

50% SAND BASED**LIGHTWEIGHT ROOF GARDEN GUIDELINES**

Fytogreen Australia's lightweight roof garden system works to the following depth and saturated weight guidelines.

The soil mix is 50% washed sand, 40% Hydrocell flakes and 10% composted organic matter by volume.

Saturated bulk density is 1200 kg/m³

	TURF	SHRUBS	BUSHES	SMALL TREES	TREES
	100mm depth	200mm depth	300mm depth	500 mm depth	800 mm depth
Soil Mix	120 kg psm	240 kg psm	360 kg psm	600 kg psm	960 kg psm
Layer 6:					
Layer 5:	Root Anchor Layer - HDPE netting with holes of 5 x 5 mm. Thickness 2 mm, weight negligible.(only under trees)				
Layer 4:	Hydrocell Hardfoam RG30 -100mm thick. 84kg/m ² (80kg water and 4 kg hardfoam) Compressive strength 23,000kg psm, Product life 25 years without maintenance.				
Layer 3:	Geotextile Membrane - Various types such as Bidim A14G. Thickness 2mm, weight negligible.				
Layer 2:	Drainage Layer - Allow 20mm for Fytonop 20				
Layer 1:	Vapour Layer - LDPE plastic is laid as extra protection above the waterproofed roof. Thickness 0.02mm, weight negligible.				
Total Depth:	245 mm	345 mm	445 mm	645 mm	945 mm
Total Weight:	212 kg psm	325 kg psm	445 kg psm	685 kg psm	1,045 kg psm

Please note: The weights shown do not include plants. For example, rolled turf weighs approximately 15kg psm.

Disclaimer: This information is supplied in good faith and trials are recommended by the user to test the suitability of the procedure in their climatic region. The system now covers 2 million square metres of roof garden in Europe since 1985 and 8,000m² in Australia since 2002. No liability will be accepted by Fytogreen Australia or its representatives as to the final performance based on this information.
Date 5/6/2006

30% SAND BASED**LIGHTWEIGHT ROOF GARDEN GUIDELINES**

Fytogreen Australia's lightweight roof garden system works to the following depth and saturated weight guidelines.

The soil mix is 30% washed sand, 40% Hydrocell flakes and 30% composted organic matter by volume.

Saturated bulk density is 950 kg/m³

	TURF	SHRUBS	BUSHES	SMALL TREES	TREES
	100mm depth	200mm depth	300mm depth	500 mm depth	800 mm depth
Layer 6:	95 kg psm	190 kg psm	285 kg psm	475 kg psm	760 kg psm
Layer 5:	Root Anchor Layer - HDPE netting with holes of 5 x 5 mm. Thickness 2 mm, weight negligible.(only under trees)				
Layer 4:	Hydrocell Hardfoam RG30 -100mm thick. 84kg/m ² (80kg water and 4 kg hardfoam) Compressive strength 23,000kg psm, Product life 25 years without maintenance.				
Layer 3:	Geotextile Membrane - Various types such as Bidim A14G. Thickness 2mm, weight negligible.				
Layer 2:	Drainage Layer - Allow 20mm for Fytonop 20				
Layer 1:	Vapour Layer - LDPE plastic is laid as extra protection above the waterproofed roof. Thickness 0.02mm, weight negligible.				
Total Depth:	245 mm	345 mm	445 mm	645 mm	945 mm
Total Weight:	180 kg psm	275 kg psm	370 kg psm	560 kg psm	845 kg psm

Please note: The weights shown do not include plants. For example, rolled turf weighs approximately 15kg psm.

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Date 5/6/2006

Blower Mix**LIGHTWEIGHT ROOF GARDEN GUIDELINES**

Fytogreen Australia's lightweight roof garden system works to the following depth and saturated weight guidelines.

The soil mix is 30% coarse washed sand, 40% Hydrocell flakes and 30% composted organic matter by volume.

Saturated bulk density is 900 kg/m³

	TURF	SHRUBS	BUSHES	SMALL TREES	TREES
	100mm depth	200mm depth	300mm depth	500 mm depth	800 mm depth
Soil Mix	100mm depth	200mm depth	300mm depth	500 mm depth	800 mm depth
Layer 6:	90 kg psm	180 kg psm	270 kg psm	450 kg psm	720 kg psm
Layer 5:	Root Anchor Layer - HDPE netting with holes of 5 x 5 mm. Thickness 2 mm, weight negligible.(only under trees)				
Layer 4:	Hydrocell Hardfoam RG30 -100mm thick. 84kg/m ² (80kg water and 4 kg hardfoam) Compressive strength 23,000kg psm, Product life 25 years without maintenance.				
Layer 3:	Geotextile Membrane - Various types such as Bidim A14G. Thickness 2mm, weight negligible.				
Layer 2:	Drainage Layer - Allow 20mm for Fytonop 20				
Layer 1:	Vapour Layer - LDPE plastic is laid as extra protection above the waterproofed roof. Thickness 0.02mm, weight negligible.				
Total Depth:	245 mm	345 mm	445 mm	645 mm	945 mm
Total Weight:	175 kg psm	265 kg psm	355 kg psm	535 kg psm	785 kg psm

Please note: The weights shown do not include plants. For example, rolled turf weighs approximately 15kg psm.

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Date 5/6/2006