

## TechWall®

TechWall® is a state-of-the-art articulated precast concrete counterfort retaining wall system developed by Reinforced Earth

TechWall® is an engineered site-specific precast product, offered as a bespoke solution.

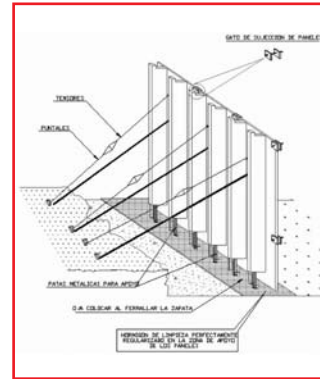
TechWall® is generally suitable for the following applications:

- Any earth retaining structure for highway, railway, industrial, marine and landscaping applications.
- Wing walls and Head walls of bridges, underpasses and culverts.
- Water front retaining wall for river training works.

## Product Objectives

- To develop an engineered product which is economical (low lifecycle cost and long-term performance), durable and high quality.
- To develop a supplementary solution, where Reinforced Earth backfill is not available and Reinforced Earth wall is not feasible.
- To use the Precast Technology for reducing the construction period as compared to the time involved in constructing conventional RCC retaining walls.
- To utilize its speedy construction procedure in minimizing overall construction duration.
- To deliver product utilizing sustainable technology that entails reduced carbon emission.

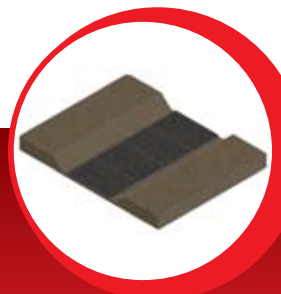
## TechWall® Advantages



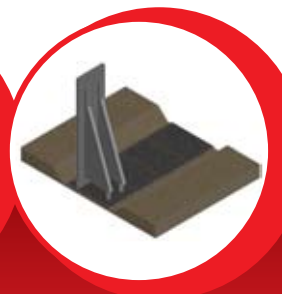
- **Cost Effectiveness** – Overall cost is at par or lower compared to conventional methods and maintenance requirements are minimal.
- **Faster Construction Time** – The standardized method reduce construction time by 50-60%.
- **Technical Quality** – This FEM analysis design follows a standardized precast process ensuring better quality and superior durability.
- **Construction Advantages** – This system ensures cleaner sites and less disruption to the vicinity.
- **Aesthetic** – The standardized precast process ensures a better finish. A variety of facing finishes can be incorporated.
- **Safety** – Being precast, it is easier to organize safety at the sites through higher safety standardization and procedures.
- **Global experience** – TAI Group of companies and subsidiaries have global experience in TechSpan® structures to support local expertise.
- **Sustainability** – Using thin sections results in lesser consumption of concrete, reducing carbon emission, making TechWall® environmentally sustainable.



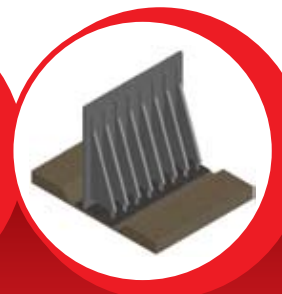
Installation



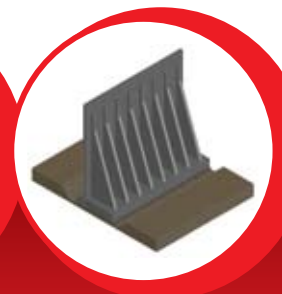
1 Bed preparation



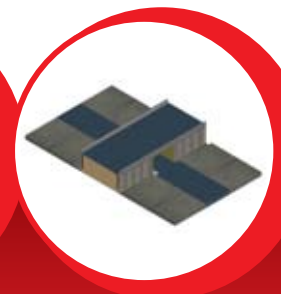
2 Installation of unit



3 Step - 2 is repeated and wall is aligned



4 Base raft is cast in-situ



5 TechWall completion