

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 20% composted organic matter by volume.

Saturated bulk density is 1200 kg/m³

					TREES Large to 12 metres
				SMALL TREES Small with flat root systems	
			BUSHES		
		SHRUBS			
Soil Mix	TURF				
	100mm depth	200mm depth	300mm depth	500 mm depth	800 mm depth
Layer 6:	120 kg psm	240 kg psm	360 kg psm	600 kg psm	960 kg psm
Layer 5:	Root Anchor Layer- HDPE netting with holes of 5 x 5 mm. Thickness 2 mm, weight negligible.(only under trees) 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. Geotextile Membrane- Various types such as Bidim A14G. Thickness 2mm, weight negligible. Drainage Layer- Allow 20mm for Fytonop 20 Vapour Layer- LDPE plastic is laid as extra protection above the waterproofed roof. Thickness 0.02mm, weight negligible.				
Layer 4:					
Layer 3:					
Layer 2:					
Layer 1:					
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 2.8 million square metres of roof garden in Europe since 1985 and 22,000m² in Australia since 2002. No liability will be accepted by Fytogreen Australia or its representatives as to the final performance based on this information.

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