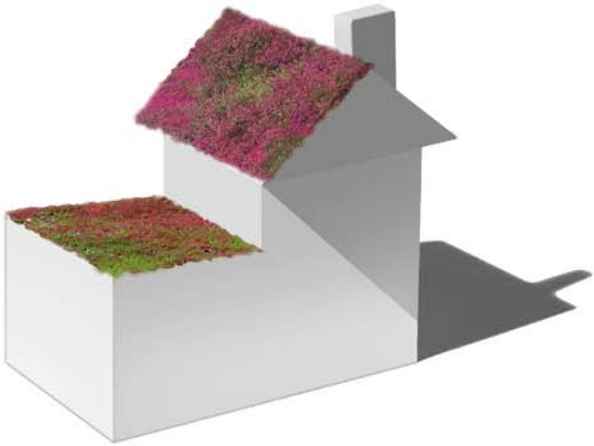
life® tile



urban roof gardens

www.urbanlifetile.com

what is it?

Extensive green roofs are a very popular system that was first developed in Germany in the 1960's when people began to question the relationship between the built environment and nature. If we tried to replace as much of what was originally there as possible, would it not be great?

Besides, green roofs offer a host of economic and aesthetic benefits, as well as a surprisingly long list of environmental ones.

The UK is slowly catching onto a movement that has taken cities such as New York, Tokyo, Hamburg and Chicago by storm. Why? Because it makes so much sense!

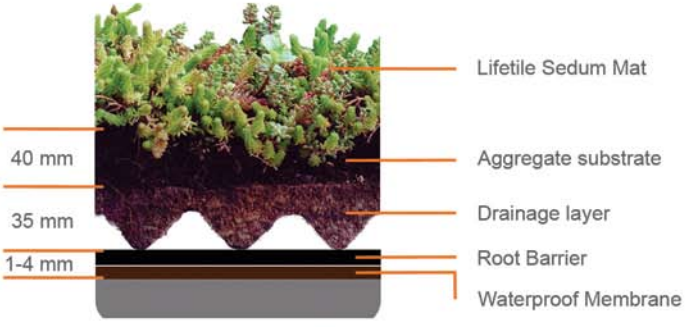
LifeTile® takes the evolution of the green roof one step further, introducing a simpler, lighter, more economic version, by employing the best green roof technology available. Best of all, the sedum is grown here in the UK.

We offer an all inclusive price, including carbon-neutral installation, comprehensively guaranteed waterproofing, and a check up visit a year later.

Do your research, you will not find as great an offer amongst any of our competitors!

The LifeTile® Team

how is it made?



LifeTile® Layers

1 Sedum

There is a large variety of sedum plants in each palette. LifeTile® gives the fastest vegetation establishment in comparative tests.

2 Aggregate substrate

This 35-40 mm thin soil substrate provides the plants with ideal living conditions. The substrate also limits the water supply, discouraging weeds from growing.

3 Drainage layer

These drainage mats are made from recycled material. These mats will hold more than six times their weight in water, 25L / m_2.

4 Waterproof Membrane

This waterproof layer is dimensionally stable, will not split or crack, resists heat and cold, and is totally UV and ozone resistant. It is approved by Green Digest and Greenpeace.

how is it fitted?

1 Waterproofing

Once the roof is checked, the waterproof membrane is installed by our specialist team. The membrane will waterproof your roof for at least 20 years. However, the extended lifespan is 50 years once covered by a green system. Next, a lightweight root barrier is added for further protection.

2 Drainage layer

Drainage mats are laid quickly and easily onto the waterproof membrane. Made from recycled material, they are immediately ready to function as reservoirs.

3 Aggregate substrate

35-40mm of this highly porous, high performance substrate is laid directly onto the drainage layer. The aggregate provides sufficient nutrients to give the plants ideal growing conditions.

4 Sedum sprouts / precultivated mats

Finally, the sedum sprouts are sown over the aggregate substrate or the precultivated mats are layed onto the drainage layer.

Alternatives: Grasses,wildflowers and mixes.

why use life tile?

Economics

Ensures your roof will remain waterproof for an extended life span in excess of 50 years.

Reduces your heating and cooling bills by up to 12%.

Increases the property value by as much as 10%.

Lifestyle

Provides a visually attractive vista with a wide range of ecosystems; from sedum to woodland habitats.

Affords low maintenance with little or no artificial irrigation requirements.

Improves thermal performance of buildings by keeping it warmer in the winter and cooler in the summer.

Improves rainwater management by dramatically reducing the volume and rate of rainwater runoff by up to 50%.

Reduces sound transmission through the roof.

Environment

Provides habitats for wildlife.

Reduces the 'urban heat island effect'.

Improves air quality, release of oxygen and water vapour, and absorption of organic volatiles.

Use of recycled materials in the green roof.

what do I get?

1 Our Waterproof Membrane Warranty:

Our waterproof membrane is guaranteed for 20 years. The product itself has a proven lifespan in excess of 50 years, more than 2.5 times the equivalent life of any competing roof covering.

2 **A LifeTile® Annual maintenance:**

After a year's growth we will examine how the sedum is settling, do some weed control as well as check the overall condition. We strongly suggest that this health check becomes a yearly event. throughout the life of the roof.

green roofs

Domestic

Commercial

quick facts about sedum

Our extensive green roof is created using a variety of sedum plants that will grow and carpet the roof surface.

Sedums are low growing succulents – plants with thick fleshy leaves and usually with clusters of white, yellow or pink flowers. They are also extremely drought tolerant which makes them particularly suitable for growing in the harsh conditions found on a roof.

Sedum is a self sustaining plant, which will thrive in almost any weather conditions and the mixture of sedums on our roofs will ensure good coverage & variety.

A green roof, like any living green system will benefit from care and assistance with establishment and sustained growth.

Sedum sprouts are best sown in spring and autumn. After sowing, there must be regular watering (if there is insufficient rain) to assist with root development.

As with all of nature, sedum change appearance along with the seasons. Some species change colour entirely, from green to red; it is a "living roof". Customers are therefore advised that the roof will not always look 'green' and that as with the plants in your garden, the roof will not look as 'fresh' throughout the winter months as it does in spring and summer.

maintenance regime

A green roof, like any living plants will benefit from care and assistance with establishment and sustained growth. We recommend that clients take out our maintenance contract for the first two years to ensure the initial establishment and upkeep of the sedum plants.

An extensive green roof will generally only require two maintenance visits every year. The frequency and level of maintenance of the green roof is down to the discretion of the client/building owner and the plant appearance they wish to maintain. Ideally these would be in the spring time and autumn.

The maintenance regime would include;

- Removal of debris and dead vegetation from the roof surface, drainage outlets, guttering and washed pebbles, etc.
- Weeding and removal of grass / saplings.
- Sowing of additional sprouts to repair patches of poor growth.
- Application of maximum 30gm² of slow release, low nitrogen fertiliser- if we assess this to be beneficial to the plant growth.
- Review Inspection Chambers and ensure that water outlets are all free draining.
- Clear and clean all perimeter and detailing surrounds [e.g. pipe upstands]

In severe drought it is recommended that the plants receive a small amount of irrigation, though this is largely unnecessary in the UK climate, unless the roof has a steep pitch. Our low density "Lifetile®" absorbs up to 25 litres of water per square metre, assisting plant growth and minimising any need for additional watering.

Any maintenance should be carried out by our approved installers. They are fully trained and qualified in the installation and maintenance of our system.

sedum variety

Saxifrage granulata

Sedum acre

Sedum album

Sedum pulchellum

Sedum reflexum

Sedum selskianum

Sedum sexangulare

Sedum spurium

Spurium “Summer Glory”

native plants

Cat's Ear

Common Yarrow

Cowslip

Lady's Bedstraw

Meadow Buttercup

Quaking Grass

Red Champion

Ribwort Plantain

Salad Burnet

Self Heal

Yellow Rattle

bulbs

Allium
schoenoprasum

Colchicum autumnale
var album

Galanthus nivalis
flore pleno

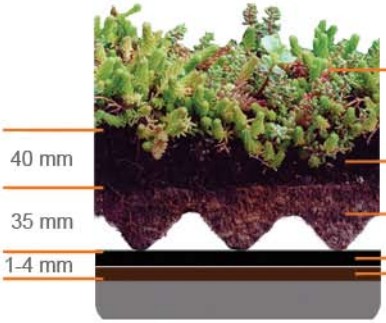
Fritillaria meleagris

Muscari neglectum

Narcissus obvallaris

green roof systems

EXTENSIVE GREEN ROOF - TYPICAL



BIODIVERSITY GREEN ROOF - TYPICAL

what can I add?

Grasses & a variety of other plants:

You don't need to restrict yourself to our selection of sedum, although our mix is particularly resilient for roof top conditions. We can mix and match different plants according to your taste.

PV panels:

Green roofs actually make PV panels more efficient. They do so because they help maintain a microclimate of 25C for the panels, which is very important because every 5C rise makes you lose 8% efficiency in the PV.

Wind turbines:

We collaborate with sustainable energy companies to install these. Any unused or excess electricity can be exported to the grid and sold to the local electricity supply company. Roof mounted wind turbines need to be free of any obstructions that may affect their wind speed.

Roof garden design:

We are London's only multi-disciplinary team to include architects, horticulturalists, engineers, designers and builders focusing exclusively on roof gardens and green roofs.

So how about making use of your gorgeous green roof, and create a sitting area where you can enjoy the view, the greenery, and get some sun!

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life tile®

urban roof gardens

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