



Green Roof System



Elmich Green Roof

Elmich Green Roof have a wide range of applications in the landscape, building and construction industries and they benefit both the buildings on which they are installed and the urban environment.



A green roof converts an otherwise dull conventional concrete or metal deck roof into an aesthetically pleasing, functional and environmentally-friendly roof. A typical green roof consists of drought-resistant vegetation grown in a layer of lightweight planting media laid over a drainage and water retention layer.

A green roof enhances storm water management and mitigates impact of air pollution by collecting airborne particulates and storing carbon. It reduces noise transfer and protects the waterproofing membrane and the roof from the harmful effects of daily sunlight and UV exposure. A green roof also contributes to energy efficiency through improvement of the thermal performance of buildings and reduction of Urban Heat Island Effect.

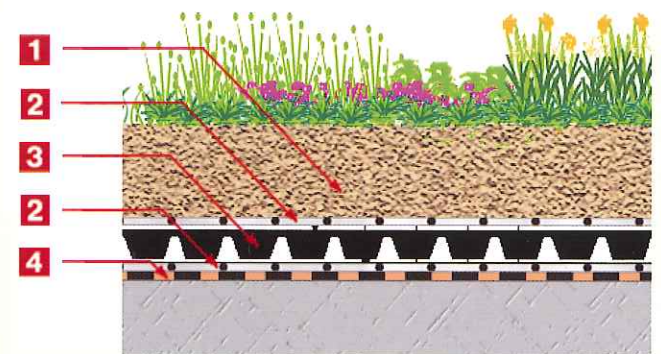


Elmich Green Roof comprises **EnviroMix® GR**, a soil-less lightweight planting media, an approved geotextile filter layer and a **VersiDrain® 25P** water retention and drainage layer.

EnviroMix® GR is a lightweight planting media produced from a mix of natural silica and lime-based minerals with proprietary additives. It is approximately 97% inorganic, has high water absorbency and retention capability and supports beneficial microbial activities. It is therefore ideal for planting on low load-bearing areas like metal deck roofs over patios, walkways and guard houses and the like.

VersiDrain® 25P is a lightweight water retention and drainage tray with water-storage cells connected by drainage channels designed to both store and facilitate the efficient discharge of excess subsoil water. Water and soluble nutrients stored in the cells are returned, via evaporation and capillary action, to the planting media during dry periods reducing irrigation frequency whilst large holes in the channels allow excess water to be efficiently drained away preventing water-logging and promoting healthy plant growth. **VersiDrain® 25P** is root-impenetrable, rot-proof and provides an insulating and protective layer above the waterproofing membrane.

Elmich Green Roof is economical, environmentally-friendly, lightweight, easy to install, and requires minimal maintenance.



Advantages

EnviroMix GR

- Lightweight
- Soil-less media (97% inorganic)
- High water absorbency and retention
- Supports beneficial microbial activity
- Minimal maintenance
- Re-usable

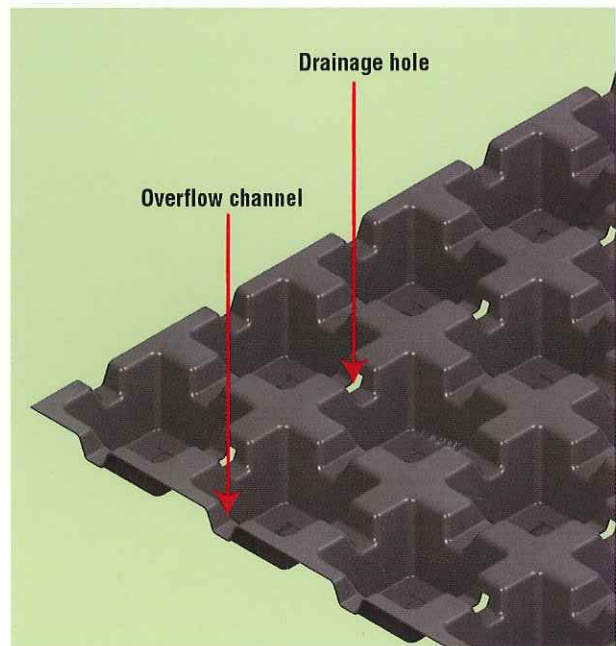
VersiDrain® 25P

- Lightweight
- High water storage capacity (6.1 l/m²)
- Provides efficient drainage
- Rot and root resistant
- Recyclable

Specifications

VersiDrain® 25P

Material	Polyethylene
Color	Black
Height	23 mm
Thickness	1 mm
Weight	0.9 kg/m ²
Roll size/dimensions	2.22 m x 1.33 m
Compressive Strength	50 kN/m ²
Fire rating	B2 (DIN 4102)
Water storage capacity	6.1 l/m ²
Flow rate @ 3% gradient	1.5 l/m.s
@ 2% gradient	1.2 l/m.s



Note: The information provided in this brochure is based on current knowledge and experience and does not infer any legally binding assurance or warranty, expressed or implied. Intending purchasers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. The products in this brochure are manufactured using specified recycled plastics under detailed quality control standards and procedures. Factors including source of raw material and manufacturing processes may impact slightly on the strength of the modules.



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