

CASE STUDY:

BEIJING NATIONAL STADIUM

BEIJING OLYMPIC PARK, BEIJING
MARCH 2017

MEGAFLO®

Megaflor is an effective subsurface drainage for the removal of excess water from the aggregate layers within road and rail formations, from behind retaining walls or in sportsfields.

Megaflor has twice the inflow capacity and drains water 60% faster than 100 mm slotted round pipe.

Megaflor is an excellent drainage system, removing water from your structure faster than any other drainage system.

The Megaflor system is manufactured as a corrugated panel supported by internal pillars along the length of the drain. This shape and structure gives Megaflor a high crush resistance whether the drainage system is used vertically or horizontally.

The Beijing National Stadium, known as Bird's Nest Stadium, is a US\$428 million, 91,000 seat Stadium that was used for the 2008 Summer Olympics and Paralympics. Since the Summer Olympics, it has hosted numerous Athletic, Football, Pop Concerts, Pageants, Sports and Cultural activities. Even without these events, the Stadium attracts between 20,000 – 30,000 sightseers per day.

In July 2016, the Stadium was due to host the 2016 International Champions Cup with Manchester City scheduled to play Manchester United. However, the game was cancelled due to heavy rain soaking the pitch and poor pitch conditions due to fungus.

This poor drainage, with constant inundation of the grass surface, led the State leaders to request some action to be undertaken to improve the drainage. Geofabrics distributor for China, Jinan Huaqing Golf Turf Co. Ltd provided some design assistance and put forward Megaflor 170mm and accessories as the solution to the problem.

The Megaflor offers increased drainage performance when compared to the conventional round pipe. The large surface area of the Megaflor flat panel drainage system results in a water removal rate of almost twice that of a 100mm round pipe. The increased drainage performance of Megaflor means that sports field surfaces are quickly returned to a playable condition in wet weather.

> Beijing National Stadium



The stadium before the project.



During installation of Megaflo.



The completed stadium.

In March 2017, Jinan Huaqing Golf Turf oversaw the installation of 2,400m of Megaflo 170mm at the stadium which took 6 hours to install. New turf was laid at this time, with all works being undertaken at night.

Three months after completion of the works, the Stadium hosted a friendly football match between Arsenal and Chelsea. The Stadium is due to host the Winter Olympics and Paralympics in 2022.

The use of the Megaflo significantly improved the problem of water accumulation on the site. It increased the drainage speed, which is conducive to the healthy growth of the turf and the quality of the site.

Find your solution today

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Smarter Infrastructure