

## Sawdust Bridge Replacement

This old, flood-damaged bridge across Don River in Tasmania needed to be replaced as it had reached the end of its useful life. Installed shortly after the opening of a nearby sawmill, the structure was prone to being impacted by floods and debris floating in the river.

The new bridge was designed as a single span frame, which goes directly from one side to the other. Harnessing prefabrication technology allowed the structure to be built off-site and installed in a matter of hours. Treadwell was engaged to provide the grating for the structure.

### Project Challenges

- Decking would be installed on a curved bridge structure and needed to accommodate the slopes.
- Being in a remote area, the bridge would have to be airlifted by helicopter to be installed, as such, the material had to be lightweight.
- The new bridge had to have a longer lifespan than the old wooden one, as well as require lower bridge maintenance.

### PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply bridge grating
Treadwell Products:	EX-Series® GratEX® FRP Square Mesh Grating



### Treadwell Solution:

**1** High performance GratEX® FRP Square Mesh grating was specified in building the structure as a preferred solution over traditional materials.

**2** The anti-slip surface is built in during construction of the grating, providing additional safety features for the user.

**3** Constructed from specially formulated resins, GratEX® grating is corrosive resistant and is well suited to withstand the outdoor environment.

**4** Being lightweight and easy to install, FRP is very manageable during construction.

**5** Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.