

GRLW 20/40 | LIGHTWEIGHT GREEN ROOF SYSTEM

DESCRIPTION

GRLW 20/40 is a super lightweight green roof substrate made solely of virgin rock mineral wool fibres specially needled to form a compact and dimensionally stable felt. It ensures excellent water retention and conservation in green roofs and is a good growing medium removing the need for traditional soil substrates.



TECHNICAL PROPERTIES

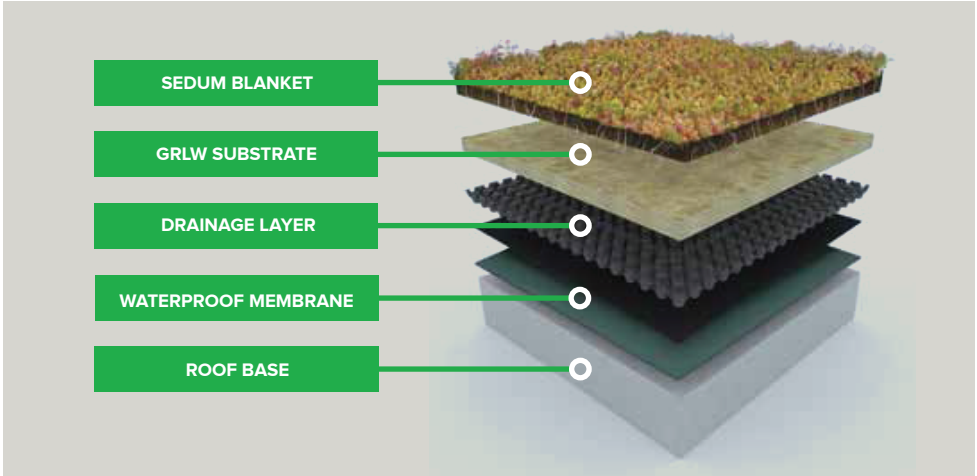
Property	Value	Standard
Pallet size (LxWxH)	1.2x1x2.6 m	
Nominal density*	100-110 (130)*** kg/m³	EN 1602
Initial water absorption**	8.3 times	
Initial water absorption under 700 N/m² pressure**	7.0 times	
Water absorption characteristics	72 %	WOK analysis
Thickness tolerance*	T2	EN 14303
Maximum service temperature*	100 °C	EN 14706
Thermal conductivity at mean temperature*	0.040 W/mK	EN 12667
Reaction to fire	Euroclass A1	EN 13501-1

*Valid for dry state **The ratio of the weight of water absorbed by a material, to the weight of the dry material.

***Valid for GRLW Standard HD

Certificates : CE, EUCEB, RAL, ISO 9001, ISO 14001, EN 16001, OHSAS 18001

SYSTEM BUILDUP



SYSTEM BENEFITS

LIGHTWEIGHT STRUCTURE

GRLW 20/40 can be used on almost any building structure without compromising the structural stability. GRLW 20/40 is 8-10 times lighter and can hold up to 3-4 times more water per its volume than other green roof substrates.

HIGH WATER ABSORPTION

GRLW 20/40 provides for fast and long term stable water re-absorption and water retention performance.

EFFICIENT INSTALLATION

For sufficient water absorption capacity and appropriate growing base for vegetation of 1000 m² of green roof, 2-5 tons of GRLW 20/40 Substrate are needed compared to above 100 tons of traditional green roof substrates.

Product	Thickness	Width	Length	Units Per Pallet	Weight	Pallet Weight	Product Water Retention	System Water Retention
GRLW 20	20 mm	1 m	6 m	24	2.20kg/pallet	316.80kg/pallet	171/m²	TBC
GRLW40	40 mm	1 m	3 m	24	4.40kg/pallet	316.80kg/pallet	291/m²	TBC