

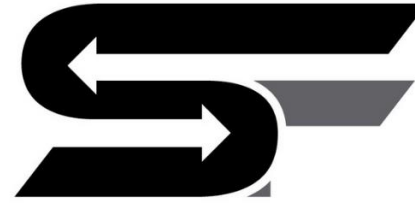
## Unlocking Possibilities with the Steadfast Shelf Wall System

The Steadfast Shelf Wall system provides exceptional versatility and structural integrity across many construction applications, allowing project managers and landowners to reclaim and utilize challenging terrain. Our innovative design is ideal for highway and transportation projects, facilitating seamless road widening, new on-ramps, and off-ramps that integrate smoothly with existing infrastructure. For commercial developers, the system excels at creating expansive, level building pads on sloped sites, dramatically increasing the usable project footprint and maximizing the value of the land. Furthermore, in residential applications, the wall can transform steep, unworkable properties into valuable, level outdoor living spaces, perfect for patios, gardens, or recreational areas.

Essentially, the Steadfast Shelf Wall is the robust, adaptable solution for any project requiring the creation of flat, usable surfaces where conventional retaining methods prove complex and costly.

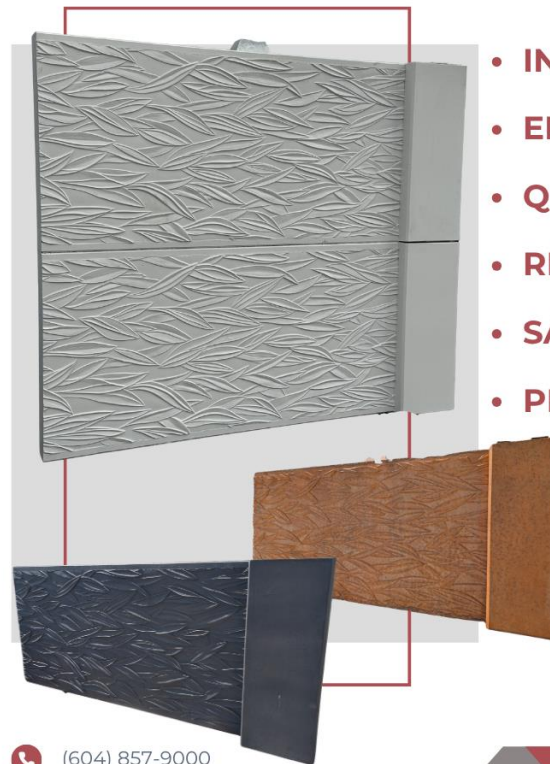


AI generated images for visualization



## STEADFAST RETAINING WALLS

The patented retaining wall solution



- INNOVATION
- EFFICIENCY
- QUALITY
- RELIABILITY
- SAFETY
- PRODUCTIVITY

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## CONVENTIONAL GEOGRID WALL

Requires geogrid reinforcement to resist the active soil wedge, driving up material and labour costs.

Requires large excavations behind the wall for geogrid embedment and granular backfill in lifts.

Built with a 3-5 % batter (setback), resulting in a loss of usable land.

Geogrid installation is labour-intensive, requires precise lift placement, and involves worker exposure in a pinch zone.

Unit price increases significantly with wall height (more geogrid, more backfill, more excavation).

Wall tends to rotate away from the backfill under load.

## STEADFAST SHELF WALL

No geogrid required — relief shelves generate passive resistance that offsets active pressure.

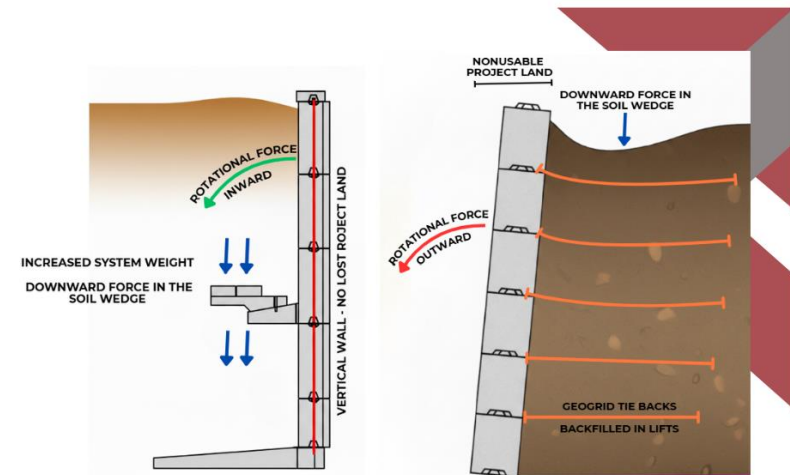
Minimal excavation — self-supporting structure allows backfilling to begin immediately after the first block is placed.

Zero batter (0 %) design gaining usable project area.

No shoring or incremental lifts required — safer, faster installation with reduced on-site complexity.

Unit pricing remains constant as height increases — shelf wall is structurally self-supporting.

Shelf wall rotates into the backfill, increasing stability under load.



Engineering testing has been completed to validate the system's performance, and an international patent has been granted to the inventor, recognizing the innovation behind this design. Supported by our robust, proprietary design software, ensuring performance across all wall heights, lengths, and applications.

The large base plate acts as a cantilever once the wall and shelf blocks are stacked and coil rods are post tensioned to 4000psi the resultant assembled wall has the design behavior of a rigid wall. The shelves ( pressure relieving platforms ) reduce internal active soil pressure by up to 40% and direct the shelf wall into the backfill.

Standard blocks measure 1.0m (42") in height and are also available in 2/3 and 1/3 sizes. They can be stacked in multiple configurations to construct vertical walls up to 8.5m (27') high. Each block includes integrated and balanced lifting points and an interlocking keyway system for quick, precise installation.

Perfect for developers, municipalities, contractors, and engineers looking to maximize land use, reduce costs, and improve construction timelines.

### Why Switch to the Steadfast Shelf System

- 40 % reduction in active soil pressure
- No geogrid = less excavation, less shoring, faster schedule
- 0 % batter = more usable land
- Stable unit pricing = predictable costs, even for taller walls
- Simplified construction = safer sites and faster turnarounds

