



Technical data sheet

Green roof GD



Manufacturer

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Product description

The green roof product takes the form of a roof that is fully planted and thus has many positive effects, such as preventing heavy rainfall and flooding by storing precipitation, increasing biodiversity, improving air quality by binding particulate matter and an additional insulating effect of the entire structure. The building is naturally cooled, shaded and its value is increased.

Systems

Easy

The structure is declared a lightweight roof system, as this is the lightest green roof structure per square metre of roof area. It consists of the root protection foil, which protects the roof cladding. The drainage mat on top of this prevents stagnant water and serves to channel water and has a laminated protective and filter fleece. Above this is the water storage mat, which supplies the sedum with water and can store excess water from heavy rainfall. The vegetation layer is formed by a sedum mat. This is supplied completely greened. This system aims to achieve a high water storage capacity in order to optimise the water supply to the plants.





Terra

The Terra system is the most common green roof system. It consists of the root protection foil to protect the roof cladding, the protective fleece (300g/m² or 500g/m²), the drainage mat, a filter fleece, the substrate and the sedum mat.

The substrate forms the water-retaining layer, which is covered directly with the sedum mat. If the substrate layer is thicker (approx. 100 mm is recommended), it can either be sown with sedum sprouts or planted with flat-balled plants.



Bio

The Bio system is a combination of the advantages of the Easy system and the Terra system. The structure is initially identical to the Easy system, with the root protection film and the drainage mat with laminated protective and filter fleece forming the first layer. The mineral wool water storage mat is then used to increase water storage, after which the structure is the same as for the Terra system with the substrate, which is covered directly with the sedum mat. A higher substrate layer (approx. 100 mm is recommended) can be used either for sowing sedum sprouts or for planting flat-balled plants.



Weights of the individual components:

Product /m ²	Weight unsaturated	Weight saturated	Water reservoir
Root protection film 0.5 mm	0.47 kg/m ²	0.47 kg/m ²	0 l/m ²
Drainage mat 17 mm	1.24 kg/m ²	5.31 kg/m ²	4.3 l/m ²
Drainage mat 17 mm	1.35 kg/m ²	7.04 kg/m ²	5.8 l/m ²
Water storage mat 25 mm	2.0 kg/m ²	17.0 kg/m ²	15.0 l/m ²
Water storage mat 50 mm	4.0 kg/m ²	34.0 kg/m ²	30.0 l/m ²
Drainage mat 25 mm	0.91 kg/m ²	5.91 kg/m ²	5.0 l/m ²
Drainage mat 40 mm	1.24 kg/m ²	10.2 kg/m ²	9.0 l/m ²
Substrate 10 mm	7.5 kg/m ²	12.0 kg/m ²	4.5 l/m ²
Sedum mat 20 mm	10.0 kg/m ²	15.0 kg/m ²	5.0 l/m ²

Other materials required

Additional materials such as gravel strips or gravel for the gravel strip at the edge of the green roof or to rising components are available from us, so that we can supply you with the green roof as a complete system.

Materials used

We only use European materials for our products.



Processing and care instructions

One or two maintenance cycles are usually required per year, with the first maintenance cycle taking place between March and April and the second between September and November.

If woody plants or unwanted herbs start to grow, it is best to remove them together with their roots. Any installed gravel strips should be kept free of plants.

The green roof should be fertilised once a year, either in spring or autumn.

The inspection shafts and roof drains should also be checked annually for soiling and cleaned if necessary so that excess water can continue to drain away. Gutters should also be checked for blockages.

Further installation and usage instructions can be found under:

<https://www.richard-brink.de/en/downloads/overview.html>