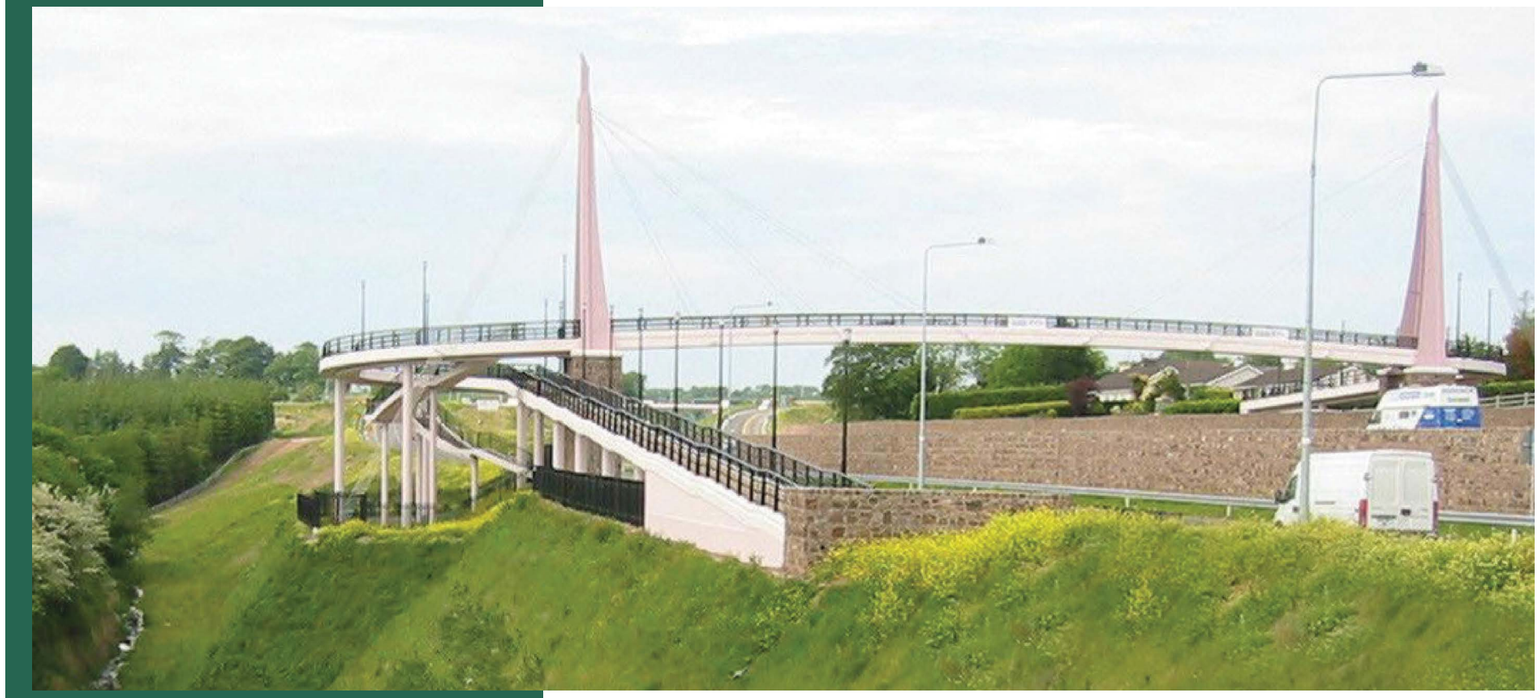
WALL TAG

Engineered Environmental Solutions
Smarter infrastructure



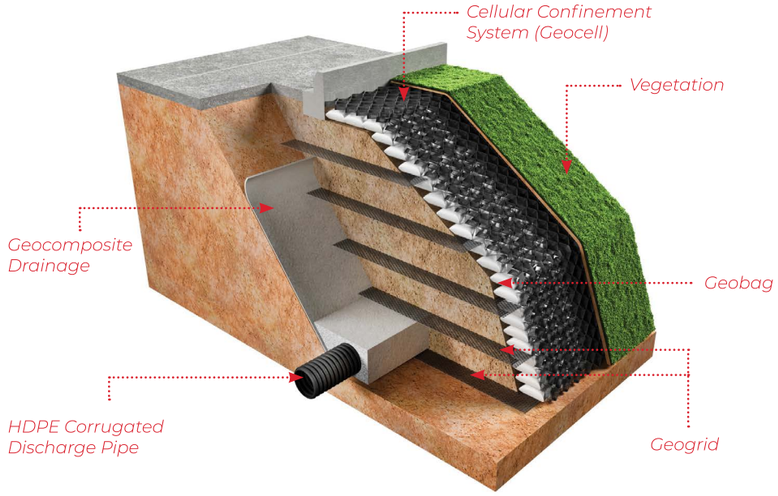
SLOPE STABILIZATION

Completed slope stabilization project

The system consists of Tensar geogrid, which reinforce the soil mass providing long-term structural stability, and a high quality composite erosion protection material at the face to establish vegetation and stabilise the root system.

By specifying Geotag Slope Stabilzation system, the engineer and client are selecting a system, which is both economical and attractive. The stability of the structure is provided by the horizontal layers of geogrid within the reinforced soil mass. It is essential that a vegetative cover becomes well established and provides long-term stability to the slope face.

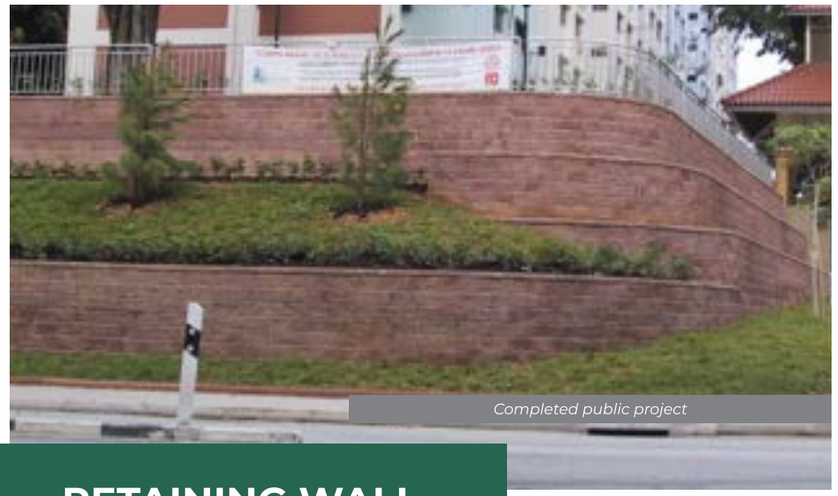
Typically structures such as these are considered to have a 60 year design life. However, designers may rest assured that there are Tensar geogrid available, providing the core stability, which have been independently assessed and certified for use in structures with a design life up to 120 years in the most demanding situations.



Construction of high slope

BENEFITS OF GEOTAG SLOPE STABILIZATION SYSTEM:

- Natural, vegetated reinforced Green Slope/Wall
- Cost effective earth retaining structure at a fraction of the cost of a reinforced concrete solution
- Rapid and economical construction procedure
- Often no specialist construction skills necessary
- Simple to build using established earth embankment construction techniques
- Allow possible use of site material for backfilling, including cohesive or contaminated materials
- Can be designed using BBA certified geogrid
- Tolerant to differential settlement



Completed public project

RETAINING WALL SYSTEMS

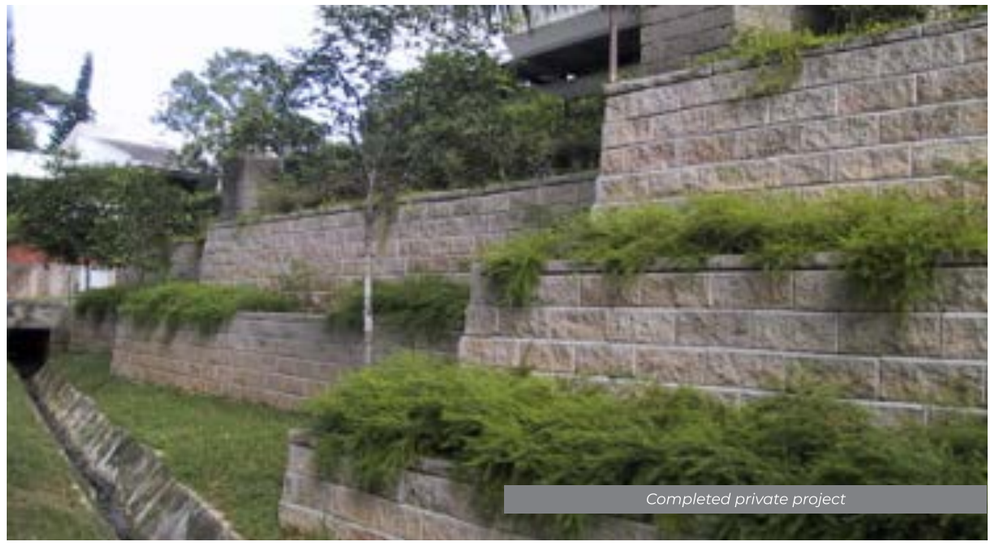
ABRWS built-in features make retaining walls easy to engineer and simple to build.

These simple engineering features make AB retaining wall systems the most efficient and reliable product in the market. With over 16 million square feet of Allan Block installed world-wide, we can provide the experience and support to make your next wall a success.

APPLICATIONS

- Residential
- Commercial
- Industrial
- Major Structural Walls
- Roadways
- Parks
- Water Sites
- Others

Completed public project



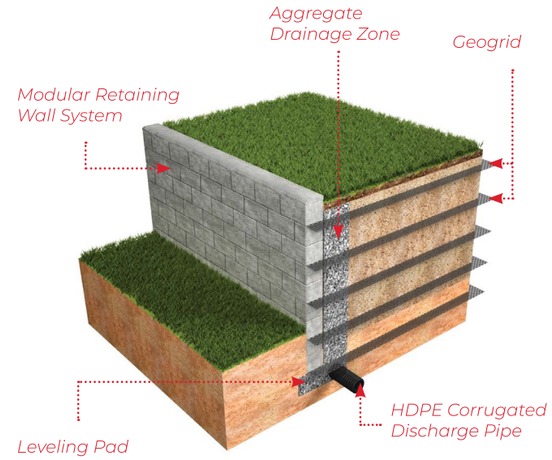
Completed private project

Completed private project

THE SYSTEM

ABRW is a mortarless, stackable, concrete block retaining wall system. The patented interlocking lip automatically locks each row of blocks in place as they are stacked. With mortarless construction technique.

ABRW system requires no grouting, no mortar and no concrete footing. The inherent benefits include site adaptability, installation by general labours and lower cost.



GEOSYNTHETICS REINFORCEMENT

When wall heights exceed those listed in the gravity wall chart, geogrid can be added to provide a stable wall conditions. Layers of geogrid inserted between the blocks and extending behind the wall interlock with the surrounding soil to create a solid soil mass. This mass uses its own weight and internal shear strength to resist both the sliding and the overturning pressures from the soil being retained.

The granular material in the ABRW cores provide a positive connection between the layers of geogrid and the AB wall, locking the two systems together. The reinforced soil mass becomes the structure and the AB wall becomes the facing. The specific location and embedment length of the grid layers depends upon the site conditions. Wall heights and Long-Term Allowable Design Strength of the grid being used.

GABIONS & MATTRESSES

Gabion wall in school project

GEOTAG Gabion/Mattress is made of rectangular containers fabricated of thick Galvanized or Galfan Coated wire. The gabion is filled with stones and stacked up to form wall or slope configuration. Mattresses can be formed over embankments and level base of channel linings.

Geotag Gabion is a well proven system for constructing Retaining Walls, Free Standing Walls, Ground Stabilization, Erosion Control defences and architectural features in stones.

WELDED MESH GABION

Manufactured from high strength electro-welded steel mesh, Geotag welded mesh Gabions and Mattresses possess sufficient strength to maintain rigidity while allowing the flexibility needed to accommodate some movement of the ground due to settlement. The Gabion wire is available with an additional layer of PVC sheath for long, maintenance-free application

British Board of Agreement Certification (BBA) is available upon request for certain product range. This has to be ascertain prior to ordering and production.

Gabion & Mattress is formed by connecting individual panels of mesh with helicals along the vertical edge wire. Lids and bases are supplied with helicals to form the top and bottom panels to form a closed container.

ADVANTAGES & BENEFITS

- Fast & Easy to construct
- Durable and Robust
- Permeable system
- Architecturally appealing
- Cost Effective

Gabion wall and mattresses in park project

BENEFITS OF GALFAN COATED WIRE

Galfan provides unique benefits for Gabions by tripling the corrosion protection over standard galvanization. The composition of 95% Zinc, 5% aluminium and 0.05% mischmetal improves the coating adhesion and enables an armour coating structure in micro-scale. Because of its sacrificial nature of Galfan coating, it provides corrosion protection for areas of exposed steel surfaces such as cutting edges or areas where its PVC coating has been compromised.

APPLICATIONS

- Channel Linings
- Drop Structures and Weirs
- Landscaping and Architectural Features
- Rockfall Mitigation
- Revetment
- Sea Walls and Jetties
- Soil Stabilization
- Stormwater Filter
- Retaining Wall Structures
- River and Canal Training Work
- Erosion and Scour Protection; Roadway Protection; Bridge Protection
- Hydraulic Structures, Dams and Culverts
- Coastal Embankment Works
- Rockfall and Soil Erosion Protection
- Architectural Cladding For Walls and Buildings
- Freestanding Walls, Noise and Environmental Barriers.

Gabion in private condominium project

Tier Gabion in public park project

Gabion wall in landscape work

WALL TAG PTE LTD

52 Genting Lane #01-01, Ruby Land Complex Block 1
Singapore 349560

Tel : (65) 6398 0308
Fax : (65) 6398 0309
Email : enquiries@walltag.com.sg

www.walltag.com