

## ShieldGREEN Lightweight Living Roof

### Description

ShieldGREEN Lightweight Roof is an innovative, lightweight green roof system with super high water retention capacity, designed specifically for green roofs on residential, non-residential and industrial buildings in urban areas. ShieldGREEN Lightweight is a complete system, which consists of a drainage system, lightweight green roof substrate and a sedum mix vegetation layer/blanket.

A core component of the ShieldGREEN Lightweight System, is 8-10 times lighter compared to traditional soil substrates used in green roofs. This means it can be used on almost any building structure without compromising its structural stability.

#### Sedum Blanket

Plant Height (mm):	20-50, depending on growing stage of sedum
Dry Weight (kg/m <sup>2</sup> ):	15
Saturated Weight (kg/m <sup>2</sup> ):	20
Consignment Size (m <sup>2</sup> ):	35 (per pallet)
Size (mm):	1100 x 2000
Species Sown:	Sedum Acre Sedum Album Sedum Ellacombianum Sedum Floriferum Sedum Forsterianum Sedum Hybridum Sedum Kamtschaticum Sedum Montanum Sedum Reflexum Sedum Selskianum Sedum Sexagulare Sedum Spurium

#### Lightweight Substrate

Thickness (mm):	20	40
Water Retention (l/m <sup>2</sup> ):	17	29
Weight (kg/m <sup>2</sup> ):	2.20	4.40

#### Drainage mat

Height (mm):	20
Width (m):	2
Length (m):	20
Roll Weight (kg):	34.20
Drainage capacity (l/s.m):	12.0
Compressive Resistance: (kN/m <sup>2</sup> ):	> 180

#### Sedum Blanket

The biodegradable Sedum Blankets comprise of twelve different species of Sedum. The blankets boast at least 95% coverage upon delivery. Sedum blankets are produced in accordance with FLL guidelines. The sedum plants are adept at storing water in their leaves and are therefore extremely suitable for varying weather conditions.

#### Lightweight Substrate

The substrate is a super lightweight green roof substrate made solely of virgin Rock mineral Wool fibres specially needed to form a compact and dimensionally stable felt. The lightweight substrate ensures excellent water retention and conservation in green roofs and is a good growing medium removing the need for traditional soil substrates. The substrate is manufactured at a width of 1m, and with a thickness of either 20mm or 40mm.

#### Drainage Mat

The drainage mat is a drainage and reservoir board made from high-impact recycled polystyrene with excellent load bearing capacity specifically designed for green roofs and is lighter and more compact when compared to regular drainage layers. The drainage mat is a three dimensional, light and flexible composite matting made up of a draining core, and is covered with a non woven filter fabric.

**0207 740 9279 | [www.shieldmembranes.com](http://www.shieldmembranes.com) | [info@shieldmembranes.com](mailto:info@shieldmembranes.com)**

**You're protected with Shield on your side™**