Installation of Tensar InterAx geogrid helped to save time, cost and carbon on the site's working platform

Working Platforms
№ 459

HS2 Stoneleigh Park

Warwickshire, UK

CONSTRUCTED IN 2022

Benefits

£250,000 (65%) estimated reduction
in construction cost

15 days (75%) estimated reduction
in construction time

100,000kg CO2e (75%) estimated saving
in carbon emissions

Around 1.0m of 6F2/5 saving
in stone depth across the platform's area

Tensar stabilised platform provides value for HS2 overbridge foundations

As an alternative to traditional design methods, a leaner working platform was required for the Stoneleigh Park Overbridge piling operations, which needed to address the issues of high rig track pressures over a variable subgrade.

CLIENT'S CHALLENGE

Following comprehensive geotechnical investigation, the subgrade conditions were identified as variable; between cohesive and granular over the 5,000m2 area. The project team aimed to also substantially reduce the volumes of imported fill to be used in the platform's construction and maintenance.

TENSAR SOLUTION

Using the updated T-value method in conjunction with Tensar's best ever performing geogrid, Tensar InterAx, a mechanically-stabilised solution was proposed, resulting in significant quantifiable savings in whole life construction time, cost and embodied carbon emissions.

