

Abbotsford Entertainment Centre

Rainwater Collection System

The first professional-grade indoor arena in Canada/World using harvested rainwater to make ice.



BARR supplied the main components and advised on the design and installation of a Rainwater Harvesting system to collect and clean rainwater to be used to create and maintain an ice surface for professional hockey. In its first full season of use, over 1 million litres of water was collected and used from a 12,960 ft² portion (approx. ¼ of the total roof area) of the sports centre's roof. Downspouts were diverted to the collection tank system to clean and capture 8000 gallons (30,400 L) for every 1" of rainfall from this surface area. A high volume 32 micron GRAF External Optimax Filter System from BARR first cleans the rainwater of any visible debris and then passes through an even finer filtration system before reaching the storage tanks. The system is connected to two boilers to supply warm water to the Zamboni ice resurfacing machine. The full tanks, installed in the warm mechanical room, also absorb the ambient heat that helps to warm the water prior to entering the boilers therefore saving energy on heating the water. Global Spectrum's Dan Rubino, (the facility operator) Director of Special Projects said the company is looking at other possible Global Spectrum - managed facilities where similar rainwater harvesting systems can be installed.

Want to get serious about sustainability through rainwater harvesting?

<http://e-barr.com/barrRWH>



Project Team

Supplier: Barr Plastics

Installer: Saxon Mechanical Limited

Operator: The Abbotsford/Mission Water and Sewer Services

BARR Product

Total capacity was 4000 usg. 15,100 L Narrow Profile Rain Water Harvesting tanks with an External Optimax Filter



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