

Caulfield to Dandenong Level Crossing Removal

Melbourne's busiest rail line underwent a transformation that saw the removal of nine dangerous and congested level crossings, to be replaced by an elevated rail design. This elevated rail is able to carry both passenger and freight trains. As part of these new stations, it was decided that FRP access structures would be included in the construction of the new stations as well as the rail track.

Treadwell was engaged to provide the safety egress, access platforms and the central walkway between the rail tracks.

Project Challenges

- Decking for the central walkway had to be easily removed for maintenance access.
- Steppovers had to be non-slip, and maintain structural integrity while in permanent outdoor exposure.
- Products had to be installed without the use of heavy machinery.

PROJECT INFORMATION

Project Category:	Rail Infrastructure
Scope of Work:	Design & supply FRP grating and decking
Treadwell Products:	ACCESS SYSTEMS GratEX® FRP Mini Mesh grating EcoEX™ SureLine® Heavy Duty FRP panels



Treadwell Solution:

1

EcoEX™ SureLine® Heavy Duty FRP panels are constructed in a way that allows easy removal of panels whenever access is required.

2

The FRP grating and decking products have an anti-slip surface for greater user safety.

3

Treadwell's FRP products are constructed from premium resins that include corrosion resistant properties and UV inhibitors, making it ideal for this outdoor application.

4

FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.

5

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

6

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