



Tensor InterAx geogrid provided a two stage Mechanically Stabilised Layer (MSL)



## Foundation Support Nº 460

### Eastleigh Railway depot

📍 Eastleigh, UK

CONSTRUCTED IN 2022

#### Benefits

**42% estimated reduction**  
in construction time

**20% estimated savings**  
in material costs

**35% estimated saving**  
in carbon emissions

### Tensor provides support to foundations over weak subgrade soils

After encountering weaker than expected subgrade soil conditions, a solution was required to address initial construction activities as well as achieve target levels of support for the permanent works.

#### CLIENT'S CHALLENGE

Tensor were contacted by the client to address challenges with subgrade conditions that were much weaker than expected from initial project documentation (CBR 0.8% vs an expected minimum of 3.4%). Foundation subgrade improvement was required to support concrete slab construction, alongside a working platform and haul road to give construction access over the weak ground.

#### TENSAR SOLUTION

A Tensor Mechanically Stabilised Layer (MSL) incorporating Tensor InterAx geogrid was provided, considering both the varying loading conditions and performance criteria to suit the construction sequence. Admissible bearing pressures were provided for using the MSL as a working platform in the construction phase, with additional advice regarding maintenance and validation testing prior to its permanent use beneath a ground bearing slab. The Tensor MSL achieved the required levels of support throughout construction.