

# AnchorSOL®

Mechanically Stabilized Earth Wall

Promise

# DELIVERING TRUST

Ensure

# PEACE OF MIND



The Next Era of  
**AnchorSOL®**



AnchorSOL is changing the reinforced soil industry through sustainable turnkey solutions utilizing proprietary Anchored Soil concept in geotechnical construction.

AnchorSOL, a group of solution driven companies, is a renowned geotechnical specialist works company in Malaysia that provide total solutions in earth retention and stability problems.

The company has developed its proprietary AnchorSOL Wall systems since 1999. Anchored Soil is a logical progression from proven reinforced soil technics in the development of tie-back earth retaining structures. The Anchored Soil technic imposes majority of the pullout resistance through the deadman anchor block reducing the cost in selecting costly granular backfill materials.



AnchorSOL Wall system has successfully built a vast variety of projects throughout Malaysia in the past 20 years comprising of mega infrastructure work projects such as Expressways, Overpasses, Bridge Abutments, Sea Walls and Hill Slope Stabilizations as well as Mixed Commercial and Residential Developments.

AnchorSOL Wall is a Reinforced Soil wall or Mechanically Stabilized Earth (MSE) wall system consisting of aesthetically pleasing Precast Concrete Facing Panel, Reinforcing Element, Anchor Block and Granular Reinforced Fill.



# AnchorSOL<sup>®</sup>

MSE Retaining Wall

## Main Components:

### Discrete Concrete Facing Panel

The aesthetically pleasing facial panel of AnchorSOL Wall is made of durable grade 30MPa concrete. The inverted-T or Octagonal shape precast concrete facing panel is featured with flexible interfaces between the panels which can easily be formed to suit to all wall geometry alignments. These panels are interlocked with each other to tolerate differential settlement and flexible movement with insertion of elastomeric rubber pads or resin bonded cork and joint filler material such as closed cell polyurethane foam strip in between joints.



### Reinforcing Tendons

The inextensible reinforcing tendon of AnchorSOL Wall is made of high tensile carbon steel rod with hot-dipped galvanized to prevent corrosion. To further warrant the prevention of corrosion, a sacrificial thickness is considered in the design.



## Anchor Block

The reinforced soil anchoring element of AnchorSOL Wall is made of durable grade 30 MPa concrete. The discrete concrete anchor block is attached to the reinforcing tendon via an opening in the anchor block centroid and secured with high tensile grade 8.8 nuts. The main advantage of concrete anchor block is it produces high passive resistance and it is relaxing the criteria associated with the selection of reinforced soil fill materials.

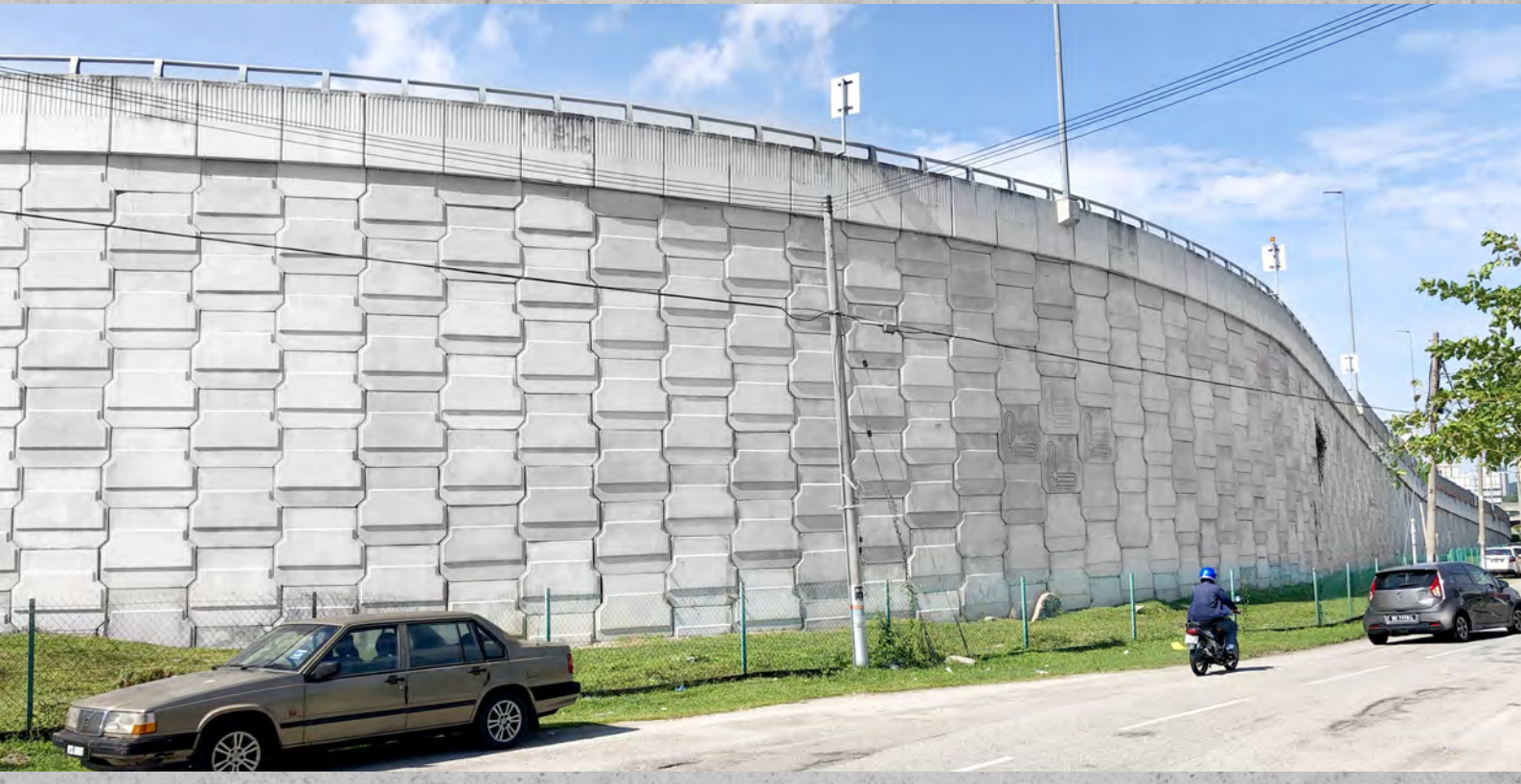
## Reinforced Soil Fill

The reinforced soil fill material of AnchorSOL Wall consists of cohesionless granular fill materials with high internal frictional resistance of not less than 34 degrees after well compacting.



# The Area of Applications

AnchorSOL Wall is used extensively as retaining wall in the construction industries for highway embankment, bridge abutment, river and seaside protection as well as general earth retaining structures that are found on rigid and soft foundations (with appropriate improvement at most of the cases). Application of AnchorSOL Wall in these works is not an alternative, but imperative.









The major advantages of

# AnchorSOL Wall

are as follow:

As compared to conventional reinforced concrete wall and other cast-in-situ walls, AnchorSOL Wall is easy to install and quick in progress of construction. It is not required any formwork or curing on site and basically no wet work at all during site construction work.



AnchorSOL Wall is very cost effective, particularly for high wall structures as no heavy lifting equipment is involved during construction work.

Erection of AnchorSQL Wall requires minimum manpower. In general, an erection team consists of 3-4 persons.



AnchorSQL Wall is externally clad with an aesthetically pleasing precast concrete finishing. Various selection of texture finishing choices is possible for consideration according to client's requirement.

By nature, AnchorSQL Wall is designed to be a flexible wall and thus it can tolerate different settlements adapting to wall alignments while in service.





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**Patent and Industrial Design**

Patent and Industrial Design protection has been sought for essential parts, embodiments and construction method of the AnchorSOL Wall System in Malaysia and a number of other countries.

For more information, kindly contact The General Manager c/o AnchorSOL Wall Sdn. Bhd.