

Lightweight Planter Box Mix



The Lightweight Planter Box Mix (A Horizon) is excellent for installation into the top 300 – 400 mm of a contained environment such as planter boxes and podiums. It has been developed in conjunction with the B Horizon mix to work as the nutrient rich growing media layer of an engineered profile.

The Lightweight Planter Box Mix is tested to the Australian Standard 4419: 2018 Soils for Landscaping and Garden Use – Organic Soil Analysis. It is also tested with the 6 Point Hydraulic Conductivity Test. The mix requirements are specific and don't fit into any one Australian Standard. The mix is also tested against Specification E3 Low Density Container and Green Roof from Soil for Landscape Development. We use the standards as a tool only.

Test Results:

February 2024

Physical Properties	Unit	Target Range	Results	Comments
Texture	n/a	Gravelly loamy sand to organic sandy loam	Loamy Sand	Acceptable
Air- Filled porosity	%	≥ 13	16	Acceptable
Water-holding capacity	%	≥ 40	49.2	Acceptable
Permeability@16 Drops	mm/hr	>100	270	Acceptable
Large Particles				
<2 mm	% ww	30-70	53.2	Acceptable
2-10 mm	% ww	10-20	47.8	High
10-20 mm	% ww	5-10	8.23	Acceptable
20-50 mm	% ww	<5	0.5	Acceptable
>50 mm	% ww	0	0.5	Acceptable
Organic Matter	% ww	< 15	21	Slightly High Due to Ash Content
Dispersibility	Category	> 1 or 2	1	Acceptable
Wettability	mins	≤ 5	3.62	Acceptable
Saturated Repacked Density	Kg/L	<2.4	1.18	Acceptable
Chemical Properties	Unit	Target Range	Results	Comments
pH in water (1:5)	pH units	5.4 - 6.8	7.32	Slightly High
Electrical Conductivity (1:5)	dS/m	< 2.2	1.26	Acceptable
Chloride	mg/L	< 200	264	Slightly High
Ammonium-N (NH ₄)	mg/L	< 100	1.2	Acceptable
Ammonium-N + Nitrate-N	mg/L	> 50	5.0	Low
Nitrogen draw-down index	-	> 0.7	0.01	Low
Bioassay	mm	> 70	103	Acceptable
Phosphorus	mg/L	8 - 40	15	Acceptable
Potassium	mg/L	50 - 250	272	Slightly High
Sulphate	mg/L	> 40	20	Slightly Low
Calcium	mg/L	> 80	81	Acceptable
Magnesium	mg/L	> 15	25	Acceptable
Ca:Mg Ratio	Ratio	1.5 - 10	3.2	Acceptable
K:Mg Ratio	Ratio	1 - 7	10.9	Slightly High
Sodium	mg/L	< 130	116	Acceptable
Iron	mg/L	> 35	17.7	Low
Copper	mg/L	0.4 - 15	0.519	Acceptable
Zinc	mg/L	0.3 - 10	3.2	Acceptable
Manganese	mg/L	1 - 15	4.07	Acceptable
Boron	mg/L	0.02 - 0.65	0.211	Acceptable



Bulk Density = 0.56 kg/L. Saturated Bulk Density = 1.18 kg/L

Scapeworks staff add a further Nitrogen source, Dolomite, Gypsum, and other nutrition where needed. Further organic fertilisers and water holding products can be added upon request.

