

COOLING TOWER ACCESS PLATFORM CASE STUDY

Tailor made FRP solutions for
an array of industries since 2004



STAIRCAREFRP
COMPOSITE DESIGN & FABRICATION

CASE STUDY:

ENHANCING COOLING TOWER ACCESS FOR COLES INDUSTRIES WITH ADVANCED FRP SOLUTIONS

- **Client:** Coles Industries
- **Project:** Design and Fabrication of FRP Ladder, Platform, and Walkway for Cooling Tower Access

PROJECT CHALLENGE

Coles Industries sought to upgrade their cooling tower access infrastructure, focusing on improving safety and durability. The existing system was outdated and prone to corrosion, necessitating a replacement with a more robust and maintenance-free solution.

SOLUTION PROVIDED BY STAIRCARE AUSTRALIA PTY LTD

Staircare Australia Pty Ltd was engaged to design and fabricate a complete FRP (Fibre Reinforced Polymer) access system, 4 Meters high, including a ladder, platform, and walkway. Our approach included:

1. DESIGN AND ENGINEERING:

- **CUSTOM FRP LADDER:**

Designed to be lightweight yet strong, providing reliable access while resisting environmental wear.

- **FRP PLATFORM:**

Engineered to offer stable support and exceptional durability, suitable for handling heavy loads and harsh conditions (4 m height).

- **FRP WALKWAY:**

Created to integrate seamlessly with existing structures, offering a secure, non-slip surface for maintenance activities.

2. MATERIALS AND MANUFACTURING:

- **PULTRUDED FRP:**

Selected for its cost-effectiveness, high strength, and lightweight nature. The corrosion-resistant properties of FRP made it ideal for the cooling tower environment.

- **CONSOLIDATION OF PARTS:**

Designed for efficient assembly, reducing installation time and streamlining the process.

3. COMPLIANCE AND QUALITY ASSURANCE:

- **STANDARDS COMPLIANCE:**

All components were designed to meet rigorous Australian and international safety standards.

- **QUALITY CONTROL:**

Each component underwent thorough testing, both in-house and by external professionals, to ensure reliability and performance.



KEY BENEFITS

■ CORROSION AND ROT RESISTANCE:

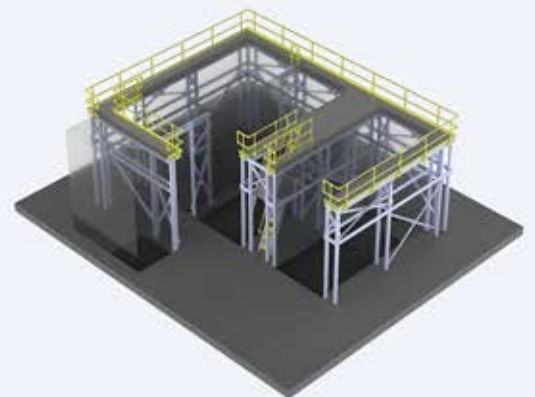
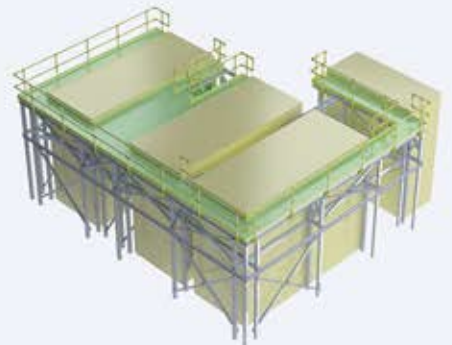
The FRP materials provide long-term protection against environmental damage, reducing maintenance needs and extending the system's lifespan.

■ DESIGN INNOVATION:

Custom-designed FRP components allow for quick field assembly and integration, enhancing operational efficiency.

■ EASE OF INSTALLATION:

Modular design and pre-fabrication facilitate rapid installation with minimal disruption to ongoing operations.

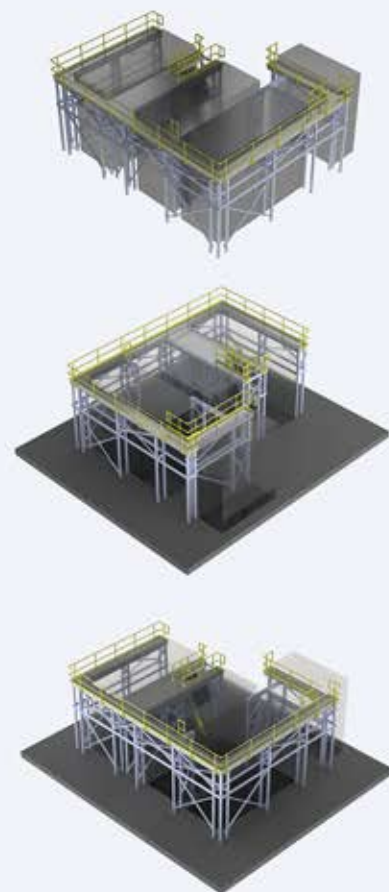


CONCLUSION

Staircare Australia Pty Ltd successfully delivered a state-of-the-art FRP ladder, platform, and walkway for Coles Industries' cooling tower access system. Our advanced FRP solutions not only met but exceeded expectations in terms of safety, performance, and durability.




STAIRCARE SC-R™



We are committed to providing high-quality, innovative solutions tailored to our clients' needs.

For more information about our FRP products and services, please contact us:

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