

New Zealand Steel use Tensor® InterAx® for Heavy-duty pavement in Laydown Yard



New Zealand Steel Laydown Yard Heavy Duty Pavement

South Auckland, New Zealand

CLIENT'S CHALLENGE

The client required a durable, heavy-duty pavement solution for their laydown yard, which would be constructed over a moderate-strength subgrade with a CBR of 6%. The pavement specification needed to accommodate heavy traffic loading from 52-tonne forklifts used for handling steel coils, with each forklift generating front axle loads of up to 83 tonnes.

TENSAR SOLUTION

Pavement design optimised using Tensor+ HHR (Heavy Haul Road) module with LAAMS approach to mitigate rutting over the 5-year design life. Initially designed with GAP65 aggregate, the specification adapted to non-standard brown rock aggregate with $\leq 100\text{mm}$ maximum particle size and 75mm rut depth limit. Two layers of InterAx geogrid enable a thicker, more durable pavement compared to the original section without geogrid, significantly reducing long-term maintenance requirements.

B E N E F I T S

- **Reduced maintenance** Two InterAx layers mitigate rutting and minimize long-term maintenance under 83-tonne loads
- **Design flexibility** Tensor+ HHR approach accommodates non-standard brown rock ($\leq 100\text{mm}$ particle size) while maintaining performance
- **Enhanced Durability** The Tensor mechanically stabilised pavement delivers superior performance compared to original section without geogrid

Tensor®

A Division of CMC

PROJECT DETAILS

Constructed in
June 2025

Project Owner
New Zealand Steel

Contractor
CLC Contractors

Product
Tensor® InterAx®



Tensor® InterAx® geogrid installation at New Zealand Steel laydown yard construction site.

Heavy Duty & Industrial Pavements |

No. 538

let us help you with your next challenge: tensarcorp.com/au email: tensarinfo-intl@cmc.com



We're CMC. You'll find our products strengthening and reinforcing the infrastructure nearly everywhere on the planet – in sports stadiums and public buildings as well as highways, bridges, railways and other structures. To serve this global market, CMC maintains facilities across the United States, Europe and Asia. These sites include everything from local recycling centers, steel mini-mills and micro-mills to large-scale fabrication centers, heat-treating facilities as well as other operations. cmc.com ©CMC 2024