



Photos credit: Randy Sharp

Case Study

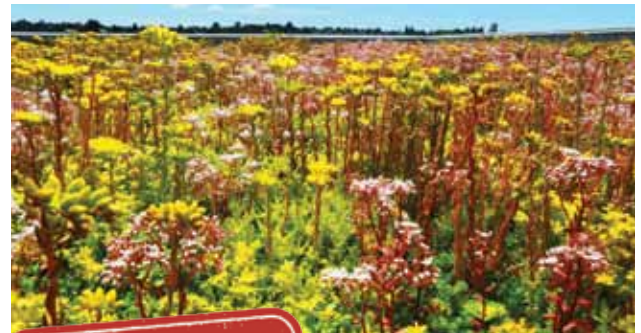
Project Name Broadway Tech Centre
 Location Vancouver, BC
 Size 2,400 sqm
 Date Installed 2014
 System Soilless Extensive with Fleece & Mineral Wool
 Construction Type Concrete
 Designer Randy Sharp/Connect Landscape Architecture



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This award-winning, LEED Platinum certified campus was built on a former brownfield. Four of the eight low-rise BTC buildings are covered with a total of 10,000 square metres of lightweight soilless vegetated roof systems. They have a combined water storage capacity of 460,000 litres, or more than 1,500 bathtubs of rainfall (based on 300 litres per bathtub). Every year, the four green roofs absorb 10 million litres of rainfall, equivalent to four Olympic sized swimming pools, feeding the plants and evaporating back to the atmosphere, thus diverting it from our stormwater infrastructure.

This thin-layered system has a superior water retention-to-weight ratio retaining 46 l/m² and weighing 69 kg/m² saturated. It is comprised of locally grown roll-out sedum mats with 8-10 species of drought tolerant sedum. System base layers include mineral wool and fleece as retention layers along with a drainage layer and root barrier.



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