

Serverfarm Parking Lot

Year of Construction: 2023

Location: Toronto, ON

Product Installed: Ecoraster Bloxx

Category: Stormwater Management

CASE STUDY

CHALLENGE

An existing asphalt parking lot – heavily patched over the years – needed to be replaced to accommodate a new industrial building addition. The goal was to limit additional stormwater infrastructure while maintaining functionality.

SOLUTION

Ecoraster Bloxx permeable pavement system was selected to meet both stormwater and structural requirements, offering a sustainable alternative to traditional asphalt.

SPECIAL NOTE

As part of a two-storey addition to an existing industrial facility, 585 sqm of Ecoraster Bloxx was integrated into the parking lot design. The existing lot posed a drainage concern, as heavy rainfall would likely overwhelm nearby municipal sewers if completely repaved with asphalt. Ecoraster Bloxx was chosen for its ability to support heavy vehicle loads (800 tonnes / sqm) while allowing stormwater to infiltrate through its perforated cell walls.

The base consisted of clear angular stone, improving water permeability and reducing the dependency on stormwater pipes. Installation was efficient: Bloxx layers (1m x 1.33m x 0.05m deep) were laid, followed by custom concrete pavers inserted into the grid. The system, made from recycled LDPE, includes a base that prevents paver shifting and eliminates trip hazards. Its flush profile also supports snow removal, making it viable year-round.

A smooth transition was achieved between the permeable parking area and the adjacent asphalt laneway. The system effectively minimized runoff risk, preventing excess flow from burdening city sewers – a key improvement over traditional asphalt pavement.

