

frequently asked questions

What are the biodiversity benefits of a Lindum Green Roof?

All green roofs will enhance biodiversity to a certain extent and Lindum's plant mixtures have been selected to provide maximum value to wildlife.

Lindum Wildflower & Sedum Mat in particular, provides a diverse habitat for bees, butterflies, insects and birds over a flowering period of April to September.

The sixteen varieties growing in Lindum SedumPlus™ extend the standard sedum flowering season, making it an important source of pollen for large numbers of bees in that period.

A key design of green roofs to support biodiversity is substrate depth. Variations in substrate depth can be used to provide different habitats for soil dwelling organisms and plants. Lindum Wildflower & Sedum is grown in slightly deeper substrate which encourages invertebrate flora.

What are the depths and loading weights of a Lindum Green Roof?

Lindum green roofs have a depth of 105-155mm and a saturated weight of approximately 85-135kg per square metre depending on substrate depth – for example:

Material	Depth	Saturated weight
Vegetation layer	25mm	25kg/m ² fully saturated
Roofdrain drainage layer	30mm	10kg/m ² fully saturated
Extensive green roof substrate	75mm	75kg/m ² fully saturated
TOTAL	130mm deep	110kg/m² loading

How easy is it to install a Lindum Green Roof?

Lindum's green roof package is designed to be a simple system that is easy to install above the waterproof membrane. Lindum can supply direct for self-installation, or can supply to the roof installers. Details can be provided of specialist green roofing contractors if required. The Lindum green roof package can be installed on flat roofs and on pitched roofs up to 30 degrees without additional irrigation. Slopes of over 10 degrees may require additional slope stabilisation measures to avoid slippage of substrate and

may require additional anchoring of the vegetation layer. Lindum can supply slope stabilisation options if required.

What maintenance is involved with a Lindum Green Roof?

For best results, most green roofs require some annual maintenance. The Lindum Wildflower & Sedum mat requires one cut in the autumn with all cuttings removed. SedumPlus™ will need occasional hand weeding to remove plants from wind blown seeds. In both cases there should be no need for irrigation except in extreme prolonged drought or where aesthetic value in dry periods is important.

What are the storm water attenuation benefits of a Lindum Green Roof?

All green roofs will retain storm water, reducing the burden on urban drainage systems through storage in the vegetation layer, substrate and drainage layer. Lindum's green roofs have been specifically designed to maximize storm water attenuation benefits.

Lindum's biodiverse vegetation mats require deeper substrates of 75mm-100mm which will give average annual water retention of 50% (based on average annual rainfall of 650-800mm). Lindum's deeper substrate retains more water than a shallow substrate system – increasing the storm water attenuation value by approximately 20 litres per square metre at a substrate depth of 100mm.

Lindum's drainage layer Roofdrain 25 acts as a water reservoir holding an additional 5.3 litres of water per square metre to further reduce the runoff from the roof. This stored water can be released slowly, used as grey water or even used as irrigation for the vegetation mat.

Where do I get more advice on a Lindum Green Roof?

For more information on vegetation layer options, or Lindum's green roof package, visit our website on www.lindumgreenroofs.co.uk or phone us on **01904 448675** to request a technical specification sheet.

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