



East Keilor Leisure Centre Synthetic Soccer Pitch Case study



Project Overview:

Victorian based sports field civil construction company Turf One was awarded the contract by the Moonee Valley City Council for the design and construction of an artificial turf soccer pitch to FIFA 1 Star standards.

The site consisted of a highly reactive sub grade requiring the installation of an impervious membrane and structural capping layer. Additionally, a specially designed vertically draining base consisting of 2,800 tonnes of graded aggregates ensures rainfall will rapidly and efficiently flow through the base for future water harvesting and eliminating game downtime. A wet, muddy and unplayable pitch will now be a thing of the past.

FieldTurf Prestige XM60 recyclable artificial turf was installed. This technologically advanced fibre structure is ideal for ball performance and is designed to deliver a long lasting, high performance playing surface. The completed project was tested to the international standards set by FIFA. The pitch performance standards resulted in a FIFA 2 Star rating thus exceeding the FIFA 1 Star contract specification.

Key Points of Interest:

- Location:** Quinn Grove Reserve, Synthetic Soccer Pitch, East Keilor, Victoria.
- Sport:** Soccer.
- Users:** Local Soccer Clubs, and the local community as public open space.
- Size:** Total surfaced area: 6,784m²
- Soccer Pitch:** 100m x 58m = 5,800m²; with three metre minimum run-off from both goal and touch lines. The pitch conforms to FIFA Standards.
- Surface:** FieldTurf Prestige XM60 - a polyethylene spined monofilament synthetic turf.
- Infill:** 204 tonnes of grade kiln dried sand and crumbed rubber from more than 11,500 recycled car tyres have been installed in a patented process to provide a safe, high performance playing surface.
- Base:** Over 2,800 tonnes of selected aggregates.
- Drainage:** Deep layer aggregates were used to provide a more efficient evacuation of rainwater from the surface than afforded by a network of agricultural pipes commonly employed for such fields. The increasing depth of graded aggregates under the lower sides 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:

FieldTurf's commitment to the environment is demonstrated through their development of technology that allows the recycling of up to 75% of the surface once the useful life of the turf has lapsed. All surface water is conveyed to the existing drainage infrastructure which allows for future water harvesting. It is estimated more than 4 million litres of storm water can be collected over twelve months.

Project Commencement Date: April 2010

Project Completion Date: July 2010

Pitch Maintenance: Turf One 'FieldCare'[™]

Final Project Cost: \$857,000

Other Specifics:

- Shock pad:** Not required.
- Pitch:** Tufted – not glued - line markings; sewn – not glued seams; in-ground sleeves fitted for corner flags; permanent goals complete with nets; and portable goals for 5-A-Side.
- Fencing:** Black powder coated pedestrian fencing 1.2m high with black PVC coated chain wire mesh fence increasing in height to 6m at each end. Retractable netting to divide pitch into three 5-A-Side pitches with specially designed lockable off-pitch storage cabinets.
- Lighting:** Musco 50lux system.
- Pathways:** Asphalt footpaths around the perimeter of the field to provide access for players and spectators.
- Certification:** Pitch certified to FIFA 2 STAR standard (Exceeded the contract specification).
- All weather:** 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.

Project Contractor:

Turf One Pty Ltd. 61 High St, Wallan, Victoria, 3756. Tel (03) 5734 1900 info@turfone.com.au

Venue Manager and Owner:

Moonee Valley City Council. 9 Kellaway Avenue, Moonee Ponds, 3058. Tel (03) 9243 8888

Project Manager: Vince Gurciullo