

Murrumbeena Substation

The Murrumbeena Road level crossing was removed in 2018 as part of the Caulfield to Dandenong Level Crossing Removal project. This project saw the removal of nine level crossings and the construction of five new stations. By building an elevated rail line, this project opened up 22.5 hectares of open space and parkland for the community. This also helped to ease traffic congestion and reduced train travel times.

The Murrumbeena substation is an integral part of the train network that houses electrical equipment that provides the current supply to operate trains, signals and communications equipment. Treadwell was engaged to design and supply the security fencing for the perimeter of this substation.

Project Challenges

- The material had to have low electrical conductivity, especially in the event of stray electrical currents.
- Being the security perimeter for a substation, the product had to be anti-climb to address safety concerns.
- Selected material had to withstand exposure to outdoor conditions.

PROJECT INFORMATION

Project Category:	Infrastructure
Scope of Work:	Design and supply FRP fencing
Treadwell Products:	SecurEX® FRP Palisade fencing panels



Treadwell Solution:

1

Treadwell's SecurEX® FRP panels are constructed with non-conductivity properties, ensuring safety from electrical currents.

2

These FRP panels were designed to be anti-climb to minimise the risk of theft and vandalism.

3

SecurEX® FRP panels are termite- and rot-proof. With built in corrosion-resistant properties, it is the ideal solution for this outdoor application.

4

SecurEX® FRP panels were customised to meet the aesthetic and practical requirements of the structure.

5

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