



SECALFLOR PANELS

For years, the proportion of green roofs has been increasing, not only in Germany but worldwide. In the past, green roofs were still a "real pioneer work", but thanks to state subsidies and incentives in building and wastewater law, the framework conditions for green roofs in Germany have improved considerably. Green roofs can return previously sealed areas to the urban ecology in a new form through newly created residential and commercial buildings.

HOW DO WE BENEFIT FROM GREEN SPACES ON THE ROOF?



PROTECTION OF THE ROOF MEMBRANE

A green roof effectively protects the roof membrane from hail, UV radiation and temperature fluctuations and extends its service life.



REDUCED ENERGY COSTS

A green roof cools buildings in summer and stores heat in winter. It acts as a natural air conditioning system and ensures a pleasant climate within your four walls.



NO ECOLOGICAL COMPENSATION MEASURES FOR NEW BUILDS

A considerable amount of open space is being lost from the landscape through construction work – with a green roof, we are giving something back. A green roof counts towards any green area specified in a development plan.



LOWER WASTEWATER CHARGES

A green roof retains up to 85% of rainwater and releases it over time. The water remains in the water cycle, thereby saving additional wastewater charges.



IMPROVED LIVING AND WORKING ENVIRONMENT

Green roof landscapes improve the working atmosphere in high-rise office buildings and on terrace roofs. They offer space for rest and relaxation.



HABITAT FOR ANIMALS

Green roofs provide a habitat for animals and offset the greenery that has been lost due to construction.



CLIMATE AND AIR IMPROVEMENT

By combining dust and CO₂ as well as the evaporation of stored water, the air is cleaned and the ambient climate is improved.



NOISE PROTECTION

The plant surface absorbs sound waves, thereby lowering the city's noise levels.



AESTHETICALLY PLEASING

Green havens on a roof not only visually enhance buildings, but increase property values thanks to their pleasing overall appearance.



LOW ROOF LOAD

Our panels and their compact overall structure create a surface load over **max. 35 kg/m²**.

SECALFLOR TREND SYSTEM WITH SEMPERGREEN

Our Secalfloor panels provide valuable biomass substrate as a basis for healthy plant growth and at the same time replace conventional plastic drainage and storage panels. The use of plastics is reduced by around 80 %. The green roof not only looks green from the outside - it is also green beneath the surface.

The basic structure of the intensive or extensive green roof remains the same. For optimal water storage and a slim and low-maintenance structure, we additionally use the ready-made Sedummix mat from Sempergreen. This ready-made vegetation mat contains a substrate layer that promotes plant growth through nutrients and is visually appealing with a dense plant cover (95%).

DESIGN FOR INCLINED ROOFS >2-15°

Secalfloor panels offer a user-friendly and quick to install alternative to conventional green roof structures. First, a root protection film and a protective/filter fleece are laid on the roof sealing. Then the Secalfloor panels are laid butt to butt (without overlap) and cut to size at the roof edges or at the roof drain.

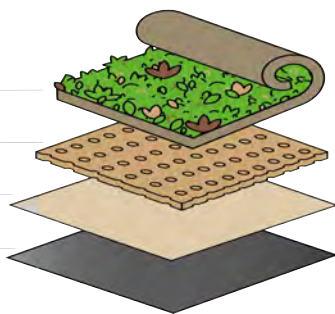
The panels are very lightweight, easy to install and cut to size with a cutter knife. This simple construction provides the basis for the application of Sempergreen's pre-drawn Sedummix mats. Simply roll them out and you're done.

Sedummix-Matte Sempergreen

Secalfloor Panel

Schutz-/Filtervlies

Wurzelschutzfolie



DESIGN FOR FLAT ROOFS (0-2°)

For flat roofs, a mineral levelling and drainage layer is also added to the structure. This is applied to the protective fleece and under the panel. It serves to prevent the unintentional accumulation of water even in smaller depressions in the roof. This protects the sedum roots from waterlogging and prevents moss from growing.

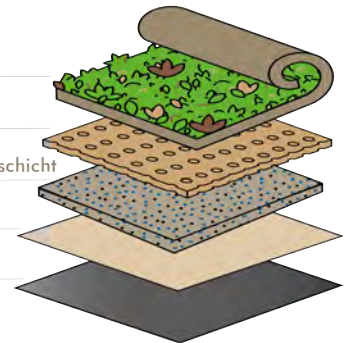
Sedummix-Matte Sempergreen

Secalfloor Panel

mineral. Ausgleichs- /Drainageschicht

Schutz-/Filtervlies

Wurzelschutzfolie



PRODUCT PHOTOS



STEEP ROOFS (OVER 15°)

Higher roof pitches also allow the use of the panels. Secalfloor panels have been tried and tested in the long term on pitched roofs.

To secure the vegetation layer, however, the installation of shear protectors should be used for roofs with a roof pitch of 10° or more that are strongly exposed to wind and rain.

From a roof pitch of 20°, anti-shear devices are always required.

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