## **About Us**



1968

established since

261 M€

2022 revenue

countries



70 million m<sup>2</sup>

of Reinforced Earth® walls



+100.000

structures around the world



102,8 m

tallest structure

As global specialist 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 durable solutions. We build on our **global expertise**, which is applied by our **local companies** to develop new applications to address challenges and ensure sustainability of our solutions.

Watch our Retain, Cross, Protect, Strengthen video.









Terre Armée YouTube

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





Terre Armée, the paper used in this catalogue is certified in accordance with the stringent rules of the PEFC (Program for

©2023 Soletanche Freyssinet - The text, photos and other information contained in this catalogue are the property of the







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.



- 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



Since 1986, more than 900,000 m² of T-Wall® have 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.















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.

