



REINFORCED SOIL RETAINING WALLS & SLOPES

TensarTech® Keystone® TW3 Wall System

TensarTech® Keystone® TW3 wall systems consists of dry cast concrete modular facing blocks in combination with Tensar® geogrids to reinforce the soil mass behind.

The high efficiency connection between facing unit and geogrid is a distinctive feature of the system, creating strong and durable retaining wall structures.

Factory produced concrete blocks made to exacting standards and close tolerances together with geogrid reinforcement provide resilient permanent retaining walls and bridge abutments which typically have design life of 120 years.

Provision of the TensarTech® Keystone® TW3 wall system includes technical support, training, and services from Tensar's teams, plus TW3 system components:

TENSAR® UNIAXIAL (RE500) GEOGRIDS

High-density polyethylene (HDPE) with extremely high durability and no corrosion potential.

TENSARTECH® KEYSTONE® TW3 MODULAR BLOCKS

High strength, durable factory-produced dry cast concrete blocks.

TENSARTECH® KEYSTONE® TW3 CONNECTORS

for high efficiency connection between blocks and geogrids.

GRP DOWEL PINS

for interconnecting the blocks.



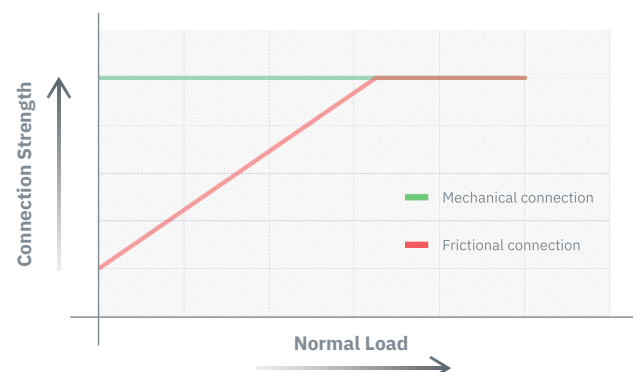
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more about the
TW3 system

TW3 SYSTEM PERFORMANCE BENEFITS

-  Greater utilisation of geogrid strength.
-  More efficient geogrid spacing.
-  High resistance to earthquake loading.
-  Superior load bearing capacity.

HIGH-EFFICIENCY CONNECTION

The integral junctions and stiff transverse bars of Tensar uniaxial geogrids allow for the use of purpose-made polymeric blue connectors to form high efficiency mechanical connection to the TW3 blocks. Rather than relying purely on a frictional interaction, the mechanical connection helps to ensure that the facing remains stable even during a seismic event. In addition, it provides high connection strength between the facing and geogrid taken into account in design.



The strength behind the TensarTech® Keystone® TW3 System: Tensar® Uniaxial (RE500) Geogrid

Tensar® uniaxial geogrids are manufactured from high-density polyethylene (HDPE) geogrid reinforcement provide resilient permanent retaining walls and bridge abutments throughout the service life. Exposure to daylight and weathering, and to chemical and environmental action (no strength reduction between pH 2 to 12.5) including contact with concrete blocks do not affect the durability and functionality of HDPE geogrid reinforcement.

INDEPENDENT ASSESSMENT AND APPROVALS



NO FUSS CONSTRUCTION

Contractors appreciate the constructability of the TensarTech® Keystone® TW3 wall system. The modular block facing requires no heavy lifting equipment and the block geometry makes placement and alignment of the facing straightforward. Placement of the geogrid reinforcement and connection to the block face requires no specialist skills.

The remainder is straightforward earthworks. Typically, no structural foundation is necessary, mobilisation costs are minimal and staged construction is easily accommodated. In Australia, a design and supply service can be provided at a fee through our local distributor. Site assistance is available when needed. No fuss, simple and quick.



SUCCESS STORIES

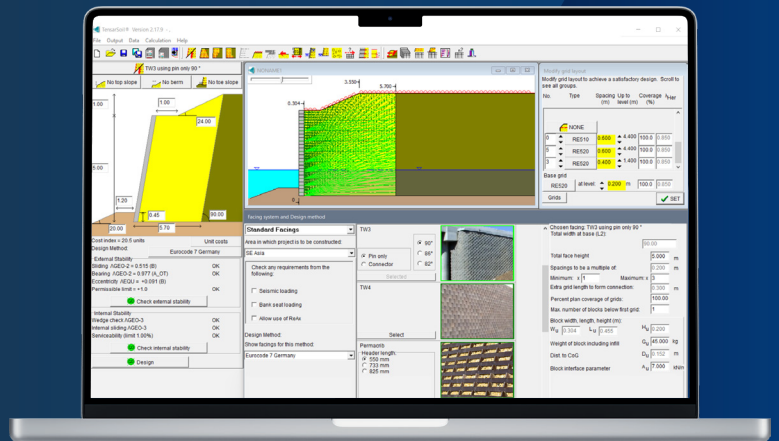
To read our Earth Retaining Walls & Slopes Success Stories, please scan the QR code.

tensarcorp.com/au/success-stories



Design Software for TensarTech® Keystone® TW3 Wall System

TensarSoil™ design software allows design engineers to produce designs for reinforced soil retaining walls, slopes and bridge abutments based on AS 4678-2002. Scan the QR code to get started!



Our team is with you every step of the way!

Our dedicated teams are available to support you with any pricing enquiries or technical assistance.



let us help you with your next challenge: tensarcorp.com/au email: tensarinfo-intl@cmc.com



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