

Case Study –Carmichael Rail Network

Monowills Link & Gripspan Planking

Project Name: Carmichael Rail Network Maintenance Walkway

Location: Newlands Queensland

Builder: Martinus Rail

Original scope: 4.5km of fabricated grating, safety barrier and traditional structural steel framework – costed at approx. \$5M.

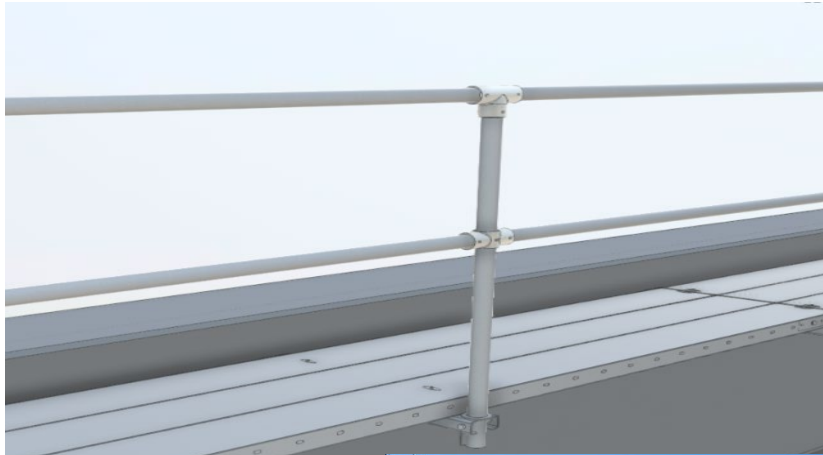
Due to budget constraints, the walkway package was initially removed in favour of temporary scaffolding.

Webforge Locker Solution: To overcome cost and complexity, Webforge Locker collaborated closely with Martinus Rail to engineer a smarter alternative. The proposed solution: a Gripspan Modular Walkway System designed to be bolted directly to the precast concrete girders – no drilling or structural steel framework required. This lightweight, permanent solution removed the need for temporary scaffolding and eliminated costly rework, while delivering long-term value for both construction teams and future maintenance crews. The system was custom-engineered to suit site conditions, allowing for ease of transport, on-site adjustability, and rapid installation in a regional rail environment.



Case Study – Carmichael Rail Network

Monowills Link & Gripspan Planking



Design Phase

Product Optimisation

- Permanent Structure providing long term end user value
- No remobilisation of track teams to decommission temporary structures
- Lightweight Gripspan enabled significant structural steel removal
- Lightweight Walkway System designed to be bolted directly to load bearing concrete girder (without drilling)
- Modular systemised approach delivered
 - scope simplification
 - cost effective transport to the Projects regional location
 - level of adjustment during installation

Completion

