



Ballarat Regional Football (Soccer) Facility Case study



Project Overview:

Turf One was awarded the contract by the City of Ballarat following an extensive tender review process. The project was let as a design and construct contract to supply and install an artificial turf football (soccer) pitch to FIFA 1 Star. The scope of works included:

- Excavation of the existing natural surface and removal of redundant infrastructure including reclamation of the topsoil for later use.
- Profiling of the sub-grade to specified design levels.
- Construction of open graded aggregate base incorporating sub-surface drainage.
- Construction of concrete pathways to the perimeter of the field.
- Supply and installation of Duraspine Ultra 42 synthetic turf and line marking for soccer.
- Supply and installation of a Green Lighting System, consisting of 6 towers providing a uniform 100 Lux. illumination.
- Supply and installation of chainmesh fencing including goal backdrop fencing, gates, and coaches boxes.

Points of Interest:

- Location:** Morshead Park Soccer Precinct, Pleasant St, Ballarat. Victoria.
- Sport:** Football (soccer)
- Users:** Football Club, and the local community as public open space.
- Size:** Total surfaced area: 7,700m²
Football pitch: 105m x 68m = 7,140m²; with three metre minimum run-off from both goal and touch lines.
The pitch conforms to FIFA Standards.
- Surface:** FieldTurf DURASPINE ULTRA 42 polyethylene synthetic turf.
- Infill:** 155 tonnes of specially sized kiln dried sand and recycled rubber have been installed in a patented process to provide a safe, low maintenance, high performance playing surface.
- Shock pad:** Re-bounce 12mm pre-formed shock pad.
- Base:** Over 4,400 tonnes (146 truck and trailer loads) of selected aggregates sourced from local Ballarat quarries have been used in the construction of the base course.
- Drainage:** The deep layer aggregates provides a more efficient evacuation of rainwater from the surface than afforded by the network of agricultural pipes commonly employed for such fields. The increasing depth of railway ballast sized rock under the lower side of the field not only flattens the playing surface, but provides more void space allowing for both retention and efficient transmission of water to the collector drains.
- Sustainability/water harvesting:**
All components of the FieldTurf surfacing system are recyclable, using specialised equipment developed by FieldTurf specifically for this purpose.
Turf One, in conjunction with consulting engineers designed and constructed the drainage system to harvest all stormwater from the pitch. All surface water is conveyed to the south-eastern corner where, in future development, it will be harvested.
- Fencing:** Black powder coated pedestrian fencing with PVC coated chain wire mesh fence including two lengths 20m x 4m high goal backdrops.
- Lighting:** Musco Light Structure Green System. The six pole system comes with a 5,000 hour warranty. Included in the system is a sophisticated C-BUS system which allows for future development plans.
- Pathways:** 125mm thick reinforced footpath; and 100mm thick granitic sand pathway.
- Project Commencement Date:** June 2010 **Project Completion Date:** November 2010
- Pitch Maintenance:** Turf One Pty Ltd **Final Project Cost:** \$1.3 million

Other Specifics:

- Pitch certified to FIFA 1 STAR standard.
- Capacity to be used during all weather conditions including its use for intensive training sessions during the week, whilst providing a high-performance facility for weekend competition.
- Both permanent and portable goals complete with nets.
- Tufted line markings for soccer.
- In-ground sleeves fitted for corner flags; and half pitch play.
- Custom built players shelters to seat 8 players.

Project Contractor:

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Venue Manager and Owner:

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Ashley Pittard. Acting Executive Manager Sustainability.