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Turn-Key Geosynthetics Solution for Royal Sydney Golf Club



As part of major renovations at Royal Sydney Golf Club, a large-scale irrigation dam was constructed, designed to integrate both functionally and aesthetically with the existing golf course terrain.

Tiltex Australia delivered a comprehensive, turn-key geosynthetics solution for this project, incorporating multiple layers of engineered materials for optimal performance and protection.

The system configuration began with the placement of an SDV2300 structural drainage void layer, selected for its high compressive strength and effective subsurface drainage capabilities.

Above the drainage layer, a 2.0mm smooth High-Density Polyethylene (HDPE) geomembrane liner was installed, offering chemical resistance and low permeability essential for water retention applications. This liner was thermally

welded along all seams to ensure complete continuity and minimize potential leakage pathways.

To enhance mechanical protection and environmental durability, Tiltex Australia's exclusive basalt fibre enhanced Tiltex 10B Geosynthetic Cementitious Composite Mat (GCCM) was deployed over the HDPE liner. The GCCM layer serves as a robust barrier against UV degradation, physical impact from feral animals, and vandalism, thereby extending the service life of the containment system.

Critical penetration and termination points, including concrete sump structures, hydrostatic relief valves, and pipe inlets, were sealed using specialized techniques to maintain liner integrity and watertight performance.

Comprehensive quality assurance procedures were employed throughout the installation. These included destructive and non-destructive testing of welds and seams, as well as an Arc Conductive Test Survey to detect any potential liner breaches post-installation.

This integrated geosynthetics solution not only meets stringent engineering and environmental standards but also contributes to the long-term sustainability and functionality of the Royal Sydney Golf Club's irrigation infrastructure.

To find out more about this and other projects, contact Ben Curtis, Business Development Manager at enquiries@tiltexaustralia.com.au or visit www.tiltexaustralia.com.au.

