

SUBMISSIONS | ELEMENTS

Project Title

TTC Mount Dennis Garage
Sound Wall

Address

121 Industry Street

Project Team

TTC Engineering and Construction Branch

Project Manager – Rick Thompson, TTC

Senior Project Engineer – Paris Savides, TTC

Architect – Ian Trites, TTC

Design Assistants – Sebastian Bartnicki, Cindy Tse

Structural Engineer – Thomas Vendely, TTC

Acoustical Consultant - Aercoustics Engineering Ltd

General Contractor – Vanbots Construction

Sub-Contractor – Durisol

Photographer - Derek Stryland TTC

Owner/Client

Toronto Transit Commission



2009

TORONTO Urban Design Awards

SUBMISSIONS | ELEMENTS

Project Title

TTC Mount Dennis Garage
Sound Wall

Address

121 Industry Street



The intent is to provide a playful demarcation between an industrial area and a residential neighbourhood allowing the two uses to co exist. This maintains employment in the neighbourhood while integrating sustainable transportation into the communities served by the TTC buses.

Constructed on a brown field site, the sound barrier wall addresses the Toronto Noise Bylaw and the requirements of the MOE and is designed to mitigate noises emanating from the garage. The wall complies with the Toronto Green Standard and is totally environmentally safe, does not contain toxic elements, and is 100% recyclable. It is manufactured using recycled materials such as steel, by-products of the lumber industry and recycled wood from building and post-construction waste.

Due to its environmental properties and excellent sound attenuation, wood fibre cement walls are often used along major highways which pass thru residential neighbourhoods. By using a bit of imagination this otherwise dull and monotonous material can be transformed into something more dynamic. Variations are achieved by joining, mirroring and rotating the pre cast panel modules in different configurations, resulting in engaging and captivating images.

The wall is a cost effective and visually appealing sound barrier which will eventually allow the landscape elements to encroach naturally as ivy climbs the wall and further enhances the visual and acoustical properties.

2009