

Modular Green Roof Systems

These module trays are ideal for the smaller green roof or non professional installer, as they come as complete pre-grown units and are very simple and easy to fix.

It is strong, established and healthy and well anchored into the intermediate layers, so there is less risk of wind uplift or erosion in the crucial time period just after installation.

Also, if there are problems with the deck beneath, one “pod” or section can easily be lifted out without any disruption to the whole deck, should contractors be trying to discover the source of leaks, for example.



The whole idea is to provide as easy a way to install green roofs as possible. The modules are stacked onto pallets, for clean, fast delivery and making it easy to crane onto the roof. The modules can be stacked on top of each other up to 20 trays high onto a pallet for delivery to site. As the drainage sheeting is egg-box shaped, an air gap will maintain the vegetation for a **maximum of three days** before installation.



Each module is an established instant sedum roof system in itself, so when all trays are installed, the roof is finished. This cuts down on mess around site and the amount of space required to install the roof. Also, because these plants are fully established, they are less likely to be “shocked” once installed onto the roof and more likely to thrive quickly.



The build-up is the same as with the component green roof, each tray holding the Pro-drain 20P drainage sheeting, geotextile filter layer, approximately 70mm of aggregate based substrate and a sedum blanket.

The excess water will drain through the Pro-drain 20P by way of the slits in between each 20mm deep cups. This ensures that the system does not become waterlogged, which would cause the roots to rot.

The sedum is grown from plug planted cuttings and fully established over a period of up to nine months. The root systems are fully developed throughout the substrate, and bound into the whole system.

The substrate used contains approximately 10% compost and green matter, but is principally made up of aggregate. This can be gravel or brick based and offers the granular texture required for the roots to grip around.

Sedum takes its nutrients from passing water, not by drawing it up from below, so will wrap its roots around the granules. This is why established pre-grown systems are preferable to laying sedum blankets onto substrates, as separate layers of sedum blanket will take many months to develop their root systems, making them much more vulnerable to drought and wind erosion when newly installed. The saturated weight of each tray is 50kg per m²



Installation

A major advantage to this system is the “clip on” nature of installation. The fuss, time and skill required to install drainage layers separately is removed as it comes in a complete kit.



Installation couldn't be simpler. Just protect the waterproofing, lay the bottom layer of geotextile filter fabric and place the module into position on top.



Each section has an overlap of Pro-drain 20P, so the egg-box shaped cells from one module can be fitted beneath the substrate of the next to achieve a secure and seamless fit together. No fixings are needed to go through into the deck, creating less disturbance to the waterproofing.



At 50kg per m², the weight of the system will hold everything in place.

For more information on Wallbarn visit www.barbourproductsearch.info

There are many different types of sedum available. We can provide flowering sedums, different textures and plants which will grow to different heights. We can also supply wildflower / sedum mixes as non-standard items.

