

StormCap™+Detention

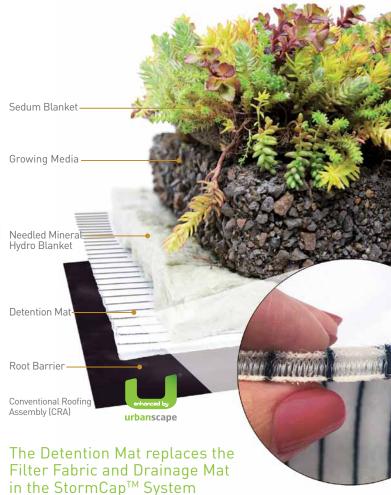
Maximum Water-Retaining and Water-Detaining
Pre-Vegetated System



StormCap™+Detention manages stormwater on the roof by providing *retention* and *detention*, making it a full-fledged stormwater tool ready to face second day and extra-large storms.

Detention provides a clear return on investment.

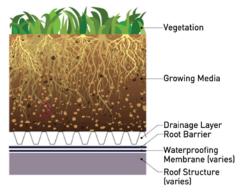
StormCap™+Detention reduces or eliminates cisterns and bioretention facilities and frees up valuable space for income-generating development. It even works on a low-sloped roof!

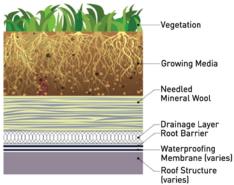


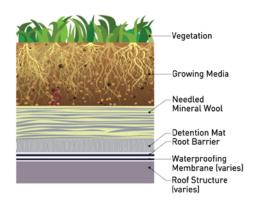
What to do with all that space?

- Park cars
- Bicycle storage
- Build a fitness centre
- Open a coffee shop
- Childcare space
- More!

How does StormCap™+Detention work?







Traditional

Retention
Enhanced Retention
Detention

All green roofs provide retention. Retention can be achieved and replicated only when the system dries to a certain level. To become dry, water must leave as vapour through the slow process of evapotranspiration.

StormCap™

Retention
Enhanced Retention
Detention

Incorporates needled mineral wool for enhanced retention. The rest of the water runs off, particularly in large storms and second-day storms.

StormCap™+Detention

Retention
Enhanced Retention
Detention

Manages heavy rain events typically controlled by tanks or ponds. Incorporates a surface roughness layer - detention - that helps fill and submerge the system in rainwater, and then slowly empties afterwards.

SAMPLE PROJECT using a custom assembly of StormCap™+Detention

1696 m²Size6.5 hoursRunoff delay (centroid)2%Slope7.6 hoursRecharge timeframeType II 24-hr 157mmDesign Storm97%Peak flow reduction16.8 L/s/haMax Outflow Rate104 m³Detention storage6Roof drains46 m³Retention storage

Project-specific ROI:

- Eliminated stormwater tank
- Dramatically reduced excavation and foundation costs

Contact Sasha Aguilera, Design Ambassador, who will help run calculations specific for your project. Sasha@nlsm.ca or 416 637 5772 ext 2.