

PERFORM



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Project Profile

Special Facility Protects
Precious Cargo

GATINEAU, QC



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The Project

This special science and resource centre originally opened in 1997, with a campus situated on 76 hectares (188 acres) in Gatineau, Quebec. The centre is designed to provide the standards of safety, security and preservation necessary to safeguard Canada's natural history. The 20,500-square metre (220,660 sq. ft.) building's design includes many innovative features, such as a quarantine area with walk-in freezers for control of pest organisms, a large collections area, dry and wet laboratories, a full-scale carpentry workshop, as well as a suite of laboratories to conduct state-of-the-art scientific research on animal, fossil, mineral and plant materials. Completed in 2011 to replace all roof systems, this project included the use of a new vegetative roof system, as well as glazing and airtightness upgrades.*

The Challenge

The facility is designed to meet the preservation needs of the various collections while aiming to meet environmental sustainability targets by grouping individual collections according to their degree of susceptibility to environmental factors and pests. Some specimens are isolated to provide maximum environmental protection. None of the collections rooms have exterior walls; a specially sealed corridor surrounds the collections. This isolation offers a sustainable way to meet environmental conditions for the collections while minimizing the risks of pests entering the collection area.

The Solution

"The project was a challenge as the installation included the conversion of three conventional roof system membranes reversed with a green roof," says Vincent Lemieux, President of Couvreur Rolland Boudreault. "We installed a high-quality IKO modified bitumen roofing system to help protect the museum's unique and highly sensitive collection." Another important component of the installation relates to sustainability. Almost all of the existing insulation was reused in the new system. "This was a major part of the waste management plan," notes Lemieux. Only damaged or contaminated pieces were replaced."

ROOFING SYSTEM DETAILS

ROOF DECK

Metal

IKO 2 PLY MOD BIT CONVENTIONAL ROOFING SYSTEM

IKO Torchflex™ TF-95-SF-Base • IKOTherm™ III Polyiso Foam Insulation 2.5" - 2 layers
Protectoboard™ 1/4 in (6.0 mm) • Torchflex™ TP-180-FF-Base
Torchflex™ TP-250-Cap Frostone Grey • 3 Ply Mod Bit Upside Down Roof
with Green Roof

COMMERCIAL WARRANTY ISSUED

IKO 10-Year Labour and Membrane (L&M) Limited Warranty

“This project was a challenge, and we chose to install a high-quality IKO roofing system to protect the resource centre's unique and highly sensitive collection.”



– Vincent Lemieux
President, Couvreur Rolland Boudreault

*Information about the project courtesy of the Government of Canada.



BUILDING OWNER

Government of Canada

PROJECT SECTOR

Museums

PROJECT SIZE

20,500 sq. m./220,660 sq. ft.

PROJECT START AND COMPLETION DATES

2011-2012

ROOFING CONTRACTOR

Couvreur Rolland Boudreault

CONSULTANTS

Fishburn Sheridan & Associates Ltd.

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ROOF

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