

# Urbanscape Drainage System

May 2014

## 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 substrate in green roofs.

- 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.

\* Diadrain 25H

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**BVB**  
SUBSTRATES

  
**urbanscape**

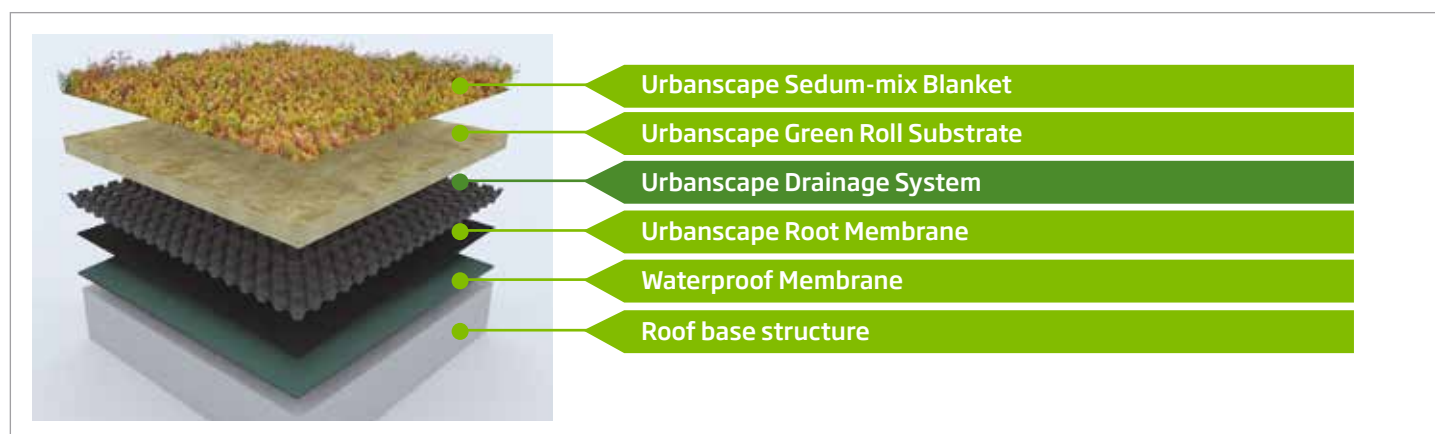
*Above and beyond*

## Technical Properties of Urbanscape Drainage System with buffer

Property	Unit	Value	Standard
Height	mm	25	
Width	m	1.1	
Length	m	2.02	
Rain water retention capacity	l/m <sup>2</sup>	11.8	
Units	units/pallet	400	
Size	m <sup>2</sup> /unit	250	
Size	m <sup>2</sup> /pallet	555	
Pallet size( LxWxH)	m	2.02x1.1x1.2	
Weight	kg/m <sup>2</sup>	1.36	
Pallet weight	kg/pallet	755	
Water flow capacity	l/m*s	2% roof slope: 0.57 3% roof slope: 0.71 5% roof slope: 0.91	EN-ISO 12958
Compressive strength	kN/m <sup>2</sup>	444	EN-ISO 25619-2
Reaction to fire		B roof (t2)	EN 13501-5

## Urbanscape Green Roof System Benefits

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**Complete solution**
- 
**Lightness**
- 
**Efficient installation**
- 
**Sustainability**
- 
**High water absorption**
- 
**High thermal performance**
- 
**High acoustic performance**
- 
**High fire resistance**



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