


## Case Study: Protecting Tree Roots with FRP Grating

**Location:** Urban walkway, New Zealand **Product:** FRP Micro Mesh Grating **Industry:** Public Infrastructure



Urban foot traffic was threatening the health of exposed tree roots in a high-use walkway. We supplied FRP micro mesh grating to provide a protective, non-slip surface that maintains pedestrian comfort while preserving the natural landscape. The installation provided long-term protection and access without disturbing the surrounding environment.

### Project Challenges

- The client required a solution to protect exposed tree roots from damage caused by frequent pedestrian traffic.
- The solution needed to maintain the walkway's appearance, comfort, and functionality, without compromising usability or aesthetics.

### Our Solution

- We supplied FRP micro mesh grating to act as an effective barrier between the tree roots and the pedestrian path.
- The grating's lightweight, strong, and flexible structure made it ideal for covering uneven surfaces and adapting to natural contours around the tree.
- With a 7 mm aperture and fine grit surface, the grating provided a non-slip, comfortable walking surface suitable for both bare feet and all types of footwear.
- The design helped keep the soil loose, prevent erosion, and could be custom-shaped to fit the specific size and layout of each tree.

### Outcome

- The use of FRP grating proved to be an effective solution for protecting tree roots.
- In this project, the FRP grating's durability, slip resistance, low maintenance, and corrosion resistance made it a strong and practical choice for the urban walkway setting.
- The installation preserved the natural landscape, reduced soil compaction, and delivered a safe, attractive, and long-lasting surface for pedestrians.
- The outcome reflects how infrastructure can be designed to support both safe access and the surrounding natural landscape.

*See photos of the completed solution on the next page.*

## Upgrading Access Without Compromise



Exposed tree roots created safety and maintenance concerns along the walkway.



Micro mesh installed to protect roots, prevent erosion, and provide a safe, non-slip surface.

### Project Summary

Location	Urban Walkway, New Zealand
Industry	Public Infrastructure
Product Supplied	FRP Micro Mesh Grating
Aperture Size	7 mm
Key Properties	Slip resistance, root protection, low maintenance
Scope	Supply and install coordination

**Need a smart solution to protect tree roots in high-traffic areas? Contact FRP Ltd for product advice, specification support, and custom-fit options for your project.**