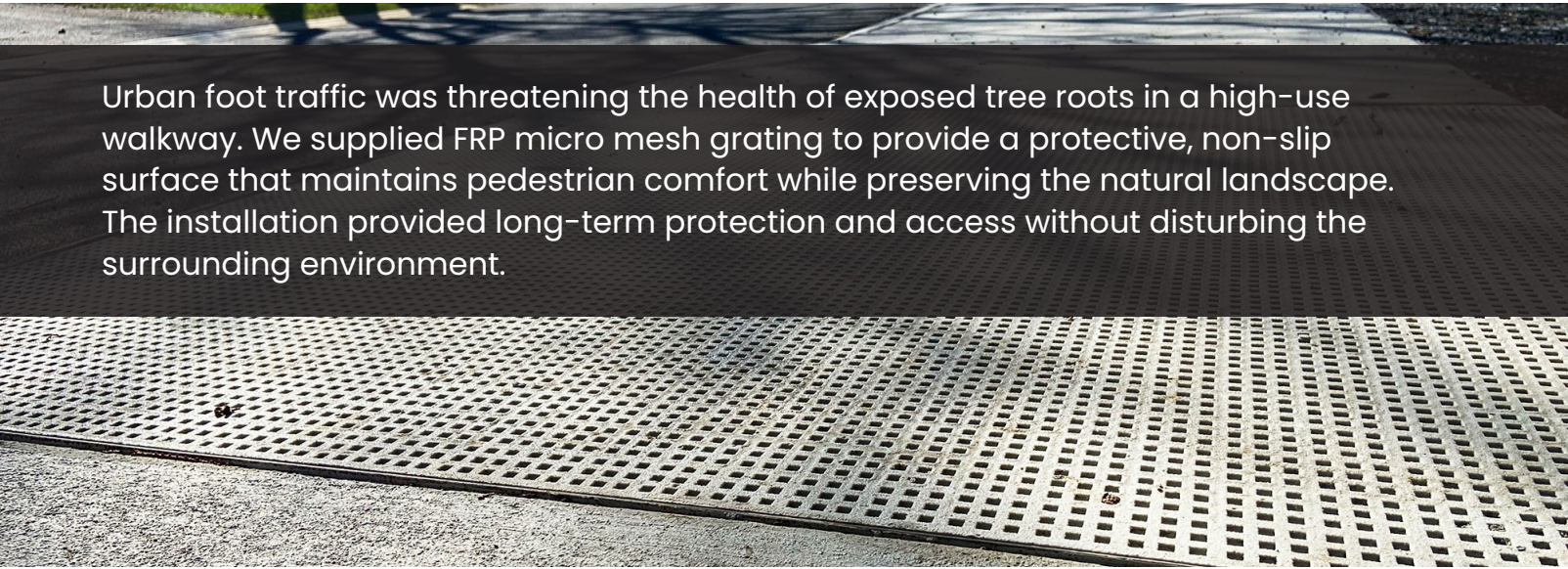


Case Study: Protecting Tree Roots with FRP Grating

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.