

The Hills Lightweight Planter Box Mix



The Hills Lightweight Planter Box Mix 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 Hills B Horizon mix to work as the nutrient rich growing media layer of an engineered profile.

The Hills 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:

OCT 2020

Physical Properties	Unit	Target Range	Results	Comments
Texture	n/a	Gravelly loamy sand to organic sandy loam	Loamy Sand	Acceptable
Air-Filled porosity	%	≥ 5	21	Acceptable
Water-holding capacity	%	≥ 45	48.4	Acceptable
Saturated repacked Density	kg/L	< 2	1.17	Acceptable
Large Particles	<2mm	% ww	54.9	Acceptable
	2 - 10mm	% ww	41.6	High
	10 - 20mm	% ww	3.51	Low
	20 - 50mm	% ww	0	Acceptable
	>50mm	% ww	0	Acceptable
Organic matter content	% w/w	< 25	26	Acceptable
Permeability	mm/h	> 100	894	Acceptable
Wettability (AS4419)	mins	≤ 2	1.71	Acceptable
Dispersibility in water	Category	1 or 2 (AS 4419) category	3	High
Chemical Properties	Unit	Target Range	Results	Comments
pH in water (1:5)	pH units	5.4 - 6.8	6.75	Acceptable
Electrical conductivity (1:5)	dS/m	< 2.2	2.84	High
Chloride	mg/L	< 200	534	High
Ammonium-N	mg/L	< 100	186.7	High
Ammonium-N + Nitrate-N	mg/L	> 50	238	Acceptable
Nitrogen draw-down index	-	> 0.7	0.13	Low
Bioassay	mm	> 70	79	Acceptable
Phosphorus	mg/L	< 3 / 8 - 40	11	High/Acceptable
Potassium	mg/L	50 - 250	355	High
Sulphate	mg/L	> 40	160	Acceptable
Calcium	mg/L	> 80	171	Acceptable
Magnesium	mg/L	> 15	60.8	Acceptable
Ca:Mg Ratio	Ratio	1.5 - 10	2.8	Acceptable
K:Mg Ratio	Ratio	1 - 7	5.8	Acceptable
Sodium	mg/L	< 130	239	High
Iron	mg/L	>35	37.9	Acceptable
Copper	mg/L	0.4 - 15	0.9	Acceptable
Zinc	mg/L	0.3 - 10	5.1	Acceptable
Manganese	mg/L	1 - 15	10.4	Acceptable
Boron	mg/L	0.02 - 0.065	0.355	Acceptable

Hydraulic Conductivity – after 32 drops (heavy compaction) – 2308mm/hr
Bulk Density = 0.48 kg/L. Saturated Bulk Density = 1.17 kg/L



The Hills Bark Blower® 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.