

## Drainage System with buffer

### Description

Urbanscape® Drainage System with buffer is a double sided drainage and reservoir board made from recycled high-impact polystyrene with excellent load bearing capacity specifically designed for green roofs. The panels are perforated on one side to allow installation with the holes on the upper side for water retention. It ensures the buffering of water in dry periods and rapid drainage of water in wet periods in green roofs and additionally aerates the root system of the plants. The drainage system is made of high quality plastic to ensure that the system is lighter and more compact comparing to regular drainage layers. In accordance with FLL Guidelines for the Planning, Execution and Upkeep of Green-Roof Sites.



### Installation

Urbanscape® Drainage System is installed below the Urbanscape® Green Roll.

- Panels are perforated on one side, to allow water retention. Install the panels with the holes on top with an overlap.
- Cover the total roof area with the panels.
- Cut out material where drain baskets must be installed.
- For safety reasons and protection of the roofing membrane use a hook cutter for cutting the drainage panels. Do not use a sharp blade cutter or knife.

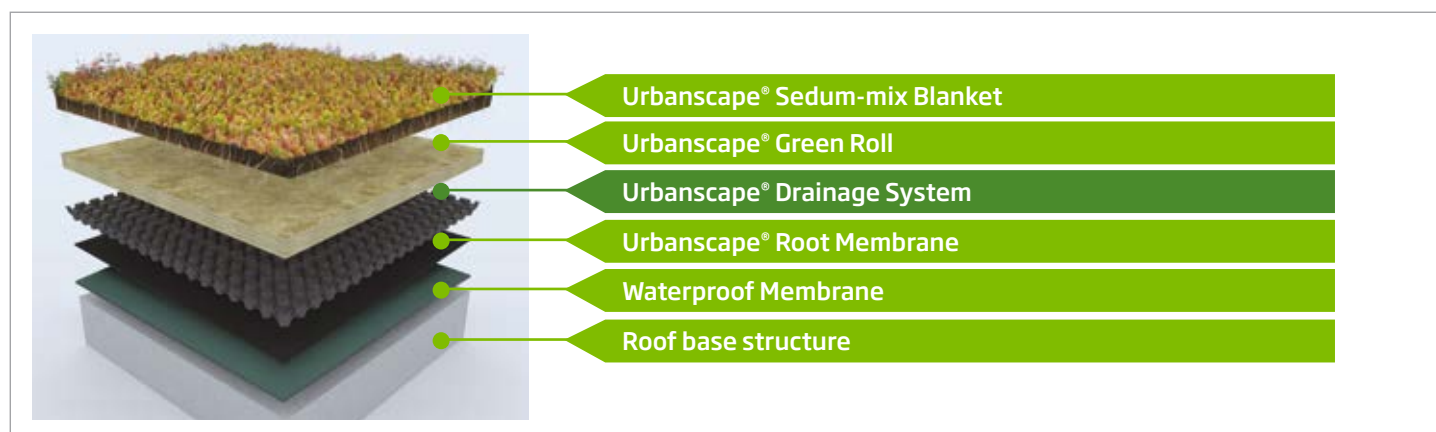
**Storage:** store horizontally, for long-term storage protect from UV radiation adjacent to each other or overlapped, cover immediately after laying.

## Technical Properties of Urbanscape® Drainage System with buffer

Property	Unit	Value		Standard
		Drainage with buffer	Drainage with buffer FRB-25/2	
Height	mm	25	25	
Width	m	1.1	1.1	
Length	m	2.02	2.02	
Rain water retention capacity	l/m <sup>2</sup>	11.8	11.8	
Packaging	pcs/pallet	250	250	
	m <sup>2</sup> /piece	2.22	2.22	
	m <sup>2</sup> /pallet	555	555	
Pallet size (L × W × H)	m	2.02 × 1.1 × 1.2	2.02 × 1.1 × 1.2	
Weight	kg/m <sup>2</sup>	1.36	1.56	
Pallet weight	kg/pallet	754.8*	865.8*	
Water flow capacity	l/m*s	2% roof slope: 0.57	2% roof slope: 0.57	EN-ISO 12958
		3% roof slope: 0.71	3% roof slope: 0.71	
		5% roof slope: 0.91	5% roof slope: 0.91	
Compressive strength (unfilled)	kN/m <sup>2</sup>	322	517	EN-ISO 25619-2
Reaction to fire			Euroclass E	EN 13501-1

\* wooden pallet not included (25 kg)

## Urbanscape® Green Roof System Benefits



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