

Case Study: Cycle Trail Swing Bridge – Safety Upgrade

Location: Public Trail Bridge, New Zealand **Product:** FRP Mini Mesh Grating **Industry:** Public Infrastructure/Trails

FRP Ltd supplied FRP mini mesh grating to replace deteriorating timber decking on a swing bridge used by both cyclists and pedestrians. The upgraded surface delivered improved slip resistance, long-term durability, and reduced maintenance demands in a damp, high-use environment.

Project Challenges

- Rotten and warped timber decking due to ongoing moisture exposure.
- Unsafe surface for cyclists and pedestrians.
- Frequent and costly maintenance was required to replace damaged boards.
- Need for a longer-lasting, slip-resistant solution suitable for outdoor use.

Our Solution

- Supplied FRP mini mesh grating with anti-slip grit surface.
- Lightweight and easy to install.
- Corrosion-resistant and ideal for damp, outdoor environments.
- Removed the need for additional slip-prevention layers (e.g. plastic or steel mesh).

Outcome

- Safer crossing for both cyclists and pedestrians.
- Excellent slip resistance in wet conditions.
- Significant reduction in maintenance frequency and cost.
- Fast installation with long-term durability.
- Positive feedback from the client on value and performance.

"I was surprised that the price of FRP was not significantly more than timber decking. There are savings in installation costs, and FRP removes the need for plastic or steel mesh. Factoring in lower maintenance costs and excellent skid resistance, FRP is our preferred product for cycle trail bridge decks."

— Client

See photos of the completed solution on the next page.

Slip-resistant, low-maintenance, and built to last



Mini Mesh provides a safer and more durable surface for cyclists and pedestrians.



It offers reliable slip resistance in all weather, with no need for additional overlay materials.

Project Summary

Location	Public Pedestrian & Cycleway Bridge, New Zealand
Industry	Public Infrastructure/Trails
Product Supplied	FRP Mini Mesh Grating
Aperture Size	12 mm
Key Properties	Slip and corrosion resistance, low maintenance
Scope	Supply and install coordination

Upgrade swing bridges with FRP. Get in touch for expert product advice and support.