

SMALL GREEN ROOFS

Installation Guide for Enviromat sedum matting



This guide is aimed at garden designers, landscapers and DIY gardeners who are planning to install a living sedum roof on to a small simple structure of 50 m² or less.



Please be aware that large buildings such as entire dwellings or commercial premises are not suitable for DIY green roofing. Such projects need expert advice on insulation, waterproofing, load bearing capacity and Health and Safety issues. For more information, please contact Bauder on 01473 257671

Before placing your order for materials, please make sure that you roof is suitable for an Enviromat living green roof.

The roof should be sound and watertight with a load bearing capacity of 120Kg/m² or more. If you are unsure, please ask a local builder, surveyor or architect for advice.

The roof must be well drained with no water pipes or guttering discharging on to it.

For the sedum plants to survive, they will need to be in a sunny spot. Shaded roofs are not suitable for Enviromat

The maximum pitch recommended for an Enviromat sedum roof is 20 degrees.

QLawns recommend that roofs with a pitch of 10 degrees or more have an irrigation system to help support the plants during long periods of drought. This may be as simple as making sure you have sufficient water pressure and a hose-pipe that will reach all areas of the roof.

The surface of the roof should be smooth. Bear in mind that Enviromat must be in contact with the surface below it at all times. Air pockets will lead to dead patches in the sedum matting. Enviromat cannot be installed onto corrugated roof surfaces.

Have all the tools and materials you will need to hand. Eg instructions, roof edgings and fixings, measuring tape, hand saw, drill and protective clothing (including gloves)

Plan ahead. Enviromat is heavy, when wet it may weigh up to 42Kg/m². Be sure that you can handle it and lift it on to the roof safely.

Please do not order your Enviromat until you are completely ready to install it. Enviromat is perishable and MUST be installed on the day of delivery. If there is a delay between delivery and installation, please unroll your Enviromat so that the plants can see daylight, otherwise the product will degrade.

QLawns cannot accept responsibility for Enviromat that has been damaged by improper storage.

You may find it useful to watch our online video. Go to www.YouTube.co.uk and search for Enviromat. If you don't have internet access, ask us for a free copy of the film on DVD

Tel: 0800 061 2835 sales@qlawns.co.uk www.enviromat.co.uk



INSTALLING A FLAT GREEN ROOF

A flat green roof is classed as having a pitch of three degrees or less



Bespoke metal edging hot-glued to waterproofing



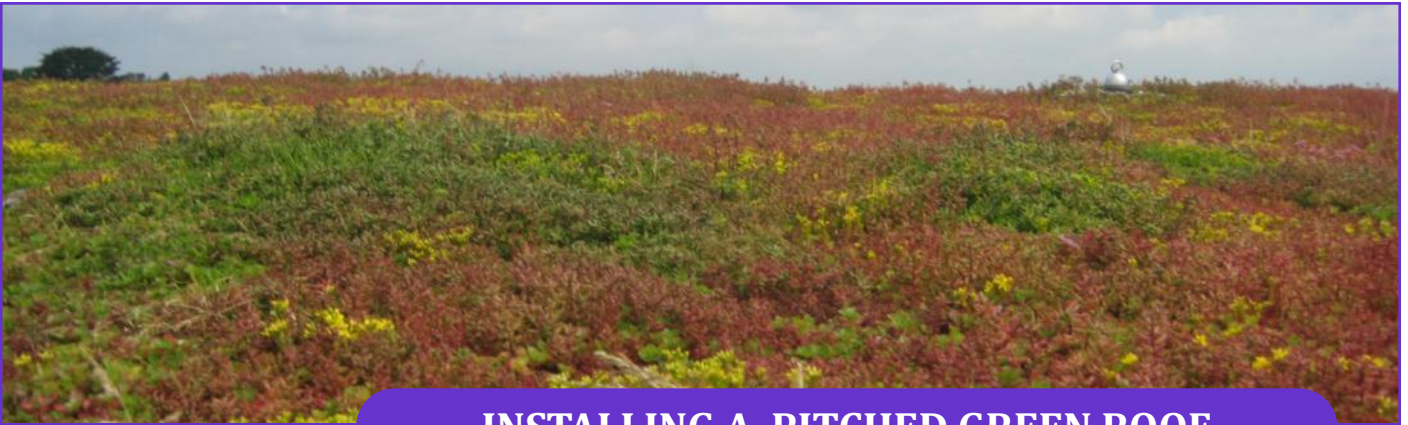
Metal edging attached with 5mm thick adhesive pads



SAFETY FIRST!

SEDUM MATS ARE HEAVY Installing Enviromat is a job for at least two people

1. Remove all debris from the surface of the roof
2. On an asphalt type roof, put down a layer of thick polyethene or butyl pond liner. This protects the waterproofing from root damage and isn't needed on an EPDM or Fibreglass surfaces. HINT: If you wet the polyethene/butyl when it is in place, it will be far less slippery to work on.
3. If your roof has no upstand, put a timber or metal edging all around the roof. IMPORTANT: fixings for the edging must not be screwed into the waterproofing and must allow excess water to drain from the roof.
4. Unroll the drainage mat, unfold the selvages and lay the next strip on top of them ensuring that the edges butt up close to each other. If you have chosen to use a pebble edging, only take the drainage mat as far as the pebbles....it doesn't need to be underneath them.
5. Lay the fleecy water retention matting on top of the drainage mat, preferably at 90 degrees to it. Again, make sure the edges butt up close together and be certain that the fabric is perfectly smooth with no wrinkles or air pockets beneath it.
6. Lay your Enviromat on top of the water retention matting. Each piece of Enviromat has an extra flap of geotextile backing fabric tucked underneath it. When you lay your Enviromat, this selva needs to be unfolded so that it lays flat on the roof beside your sedum matting, the next piece of Enviromat should be laid on top of the flap for anchorage.
7. Start at one end of the roof and work backwards – so that you avoid walking or kneeling on the plants. If you are using a pebble border, put the stones down as you go along.
8. Don't worry if the sedum plants look a bit squashed when they're first installed, they'll soon perk up.
9. Water thoroughly and feed if necessary—SEE NEXT PAGE FOR AFTERCARE ADVICE

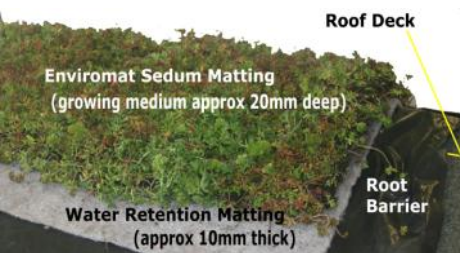


INSTALLING A PITCHED GREEN ROOF

A pitched green roof has a slope between 3.5 and 20 degrees pitch



Timber edging screwed to the edge of the building



FOR BEST RESULTS

Do not install Enviromat on to a roof pitch greater than 20 degrees.

- A. Follow steps 1-3 for a installing a flat green roof. You will not need to install drainage mat
- B. Lay the fleecy water retention matting. Make sure the edges butt up close together and be certain that the fabric is perfectly smooth with no wrinkles or air pockets beneath it. On a roof with an apex, it's worth putting an extra layer of water retention along the apex and for approximately 50cm either side of it to help store water near the top of the roof
- C. Lay your Enviromat on top of the water retention matting. Each piece of Enviromat has an extra flap of geotextile backing fabric tucked underneath it. When you lay your Enviromat, this selvage needs to be unfolded so that it lays flat on the roof beside your sedum matting, the next piece of Enviromat should be laid on top of the flap for anchorage.
- D. Now follow steps 7 and 8 for a flat green roof

Immediately After Installation

- ⇒ If you are installing your roof between 1st March and 30th June, apply Nutrifusion sedum feed at a rate of 20g/m². Carefully follow the directions on the tub and be careful not to overdose the roof. If you are installing at any other time of year, there is no need to apply Nutrifusion until the spring. Nutrifusion MUST be watered in as soon as it is applied
- ⇒ **Water thoroughly, no matter what the weather is doing**
- ⇒ In dry weather, please water your green roof twice a week for the first month (or until there is a decent rainfall) to get the plants well established.



CARING FOR YOUR GREEN ROOF

How to keep your green roof in tip top condition

Enviromat sedum roofs are low maintenance but they are **not “no maintenance”**. We recommend a twice yearly maintenance regime to keep your roof in superb condition.

<u>Spring Maintenance</u> jobs for March/April	<u>Autumn Maintenance</u> jobs for October/November
<p>Check that drainage outlets are clear and that the roof structure is in good condition</p> <p>Remove any debris, fallen leaves etc</p> <p>Hand weed to remove unwanted plants or tree seedlings</p> <p>Apply slow release fertiliser as per the manufacturers' instructions and water it in. <i>For roofs with a steep incline, you may need to apply a second feed in June.</i></p> <p>Use sedum cuttings to repair any bald patches</p>	<p>Check that drainage outlets are clear and that the roof structure is in good condition</p> <p>Remove any debris, fallen leaves etc</p> <p>Hand weed to remove unwanted plants or tree seedlings</p>
<p><u>IN DRY WEATHER</u></p> <p>Sedum plants are very drought tolerant but during long periods of drought it is wise to check for signs of severe stress—especially on sloping roofs. Don't worry if plants look small and hard (like beads) or if the leaves turn red—this is the plants' normal defence against drought. If however the leaves appear wrinkled and rubbery (like a deflated balloon), then the plants will benefit from a really good soaking with water. Always irrigate in the evening to avoid losing water through evaporation</p>	

ORDERING GREEN ROOF SUPPLIES



Q Lawns can supply the items below, normally with a 3 working day lead time.

Polyethene; drainage mat; water retention mat; Enviromat sedum matting; Nutrifusion sedum feed

Order online at www.enviromat.co.uk or phone us on 0800 061 2835

we also offer a Green Roof Installation Service. Phone us or email sales@qlawns.co.uk for more information