



Photo by City of Edmonton

Even the roofs are green at this golf course

PROJECT:	Victoria Golf Course Maintenance Building, City of Edmonton
LOCATION:	12030 – River Valley, NW
BUILDING TYPE:	Maintenance and administrative building
TOTAL ROOF AREA:	Not provided

Ecoroof details

ECOROOF AREA: 330 m²
DIRECTION: North, North-west
STOREY: 1.5
YEAR INSTALLED: 2010
NEW BUILD OR RETROFIT: New build
TYPE OF ECOROOF: Intensive
ECOROOF SYSTEM: Modular trays (ELT Easy Green Intensive Green Roof System)
SUBSTRATE DEPTH: Unknown
PLANTS: Tall grasses
ACCESS: Not accessible to the public

Description

An aerial view of this ecoroof shows that it blends in perfectly with the lush vegetation of the City of Edmonton's Victoria Golf Course in the Edmonton river valley.

Not only is this ecoroof practical for maintaining a more consistent temperature within the maintenance/admin building, but it is also accessed and used by the maintenance staff. The visual aesthetic is also enjoyed by the patrons of the golf course.

Challenges

The only challenge this roof has faced is with regard to the drainage system design. Originally, scuppers, a type of ecoroof drain that consists of several drains placed on the edges of the ecoroof, were used for drainage. The scuppers were directed to drain onto the exterior block of the building, which caused staining of the blocks from the substrate/soil. This challenge was overcome by revision of the drainage system to remove scuppers and instead direct water to a downspout.

Benefits

The motivation behind this ecoroof was to achieve LEED compliance but the benefits afforded by the roof go beyond that. This ecoroof provides excellent insulation in winter and cools down the maintenance shop during summer. The roof is also visually enjoyed by the public patrons of the Victoria Golf Course.

Lessons Learned

Although ecoroofs provide stormwater management benefits such as absorption of rainfall and increased lag time in high rainfall events, there are times that the ecoroof may become saturated and the remaining water will need to drain off the ecoroof. Therefore, it is important to consider the drainage location of the ecoroof so it does not discolour siding or cause erosion of the soil below the outflow.

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Thanks to our project funder



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