

TENSAR Retaining Wall System

A unique blend of Technology, Economy & Aesthetics



TENSAR TW1 BLOCKS

Assarain Concrete Products LLC, (ACP) is the market leader in the paving industry. As an obligation to the industry for bringing latest technology to Oman, ACP has diversified into bringing yet another new product called TENSAR TW 1 BLOCKS – an essential component of the Tensar Retaining Wall System.

ACP is the only manufacturing facility in Oman approved by Tensar International Limited, United Kingdom to produce Tensar Modular Block Facing Units on the latest, state of the art, fully automatic German Plants.

These Tensar Blocks are now available to Oman's leading engineering and contracting companies as a complete reinforced soil wall system

TENSAR WALL SYSTEM

Tensar Wall System comprises soil mass reinforced with Tensar RE Geogrids and facing units (Tensar Blocks) in selected colours. This is an alternative to the conventional RCC wall and the Tensar Retaining Wall can support buildings at a height, flyover embankment, major highway road projects etc.

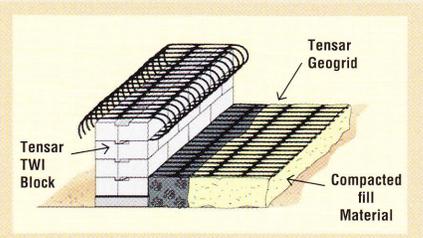
MODULAR CONCRETE BLOCK FACING UNITS

ACP provides factory made concrete blocks which have been developed to produce an attractive, easily constructed face. The high efficiency connection between the facing unit and the Tensar geogrid is a feature of this system.

They are manufactured from high quality concrete in a range of selected colours and styles and come in smooth block finish. Tensar blocks have been carefully crafted into elliptical faces which give beauty, less colour variation and provide minimum wastage. The facing options are at the disposal of the contracting companies to meet the aesthetic and economic needs of the project in terms of choice of some colours and geometrical distribution as per design requirements. This gives the designer numerous options from which to choose the final appearance / design of the structure. The horizontal alignment may be straight or curved and constructed with terraced faces due to the elliptical appearance given recently by Tensar International to its facing units.

The use of these facing units offers additional advantage of not requiring specialist lifting equipment as they are easily handled and there is no need for propping of the structure during construction.

Placement of the facing units geogrid and the fill material are all part of the same construction process. As a result, progress is fast without the need of special equipment or highly skilled labour.



BENEFITS OF TENSAR WALL SYSTEM V/s CONVENTIONAL RCC RETAINING WALLS

- Rapid and Economic Construction.
- Provide effective locking of Geogrids and overall stability over the years.
- Attractive range of selected colours.
- Freedom to make collage of designs & curved walls.
- Durable and Maintenance free.
- No special construction equipment required.
- Manufactured generally with 30 N/mm² Compressive Strength or tailor made strengths.
- Low Cost - 30 to 40% economic benefit.
- Saving in deep excavation costs.

Tensar Base Block	200 mm Stone Height 210 mm Stone width 400 / 381.6 mm Stone length
Tensar Standard Block	200 mm Stone Height (excluding zig zag Locking Keys) (225 mm with Locking Key) 210 mm Stone width 400 / 381.6 mm Stone length
Coping Block Size	400 x 310 x 100 mm
Tolerance	± 3mm



Assarain Concrete Products L.L.C.
(A member of the Assarain Group)

- Tensar Geogrids in retaining wall has been used in Oman since 1988
- **Locations** : Al Khoud Flyover, Mabella Interchange, Nissan Showroom Wall, Al Mawaleh