



# StrataWall EC.

Wider, stronger, better.

StrataWall EC is a state-of-the-art panel wall system by Strata, offering structural superiority, higher coverage and greater savings.

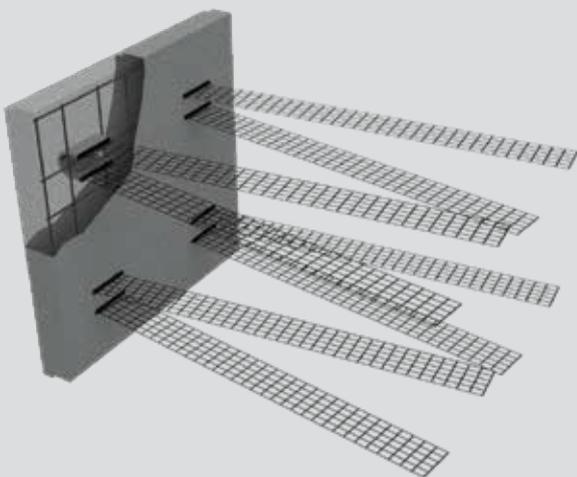
Patent pending.

## Expertise you can build on

From in house design, world class manufacturing with products installed all over the world, to large scale construction (with over 500 bridges built directly), Strata provides the best all round expertise. We leverage on our experiences to constantly improve every aspect of our solutions. StrataWall EC is an outcome of such an innovation which is engineered to provide the best performance at feasible costs. The system has been further tested at premier institutes such as IITs and approved by consultants while maintaining full conformance to global highway standards (MoRTH, FHWA and BS).

## System details

This system consists of StrataStrip (up to 200 mm width), StrataConnect connectors (more robust than any alternative in the market), and precast concrete panels. StrataStrip is positively connected to the panel by passing it through StrataConnect embedded connectors which create a cavity in the concrete panel.



*Technical drawing of StrataWall EC*

This system utilizing StrataStrip is one of the **widest embedded systems** as compared to other strip/strap systems. Typical strap systems utilize max. 100 mm wide straps resulting in heavy point loads, higher sensitivity to soil parameters and compaction quality and higher susceptibility to failures. In many systems the forces from the strap reinforcement are directly transferred to the panel steel reinforcement which requires heavier steel consumption and potential exposure of the primary steel reinforcement to the environment, leading to possibility of corrosion.

## Advantages of this system

### No corrosion

The geogrid reinforcement is usually connected to panels using steel loops and connector bars. Exposed connector bars are susceptible to corrosion resulting in long-term failures. In systems where the strips/straps are looped around plastic covered panel reinforcement bars, there is a substantial risk of corrosion in the primary panel reinforcement, which is laid without any concrete cover (around the connection). The StrataWall EC system with StrataConnect is extremely **safe and reliable** and not prone to any corrosion, damage, or exposure of primary panel reinforcement, meeting all concrete cover norms.



StrataStrip

### Substantial savings

The EC system transfers all the forces arising in StrataStrip in the most optimised manner to the panel reinforcement and concrete cover around it. This results in **substantial savings** in panel reinforcement and **avoids the need for extra steel reinforcement.**

### Impeccable quality control

The system components – StrataStrip and StrataConnect, are manufactured under strict quality processes and have been tested thoroughly, providing a high degree of reliability and confidence.





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