	38.2
Copper (Cu)	mg/ L	0.4 - 15	0.47
Zinc (Zn)	mg/ L	0.3 - 10	3.97
Manganese (Mn)	mg/ L	1 - 15	7.77
Boron (B)	mg/ L	0.02 - 0.65	0.24
Additional Testing	Units	Target Range	Results
Saturated Density	kg/L	1.8 - 2.4	1.18
Dry Bulk Density	Kg/L	No Requirement	0.55
Asbestos		None Detected	None Detected

Polarized Light Microscope and dispersion staining method.



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. Chantal Milner, CPSS Principal Soil Scientist
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