

Eglinton Crosstown LRT Maintenance Access Road

Year of Construction: 2022

Location: Toronto, ON

Product Installed: Ecoraster

System: Stormwater Management

CASE STUDY

CHALLENGE

Integrating a maintenance access road with a grassed appearance adjacent to a newly constructed light rail transit, ensuring it blends seamlessly with the surrounding park, while also preventing erosion and allowing for stormwater runoff infiltration.

SOLUTION

To tackle these challenges, Metrolinx introduced Ecoraster E50 permeable pavement solution.

PROJECT OVERVIEW

Metrolinx aimed to integrate an access road with grassed appearance adjacent to a newly constructed light rail transit but anticipated potential issues with rutting caused by maintenance vehicles. To address this, they utilized Ecoraster E50 due to its capacity to endure heavy vehicle loads and distribute tire point loads across the subbase. Additionally, the E50's permeability allows efficient stormwater runoff infiltration, minimizing the need for site servicing structures.

The installation process was simplified by the E50's modular design, making it straightforward to implement. The cells were filled with soil and seed. Ultimately, the entire feature resulted in a grass-like appearance with robust permeable reinforcement concealed beneath.

Benefits of Ecoraster E50 include:

- Adaptable to cold climates: Ecoraster can withstand harsh environmental conditions, including snow plowing, ensuring year-round functionality.
- Resistant to UV exposure and aggressive solvents.
- Modular in design: simplifies installation and facilitates customization to suit project requirements
- Manufactured in Canada from recycled LDPE.
- Promotes infiltration.
- Minimizing water runoff and promoting groundwater recharge

