Case Study

TREADWELL

Noble Park Substation

Noble Park station is one of five stations that were completely rebuilt as part of the Caulfield to Dandenong Level Crossing Removal project. This included the replacement of nine crossings by using an elevated rail design. With more available public space, new amenities like a cycle route, parks, fitness areas and games courts, the urban design has improved traffic congestion, and has created a unified feel across neighbourhoods previously separated by a train line.

As part of the construction for the new Noble Park station, the power substation was relocated to the west of the station carpark. This new location was designed to create a new space for commuters as well as improve access to the street shops. Treadwell was engaged to provide the secure fencing for this substation.

Project Challenges

- The material had to have low electrical conductivity, especially in the event of stray electrical currents.
- The selected material had to be corrosion resistant and able to withstand the outdoor environment.
- Colour had to be customised to meet the required aesthetics.

PROJECT INFORMATION	
Project Category:	Utilities Infrastructure
Scope of Work:	Design & 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 potential stray electrical currents.
2. These FRP panels are termite- and rot-proof, and constructed with corrosion-resistant properties, making it an ideal solution for this outdoor application.
3. SecurEX® FRP panels are an anti-climb design that provides an additional layer of security.
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.