

## CASE STUDY

# SANPAC AFRICA LTD.

## ELEVATED GARDEN – I&M BANK BLDG

**PROJECT** – ELEVATED GARDEN I&M BANK HEAD OFFICE

**CLIENT** – I&M BANK LTD.

**CONSULTANT ENGINEER** – MANGAT, I.B. PATEL AND PARTNERS

**CONTRACTOR** – LAXMANBHAI CONSTRUCTION LTD.

**DATE** – 2018 - 2019

**PRODUCTS** – 150 GSM NON WOVEN, NEEDLE PUNCHED CONTINUOUS FILAMENT GEOTEXTILE

**QUANTITY** – 1192.5 SQM

I&M Bank Ltd., was constructing their head office on Limuru Road, 1<sup>st</sup> Parklands Avenue. The team working on this project was looking at different solutions for roof garden drainage. The solution the team settled for was one where torched APP waterproofing membrane was laid on top of a leveling screed; laid to falls – min 1:100. A protective screed was laid on top of the APP membrane; laid to falls. Slotted drainage pipes and irrigation systems were then placed on top of the protective screed. The slotted drainage pipes were wrapped in a 150 gsm geotextile. A layer of pumice was then laid on top of the pipes and irrigation system. The pumice was covered with the 150 gsm geotextile. In sections where irrigation pipe risers were installed, an incision was made in the geotextile, which allowed the geotextile to wrap around the risers. The geotextile was secured on the risers by packing tape / binding wire. The geotextile was then covered by soil fill, ready for planting.



*Images 1 & 2 – 150 gsm geotextile laid over the pumice and slotted pipes.*



*Image 3 – Top soil placed over the 150 gsm geotextile.*



*Image 4 – Complete section.*