



# SOLENO

Mastering Storm Water

THE MOST  
**POWERFUL**  
APPROACH FOR STORM WATER MANAGEMENT



## PROJECT : COMPLEXE DE LA CAPITALE

**Storm water storage: a simple solution offered by Soleno**

Nowadays, it is essential to mitigate the hydrological consequences of urbanization in all new construction projects. To do this, the designer has several options for the storage of storm water: open ponds, retention and detention systems.

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## BACKGROUND

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Last spring, the developer Le Complexe de la Capitale launched Phase V of a commercial development in the Lebourgneuf area in Quebec City. What's particular about this site lies in the fact that SNC-Lavalin, the engineering firm designing the project, under the supervision of Eduardo Caron and Claude Coulombe engineers, wanted to avoid the infiltration of water into the soil, considering the proximity of the underground parking.

## SOLUTION

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The StormChamber retention basin was therefore selected and installed by J. M. Demers, the contractor. A waterproof geomembrane was placed at the bottom and on the sides of the excavated area. The installation of nearly 190 holding chambers backfilled with clean stone will allow the storage of 590 m<sup>3</sup> of storm water for periods of heavy rain. In addition, in order to recover the runoff from the parking area above the basin, two HDPE catch basins were integrated into the chamber system.

## BENEFITS

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The implementation of the detention system was achieved in as little as five days after excavation. Using a retention chamber system, combined with a geomembrane, helped provide efficient storage of storm water.



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