

Pioneer River Boardwalk

Mackay, Queensland – The Pioneer River, known for its pristine ‘blue water’, meanders through the scenic Pioneer Valley, from the Clarke Connors Ranges to the Pacific Ocean at Mackay. Recently, a shared pathway was constructed as part of the Queensland Government’s Cycle Network Local Government Grant programs. Stretching over a kilometre, this pathway, located near Heaths Road, connects seamlessly with the Mackay Gooseponds Trail, enhancing connectivity and offering health and recreation opportunities for cyclists and pedestrians alike.

Treadwell was engaged to supply the FRP grating, structural profiles and balustrades for this boardwalk.

Project Challenges

- UV deterioration needed to be taken into consideration. Structural integrity had to withstand this exposed outdoor application.
- Corrosion resistance was a key concern.
- Grating had to have a robust anti-slip surface for user safety.

PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP grating, structural profiles and balustrades
Treadwell Products:	NatureTREAD™ FRP Solution EX-Series® GratEX® FRP Micro Mesh Grating NatureTREAD™ FRP Balustrade System ArchitEX™ FRP Structural Profiles



Treadwell Solution:

- 1 NatureTREAD™ FRP Solutions are constructed from premium quality resin systems which include UV stabilisers and fire-retardant properties.
- 2 FRP is engineered to withstand corrosive environments for product longevity.
- 3 EX-Series® GratEX® FRP Micro Mesh grating is available with an integrated anti-slip grit, which eliminates the risk of delamination, and is suitable for high traffic areas.

- 4 The openings in GratEX® FRP Micro Mesh grating allows for water and debris to fall through, creating a self-maintaining anti-slip surface, while allowing ventilation and sunlight through for the vegetation beneath to thrive.
- 5 The lightweight nature of FRP ensures minimal impact on the surroundings as installation is done without the need for heavy machinery, and there is minimal weight loading on the natural environment.