



Tensor®

**ROADS AND
PLATFORMS**

Tensor's design delivered pavements that could deal with the anticipated high trafficking loads, while being thinner than non-stabilised designs.

Vital link

Tensor's Spectra Pavement Optimisation delivered cost-effective pavement designs for a link road to a new hospital in Sharjah, Ras Al Khaimah, UAE.

Sheikh Khalifa Hospital

Pavement optimisation

📍 Sharjah,
United Arab Emirates

CLIENT'S CHALLENGE

Tensor worked with the Federal Ministry of Infrastructure Development to demonstrate the benefits of using a mechanically stabilised pavement for a link road to the new Sheikh Khalifa Specialty Hospital. As a result, the client included the requirement for mechanically stabilised pavements in the project specification. Consultant Dorsch Gruppe DC - Abu Dhabi and contractor Ghantoot Transport and General Contracting needed cost-effective pavement designs meeting these requirements and approached Tensor for a solution.

TENSAR SOLUTION

Tensor's design used TriAx geogrids incorporated into unbound granular material, creating mechanically stabilised layers delivering pavements that could deal with the anticipated high trafficking loads, while being thinner than non-stabilised designs. This saved time and money during construction, reducing maintenance requirements and increasing pavement life. Tensor also provided site assistance and trained the contractor's engineers in how to install geogrid correctly.

BENEFITS

250,000m²
of roads built using
Spectra pavement
optimisation

**Faster
construction**
through thinner
pavements

Saving money
during construction
and over the road's
lifetime

REF TEN393



Following discussions with Tensar, the Federal Ministry of Infrastructure Development specified mechanically stabilised pavements for the hospital link road.

PROJECT BACKGROUND

The Sheikh Khalifa Specialty Hospital was built in the middle of five emirates: Sharjah, Ajman, Umm Al Quwain, Ras Al Khaimah and Fujairah.

Originally, the Federal Ministry of Infrastructure Development had planned to specify conventional road pavement designs but, after demonstrating the cost and time savings offered, Tensar convinced it to specify mechanically stabilised pavements for the project instead.

Following award of the contracts, the contractors and consultants approached Tensar to provide pavement designs, with the aim of meeting the client's requirements and reducing construction costs.

Main contractor:

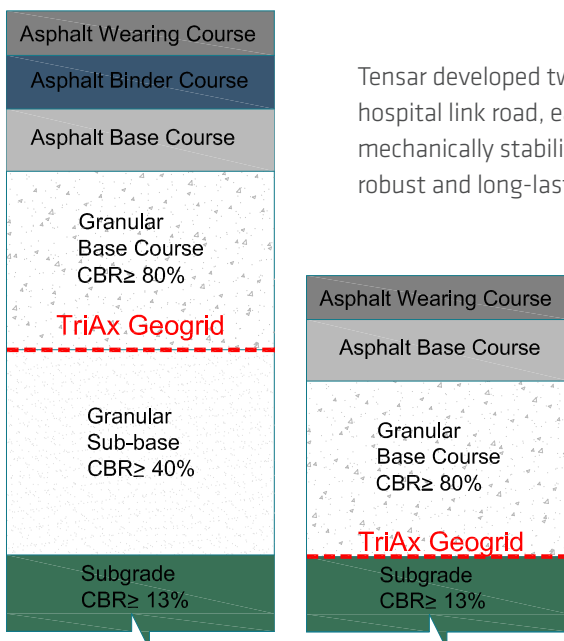
**Ghantoot Transport
General Contracting
LLC.**

Consultant:

**Dorsch Gruppe DC -
Abu Dhabi**

Client:

**Federal Ministry
of Infrastructure
Development**



Tensar developed two designs for the hospital link road, each incorporating mechanically stabilised layers, delivering robust and long-lasting pavements.

Tensar International Limited

Units 2-4 Cunningham Court Shadsworth Business Park
Blackburn. United Kingdom BB1 2QX

T. +44(0)1254 262431 | Visit: tensarinternational.com

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