Many Tensar® TW3 Structures are in Service - A Proven Success

Design Service
Tensar’s Civil Engineers are available to help take your project to the next stage. They are able to provide an Application Suggestion to prove feasibility and help with planning. Tensar can also provide certified detailed design and drawings for using Tensar products and systems on your project with the design work being covered by Tensar’s Professional Indemnity (PI) insurance.

Reinforced Soil Wall Design Software
For more than twenty five years Tensar has developed some of the most sophisticated reinforced soil design software in the world. This is used to provide clients with economically efficient, accurate and timely Application Suggestions, assisting in scheme design from feasibility right through to construction. Tensar has also developed the most comprehensive software in the industry for costing design works. This software is available to all Tensar customers including designers and contractors.

Tensar geogrids effortlessly accommodate tight concave or convex horizontal curves. TensarTech™ TW3 facing units are simple to install and can easily accommodate tight radius or complex horizontal curves. The complete range of Tensar literature consists of:

- Installation guides and specification notes.
- Also available on request are product specifications, literature covering Tensar products and applications.

Contact Tensar or your local distributor to receive further information covering the Tensar products and applications. (Also available on request are product specifications, installation guides and applications guides.)

Many construction equipment. Construction is straightforward and often requires no specialist skills or training. Tensar can provide a certified fully detailed design and drawings for using Tensar products and systems on a project with the design work being covered by Tensar’s Professional Indemnity (PI) insurance.

Tensar geogrids are simple to install and cost effectively accommodate tight radius or complex horizontal curves. Tensar has also developed the most comprehensive software in the industry for costing design works. This software is available to all Tensar customers including designers and contractors.

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Tensar geogrids are simple to install and cost effectively accommodate tight radius or complex horizontal curves. Tensar has also developed the most comprehensive software in the industry for costing design works. This software is available to all Tensar customers including designers and contractors.
The TensarTech™ TW3 Wall System consists of pre-cast concrete modular facing blocks in combination with Tensar® geogrids which reinforce the soil mass behind. The high affixery connected between facing and block is a distinctive feature of the system—creating strong and durable, maintenance free retaining walls. The high pH associated with concrete blocks does not affect the durability and functionality of HDPE geogrid reinforcement. Continual research in the laboratory and monitoring in the field has provided a detailed understanding of the behaviour of this type of structure. The strengths of the connection between the geogrid reinforcement and the block facing have been the subject of British Standards. The distinctive geometry of the concrete facing blocks allows the creation of both internal and external curves. Corners, stairs and other features are easily detailed. The high associated with concrete blocks does not affect the durability and functionality of HDPE geogrid reinforce-
ment during the life of the structure.

The TensarTech™ TW3 Wall System offers clients, specifiers and contractors marked advantages over other traditional methods of constructing retaining walls and bridge abutments:

- Rapid and economical construction
- Attractive range of modular block, finishes and colours
- Suitable with brick or masonry
- Offers specialist construction skills necessary
- Greater tolerance of differential settlement
- Adaptable to provide aesthetic architectural effect
- Optimum use of available space
- High resistance to earthquake loading
- Possibility of using low-waste recycled granular fill materials
- Load-bearing pressure may avoid expensive foundation treatment

The TensarTech™ TW3 Wall System for Proven Construction of Retaining Walls and Bridge Abutments

The TensarTech™ TW3 Wall System is built without cranes or propping. The cost effectiveness and versatility of the TensarTech™ TW3 Wall System offers clients, specifiers and contractors marked advantages over other traditional methods of constructing retaining walls and bridge abutments with a 120 year design life. The BBA certificates for reinforced structures and bridge abutments with a 120 year design life.

Tensar Technology – Proven Practical Solutions and the Know-How to Get them Built

Tensar™ offers a broad variety of cost effective and alternative solutions for all types of construction projects requiring retaining walls or slopes.

Building in Confidence with the TensarTech™ TW3 Wall System

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Independent Assessment and Approval

Both the TensarTech™ TW3 Wall System and Tensar HDPE geogrids have been built into British Board of Agrément (BBA) Roads and Bridges certificates allowing their design and specification in highways structures and bridge abutments with a 120 year design life. The BBA certificates are evidence that both the TensarTech™ TW3 Wall Systems and Tensar HDPE geogrids have been evaluated independently for fitness for intended use.

Unsurpassed Experience and Reliability

Tensar International is a world leader in geogrid technology and the provision of high performance earth retaining systems, with over 30 years experience. Many thousands of reinforced soil structures, in many varied geotechnical and climatic conditions, have been designed and built using Tensar Technology around the world.

Offering Cost Effectiveness and Versatility

Savings of up to 50% over conventional construction methods such as reinforced concrete can be achieved by constructing with the TensarTech™ TW3 Wall System in addition construction time may also be significantly reduced.

Tensar’s experience and reliability ensures that, for any project, Tensar will offer a system that is specifically designed to meet your project’s requirements.
The TensarTech™ TW3 Wall System consists of pre-cast concrete blocks made to exacting standards. TensarTech™ concrete blocks are dry laid, without mortar. TensarTech™ TW3 concrete blocks are built in savings in cost and time. We can help you apply Tensar Technology is widely adopted for ground stabilisation and the proven performance of Tensar geogrids. Tensar TensarTech™ systems are based on Tensar Technology Practical Solutions and the attractive range of modular block, finishes and colours. The distinctive geometry of the concrete facing blocks allows the durability and functionality of HDPE geogrid reinforcement provide resilient, durable, maintenance free retaining wall structures. The high efficiency connection between facing unit and geogrid is the high resistance to earthquake loading retention during the life of the structure. Continual research in the laboratory and monitoring in the field has provided a detailed understanding of the behaviour of this type of structure. The strength of the connection between the geogrid reinforcement and the block facing has proved to be initially important. The distinctive geometry of the concrete facing blocks allows the creation of both internal and external curves. Corners, stairs and other features are easily detailed. The high associated with concrete blocks do not affect the utilisation function of HDPE geogrid reinforce-ment during the life of the structures.

**Building in Confidence with the TensarTech™ TW3 Wall System**

The TensarTech™ TW3 Wall System consists of pre-cast concrete modular facing blocks in combination with Tensar geogrids which reinforce the soil mass behind. The high efficiency connection between facing and geogrid is a distinctive feature of the system - creating strong and durable, maintenance free retaining wall structures. Factory produced concrete blocks made to exacting standards and close tolerances together with the high-density poly-ethylene (HDPE) geogrids provide resilient permanent retaining walls and bridge abutments which have design lives of up to 120 years.

**TensarTech™ TW3 Wall System for Proven Construction of Retaining Walls and Bridge Abutments**

The cost effectiveness and versatility of the TensarTech™ TW3 Wall System offers clients, specifiers and contractors many advantages over other traditional methods such as reinforced concrete, for the construction of retaining walls and bridge abutments:

- **Rapid and economical construction**
- **Attractive range of modular block, finishes and colours**
- **Suitable with little or no maintenance**
- **Offers specialist construction skills necessary**
- **Greater tolerance of differential settlement**
- **Adaptable to provide aesthetic architectural effect**
- **Optimum use of available space**
- **High resistance to earthquake loading**
- **Possibility of using recycled or recycled granular fill materials**
- **Low bearing pressure may avoid expensive foundation treatment**

**Offering Cost Effectiveness and Versatility**

Savings of up to 50% over conventional construction methods such as reinforced concrete can be achieved with constructing the TensarTech™ TW3 Wall System. In addition construction time may also be significantly reduced.

**Independent Assessment and Approval**

Both the TensarTech™ TW3 Wall System and Tensar RGE geogrids have been awarded British Board of Agrément (BBA) Road and Bridge certificates allowing their design and construction in highways structures and bridge abutments with a 120 year design life. The BBA certificates for evidence that both the TensarTech™ TW3 Wall Systems and Tensar RGE geogrids have been evaluated independently for fitness for intended use.

**Unsurpassed Experience and Reliability**

Tensar International is a world leader in geogrid technology and the provision of high performance earth-retaining systems, with over 30 years experience. Many thousands of reinforced soil structures, in many varied geotechnical and climatic conditions, have been designed and built using Tensar Technology around the world.
The TensarTech™ TW3 Wall System consists of pre-cast concrete blocks delivered on pallets to the point of installation. The distinctive geometry of the concrete facing blocks allows the creation of both internal and external curves. Corners, staircases and other features are easily detailed. The high pH associated with concrete blocks does not affect the durability and functionality of HDPE geogrid reinforcement. The distinctive geometry of the concrete facing blocks allows the creation of both internal and external curves. Corners, staircases and other features are easily detailed. The high pH associated with concrete blocks does not affect the durability and functionality of HDPE geogrid reinforcement.

Building in Confidence with the TensarTech™ TW3 Wall System

Continual research in the laboratory and monitoring in the field has provided a detailed understanding of the behaviour of this type of structure. The strength of the connection between the geogrid reinforcement and the block facing has proved to be very reliable and durable. The distinctive geometry of the concrete facing blocks allows the creation of both internal and external curves. Corners, staircases and other features are easily detailed.

The TensarTech™ TW3 Wall System offers clients, specifiers and contractors many advantages over other traditional methods, such as reinforced concrete, for the construction of retaining walls and bridge abutments:

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- Attractive range of modular block, finishes and colours
- Suitable with both dry or no maintenance
- Offers specialist construction skills unnecessary
- Greater tolerance of differential settlement
- Adaptability to provide aesthetic architectural effect
- Optimise the use of available space
- High resistance to earthquake loading
- Flexibility of using low-carbon recycled granular fill materials
- Low bearing pressure may avoid expensive foundation treatment

The TensarTech™ TW3 Wall System for Proven Construction of Retaining Walls and Bridge Abutments

Industrial Assessment and Approval

Both the TensarTech™ TW3 Wall System and Tensar RGeoGrids have been independently tested by independent bodies and have been awarded British Board of Agrément (BBA) Road and Bridge certificates allowing their design and classification in highway structures and abutments with a 120 year design-life. The BBA certificates are evidence that both the TensarTech™ TW3 Wall System and Tensar RGeoGrids have been evaluated independently for fitness for intended use.

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Design Service

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Reinforced Soil Wall Design Software

For more than twenty-five years Tensar has developed some of the most sophisticated reinforced soil design software in the world. This is used to provide clients with economically efficient, accurate and timely Application Suggestions, assisting in design from feasibility right through to construction.

Tensar Tech™ TW3 Structures are in Service - A Proven Success

Tensar Tech™ TW3 facing units are simple to install and can easily accommodate right corners in rectilinear structures.
Many Tensar’s Civil Engineers are available to help take your project to the next stage. They are able to provide an Application Suggestion to ensure that your project is fully competitive. They can also advise on the best use of Tensar’s range of geosynthetic products and systems, and help produce a design for using Tensar products to assist in your project with the design work being covered by Tensar’s Professional Indemnity (PI) insurance.

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Reinforced Soil Wall Design Software
Formulate cost effective solutions using the most advanced and industry leading reinforced soil design software available. The software is easy to use and highly accurate; providing cost effective solutions with impact on overall project costs. The software is easy to use and highly accurate; providing cost effective solutions with impact on overall project costs.

Tensar Tech™ TW3 Structures are in Service - A Proven Success
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