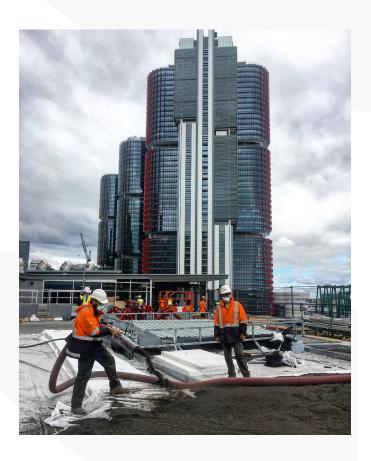


Expertise in Soils

Scapeworks management and staff spend time, expertise and money researching and developing the best quality mixes for everyday construction use.



Scapeworks branded products have been:

- Trialled extensively
- Tested by an independent laboratory
- Are predominantly renewable and recyclable
- Installed by the trained and inducted Scapeworks staff

One of the reasons we are more stringent with our mixes than other landscape supply companies is because our products are often installed into hard to access, sensitive or highprofile sites where failure is not an option.

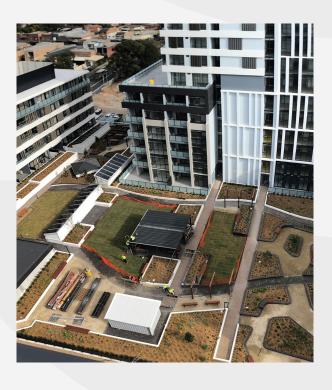
Please enjoy reading the following detailed information and feel free to call our soil experts if you need further explanation on the testing or performance of the products.







Experience in High Profile, Small and Large Scale Sites



These are just a few examples where our work can be observed.

- · ICC Sydney Green Roof
- · East Village Apartments, Zetland
- The Sanctuary, Wentworth Point
- · Pavilions Apartments, Olympic Park
- · The Langston, Epping
- Ed Square, Edmonson Park
- · Natura Apartments, Macquarie Park
- · Melrose Park Village, Melrose Park
- · Concord Hospital, Concord
- · Eminence Apartments, Zetland
- · Park Sydney, Erskineville

Ask us for more site references...





Test Results:

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.

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 (NH4)	mg/ L	≤100	4.1
Ammonium-N + Nitrate-N (NH4 + NO3)	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 Polarized Light Microscope and dispersion staining method.	-	None Detected	None Detected



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. CPSS Principal Soil Scientist BSc Env Sci, PGCert Green Infrastructure, CPSS





The B Horizon Mix performs well as a lower profile substrate in contained environments, below the Lightweight Planter Box Mix. It has been developed to work as the stable drainage media layer of an engineered profile. It provides enough nutrition for continued root growth while creating a stable substrate for long term volume.

The B Horizon Mix is compared to Leake and Haege (2014) Specification E2: On-Slab Soil Media B - 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.

August 2025 Test Results:

Physical Properties	Unit	Target Range	Results
Texture	n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity	%	≥ 10	16.5
Water-Holding Capacity	%	≥ 40	43.1
Permeability (@16 Drops)	mm/hr	> 100	2314
Organic Matter	% w/w	<5	16.5
Water Repellence	Seconds	< 60	20
Chemical Properties	Unit	Target Range	Results
pH in water (1:1:5)	pH units	5.4 - 6.8	7.39
Electrical Conductivity	dS/m	< 2.2	1.94
Chloride	mg/ L	≤ 200	331
Ammonium-N (NH4)	mg/ L	≤ 100	39.6
Ammonium-N + Nitrate-N (NH4 + NO3)	mg/ L	≥ 50	43.9
Nitrogen Draw-Down Index	-	≥ 0.7	0.06
Toxicity Index	mm	≥ 70	102
Phosphorus – P standard range	mg/ L	8 - 40	24.5
Low Phosphorus - P-Sensitive plant	mg/ L	< 3	24.5
Potassium (K)	mg/ L	50 - 250	283
Sulphate (SO ₄)	mg/ L	<u>></u> 40	38.9
Calcium (Ca)	mg/ L	≥ 80	106
Magnesium (Mg)	mg/ L	≥ 15	26.2
Ca:Mg Ratio	Ratio	1.5 - 10	4.05
K:Mg Ratio	Ratio	1 - 7	10.8
Sodium (Na)	mg/ L	≤ 130	126
Iron (Fe)	mg/ L	≥ 35	28.1
Copper (Cu)	mg/ L	0.4 - 15	0.29
Zinc (Zn)	mg/ L	0.3 - 10	2.96
Manganese (Mn)	mg/L	1-15	5.09
Boron (B)	mg/L	0.02-0.65	0.22
Additional Testing	Units	Target Range	Results
Saturated Density	kg/L	1.8 - 2.4	1.2
Dry Bulk Density	Kg/L	No Requirement	0.56
Asbestos Polarized Light Microscope and dispersion staining method.		Not Detected	No Detected



Scapeworks B 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 BSc Env Sci, PGCert Green Infrastructure, CPSS



Premium Garden Mix



The Premium Garden Mix is a superior growing media- designed to support a range of plant species from exotics to most Australian Natives. It supports young plants and has the substance to remain an excellent mix long term. The Premium Garden Mix has a structure that supports stable volume and good organic content to encourage a healthy microbial ecosystem.

Laboratory analysis has been compared to Leake and Haege (2014) Specification D3: Display Bed Soil for Landscaping and Garden Use. Organic Soil Analysis shows a high-quality feature for bed planting of grasses, woody and herbaceous annuals and perennials that have a high nutrient requirement for sustained optimum growth, and not subject to compaction by pedestrian or other traffic. We also test Bulk Density and Environmental Compliance as special requests as they are not included in the general standard testing suite.

August 2025

Physica	l Properties	Units	Target Range	Results
Texture, preferred ra	inge	N/A	Sandy loam - clay loam	Gravel
Organic Matter		% w/w	3 – 6	11.7
Organic Matter (Organic Soil Variant)		% w/w	15 – 25	11.7
Permeability (16 Dro	Permeability (16 Drops)		>50	936
Water Repellence		Seconds	<60	20
Large Particles	> 20 mm	% w/w	<10	Nil
Visible contaminants > 2 mm (glass, plastic, metal)		% w/w	<0.5	<0.01
Chemic	cal Property	Units	Target Range	Results
pH in water (1:5) sta	ndard range	pH Units	5.4-6.8	9.15
Electrical conductivit	y (1:5)	dS/m	< 0.75	1.05
Phosphorus – acid soils method 18F1	P-tolerant/standard plants	Mg/kg	80-150	370
SOIIS MEMOU TOF I	P-sensitive plants	Mg/kg	< 30	370
Exchangeable sodium (Na)		% of CEC	< 15	8.5
Exchangeable potas	sium (K)	% of CEC	5 - 10	13
Exchangeable calciu	Exchangeable calcium (Ca) method 18F1		60 – 80	65
Exchangeable magn	Exchangeable magnesium (Mg)		15 – 25	13
Exchangeable alumi	Exchangeable aluminium (AI)		< 2	0.2
Exchangeable Ca:M	g ratio	Ratio	3 – 9	5.1
Available iron (Fe)		mg/kg	100 – 400	117
Available manganes	e (Mn)	mg/kg	25 – 100	18.2
Available zinc (Zn)		mg/kg	5 – 30	10.3
Available copper (Cu	ı)	mg/kg	1 – 15	1.5
Available boron (B)		mg/kg	0.5 – 5	1.4
Available N (N as nitrate)		mg/kg	>30	2.5
Additional Testing		Units	Target Range	Result
Saturated Bulk Density		Kg/L	No Requirement	1.38
Dry Bulk Density	Dry Bulk Density		No Requirement	0.65
Asbestos		Detection	No Detection	No Detection



Scapeworks Premium Garden Mix 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
BSc Env Sci, PGCert Green Infrastructure, CPSS





Turf Underlay

The Turf Underlay is a superior mix that creates a thriving lawn environment. It is specially developed for use in both residential and amenity turf areas. The mix contains minerals and inorganic components, as well as a percentage of organic products for better structure and nutrition. The Turf Underlay has high permeability which creates a free draining environment to decrease the chance of fungal growth.

The Turf Underlay is tested to Specification C1 – Passive Amenity Turf from the text Soil for Landscape Development by Leake and Haege. It is also tested for Bulk Density, Saturated Bulk Density & Environmental Compliance as special requests outside the general Australian Standard suite.

Test Results: August 2025

Phys	sical Properties	Units	Target Range	Results
	2 mm (Fine Gravel)		< 10	22.1
	1.0 mm (Very Coarse Sand)		< 10	4.95
	0.5 mm (Coarse Sand)		10 - 30	18.4
	0.25 mm (Medium Sand)	% Retained by Mass	20 - 40	28.8
Particle	0.1 mm (Fine Sand)		10 – 30	12.8
Distribution	0.05 mm (Very Fine Sand)		5 – 15 (max 25% combined vfs, Si + Cl)	7.8
	0.002 mm (Silt)		< 12 (Si + Clay combined) 8–15	3.21
	< 0.002mm (Clay)		3-8	1.99
Large particles	2 – 20mm	% w/w by mass	<10	13.4
(naturally occurring)	>20 mm	% w/w by mass	0	0
Organic	matter content	% w/w	2 to 8	15.2
Permeability (16 dro	ops McIntyre Jakobsen)	mm/hr	>30	2745
Water R	lepellence*	S	<u><</u> 60	22
Chemical Properties		Unit	Target Range	Results
pH in water (1:5)		pH units	5.4 – 8.0	6.89
Electi	rical Conductivity (1:5)	dS/m	< 0.5	0.52
Exchangeable Na percentage		% of ECEC	≤ 15	5.3
Exchangeable Ca:Mg ratio		Ratio	3-9	2.2
Available phosphorus 18E1		mg/kg	50 - 150	44
Available nitrogen (N as nitrate)		Mg/kg	20 - 60	0.72
Additional Testing		Units	Target Range	Results
Saturated Density		kg/L	No Requirement	1.33
Dry Bulk Density		Kg/L	No Requirement	0.55
Asbestos ** Polarized Light Microscope and dispersion staining method.			No Requirement	Not Detected

^{*} Water repellence (AS4419 2018) supersedes wettability (AS4419 2003).
** Subcontracted - Polarized Light Microscope and dispersion staining method. SGS Laboratories SE269278.



Scapeworks Turf Underlay - The media comprises a loamy sand and will provide moderate resistance to compaction in public and other amenity turf areas subject to moderate levels of pedestrian traffic. The Urban Soil Doctor (TUSD) was requested by Scapeworks Australia to conduct in-situ sample collection at Scapeworks Australia's yard, and oversees the analyses and reports on products collected. Chantal Milner, CPSS Principal Soil Scientist BSc Env Sci, PGCert Green Infrastructure, CPSS



Green Roof Mix



The Green Roof Mix has been developed to provide a stable substrate that can sustain plant life while maintaining volume over time.

Scapeworks Australia 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 Scapeworks Australia 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.

As there is no appropriate Australian Standard for Green roof media yet, Green Roof Mix is tested to the Australian Standard 3743 Potting Mix non specialist (Regular Grade). We also test the Bulk Density to the Australian Standard 4419: 2003 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. Scapeworks Australia staff add important nitrogen sources, plenty of calcium, micro and macro nutrients and pH adjusters if needed.

August 2025

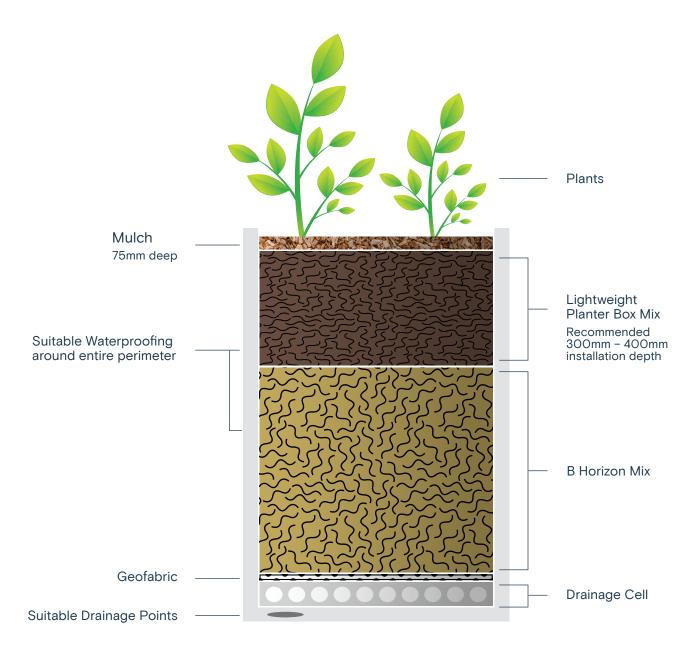
PHYSICAL PROPERTY	UNITS	TARGET RANGE	RESULT
Texture, preferred range	n/a	Gravelly loamy sand	Loamy Sand
		to organic sandy loam	
Air-filled porosity (AFP)	%	10-15	18.2
Water-holding capacity (WHC)	%	45 - 55	40.9
Permeability (16 drops by McIntyre Jakobsen)	mm/h	100 - 200	168
Organic matter (OM)	% w/w	< 25	11.9
Wettability	min	<2	22 s
CHEMICAL PROPERTY	UNITS	TARGET RANGE	RESULT
pH in water (1:5) standard range	pH units	5.4–6.8	6.94
Electrical conductivity (1:1.5)	dS/m	< 2.2	3.14
Chloride	mg/L	≤ 200	309
Ammonium-N (NH4)	mg/L	≤ 100	1.16
Ammonium-N + nitrate-N (NH4 + NO3)	mg/L	≥ 50	45
Nitrogen draw-down index	_	≥ 0.7	0.07
Toxicity index	mm	≥70	68.4
Phosphorus – P standard range	mg/L	8–40	26.4
Low phosphorus - P-sensitive plants	mg/L	< 3	26.4
Potassium (K)	mg/L	50–250	355
Sulphate (SO4)	mg/L	≥ 40	288
Calcium (Ca)	mg/L	≥ 80	330
Magnesium (Mg)	mg/L	≥ 15	66.6
Ca:Mg ratio	Ratio	1.5–10	4.96
K:Mg ratio	Ratio	1–7	5.33
Sodium (Na)	mg/L	< 130	143
Iron (Fe)	mg/L	≥ 35	39
Copper (Cu)	mg/L	0.4–15	0.59
Zinc (Zn)	mg/L	0.3–10	3.53
Manganese (Mn)	mg/L	1–15	6.9
Boron (B)	mg/L	0.02–0.65	0.23
ADDITIONAL TESTING	UNITS	TARGET RANGE	RESULT
Saturated Bulk Density	kg/L	1.1 – 1.8	1.27
Dry Bulk Density	kg/L	No requirement	0.64
Asbestos*		No requirement	Not Detected

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 BSc Env Sci, PGCert Green Infrastructure, CPSS



Planter Box and Podium Garden Profile

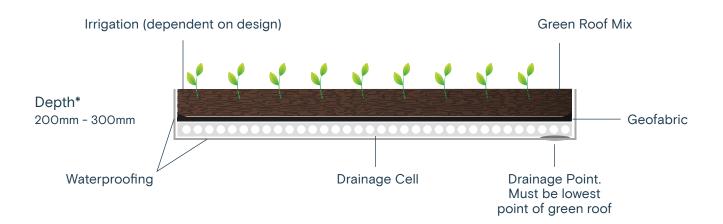




Irrigation may be installed. Weight calculations are helpful when on slab. Depth of B Horizon varies with planter depth.



Roof Mix Diagram



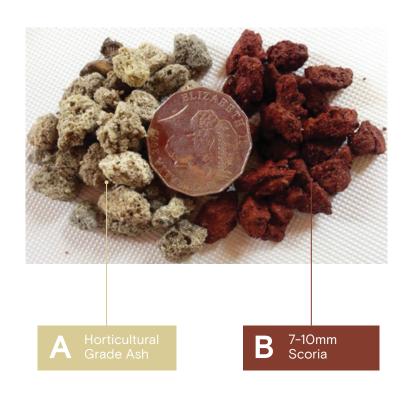
*Know the weight the roof/slab can hold to calculate the kg/m². The depth of media can be calculated using Saturated Bulk Density value. Optimum depth is 300mm.

Green Roof Ingredients... The Essentials

Green roof mix has essential ingredients to create a premium mix. We include our horticultural grade ash products and a small amount of composted, aged organic fines to ensure a buffer for fungal control and nutrient retention. The mix of minerals and organics creates a good structure. It will not slump and has excellent drainage and water holding capacity.

Scapeworks Green Roof Mix contains
Horticultural Grade Ash in place of Scoria as
it has superior characteristics. Ash is lighter
than Scoria. It is a by-product and therefore
is not a product of quarrying. Ash provides
excellent porosity, water holding capacity
and long-term volume stability.

Scoria can be added to our Green Roof Mix upon request. Please note however that it is sourced interstate from quarries. This adds to the costs both financially and to the environment when included as a component. Scoria also adds extra weight to our Green Roof Mix without contributing any extra benefits.



Please contact us for more information on specific components.



Product List

Products available from Scapeworks





Soil Mixes

- · Lightweight Planter Box Mix
- B Horizon Mix
- Green Roof Mix
- Turf Underlay Mix
- · Premium Garden Mix
- Special Orders



Mulches

- · Pine Bark Mulch
- · Playbark certified soft fall
- Premium Forest Mulch
- Enviro Fines
- Hardwood Chip



Pebbles & Aggregates

- 10mm Blue Metal
- · 20mm Blue Metal
- · 20mm Nepean River Pebble
- · 20mm Cowra White
- 10mm Recycled Aggregate
- · 20mm Recycled Aggregate



Sand

- Drainage Sand
- · Sydney Sand
- · Playground Sand certified softfall
- · Filter Sand

Extra Products available through the Rockslinger Machine

- · Crushed Concrete
- · Recycled Road Base
- · Crushed Sandstone
- Deco Granite
- · Any Pebbles up to 75 mm

The Scapeworks Rockslinger installs a wider range of products including site soil upon arrival.

We can pick up from your preferred supplier, install your site product, or provide product from our own yard.







O2 9654 2288 sales@scapeworksaustralia.com.au scapeworksaustralia.com.au