



Roads and Platforms
№ 428

Daxing International Airport

📍 Beijing, China

Benefits

Mitigated differential settlement

as a result of a Tensar mechanically stabilised layer



Stabilising the Starfish

Tensar geogrids helped reduce differential settlement at a major international airport in China. Also, a network of culverts and service pipes had been constructed across the site which introduced the potential for differential settlement to occur which could affect the finished construction.

CLIENT'S CHALLENGE

Beijing Daxing International Airport is Beijing's second international airport and nicknamed "the starfish" due to its distinctive shape. The airport consists of four runways and landing field which was constructed on variable ground soil. Also, there were culverts situated beneath the ground and therefore control of differential settlement was critical.

TENSAR SOLUTION

Tensar proposed the construction of a mechanically stabilised layer made up of a well graded granular fill and Tensar stabilisation geogrids. Tensar geogrids are designed to confine the granular particles and form a flexurally stiff granular layer which acts to mitigate potential differential settlement due to variable underlying ground conditions. The proposals were accepted by the project client and installed to offer protection for this prestigious project.