GEOFABRICS CASE STUDY

MEGAFLO GREEN DRAIN PIPE KEEPS QUEENSLAND STADIUM GAME-READY

PRODUCTS USED

Megaflo® Green Socked Slotted Drain Pipe

- A wide, flat-shaped panel drainage system made from recycled HDPE and wrapped with Bidim Green non-woven geotextile for quick and effective sub-surface drainage
- Up to 4.9 times faster water drainage compared to conventional 100mm round agi pipe due to its ability to effectively remove excess water with its increased in-take slot distribution
- Saves up to 50% installation compared to conventional 100mm round agi pipe
- Higher compressive strength under traffic loads due to its structural rigidity

Bidim® Green Non-Woven Geotextile

- A strong three-dimensional structure with high elongation and equal biaxial strength properties in both directions
- Made with a combination of recycled PET and virgin plastic materials
- Provides excellent filtration, separation, drainage and protection performance
- Reduced need for quarried fill materials and reduced construction times

PROJECT DESCRIPTION

The construction of the Queensland Country Bank Stadium Townsville began in August 2017. Geofabrics was engaged to supply and design a high strength drainage system for the multi-purpose venue, which accommodates up to 25,000 people.

Located in a tropical climate with high intensity rain events. The stadium required a drainage system that could cope with extreme rainfall over a short period of time.

OUR SOLUTION

The installation consisted of Megaflo Green socked slotted drain pipe as the main trunk lines with 300mm and 450mm panels running along the length and the circumference of the field. Connecting into these main trunk lines are the 170mm panels laid in a herringbone pattern, intercepting all water through the sports field. The whole system feeds into Megaflo panels that circumnavigated the field and empty into a series of concrete pits.

The installation contractor elected to lay Bidim Green non-woven geotextile as a separator prior to installation of the Megaflo. The panels were held in place utilising soil nails installed through the panel slots into the ground; an effective technique that prevents the panels from moving as other connections in the line are added.

Once installed, the Geofabrics team visited the site to ensure the head contractor and sub-contractors were satisfied with the result of the Megaflo system before any filtration medium and turf was backfilled. The final layout provided an excellent example of a complex Megaflo system created to meet the designers requirements.

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