# **Urbanscape** Green Roll Substrate (HTC GR)

# May 2014

## Description

Urbanscape Green Roll (HTC GR) is a lightweight green roof substrate made of long rock mineral wool fibres specially needled to form a compact and dimensionally stable felt. Product is made solely of virgin rock mineral fibres. Urbanscape Green Roll ensures excellent water retention and conservation in green roofs and is a good growing medium made from various mineral mixtures.

Urbanscape Green Roll Medium (HTC GR M) and Urbanscape Green Roll High (HTC GR H) have additionally super absorbent particles dispersed into the rock mineral wool felt. This makes the product the most suitable for growing plants as rock mineral felt absorbs the water through capillary action. Particles provide additional water storage, releasing it when required. Super absorbent particles also protect the water from evaporating and leaching when temperatures are high. In accordance with FLL Guidelines for the Planning, Execution and Upkeep of Green-Roof Sites where applicable.



#### Installation

- Roll out Urbanscape Green Roll crosswise on top of the drainage panels/rolls.
- 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).

Products	Thickness (mm)	Width (m)	Length (m)	Units per pallet	Weight (kg/m²)	Pallet weight (kg/pallet)	Water retention (I/m²)
Green Roll Standard	20	1	6	24	2.20	316.80	17
Green Roll Medium	20	1	6	27	2.25	364.50	27
Green Roll High	20	1	6	27	2.30	372.60	37
Green Roll Standard	40	1	З	24	4.40	316.80	29
Green Roll Medium	40	1	З	27	4.45	360.45	39
Green Roll High	40	1	З	27	4.50	364.50	49
Green Roll Standard MD	26	1	5	12	3.30	202.80	17
Green Roll Standard HD	26	1	5	12	3.90	234.00	17





Above and beyond

## Technical Properties of Urbanscape Green Roll Substrate

Property	Unit	Value	Standard
Pallet size (LxWxH)	m	1.2x1x 2.6	
Nominal density*	kg/m <sup>3</sup>	100-110	EN 1602
Initial water absorption**	times	8.3	
Initial water absorption under 700 N/m2 pressure**	times	7.0	
Water absorption characteristics	%	72	WOK analysis
Thickness tolerance*	T2		EN 14303
Maximum service temperature*	°C	100	EN 14706
Thermal conductivity at mean temperature* $\lambda$ $_{\text{N,P}}$	W/mK	0.040	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. Certificates : CE, EUCEB, RAL, ISO 9001, ISO 14001, EN 16001, OHSAS 18001

# Urbanscape Green Roof System Benefits



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