

# Urbanscape Root Membrane

May 2014

## Description

Urbanscape Root Membrane\* is a black LD Polyethylene regenerate which is used to prevent the roots penetrating in green roofs.

In accordance with FLL Guidelines for the Planning, Execution and Upkeep of Green-Roof Sites.



## Installation

Urbanscape Root Membrane is installed below the drainage layer in green roofs.

- When waterproofing membrane is not resistant to root penetration, cover the roof with the Urbanscape Root Membrane.
- The root membrane covers the waterproofing membrane with at least 1.5 meter overlap on all sides. The root membrane needs to be fixed during installation.
- Cut out the material where drain baskets must be installed.
- Do not cut directly on the waterproof membrane. For safety reasons and protection of the membrane use a hook cutter. Do not use a sharp blade cutter or knife.

\* FLW 500

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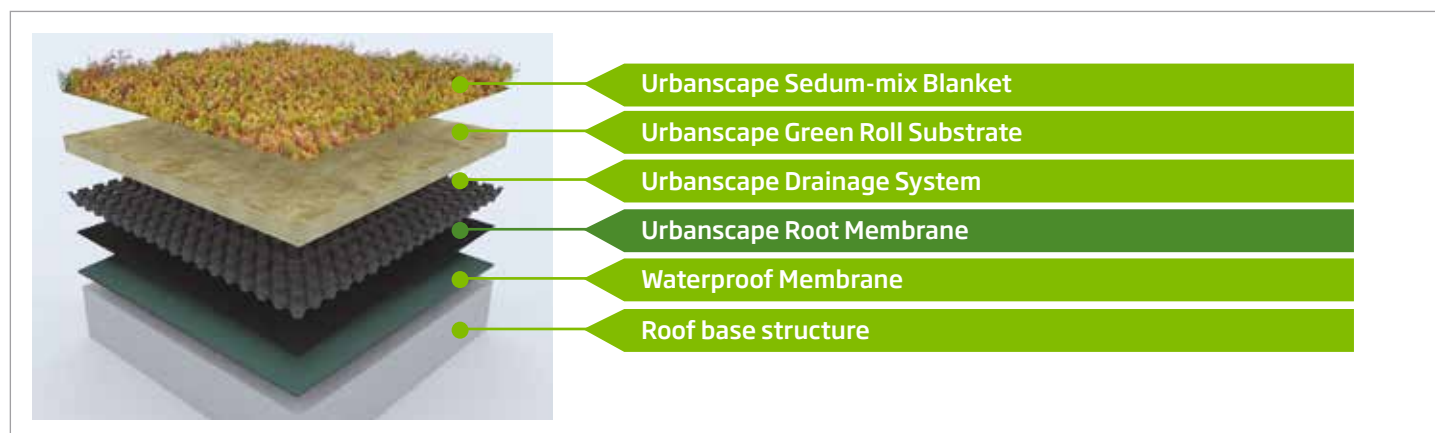
*Above and beyond*

## Technical Properties of Urbanscape Root Membrane

| Property                               | Unit                   | Value          | Standard      |
|--|------------------------|----------------|---------------|
| Average thickness                      | mm                     | 0.5 (+/-10%)   | ISO 4591      |
| Width                                  | m                      | 4 (+/-2%)      | ISO 4592/2    |
| Length                                 | m                      | 25 (+/-3%)     |               |
| Units                                  | rolls/pallet           | 25             |               |
| Size                                   | m <sup>2</sup> /roll   | 100            |               |
|  | m <sup>2</sup> /pallet | 2500           |               |
| Pallet size ( LxWxH )                  | m                      | 2x1.2x1.4      |               |
| Weight                                 | kg/m <sup>2</sup>      | 0.5            |               |
| Pallet weight                          | kg/pallet              | 1250           |               |
| Tensile strength - length direction    | mPa                    | 18.0-21.0      | ISO1184       |
| Tensile strength - transvers direction | mPa                    | 17.0-20.0      | ISO1184       |
| Elongation - length direction          | %                      | 400-500        | ISO1184       |
| Elongation - transverse direction      | %                      | 500-600        | ISO1184       |
| Tear resistance - length direction     | g/μ                    | 2.5-4.0        | ISO6383/2     |
| Tear resistance - transverse direction | g/μ                    | 4.0-7.0        | ISO1183       |
| Dart drop                              |                        | Not measurable | ASTM D1709-98 |
| Density                                | g/cm <sup>3</sup>      | 0.93           | ISO1183       |

Certificates: ISO 9001, ISO 9014

## Urbanscape Green Roof System Benefits



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