

The Hills Green Roof Mix*

The Hills Green Roof Mix has been developed to provide a stable substrate that can sustain plant life while maintaining volume over time. The Hills Bark Blower® has installed large trial plots and monitored them over a 6 year period to ensure the green roof media used is the best available. It is also tested independently. Not only that, but The Hills Bark Blower® Green Roof mix has been given a certificate of compliance with the requirements in the soil publication by Leake and Haege, no easy feat. Available upon request.

Tested for:

The Hills Green Roof 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. We use the standards as a tool only. The mix is also tested against Specification E3 Low Density Container and Green Roof from the text Soil for Landscape Development by Leake and Haege*. The Hills Bark Blower® staff add important nitrogen sources, plenty of calcium, micro and macro nutrients and pH adjusters if needed. *We also test Bulk Density & Environmental Compliance as special requests as they are not in the general standard testing suite.

TEST RESULTS:

JUNE 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	8.5	Acceptable
Water Holding Capacity	%	≥ 45	28.9	Low
Saturated repacked Density	kg/L	< 2	1.14	Acceptable
Large Particles	< 2 mm	% ww	48.3	Acceptable
	2 - 10 mm	% ww	44.4	High
	10 - 20 mm	% ww	7.27	Acceptable
	20 - 50 mm	% ww	0	Acceptable
	> 50 mm	% ww	0	Acceptable
Organic matter content	% w/w	< 25	34	High - due to ash content
Permeability	mm/h	> 100	678	Acceptable - rapid
Wettability (AS4419)	mins	≤ 2	0.86	Acceptable
Dispersibility in water	Category	1 or 2 (AS 4419) category	2	Acceptable
Chemical Properties	Unit	Target Range	Results	Comments
pH in water (1:5)	pH units	5.4 - 6.8	6.66	Acceptable
Electrical conductivity (1:5)	dS/m	< 2.2	0.79	Acceptable
Chloride	mg/L	< 200	80	Acceptable
Ammonium-N	mg/L	< 100	0.9	Acceptable
Ammonium-N + Nitrate-N	mg/L	> 50	<5	Low
Nitrogen draw-down index	-	> 0.7	0.72	Acceptable
Bioassay	mm	> 70	84	Acceptable
Phosphorus	mg/L	< 3 / 8 - 40	2.6	Low
Potassium	mg/L	50 - 250	62.7	Acceptable
Sulphate	mg/L	> 40	68	Acceptable
Calcium	mg/L	> 80	96	Acceptable
Magnesium	mg/L	> 15	34.7	Acceptable
Ca:Mg Ratio	Ratio	1.5 - 10	2.8	Acceptable
K:Mg Ratio	Ratio	1 - 7	1.8	Acceptable
Sodium	mg/L	< 130	55	Acceptable
Iron	mg/L	>35	24.6	Low
Copper	mg/L	0.4 - 15	1.7	Acceptable
Zinc	mg/L	0.3 - 10	6.1	Acceptable
Manganese	mg/L	1 - 15	1.56	Acceptable
Boron	mg/L	0.02 - 0.065	0.445	Acceptable

Independent laboratory certificate of compliance available with this product
Bulk Density = 0.63kg/L. Saturated Bulk Density = 1.14kg/L



*The Hills Bark Blower® staff add micro nutrients and ameliorants to provide those nutrients that test as mildly low. The Hills Bark Blower® mixes can have additions such as wetting agent and other fertilisers upon request.

All actions recommended by the independent laboratory are carried out before installation.