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GeoSonic Concrete-Free Foundations accelerate nine inverter surrounds for Alberta solar farm

The AIL Sound Walls team was pleased to once again be working with Borea Construction on another alternative energy project, this time for Jenner Solar, just west of Brooks, Alberta. We had worked with Borea on several Ontario projects in the past.



Project at a glance:

Project: Jenner Solar

Location: Brooks, Alberta

Owner: Canadian Solar

Contractor: Borea Construction

Product: Tuf-Barrier (Reflective) with GeoSonic Concrete-Free Foundations

Sector: Energy & Mining

Application: Solar Inverter Enclosures

Dimensions: Nine separate barriers, 3 m high, varying lengths

Installation Time: Three weeks

This rural site was a good example of how low-frequency ambient noise can still affect less-populated areas. To counter this impact, we created nine different equipment surrounds for the site's inverters, using our Tuf-Barrier (Reflective) noise barrier wall system. All structures were 3 m in height in either two- or three-sided configurations, depending on the locations.

Concrete-Free Foundation Solution **GEOSONIC**

Our GeoSonic Concrete-Free Foundation Solution is one of the latest innovations from the AIL Sound Walls R&D team. It features a

steel blade added to the steel post/section to resist lateral pressure on the wall by forces such as wind load.

Sound wall posts installed by vibratory equipment

The sound barrier walls' post or post section can then be quickly installed by vibratory equipment without the need for excavation or concrete — greatly reducing the installation time and cost. Plus, the rest of the wall assembly can proceed immediately without waiting for concrete to cure.



AIL Sound Walls test site for GeoSonic Concrete-Free Foundation Solution

The GeoSonic blade component can be base-plated for attaching base-plated posts as in these test site photos, or the blade can be integrated into the full-length steel posts for a direct-bury installation.



Detailed coordination required on multiple sound barrier walls project

Our Project Manager worked very closely with Borea through weekly meetings. We also met them on-site during and after the install to make sure everything went smoothly. We received positive feedback at our post-project site visit.

AIL Sound Walls are an environmentally friendly choice for any project

- Made from recycled and recyclable PVC
- Highest percentage of recycled material
- A readily renewable and recyclable product
- Minimized water consumption in manufacturing
- Optimized shipping for reduced CO2 emissions
- Long product lifespan
- Excellent fire-resistant properties
- Smaller footprint, better land use
- Earns LEED Points for Green Building

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