

Canada's leader of complete geosynthetic solutions

CASE STUDY - Region of Peel (Mississauga) – Secretariat Court

INSTALLATION DATE

July 2010

PROJECT ENGINEERS

AECOM

SITE SERVICING CONTRACTOR

Pachino Construction

CHALLENGE

Erosion protection for a new channel behind an office building was required. The channel conveys stormwater runoff from the adjacent Region of Peel property.

SOLUTION

FLEXICRETE[®], in lieu of rip rap, was used because of its ease for maintenance when vegetated or rock filled. The flexible nature of the mats also provides the ability to conform to the ground contours and minimizes site preparation.

PROJECT OVERVIEW

Approximately 140sqm (16 panels) of FLEXICRETE[®] were installed with the use of a custom-made spreader bar, provided by Terrafix, and an excavator. All panels were laid out in one day. Due to its articulating capabilities, FLEXICRETE[®] was able to match the contours of the channel.

FLEXICRETE[®] is a system of solid concrete blocks connected together to form continuous inter-connected areas. Concrete strength used is 30MPa or higher in accordance with Canadian Standards CSA-A23. Galvanized mesh reinforcement wires (8 gauge) are cast into the blocks.

The standard block size is 400mm × 400mm × 80mm in panels 3.6 metre long × 2.4 metre wide. A standard block weighs 27 kg. Panel weight is 168 kg/m². A standard 3.6 metre × 2.4 metre panel, weighs 1.45 Tonnes.



Storm & Waste Water Systems

- Weholite HDPE Pipe
- Corrugated HDPE Pipe
- Subdrain Pipe and Fittings
- Stormwater Infiltration Systems / Triton™ Stormwater Solutions
- GrassPave²
- GravelPave²

Erosion & Sediment Control

- Straw, Coconut and Excelsior Blankets
- Coir Mats and Logs
- Turf Reinforcement Mats
- Terraweb® Cellular Confinement System
- Gabion Baskets and Mats
- Silt Curtains
- Fencing Products
- FLEXICRETE®
- Siltsacks® / Envirobags
- MeterBags
- ScourStop™

Geotextiles

- Non-woven Geotextiles
- Woven Geotextiles
- High Strength Wovens
- Monofilament Wovens

Retained Soil Systems

- TerraSlope®
- TerraFort Panel Wall System
- TerraSteep® Geogrid Reinforced Earth Systems

Geogrids

- Uniaxial / Biaxial
- Base Reinforcement
- Combigrd®
- STRATAGRID®

Lining Systems

- HDPE Geomembranes
- Thermal Lock Geosynthetic Clay Liner
- Spray Applied Geomembranes

And much, much more....



Panels of FLEXICRETE® on site



FLEXICRETE® panels are 2.3m x 3.6m comprised of 400mm x 400mm x 81 mm thick concrete blocks connected by galvanized wire mesh



Excavation of channel



Erosion control blankets on the side slopes of the channel



Final installation



Outlet of culvert

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Lunch and Learn



Terrafix offers a project specific approach to solving your erosion & sediment and stormwater management solutions.

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Additional Information?

For stormwater and erosion control challenges, please call J.J. Breede, P.Eng. at 416-674-0363, ext. 241 or e-mail at jjbreede@terrafixgeo.com

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