

## CASE STUDY

Drainage | Rooftop Garden | Waterfall Equestrian Estate, Midrand

Nov 2014

Client Private Homeowner

Contractor Rekopane Landscapes

Rep Winnie van der Merwe

Product

**bidim**<sup>®</sup> A2, A4 | 200m<sup>2</sup>  
 Flownet<sup>™</sup> | 100m<sup>2</sup>  
 Kaytape | 100m<sup>2</sup>



An equivalent of **1 081** recycled 2l PET bottles was used in this project

### Problem

While adding to the estate's sustainable and integrated ecology, a drainage system was required that would maintain the integrity of a rooftop garden.

### Solution

A 4-component system was installed.

For the protection of the waterproofing applied directly to the roof, **bidim**<sup>®</sup> A4 was installed.

To control the flow path of water, **Flownet**<sup>™</sup> was laid over the **bidim**<sup>®</sup> A4.

A layer of **Kaytape S270** was subsequently rolled out over the **Flownet** to act as a high modulus separator.

A filtration layer of **bidim**<sup>®</sup> A2 was then installed.

To add filtration diameter to the drainage system and to help prevent clogging of the **bidim**<sup>®</sup>, a 50 mm layer of high quality, clean river sand was placed over the drainage system and covered with a final layer of topsoil.

### Benefits

Ease and speed of installation enabled the contractor to complete the project within 1 day.



**bidim**<sup>®</sup> A4 protects the waterproofing layer



**Kaytape S120** is laid over the **Flownet**<sup>™</sup>



The final **bidim**<sup>®</sup> A2 layer under the cover soil functions as filtration