

# CASE STUDIES

## SFU UniverCity Childcare, Burnaby: Custom Rainwater Harvesting System

**The first childcare centre in the world to integrate the Living Building Challenge™.**



UniverCity Childcare is the first childcare centre in the world to comply to the Living Building Challenge™, the next generation of green building requirements that goes beyond LEED Platinum. This 510m<sup>2</sup> childcare centre addresses the considerable environmental design ambitions of the Living Building Challenge with the early childhood learning objectives of Reggio Emilio. LEED allows you to choose the credits to pursue; the Living Building Challenge is unequivocal. The SFU Childcare Centre is registered in version 1.3, with 16 design prerequisites, all of which must be met in order to achieve Living Building certification. The prerequisites are grouped into six categories: Site, Materials, Energy, Water, Indoor Quality, and Beauty & Inspiration.



By collecting rainwater in a 10,000-gallon cistern for use within the building, the storm-water run-off will be significantly reduced. Any additional run-off will be infiltrated on site and, if necessary, diverted to the community's sustainable storm-water treatment system.

Want to get serious about sustainability through rainwater harvesting?  
BARR is the Canadian distributor for cost-effective and versatile GRAF systems.  
Check out our GRAF rainwater harvesting systems on our website:  
<http://e-barr.com/barrRHW>

### Project Team

Supplier: BARR Plastics  
Architect: HCMA  
Civil Engineer: AECOM  
General Contractor: Ledcor  
Landscape Architect: Space2Place  
Mechanical Engineer: Integral Group

### Specifications

Living Building Challenge  
Version 1.3, Net Zero Energy

### BARR Product

10,000 Gallon Custom FRP  
Rainwater Harvesting Tank with  
external Optimax Filter



**BARR**<sup>™</sup>

1.800.665.4499  
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