



Winx Stand Royal Randwick Racecourse, Sydney, NSW

The Winx Stand is located at the southern end of the QE2 grandstand at Randwick Racecourse. The facility comprises a leading-edge, two-floor Conference and Exhibition Centre with increased weather protection and quality amenities for patrons on race days.

Project Design Brief

Engineers were required to incorporate an on-site stormwater infiltration system to alleviate uncontrolled runoff and to mitigate flooding around the dam in the middle of the course. The 276m³ underground tank needed to capture standing surface water with stormwater from the roof systems and slowly release it into safer surrounding areas. Engineers needed a strong, quick to assemble tank which could be maintained easily.

ACO's Solution

- **StormBrixx® SD** geocellular stormwater management system.
- ACO's Technical Services provided the designer with structural calculations, installation drawings and a bill of quantity

Benefits

- The lightweight stackable design simplifies delivery and site logistics and is also quick and easy to assemble on site.
- The tank's brickbonding and cross bonding feature provides unparalleled stability.
- Access units together with the unique pillar configuration enables entry into the tank for maintenance and inspection.

Other ACO products used

- Building drainage channels and floor drains ([ACO Stainless](#), [ACO Buildline](#), [ACO Wexel](#))
- Stormwater trench drains ([ACO Drain](#))

