

# Urbanscape® Green Roll (Landscaping)

November 2017

## Description

Urbanscape® Green Roll for Landscaping is made of needled rock mineral wool to form a compact and dimensionally-stable felt. Using Urbanscape® Green Roll in various landscaping applications provides better water absorption, retention and distribution, which in turn results in better plant growth and more attractive plants.

Urbanscape® landscaping and landscape-shaping materials are made from natural, locally sourced volcanic rock. Rock mineral fibres are produced in a heating process entirely without any chemical binders and have superior water storage and release capabilities that make water and nutrients easily accessible to plants. This in turn improves soil structure and reduces environmental stress on plants.



## Applications

Place Urbanscape Green Rolls below the soil layer or any other growing media to improve water-retention capacity and aeration.

## Where to use it

- Landscaping applications (lawn areas, slope greening, in design of shaped patios...)

## Why

- Reduces watering by up to 50%\*
- Reduces environmental stress on the plants
- Improves plant growth and roots development
- Improves plant vigour and resistance
- Increases water-retention capacity and aeration

*\*Results may vary due to type of soil, vegetation and climatic conditions.*

## Benefits



High water absorption



Reduced irrigation frequency



Improved root growth



Stronger plants



Efficient installation



Sustainability



Improved water air ratio

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*Above and beyond*

## Technical Properties of Urbanscape® Green Roll for Landscaping

Property	Unit	Value	Standard
Nominal density*	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	130 (8.1)	
Initial water absorption**	times	7	
Initial water absorption under 700 N/m <sup>2</sup> pressure**	times	6.2	
Water absorption characteristics	%	72	WOK analysis
Thickness tolerance*		T2	EN 14303
Maximum service temperature*	°C	100	EN 14706
Thermal conductivity at mean temperature* λ <sub>N,P</sub>	W/mK	0.040	EN 12667
Reaction to fire		A1	EN 13501-1

\*Valid for dry state \*\*Ratio of weight of water absorbed by a material to the weight of the dry material.  
 Certificates: CE, EUCEB, RAL, ISO 9001, ISO 14001, EN 16001, OHSAS 18001

## Usage / Installation

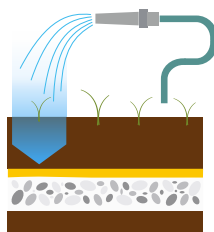
### 1. Simple to use

Place the Green Roll on the top of properly prepared base ground and spread a layer of fertile soil (10-20 cm) over it.



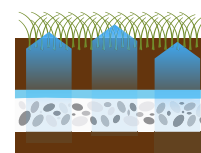
### 2. Usual care

Place a pre-vegetated blanket over the soil or sow seeds. Water thoroughly.



### 3. Less watering

The green plot should be watered regularly (using less water than usual) until the plants are deep-rooted. The Green Roll stores additional water thus plants may access to it when required.



Even better effects can be achieved by combining Urbanscape® Green Rolls together with Urbanscape® Green Flocks or Urbanscape® Green Cubes in an engineered substrate.

## Packaging of Urbanscape® Green Roll

Product	Thickness		Width		Length		Units per pallet	Weight		Pallet weight		Water retention	
	(mm)	(in)	(m)	(ft)	(m)	(ft)		(kg/m <sup>2</sup> )	(lb/ft <sup>2</sup> )	(kg/pallet)*	(lb/pallet)	(l/m <sup>2</sup> )	(gal/ft <sup>2</sup> )
Green Roll D13/20 (609400)	20	0.8	1	3.28	6	19.7	24	2.6	0.53	374.4	825.4	17	0.41
Green Roll D13/40 (609399)	40	1.6	1	3.28	3	9.8	24	5.2	1.07	374.4	825.4	29	0.71

\* Net pallet weight

Loading details	pallet size (cm)	m <sup>2</sup> /pallet	pallet/container (HC 40ft)	m <sup>2</sup> /container (HC 40ft)	pallet/truck (44.6ft)	m <sup>2</sup> /truck (44.6ft)
Green Roll D13/20 (609400)	120×110×240	144	21	3.024	24	3.456
Green Roll D13/40 (609399)	120×110×240	72	21	1.512	24	1.728

Loading details	pallet size (ft)	ft <sup>2</sup> /pallet	pallet/container (HC 40ft)	ft <sup>2</sup> /container (HC 40ft)	pallet/truck (44.6ft)	m <sup>2</sup> /truck (44.6ft)
Green Roll D13/20 (609400)	3.9 × 3.6 × 7.9	1.550	21	32.550	24	37.200
Green Roll D13/40 (609399)	3.9 × 3.6 × 7.9	775	21	16.275	24	18.600

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