

## About us


  
1968  
established since

  
300 M€  
2020 revenue

  
80  
countries

  
70 million m<sup>2</sup>  
of Reinforced Earth® walls

  
+100.000  
structures around the world

  
102.8 m  
highest structure

As global specialists we operate as **designer** and **supplier** of civil engineering solutions that **retain, cross, protect and strengthen**. As the **inventor of the Reinforced Earth® solution**, our strength is the result of an **unrivalled combination of expertise with over 60 years of experience** in the fields of **soil-structure interaction** and **engineered backfills**.

Terre Armée delivers **its leading technologies** to serve clients' projects, from the simplest to the most extraordinary. Guided by our focus on **innovation** and our **culture of excellence in client care**, we offer **suitable and durable solutions**. We build on our **global expertise**, which is applied by our **local companies** to develop new applications to address localized challenges that ensure sustainability of our offer.



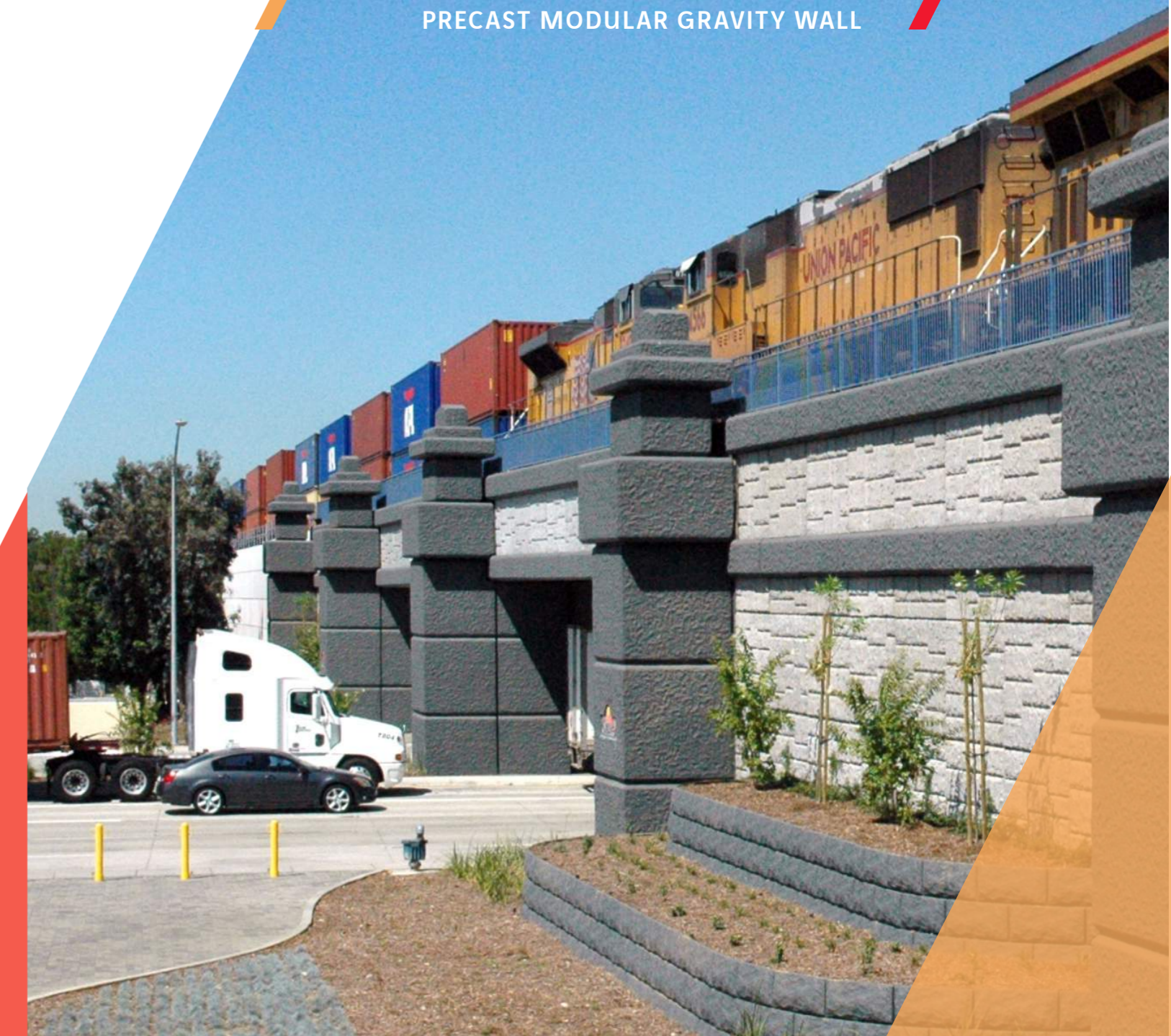
To contact a regional manager and learn more about RECo products and services please visit [reinforcedearth.ca/contact](https://reinforcedearth.ca/contact)

Engineering expertise,  
innovation and excellence  
in client care to deliver  
sustainable solutions.



# T-Wall

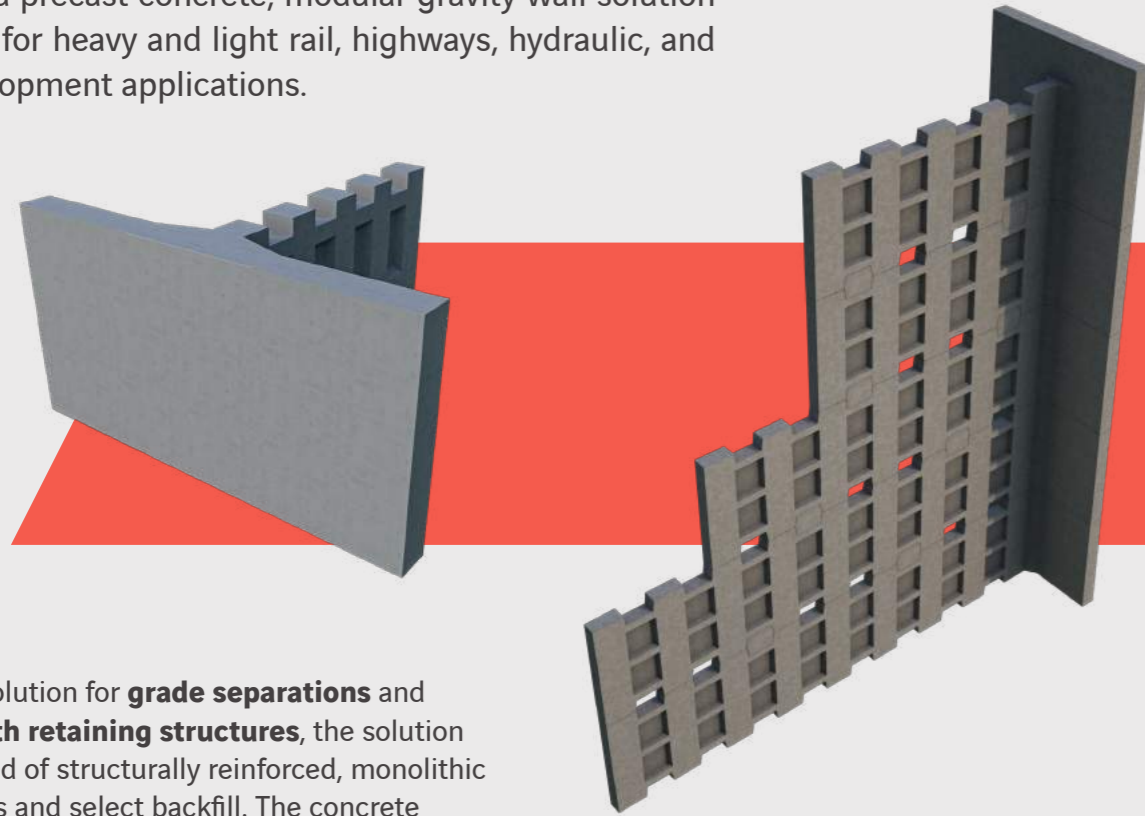
PRECAST MODULAR GRAVITY WALL



# T-Wall

## Precast modular gravity wall

T-Wall is a precast concrete, modular gravity wall solution designed for heavy and light rail, highways, hydraulic, and site development applications.



A proven solution for **grade separations** and typical **earth retaining structures**, the solution is composed of structurally reinforced, monolithic T-Wall units and select backfill. The concrete facing units have monolithic perpendicular stems, **forming the shape of a "T"**.

**The stems internally stabilize the wall**, providing **pullout resistance** against the lateral earth pressure exerted on the back of the facing.

The T-Wall design methodology allows for a **stem length that varies over the height of the wall**. For routine applications, as the courses of units are stacked, the stems decrease in length and therefore **require less select backfill than alternatives**.

For special and permissible applications, the shortest possible T-Wall units are placed at the bottom of the retaining wall structure with successively longer units stacked above. This is referred to as **"Inverted T-Wall"**.

T-Wall meets **AASHTO service life design requirements** (up to 100 years for bridges and 75 years for retaining walls) and can be designed for a **service life of up to 150 years**.

## Benefits

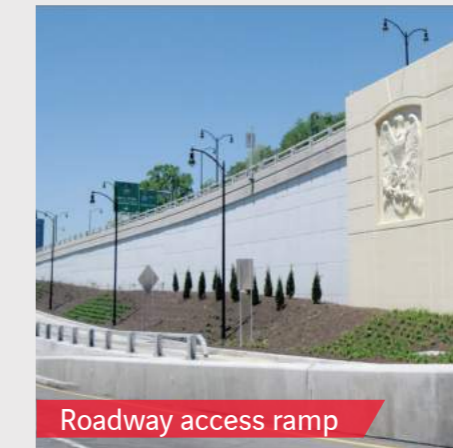
- Essentially **maintenance-free**
- **No mechanical connections** or **external bracing** required
- In addition to using imported granular backfills, a wider range of backfills are possible such as on-site granular soils, recycled crushed concrete, bottom ash, slag, sand, flowable fill, and cellular concrete
- Variable length stems reduce **backfill quantities**
- Can be built **vertical** or **inclined**
- Allows choices for **architectural treatments, copings, barriers, utility conduits** and **catenary systems**

Robust T-Wall units efficiently provide the **stability** needed for building concrete **gravity retaining walls** that require performance **under extreme loading conditions**, for instance railways and bridges.



## T-Wall applications

Since 1986, more than 900,000 m<sup>2</sup> of T-Wall has been constructed, and together with wall heights exceeding 15 m give confidence to stakeholders in the performance of T-Wall structures. Terre Armée engineers work closely with developers and builders from project inception to completion. Discover some of our T-Wall applications or contact Terre Armée for a list of project references.



Roadway access ramp



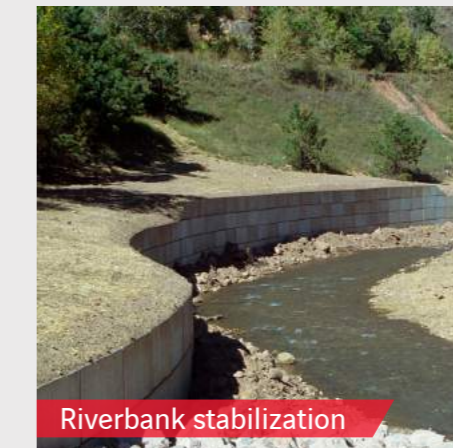
Heavy rail grade separation



Waterfront promenade structure



Bridge abutment



Riverbank stabilization



Canal channel



**ENVIRONMENTAL PRODUCT DECLARATION**

In accordance with EN 15804+A2 & ISO 14025 / ISO 21930