




# Urbanscape Green Roll Substrate



## Description

**Urbanscape Green Roll** 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. Urbanscape Green Roll ensures excellent water retention and conservation in green roofs and is a good growing medium removing the need for traditional soil substrates.

## Urbanscape Green Roof System Key Benefits

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**Lightness**  
**8 x lighter**  
 Urbanscape Green Roll being a core of the Urbanscape Green Roof System is lighter compared to the traditional soil substrate and can be used on almost any building structure without compromising the structural stability. On average Urbanscape Green Roll is 8-10 times lighter and can hold up to 3-4 times more water per its volume than other green roof substrates.
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**High water absorption**  
**10x better water retention**  
 Urbanscape Green Roll provides for fast and long term stable water re-absorption and water retention performance. Depending on climate zones, different types of Urbanscape Green Roll are used.
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**Efficient installation**  
**2-5 tons vs 100 tons**  
 Urbanscape Green Roll ensures significantly lower labour intensity. For sufficient water absorption capacity and appropriate growing base for vegetation of 1000 m<sup>2</sup> of green roof, 2-5 tons of Urbanscape Green Roll Substrate are needed compared to above 100 tons of traditional green roof substrates.

### Further benefits

-  Complete solution
-  Sustainability
-  High acoustic performance
-  High fire resistance

## Technical Properties of Urbanscape Green Roll

Products	Thickness	Width	Length	Units per pallet	Weight	Pallet weight	Product water retention	System water retention
Green Roll Standard	20 mm	1 m	6 m	24	2.20 kg/pallet	316.80 kg/pallet	17 l/m <sup>2</sup>	TBC
Green Roll Standard	40 mm	1m	3 m	24	4.40 kg/pallet	316.80 kg/pallet	29 l/m <sup>2</sup>	TBC

Property	Value	Standard
Pallet size (LxWxH)	1.2x1x 2.6 m	
Nominal density*	100-110 (130)*** kg/m <sup>3</sup>	EN 1602
Initial water absorption**	8.3 times	
Initial water absorption under 700 N/m <sup>2</sup> 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* $\lambda_{N,P}$	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 Green Roll Standard HD

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

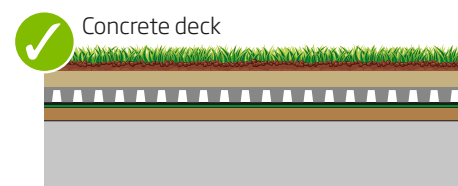
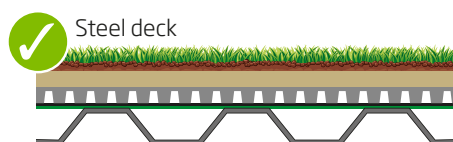
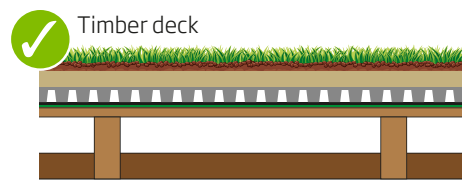
## Installation

- Roll out Urbanscape Green Roll crosswise on top of the drainage panels
- You might create a non covered area of 20 cm from the edge of the roof. This area will be used as a gravel area. Install Urbanscape Green Roll tightly side by side
- If necessary Urbanscape Green Roll can be cut to the right size (scissors preferable).



## Applications

Urbanscape is light enough to be installed in all these applications.



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