Commonwealth Stadium Artificial Turf Drainage

Multi-Flow provides quick and efficient drainage for athletic fields.

LOCATION:
Edmonton, Alberta

PRODUCT:
Multi-Flow

PROJECT PARTNERS:
Owner
City of Edmonton/Edmonton Eskimos Football Club
Contractor
Wilco Contractors Northwest Inc.
Completion Date
May 2010

The City of Edmonton and the Edmonton Eskimos Football Club partnered to upgrade the grass field to artificial turf in time for the start of the 2010 CFL season and hosting of the 98th Annual Grey Cup game. The change to artificial turf will improve the ability of this venue to host high-calibre events because of the versatility and durability of the turf system.

Challenge
Commonwealth Stadium is an open air stadium, susceptible to rainfall. Proper drainage was an important factor.

Solution
The field subsurface was constructed out of bottom ash, a permeable sand-like material, and a 200 mm drain tile was installed throughout the field. In the end zones, Nilex provided 150 mm Multi-Flow to aid in the drainage from the field to the main collectors.

Edmonton’s Commonwealth Stadium is recognized as one of the premier playing surfaces in North America and until recently, it was the only major sporting facility in Canada with natural turf.
The Multi-Flow system provides significant cost and environmental savings by minimizing the amount of spoil material that is excavated and transported from site, and the amount of drainage aggregate that is processed, transported, and placed on site. It is able to quickly collect and transport water.

Installation

The 150 mm Multi-Flow was installed horizontally at the base of the system, 6 m o.c. A D6 dozer was used to spread the bottom ash in 300 mm lifts to bury the Multi-Flow. A large C784 double drum roller was used to compact the bottom ash.

Results

Multi-Flow was the product of choice because it removes water very effectively, it can withstand the occasional heavy load the field is asked to carry, it is an economical and environmentally friendly option any time a conventional aggregate drain, such as a french or trench drain, is being considered.

The Nilex Advantage

Nilex is committed to unearthing better results. Whether it’s for a civil, resource or environmental project, we offer the latest engineered and technically superior materials and techniques to save our customers time and money, and minimize the need to move or remove earth, and reduce the need for granular materials.

With over 35 years experience, a long-standing commitment to the environment and highly qualified staff, Nilex delivers the products and technologies that give clients an economic advantage with environmental benefit.