

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:

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	24	Acceptable
Water Holding Capacity	%	≥ 45	41.6	Low
Saturated repacked Density	kg/L	< 2	1.21	Acceptable
Large Particles	< 2 mm	% ww	43.1	Acceptable
	2 - 10 mm	% ww	35.8	High
	10 - 20 mm	% ww	19.4	High
	20 - 50 mm	% ww	1.64	Acceptable
	> 50 mm	% ww	0	Acceptable
Organic matter content	% w/w	< 25	17	Acceptable
Permeability	mm/h	> 100	456	Acceptable
Wettability (AS4419)	mins	≤ 2	0.47	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	6.81	Acceptable
Electrical conductivity (1:5)	dS/m	< 2.2	2.69	High
Chloride	mg/L	< 200	345	High
Ammonium-N	mg/L	< 100	308.8	High
Ammonium-N + Nitrate-N	mg/L	> 50	327.4	Acceptable
Nitrogen draw-down index	-	> 0.7	0.59	Acceptable
Bioassay	mm	> 70	88	Acceptable
Phosphorus	mg/L	< 3 / 8 - 40	5.1	Acceptable
Potassium	mg/L	50 - 250	199	Acceptable
Sulphate	mg/L	> 40	200	Acceptable
Calcium	mg/L	> 80	159	Acceptable
Magnesium	mg/L	> 15	61.6	Acceptable
Ca:Mg Ratio	Ratio	1.5 - 10	2.6	Acceptable
K:Mg Ratio	Ratio	1 - 7	3.2	Acceptable
Sodium	mg/L	< 130	140	High
Iron	mg/L	>35	43	Acceptable
Copper	mg/L	0.4 - 15	5.5	Acceptable
Zinc	mg/L	0.3 - 10	8.9	Acceptable
Manganese	mg/L	1 - 15	14.6	Acceptable
Boron	mg/L	0.02 - 0.065	0.445	Acceptable

Independent laboratory certificate of compliance available with this product
Bulk Density = 0.56kg/L. Saturated Bulk Density = 1.21kg/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.