



CASE STUDY | TRANSPORTATION

Finch West LRT Station

Exterior walkable fire-rated skylight with impact resistance, LITEFLAM XT 60

LOCATION

Toronto, ON

YEAR

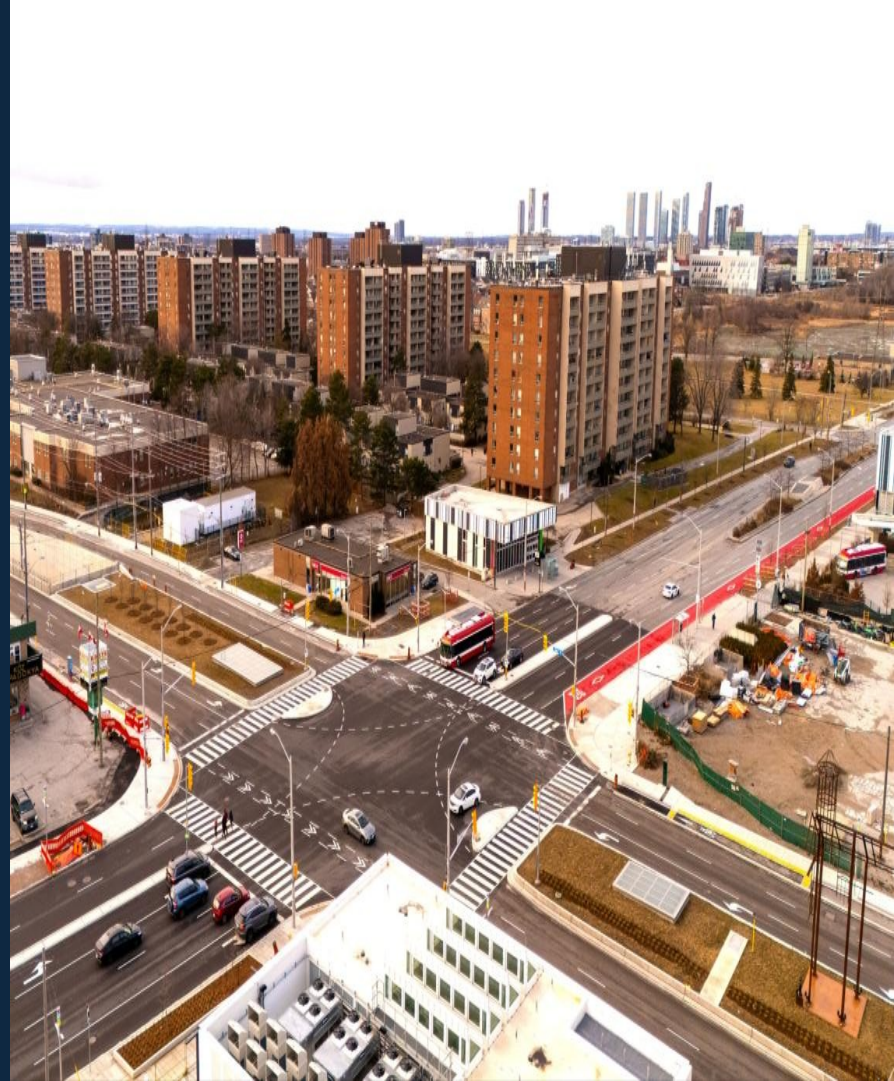
2025

SYSTEM

LITEFLAM XT 60

SECTOR

Transportation



ABOUT THE PROJECT

Transparency, Accessibility, and Safety in a High-Traffic Urban Setting

As part of Toronto's expanding transit infrastructure, this project required a specialized glazing solution that could combine transparency, accessibility, and safety within a high-traffic urban environment.

The LITEFLAM XT 60 exterior walkable skylight was engineered to provide 60-minute fire resistance, pedestrian loading capacity, and impact protection, delivering a durable and high-performance solution for the Finch West LRT Station.



Exterior Walkable Fire-Rated Skylight, LITEFLAM XT 60

THE CHALLENGE

A skylight set within an active roadway environment

- Engineer an exterior walkable skylight capable of withstanding potential vehicle impact within a busy roadway environment.
- Achieve a 60-minute fire rating combined with impact resistance in a single assembly.
- Balance fire resistance, structural capacity, pedestrian loading, and impact performance in one integrated system.

THE SOLUTION

LITEFLAM XT 60 Exterior Walkable Fire-Rated Skylight with Impact Resistance

- The LITEFLAM XT 60 system was engineered to meet the multi-criteria demands of this transit application.
- Beyond the 60-minute fire rating and pedestrian load requirements, the assembly was designed to incorporate impact resistance to address the unique risk of vehicle strike, ensuring the skylight would not experience catastrophic failure under impact forces.

PROJECT ACHIEVEMENTS

Engineered for Complex Transit Applications

60-Min

Fire resistance

Walkable

Pedestrian loading

Impact

Vehicle strike resistant

- Successfully combined fire resistance, impact resistance, pedestrian loading, and structural capacity in a single exterior assembly.
- Addressed the unique safety demands of a transit station situated within an active roadway environment.
- Delivered a multi-criteria engineered solution for one of Toronto's major transit infrastructure projects.





Ready to Work With Us?

LITEFLAM fire-rated skylights and glass floors are engineered and supplied by Greenlite Glass Systems. Talk to our team about your next project.

PHONE

+1 (877) 708-2151

EMAIL

info@liteflam.com

WEB

greenliteglass.com | liteflam.com

OFFICE

2414 Saint Johns St. #204, Port Moody
(Vancouver), BC V3H 2B1