StrataWall™ EC

Presenting a safe and economical retaining wall solution that won't rust.

Low steel. Low exposure.
No corrosion. No failure.

STRATA

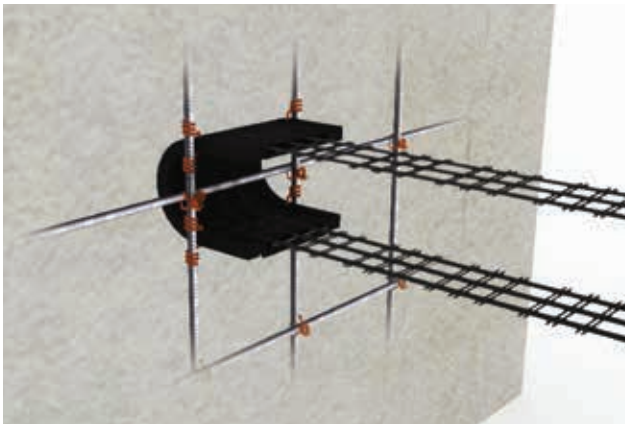
Patent Pending

It uses significantly less steel than other similar systems, resulting in big cost savings as well as greater durability (as there is no failure due to the corrosion normally caused by exposure to the elements.)

The granular backfill in the system is enmeshed with geogrid to create an internally stabilized mass of reinforced soil which withstands both static as well as dynamic loads. The key components that make up the system are:

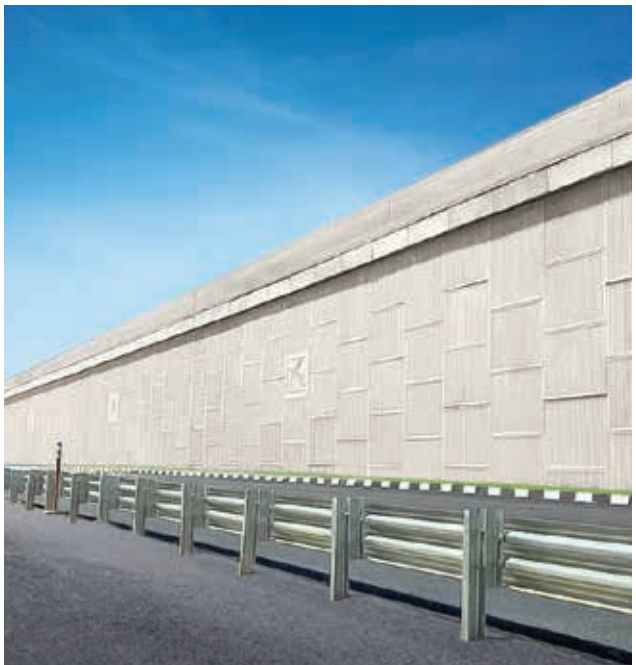
- Precast concrete fascia panels
- StrataStrip™ geogrids (up to 100 mm width)
- StrataConnect™ connectors (which are more robust than any alternative in the market).

The geogrid is positively connected to the concrete panels by passing it through the embedded connectors which create a cavity in each panel. Let's take a closer look at these constituents:



1 Fascia panels

These form the outermost face of the reinforced soil structure. They protect the structure's backfill material from erosion. Since the panels are, in effect, the visible exterior of the system, they also serve an aesthetic purpose; therefore clients can also opt to have brand logos embossed on their surface.



2 StrataStrip™

This is a specially designed reinforcement strip made from high-tenacity polyester yarns which are coated with a proprietary saturation material. Their primary objective is to hold the backfill material in position. The tension that builds in the reinforcement by virtue of the soil-textile interaction holds the backfill material along with the surcharge loads that the system is designed for. Besides this, the reinforcement strip also holds the fascia panels in position.

3 StrataConnect™

These connectors are central to the StrataWall™ EC panel system. They are specially profiled devices fabricated from a polymeric material, and are essentially tubular components which create C-shaped cavities within the concrete panels. StrataConnect™ is designed to allow easy access for the StrataStrip™ reinforcement.

Benefits of StrataWall™ EC

Safety

This is an extremely safe connection system, developed and perfected after more than 2 years of research, tests and trials. It provides better soil interaction, thanks to the inclusion of geogrid.

Zero corrosion

The system is reliable and not prone to any corrosion or damage, since the primary panel reinforcement is never exposed, thus meeting all concrete cover no rms.

Major cost savings

The system transfers all the forces arising in the reinforcement strip in the most optimised manner to the panel fascia and concrete cover around it. This results in substantial savings in panel reinforcement, and sidesteps the need for extra steel reinforcement.

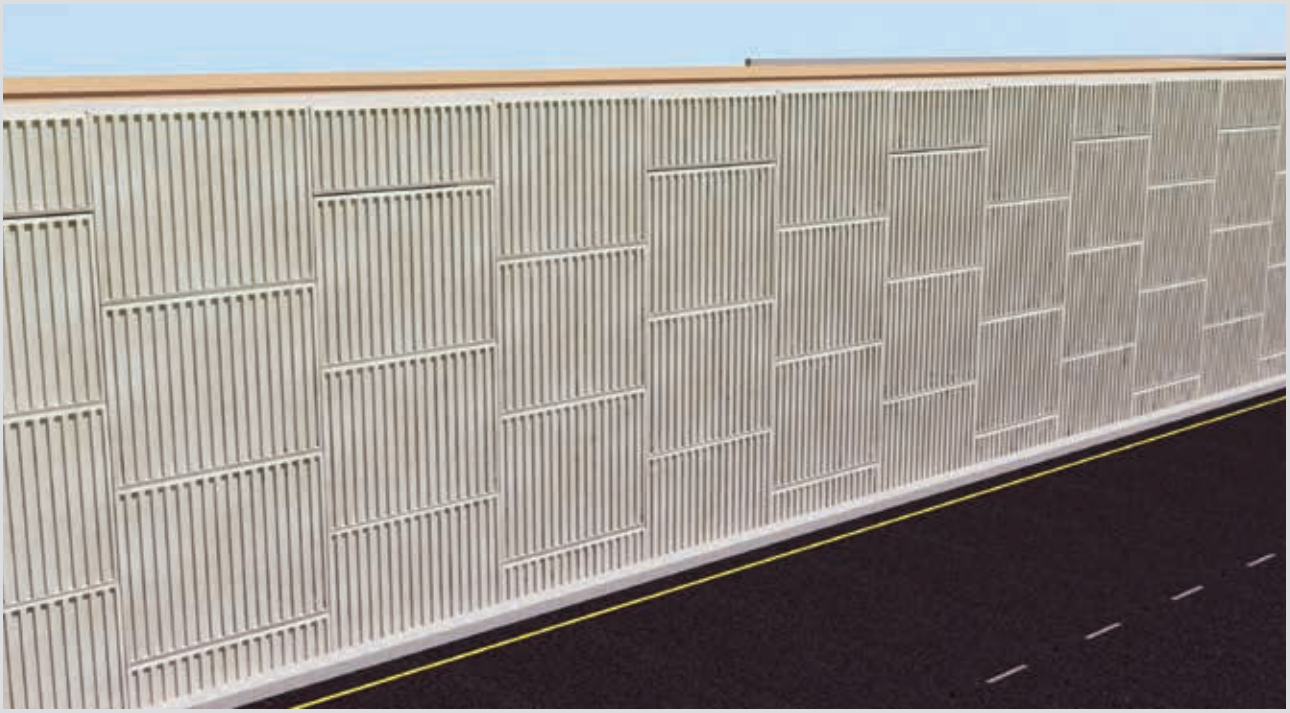
Great quality control

The system components - StrataStrip™ and StrataConnect™ - are manufactured under strict quality audit processes and are tested quite thoroughly, thereby offering a high degree of reliability, and also inspiring customer confidence.

Why StrataWall™ EC is superior to competitive systems

- Its unique connection design utilises the shear strength of the concrete, so no additional steel is required for support. And no steel is required for rear anchorage either. 2.5 kg/m^2 is the amount of steel thus saved.
- All design codes are strictly adhered to.
- Our geogrids are of high quality, and undergo exhaustive testing at internationally reputed laboratories.
- It can be constructed in even challenging conditions.

  Installation of the system is quick and easy.
- No outward movement has been noticed in reinforced soil walls constructed with StrataWall™ EC. What this means is that the system helps reinforced soil walls maintain their batter in the original form.
- It is tested and approved by the Indian Institute of Technology.



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