

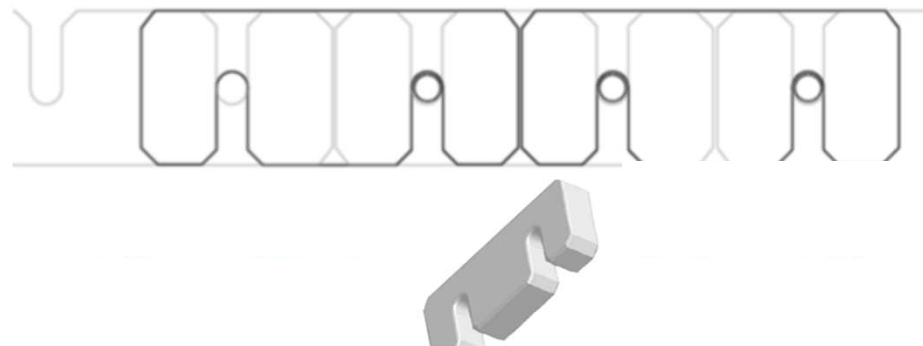
Aquacast - Concrete Flood Defence System

Unique Dynamic Construction Method using
W1 blocks: 80 cm x 40 cm x 12.5 cm with 78 kg



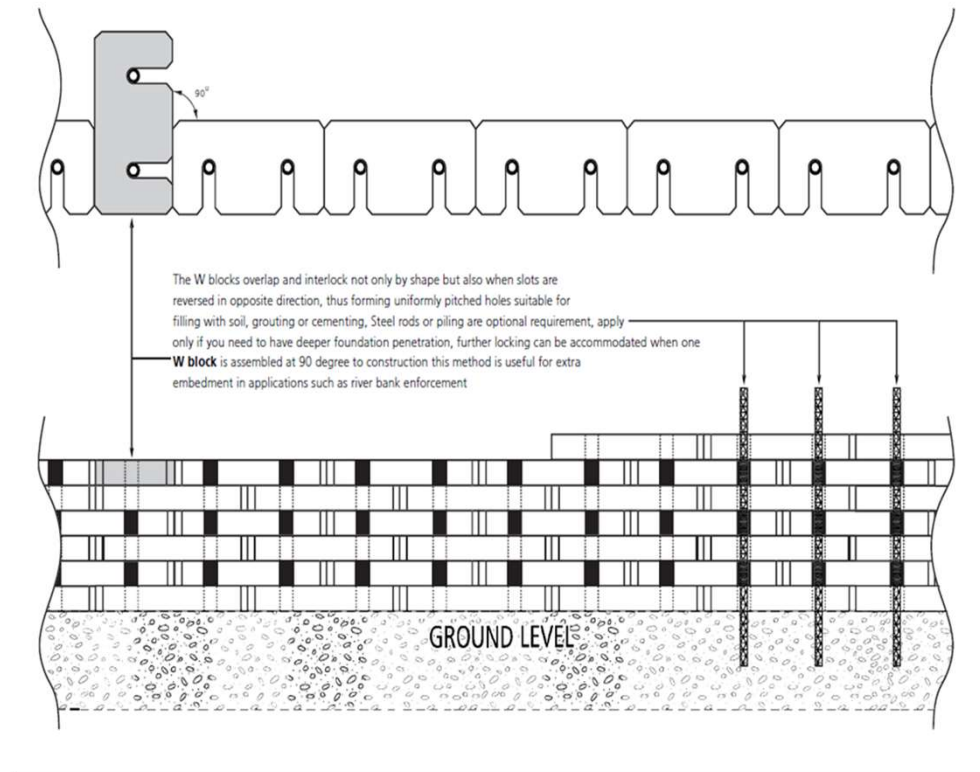
Construction & Formation Options

- Aquacast W design blocks are a new versatile and innovative construction system.
- The blocks are specially designed for the quick and easy construction of retaining walls.
- The W-shaped blocks have central slots that when reversed in polarity during construction, provide uniform centrally pitch holes that can be either steel pinned, piled or material filled.



Stabilisation Options

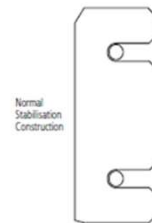
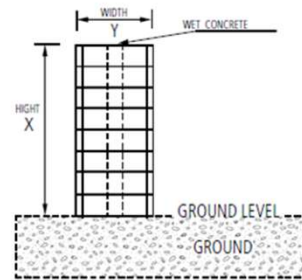
- W Block structures have several extra stabilisation options
- Examples of such
 - A - 90 degree support
 - 2 - use of piles support





Method 1

FREE STAND
Y=1 UNIT
X=10 UNITS

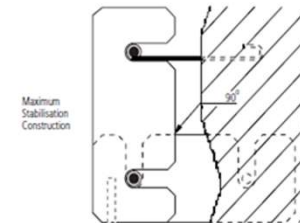
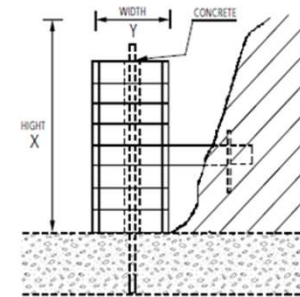


WITHOUT FOUNDATION

Method 1

Method 2

BLOCK TIE 90 DEGREE
Y=1 UNIT
X=100 UNITS



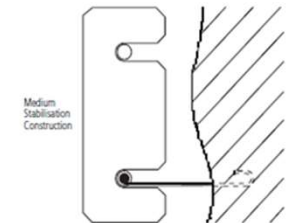
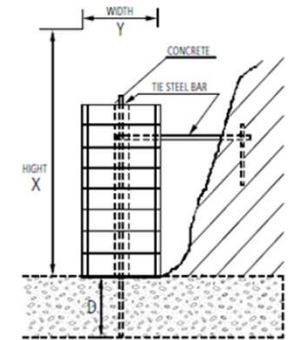
WITHOUT FOUNDATION

Method 2

Method 3

STEEL BAR TIE
Y=1 UNIT
X=50 UNITS

$$D = \frac{X}{3}$$



WITHOUT FOUNDATION

Method 3

How To Use The W Blocks

The assembly of the w blocks can be created in various formations.

This allows construction to achieve various project objectives.



Standard formation



Zig zag formation

Applications

- Land stabilisation
- Reservoirs
- Land erosion walls
- Flood defence walls
- Traffic
- Marinas, land reclamation and sea defence walls
- Landscaping for gardens and parks, artificial lakes and water ponds
- Houses, conservatories ,barns, and storage buildings and compounds



W Blocks

- Rapid walls for land stabilisation.
- No excavation for foundation is required
- Flexible heights and direction.





Access Road Walls

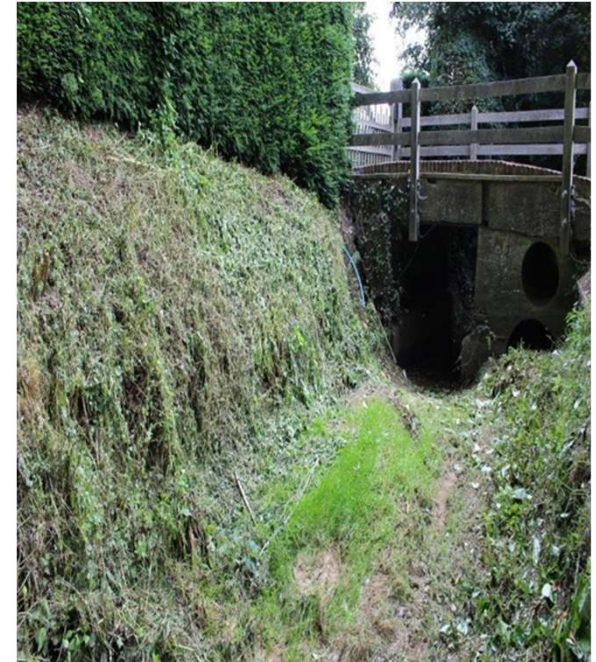
Erosion Control - River Bank Reinforcement Replacing Gabions Practice



Morning



Complete in one day



Vegetation Growth – Grey to Green



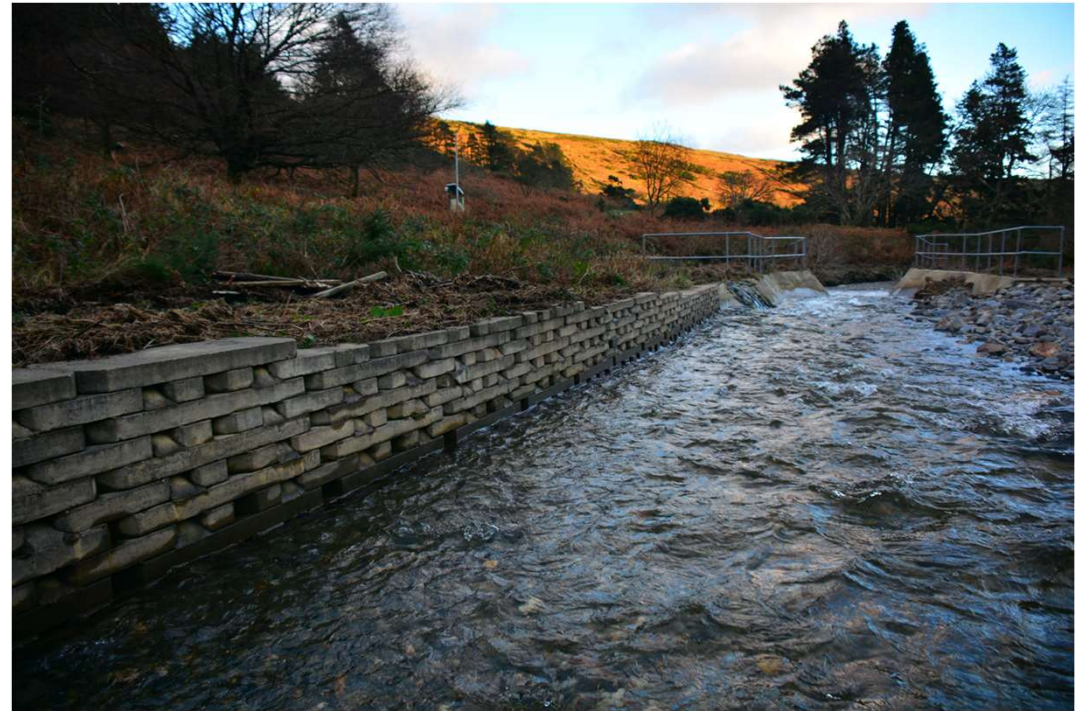
Lakes & Reservoirs

Casting Developments of the W- Block

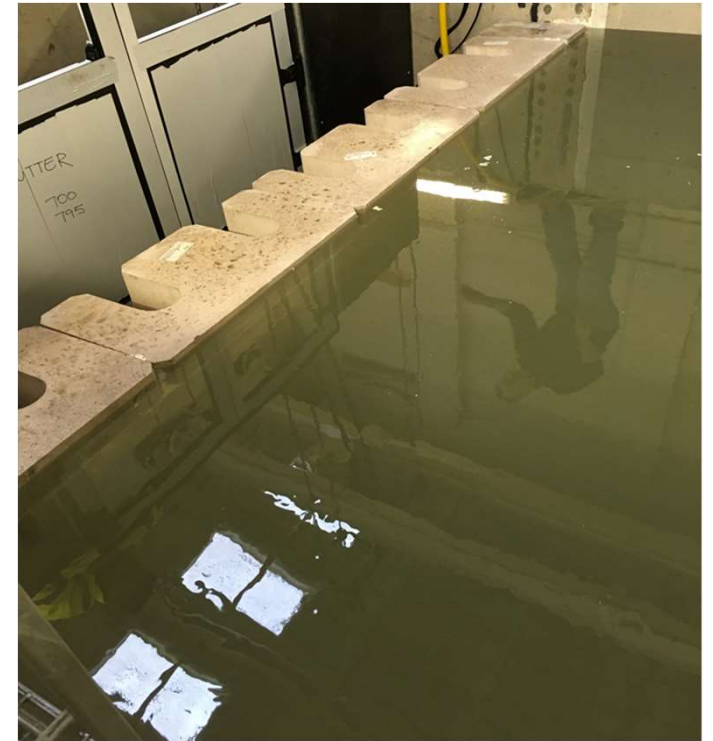


Applications: Sea Defence Walls, Harbours, Marinas, Jetties & Cofferdams

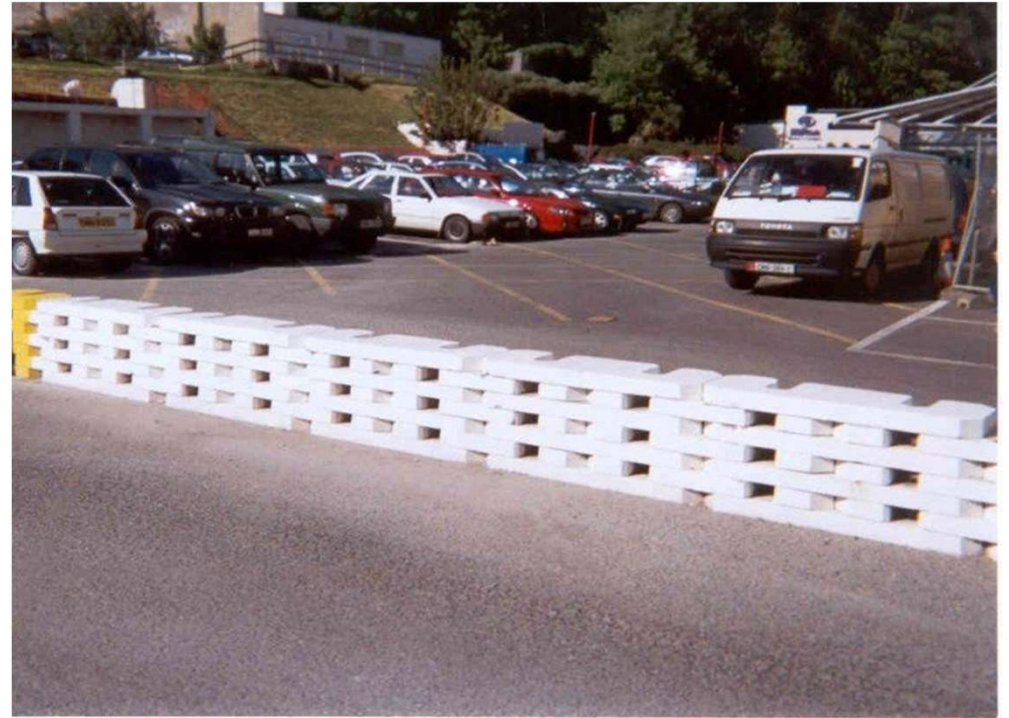
River Bank Reinforcement



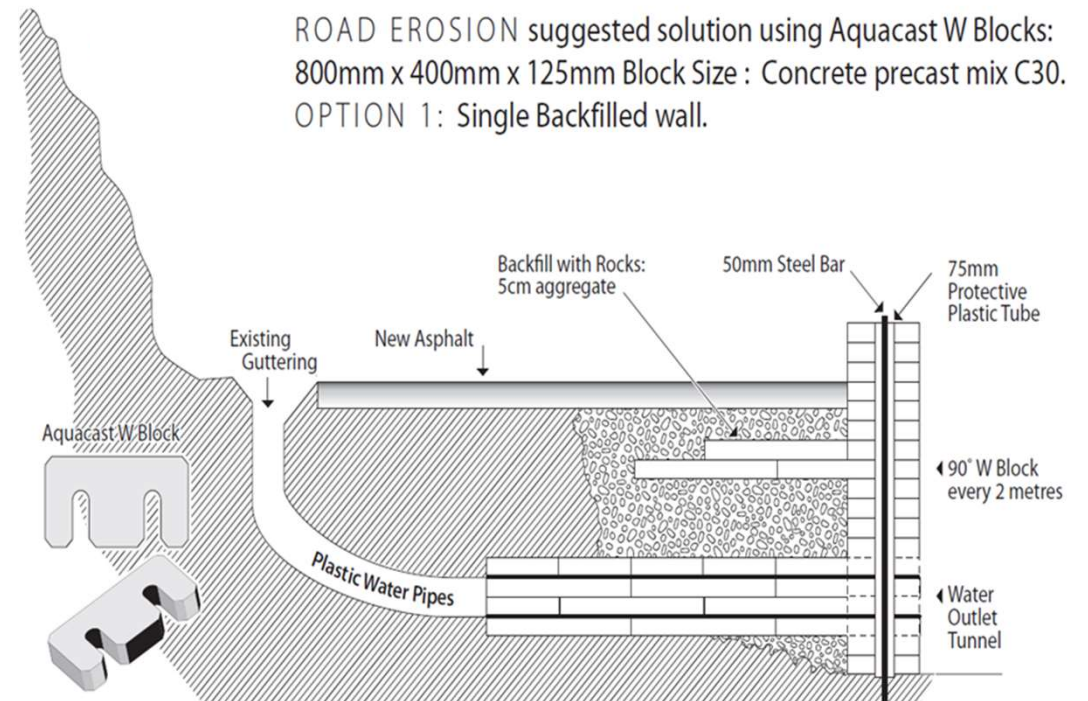
100% Watertight Barrier Walls For Flood Defence



Instant Traffic Walls, Road Barriers & Traffic Partition Walls



Fast Solution For Collapsed Roads or Subsidence



Building In Water for Marinas, Jetties and Land Reclamation





Storage Compounds & Warehouses, Barns, Substation Flood Protection
Compounds

Landscaping, Gardens & Parks



Instant Garden Walls & Landscaping



Potential Clients

- **Environment agency**
 - river bank reinforcement and sea defence walls
- **Local authorities and councils:**
 - flood defence and sea defence walls
- **Local authorities:**
 - landscape gardening walls, public parks , and artificial lakes .
- **Department of Highways:**
 - traffic walls and subsided roads
- **Agricultural applications:**
 - farm walls storage compounds and barons
- **MOD**
 - Army barracks
- **Sea land reclamation**
- **Erosion control, replacing gabions**
- **Harbours, jetties and marinas**
- **Cofferdams**
- **National Grid:**
 - sub station protection, compounds
- **Network rail:**
 - rail embankments, platforms and flood protection