

Raising the Standard: Fast, Safe Access with FRP Pedestal Platform at Kwinana Chemical Plant

FRP Engineering delivered a custom-raised flooring solution using prefabricated FRP pedestals and grating — improving operator safety and reducing installation time in a complex industrial environment.

THE PROJECT

Project Category: Industrial Safety Infrastructure

Scope of Work: Design, supply, and installation of a raised FRP grating floor supported by pedestals to provide safe pedestrian access within a complex, pipe-filled environment.

Solution: FRP Engineering designed and installed a custom pedestal-supported FRP grating floor, prefabricated offsite to ensure rapid, safe, and cost-effective installation over complex pipework.

Project Challenges: The intricate network of pipework made traditional support frameworks difficult to implement, and the client required a quick turnaround to avoid operational disruptions.

THE SOLUTION:

To address the client's safety concerns and tight timeline, FRP Engineering proposed a custom FRP Pedestal System to elevate the grating floor above the hazardous ground-level pipework. This approach eliminated the need for a conventional beam framework, which would have been more time-consuming and complex due to the pipe layout. Our team carried out a detailed site survey and used precise measurements to prefabricate all grating offsite, ensuring a seamless and efficient installation with minimal on-site work required.

BEFORE FRP:



Hazardous banded area cluttered with exposed pipes and valves

AFTER FRP:



FRP pedestal-supported grating provides a safe, and elevated walkway



Precise offsite fabrication, quickly installed, minimising downtime and enhancing operational safety

THE FRP APPROACH:

Our experienced team conducted an in-depth site assessment to evaluate the best method of raising the platform while avoiding interference with existing infrastructure. By recommending the use of modular FRP pedestals, we were able to drastically reduce installation time and cost. Drawings were developed based on the site measurements to ensure all components were prefabricated to fit precisely, streamlining the onsite installation process.

THE FRP RESULT: FAST SAFE, EFFICIENT INSTALLATION WITH LONG-TERM SAFETY GAINS

Rapid Delivery

Full installation completed in just 2 days, minimising downtime.

No Hot Works

All components prefabricated offsite — no cutting or welding required onsite.

Enhanced Safety

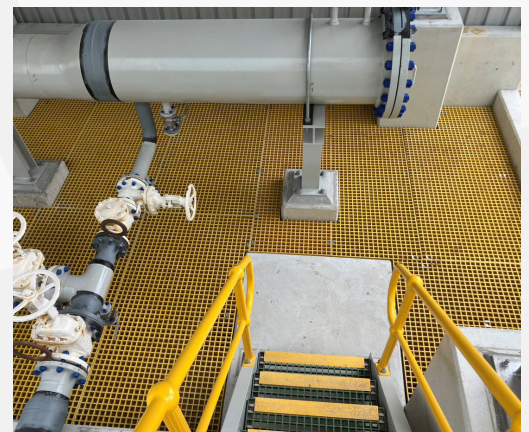
Operators now have clear, level access over previously hazardous pipework.

Smart Design

The FRP Pedestal system simplified the project and reduced overall cost.

Client Satisfaction

Positive feedback on both the process and outcome; ongoing collaboration now underway.



FRP PRODUCTS USED:

- FRP Pedestals – Provide elevated support without the need for complex substructures
- Moulded FRP Grating - Durable, corrosion-resistant flooring for safe access
- FRP Engineering's Expertise - Custom design, site measurement, prefabrication, and efficient project delivery

CONTACT US

For more information on our range, email us on enquiries@frpengineering.net or call us at (08) 9455 4343 to discover our range of safety work access platforms today.