

Retrofitting Green Roofs

By Chris Bridgman



Credit: Sempergreen



**BRIDGMAN
& BRIDGMAN**
Living Roof Services

Bridgman & Bridgman LLP



- Installers of Europe's largest turf roof
- European Green Roof Beauty Award winners
- First convertible green roof
- First qualified workforce



**BRIDGMAN
& BRIDGMAN**
Living Roof Services



Why green roofing?



**BRIDGMAN
& BRIDGMAN**
Living Roof Services

Ecological benefits

Green roofs can create a natural habitat for vertebrates and invertebrates. It is not unusual to find beneficial insects, bees, butterflies and birds 19 floors up!



Where the green roof is combined with Solar Photovoltaic (PV) panels, the plants cool the ambient air - a benefit in warmer climates and through the summer months in Britain.



**BRIDGMAN
& BRIDGMAN**
Living Roof Services

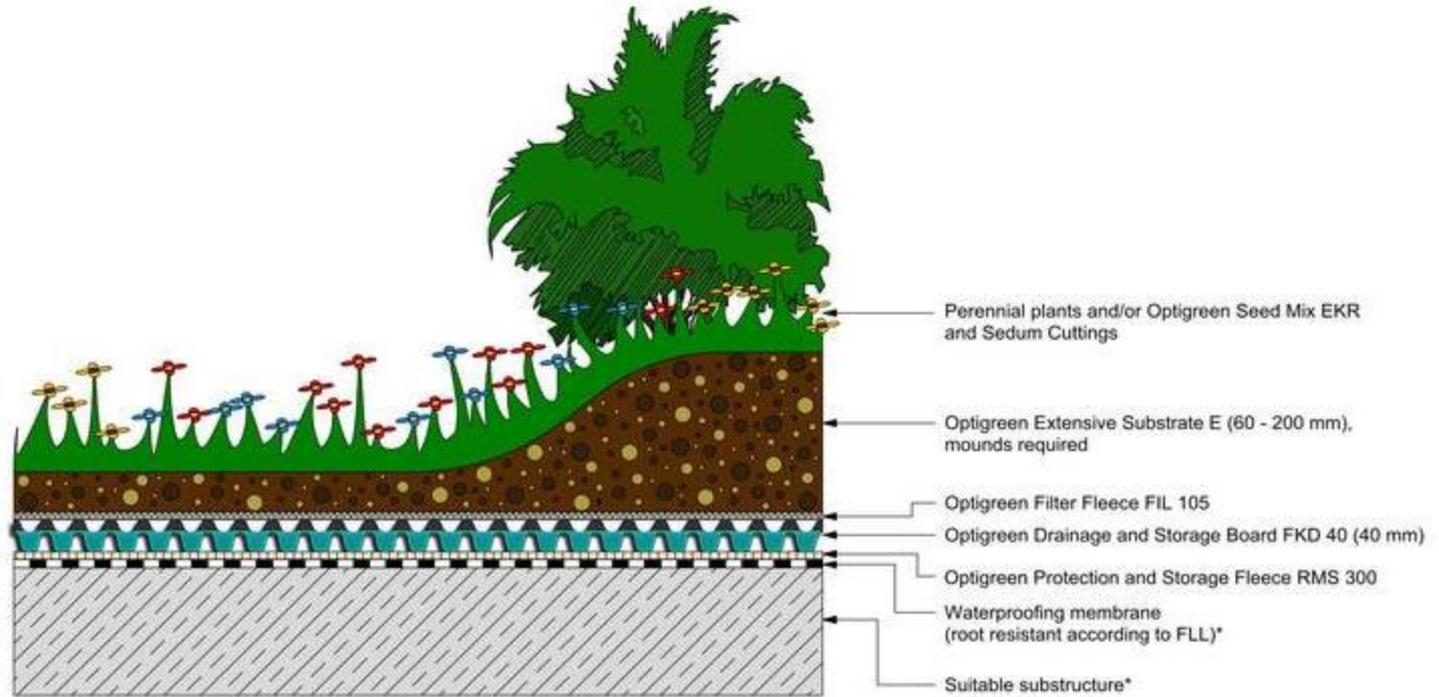
Other benefits

- If installed correctly many living roofs can contribute to BREEAM points.
- There is an increase in agricultural space where edible plants can be grown for consumption (urban farming).
- Green roofs can benefit the community by providing areas to sit and relax; schools can use the resource as a teaching aid; and they visually enhance the landscape.
- There is some evidence to suggest that green roofs reduce sound as the soil helps to block low frequencies and plants help to block higher frequencies.
- Stored water, filtered from the roof, can be used elsewhere; e.g. watering plants on the ground etc.
- There could be a long-term financial benefit.



**BRIDGMAN
& BRIDGMAN**
Living Roof Services

OPTIGREEN



**BRIDGMAN
& BRIDGMAN**
Living Roof Services



The only way is UP!



**BRIDGMAN
& BRIDGMAN**
Living Roof Services

BAUDER



1 XF301 Sedum System with integrated water retention and filter layer	+
2 AL40 edge trim, frames and retains the XF301 system	+
3 SDF Mat drainage layer for shallow pitch roofs	+

Key features

- Lightest weight system at just 44Kg/m² (saturated weight loading)
- Installed directly onto the root resistant waterproofing
- Complete integrated system
- 11 species of sedum are grown in the blanket to ensure plant diversity
- Substrate is extremely lightweight
- Moisture retention layer and substrate keep system weight to minimum



**BRIDGMAN
& BRIDGMAN**
Living Roof Services



Why weight?



**BRIDGMAN
& BRIDGMAN**
Living Roof Services



Retrofitting in cities – the highs & lows



**BRIDGMAN
& BRIDGMAN**
Living Roof Services



Any roof can become a **GREEN** roof!

Twitter: @BridgmanLscapes

LinkedIn: Chris Bridgman

Web: www.gardensinthesky.co.uk



**BRIDGMAN
& BRIDGMAN**
Living Roof Services