

CASE STUDY

| Roofing
| Non-Profit

PROJECT:
The Earth Rangers
Foundation

Firestone

BUILDING PRODUCTS • PRODUITS DE BÂTIMENT • CANADA

Canada's Highest Rated LEED Certified Building Counts on UltraPly™ TPO for Impeccable Performance

What is Earth Rangers?

Earth Rangers is a non-profit Kids' Conservation Organization that educates children about biodiversity, conservation, and sustainability, along with their growing importance in today's society.

The members of the organization spearhead their message by integrating eco-friendly technologies into their own building. As a result, the Earth Rangers Centre (ERC) was Certified LEED® Gold for New Construction in 2006 and Platinum under LEED for Existing Buildings: Operations and Maintenance in 2012, the ERC is currently the highest rated building in Canada*. The facility operates at less than 9 kWh per square foot, using nearly 90% less energy than other buildings of its size.



* Source: www.ercshowcase.com/about/our-story

Project Details

BUILDING NAME	SIZE	CONTRACTOR	DETAILS
Earth Rangers Centre for Sustainable Technology	1,486.45 m ² / 16,000 ft ²	Flynn Canada Ltd.	Firestone UltraPly™ TPO Fully Adhered system over three layers of ISO 95+™ GL Insulation.



FLIP TO SEE THE
BUILDING PERFORMANCE SOLUTION.

THE BUILDING PERFORMANCE SOLUTION.

The ERC was able to achieve this level of sustainability by installing cutting edge technologies with a state of the art infrastructure throughout the building. In order to safeguard their innovative assets, the Earth Rangers relied on Firestone to provide a sustainable, low maintenance, cool roofing solution.

The Earth Rangers required a roofing membrane that was chlorine-free, non-halogenated, plasticizer-free, and an eco-friendly solution that can also be easily recycled. Not only did Firestone UltraPly TPO meet these conditions, but the company's long history in the roofing industry, comprehensive warranties, and continued technical support sealed the deal.

According to Andy Schonberger - Director of Earth Rangers, "Firestone has been responsive and supportive whenever I have had a maintenance inquiry or technical question about roofing changes and mechanical additions. Firestone provided exhaustive documentation on maintenance, supporting us as an owner through the lifecycle of the product and not simply during design and construction."



Firestone UltraPly™ TPO

The Firestone UltraPly TPO cool roof covers 16,000 square feet of the second floor office space. Along with keeping the roof temperature low by reflecting sunlight, the membrane compliments the skylights that have also been installed on the roof, reducing – and sometimes eliminating – the need for artificial light sources in the building.

To ensure heating costs are kept low in the winter, three layers of ISO 95+™ GL Insulation, providing excellent heating retention.

The Firestone Building Products Solution Provided:

- Exceptional insulation capabilities with 3 layers of ISO 95+ GL insulation.
- Highly reflective membrane to work synonymously with 10 independent skylights.
- Red Shield Warranty
- Efficient, low maintenance roofing solution

“BY LOOKING AT THE AERIAL SHOTS OF THE BUILDING, YOU CAN LITERALLY SEE THE PRODUCT PERFORMING AS DESIGNED. SINCE INSTALLATION IN 2003, WE HAVE NOT HAD A SINGLE ISSUE TO DEAL WITH ON THIS ROOF, THIS IS VERY IMPORTANT TO ME MANAGING THIS FACILITY”

— ANDY SCHONBERGER

Director of Earth Rangers

FOR MORE INFORMATION CONTACT:

Mary Smith or Jean LeBeau
from MJ Building Envelope
Solutions Inc.

- Firestone Building Products Canada:
Ontario Sales Representatives



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