FRP ENGINEERING

CASE STUDY

SAFE ROOFTOP ACCESS, ENGINEERED TO LAST

A custom FRP walkway system delivering safe, compliant and efficient access to critical HVAC infrastructure.

THE PROJECT

Project Category: Safe Rooftop HVAC Access and Walkway System

Scope of Work: Design, fabrication and installation of a compliant FRP walkway system to provide safe access to rooftop HVAC equipment.

Solution: A custom-engineered FRP access system utilising prefabricated FRP grating, pedestal supports and structural profiles.

Project Challenges: Integrating the new access system with multiple existing roof levels,

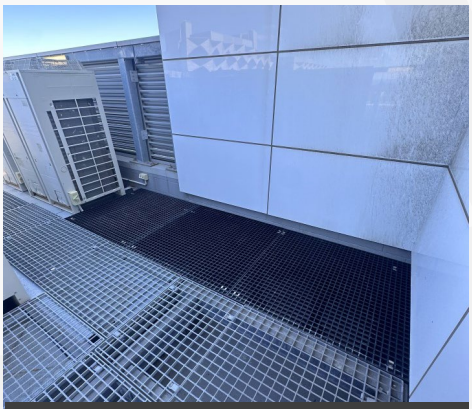
THE SOLUTION:

A major medical centre required a safe and practical access solution for the maintenance of rooftop HVAC equipment. The existing access route contained numerous voids and uneven transitions, creating potential safety risks for maintenance personnel. Following a detailed site assessment, FRP Engineering designed a custom FRP walkway system that integrated seamlessly with the existing rooftop structures. By utilising FRP pedestal supports

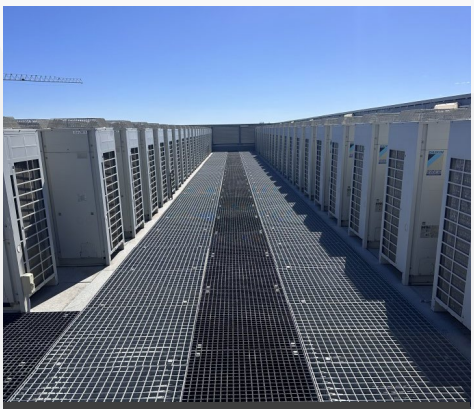
BEFORE FRP:

Safety Concerns | Restricted access

AFTER FRP:



Improved Access and Safety



Easy Installation and Cleanability

FRP ENGINEERING

Safe Rooftop HVAC Access and Walkway

CASE STUDY

THE FRP APPROACH:

Site Assessment & Design

Site inspection, detailed measurements and custom engineering drawings developed to suit existing structures, access requirements and AS 1657 compliance.

Offsite Fabrication

FRP grating, supports and structural components prefabricated to minimise onsite cutting, disruption and installation time.

Installation

Prefabricated components and FRP pedestal supports installed over three days, ensuring an efficient installation process.

Final Inspection & Handover

Completed system inspected to verify safety, compliance and operational requirements.

THE FRP RESULT

Improved Safety

Hazardous rooftop voids were eliminated, significantly reducing the risk of slips, trips and falls.

Faster Installation

Prefabricated components enabled the entire installation to be completed within three days.

Minimal Disruption

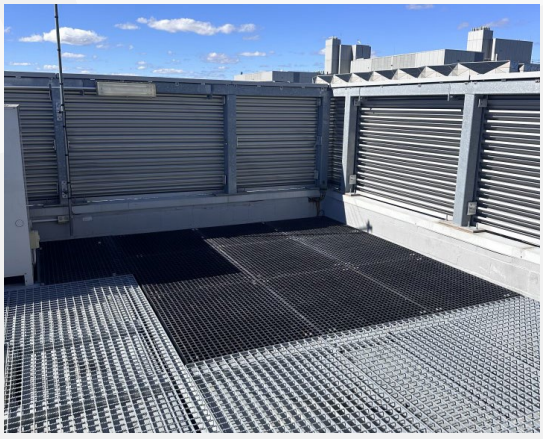
Works were completed without impacting hospital operations or HVAC services.

Improved Maintenance Access

Maintenance teams can now safely and efficiently access rooftop HVAC equipment.

Long-Term Durability

Corrosion-resistant FRP materials provide a low-maintenance solution designed for long service life.



FRP PRODUCTS USED:

- 38mm ISOFR FRP Grating
- FRP Pedestal Supports
- FRP Structural Profiles
- FRP Handrail System
- FRP Fixings and Connectors
- Custom Fabricated FRP Components

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 today!