

Project: Bowling Club Redevelopment
Date: January 2015
Client: Ponsonby Bowling Club
Location: Ponsonby, Auckland



Megaflo® Flat Pipe Drainage

Bowling clubs throughout New Zealand are having to contend with membership numbers decreasing, Council rates on the land (usually in prime real estate areas) increasing, not to mention the huge burden of the cost of maintaining greens. This has prompted clubs to look outside the square to find ways to promote their clubs and keep long established histories going.

Established in 1893, the Ponsonby Bowling Club was struggling to survive. It was decided after much discussion to lease land to a developer who would build apartments surrounding the bowling greens (Corner of Jervis and Hamilton Roads) incorporating a new clubhouse on the ground level.

The greens were redesigned - one artificial green and one natural green. Avery Team Architects drew up the plans and specification for the apartments, and NZSTI (New Zealand Sports Turf Institute) the greens, work started in April 2013.

Australian Bowls Construction were the contractors for the 26m x 32m artificial green. Following a very wet winter, the condition of the sub base necessitated 3000m³ of clay be removed and replaced with GAP65 which was compacted.

Drainage of the artificial green comprised of 6 strips of Megaflo® 170mm flat pipe installed at 8m spacing's with a 180mm fine layer of aggregate applied and the Greengage surface added. Megaflo® consists of a perforated HDPE core wrapped in bidim® nonwoven geotextile to prevent soil ingress into the drainage system.

Megaflo® is a unique panel drainage system which is adaptable to application requirements – at Ponsonby Bowling Club Megaflo® 170mm was also installed vertically as a collector drain around the edge of the green.

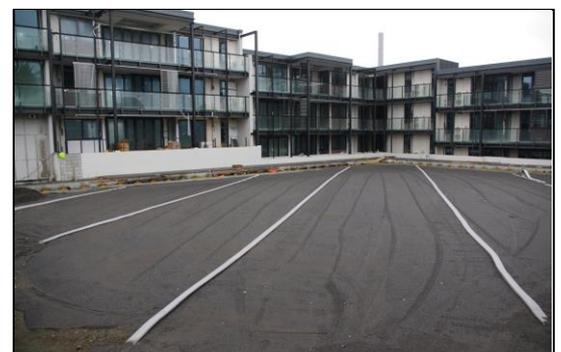
Completion of the artificial green will provide a guaranteed year round playing opportunity, regardless of weather and overcomes issues relating to grass growth, or natural turf wear and tear, while also benefitting fixtures and fund generation via year-round accessibility to greens.



Ponsonby Bowling Club



Preparation of site



Laying of Megaflo®

The 34m x 26m natural green was overseen by specialist engineers/turf agronomists (NZSTI) and installed by Townsend Turf.

Drainage of the green comprised of 7 strips of Megaflo® 170mm flat pipe placed on the diagonal across the prepared soil profile – at 5m spacing's with a covering of GAP10 aggregate. Laser levelling was used to determine a completely flat playing surface.

Compared to 110mm diameter round pipe, Megaflo® has twice the inflow capacity for an equivalent length and will drain a given quantity of water in less than 60% of the response time. Its slim 40mm wide profile permits faster and more cost effective installation in a narrow trench.



Evan Forde, Greens Supervisor has only good things to say regarding the drainage of greens using Megaflo® *“the drainage system has been well tested with Auckland’s fickle weather and has performed to all expectations.”*

Reopen date for the Ponsonby Bowling Club: Sunday 19th April 2015

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How Megaflo® Flat Pipe Drainage Works

This panel shaped geocomposite pipe is designed for rapid drainage on greens, fairways and tees as well as other playing fields. Its unique design allows it to be laid flat, eliminating the need to trench.

Advantages of Megaflo® drainage pipe:

- Superior Performance
- High Crush Strength
- Filter Geotextile Attached
- Reduced Installation Costs
- Widely Used
- Complete Range of Fittings



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