

Project Profile



January 29, 2016

Ottawa surrounds maintenance facility with AIL Tuf-Barrier Sound Walls

The Belfast Maintenance and Storage Facility (MSF) is a key feature of the Confederation Line, Ottawa's new \$2.1 billion Light Rail Transit project. The MSF is where the Line's 32 Light Rail Vehicles will be assembled and subsequently stored and maintained. To mitigate unwanted noise for their neighbors, the project partners turned to a Tuf-Barrer (Reflective) solution from AIL Sound Walls.

Rail noise reduction wall installed in poor foundation soils

The site had an approximate 2 m depth of fill on the surface which meant either removing the fill and replacing it with engineered fill or using longer posts to reach to the competent soils below the fill. The wall design also had a wide sweeping curve that needed to be accommodated as efficiently as possible.



Project at a glance:

Name: Confederation Line, MSF Belfast

Location: 805 Belfast Road, Ottawa, ON

Owner: City of Ottawa

Engineer: OLRT Constructors

Contractor: Thomas Cavanagh Construction Limited

Product: AlL Sound Walls, Tuf-Barrier (Reflective)

Application: LRT Maintenance Yard Sound Barrier

Dimensions: 6-6.5 m (19-21 ft) tall, 179 m (587 ft) long



Project Profile

Despite the depth of the fill soils, it was determined that the wall was more economical and easier to construct by leaving the fill soils as they were and increasing the depth of the foundation piers and posts.

The panel length selected for this project was 3.6 m (11.8 ft). We were able to accommodate the gentle curve of the wall design without any additional costs — as the change in angle between each post was within our tolerances without modification to the panel lengths or post configurations. The finished wall was 179 m (587 ft) long with varying heights of 6 m (19 ft) and 6.5 m (21 ft).

Material was delivered on schedule and the project came together on time and on budget.

See all Project Profiles on ailsoundwalls.com





1-866-231-7867 info@ailsoundwalls.com ailsoundwalls.com