

The Power of **ProScaf**

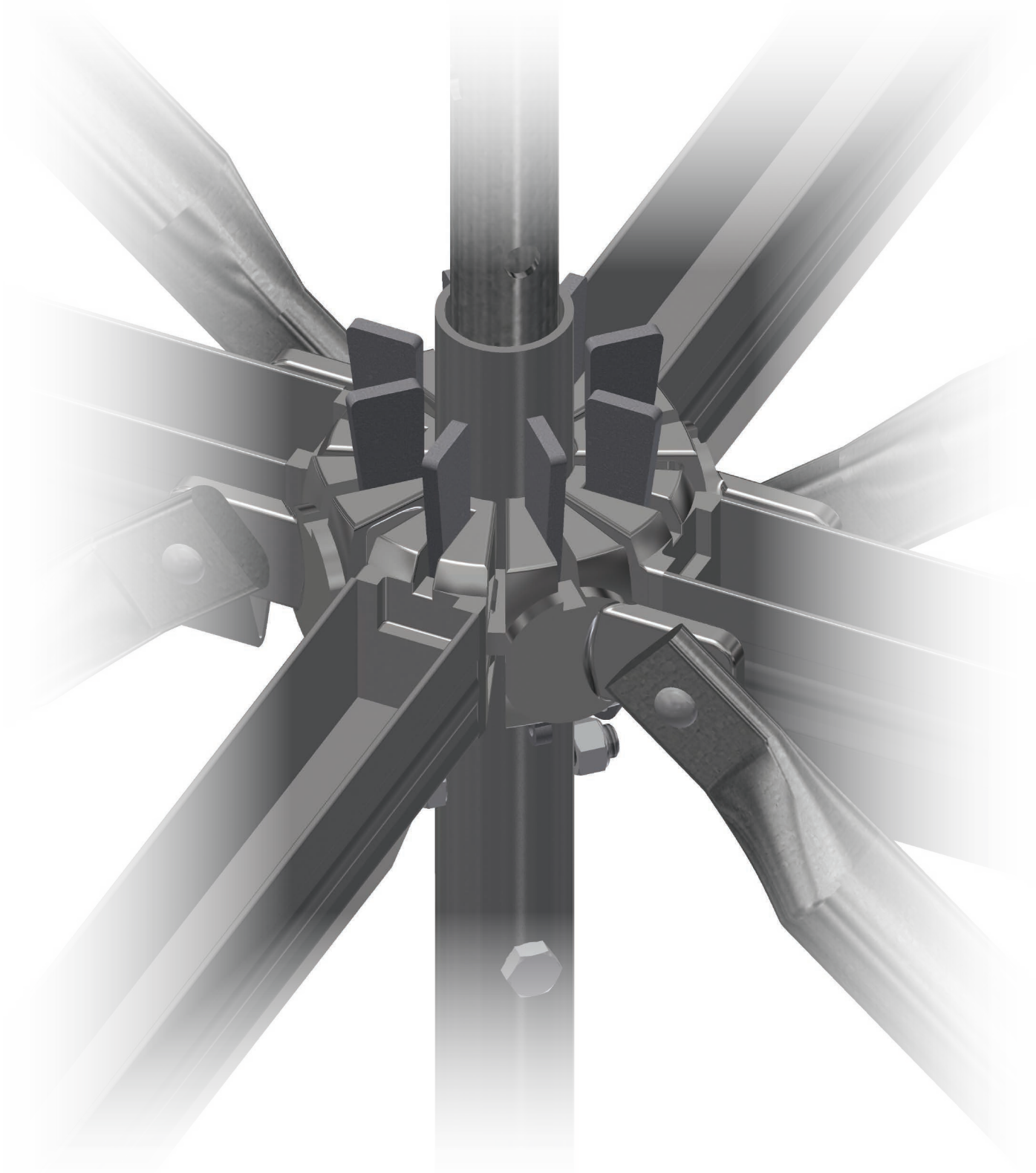
Edition 4 | proscaf.com



A Better Way

One System, Many Components, Manufactured Under One Roof, Proven Worldwide.

Build with confidence in any direction, starting from the 8-point rosette connection.

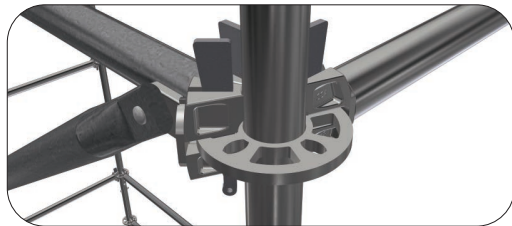


The ProScaf Secret

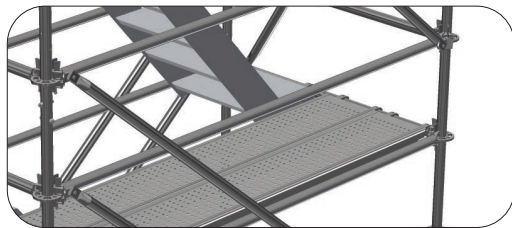
Designed and engineered by **SafeSmart** in Australia and New Zealand, ProScaf was developed with a clear vision: to create the safest, most efficient, and highest quality scaffold system available.

As a result, the system took shape with key characteristics, including:

Positive locking rosette connection: The tested and rated locking connection between vertical components (such as standards) and horizontal components (including braces, transoms and ledgers) allows for the safe design and construction of large, hanging, and craneable structures, with weight ratings exceeding heavy-duty standards.



High load-bearing braces: The ProScaf diagonal braces, which lock scaffold bays together both vertically and horizontally, are designed to handle substantial compression and tension loads. As a result, fewer braces are needed in structures compared to other scaffolding systems.



Lift-off locks: These components lock planks in place to prevent wind lift-off, making them crucial in high-wind or cyclone-risk areas where the risk of component dislodgement is higher.



High-grade steel construction: Steel batches are inspected by ProScaf engineers before moving into production. Product batch stamping enables material tracking to raw material certifications, ensuring product consistency and allowing ProScaf to achieve the high load-bearing capacity it's renowned for.



World-leading galvanising procedure and coating: Essential for product longevity, particularly in harsh industrial environments, the ProScaf galvanising process ensures the most consistent and thickest coating of any scaffold system available.



Today, ProScaf is manufactured in our **ISO9001** certified factory and distributed worldwide.



Complies with
BS EN ISO 9001



A Better Way

One System for all Solutions.

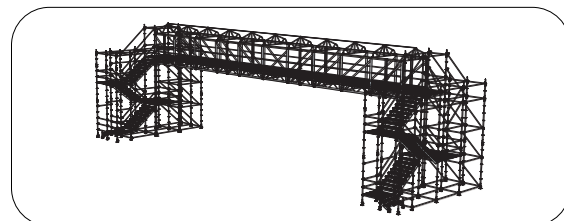
ProScaf is an all-in-one solution. With no additional components required beyond the ProScaf system, complex scaffold structures such as hanging, cantilevered, bridging, and propping scaffolds can be built.

This provides ultimate flexibility for scaffolders onsite. Anything can be built utilising standard ProScaf components. **The sky's the limit.**

In addition to the ProScaf system components, SafeSmart also manufactures complementary ProScaf ranges that seamlessly integrate with the ProScaf system.

ProSpan

For long span bridging, ProSpan achieves spans of 30m+ at 5kPa, or even longer spans at lower loadings.



SmartRoof

Designed for encapsulation and weather protection, SmartRoof is fitted to the top of ProScaf structures and features integral keder tracks for speed and ease of use.



ProPanel

For neat encapsulation of ProScaf structures.



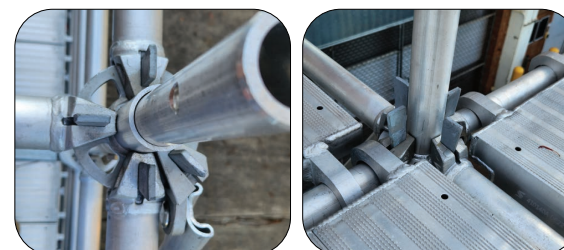
SwiftStage

The ProScaf staging system, SwiftStage enables the rapid creation of large, open stages with a neat and professional finish. It seamlessly integrates with ProScaf public access components.



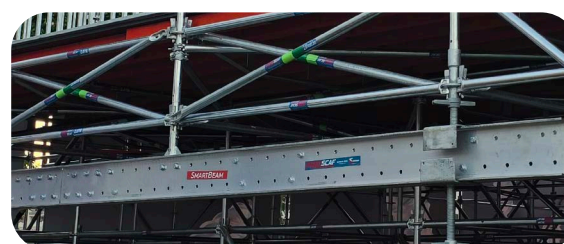
ProScaf Aluminium

Design flexibility and lightweight construction. Ideal for projects that require the unique ProScaf advantage, combined with the lightness and installation efficiency that aluminium offers.



SmartBeam

Aluminium SmartBeam delivers high shear capacity for long spans, with a modular design for tight spaces and versatile attachments.



Engineering Support

Extensive technical data is available for individual ProScaf components. This data is used in structure design to verify installation capacities. Stress points in ProScaf structures are quickly identified through engineering analysis of the design, which involves assessing the individual components that make up the structure.

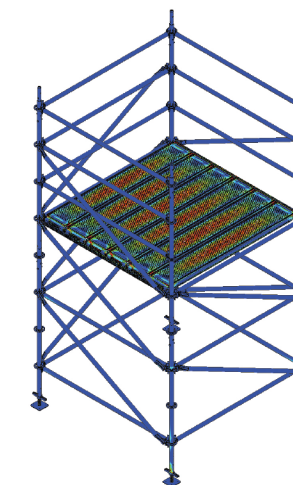
As a ProScaf user, your design team will receive a **Technical Data Package** that includes:

- 2D and 3D ProScaf CAD block packages
- ProScaf Technical Data Manual
- ProScaf Design and Installation Methodology Guidelines

In addition, our in-house ProScaf design team is available to support your design and engineering requirements on ProScaf projects. Drawing on both our engineering expertise and extensive practical experience, we ensure that every design is optimised for:

- Safety
- Buildability
- Equipment efficiency and utilisation for future requirements
- Design viability

Accreditation



The Engineering team does not release concept designs until they have undergone a rigorous and thorough engineering review. This approach streamlines the approval process and eliminates inconsistencies that can arise when drafting and engineering teams operate as separate departments.

3D Design Concept



Final Outcome



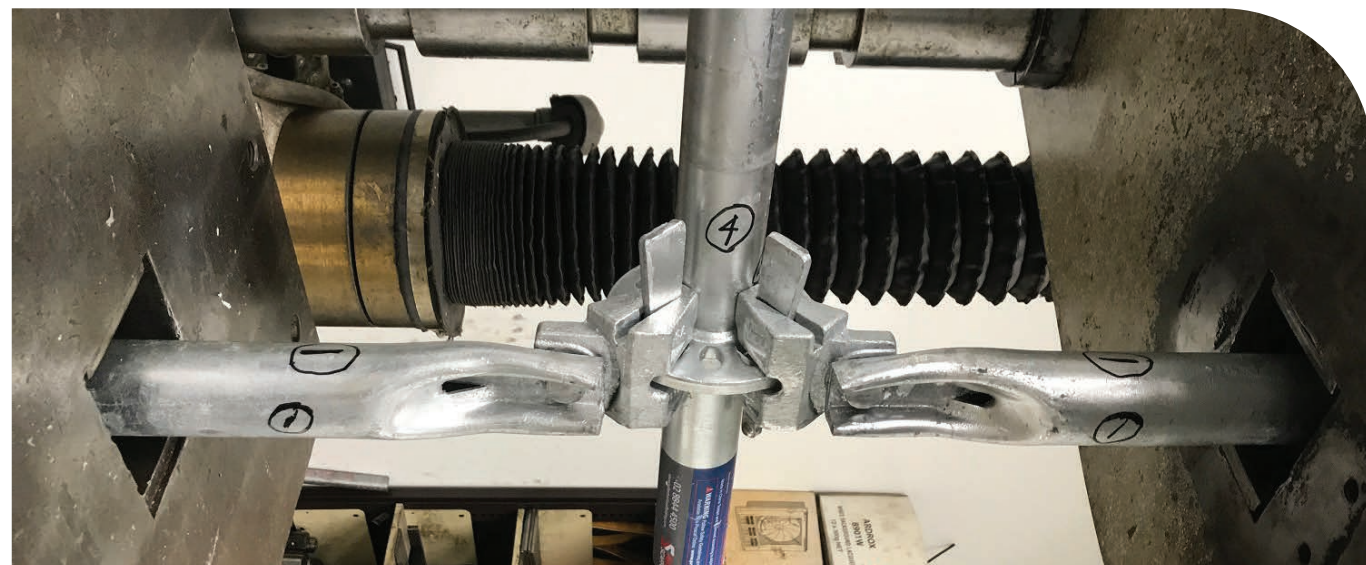
Quality & Engineering

The ProScaf quality and engineering procedures are managed by two departments that collaborate to ensure the highest levels of quality and consistency: **Product Engineering**, and **Factory Quality Assurance**.

Product Engineering: This team controls all technical data relating to ProScaf components and material specifications. This information is used by the Factory QA department to maintain consistency and quality during manufacturing.

Factory Quality Assurance: All ProScaf manufactured products are controlled by the factory QA team. This includes material testing and approval, manufacture/welding inspections, galvanising tests, and batch marking and stamping upon completion.

In addition to this process, a program of individual component testing is conducted in collaboration with independent testing agencies to verify component consistency and strength. This data is also used in engineering calculations essential for the ProScaf technical data sheets for each component.



ProScaf products are batch stamped as part of the quality control process for traceability and identification as genuine ProScaf components.



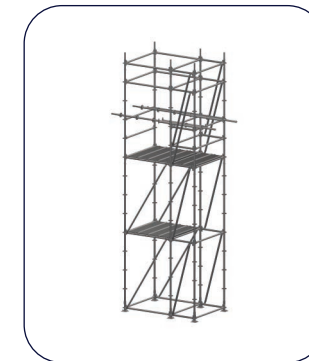
Traceability

A: 3 digits: item 'group' code.
B: 3 digits: item length.
C: 4 digits: batch code for traceability.

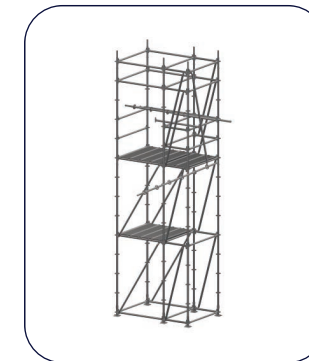
Build Methodology Snapshot

Continuous Cantilever Bays

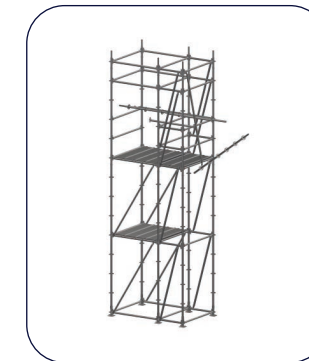
Below is a ProScaf methodology example demonstrating how a cantilevered scaffold (classified as an advanced scaffold) can be constructed from a safe, guard railed position. This approach eliminates the risk of falls and minimises labour.



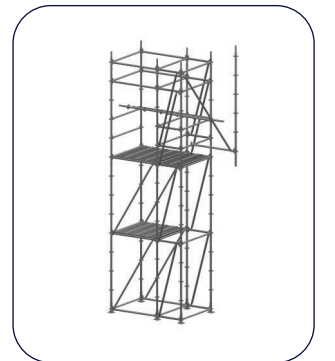
Step 1: Pre-assembly of ledger, diagonal brace and standard on the scaffold tip: temporarily tie ledger and diagonal brace.



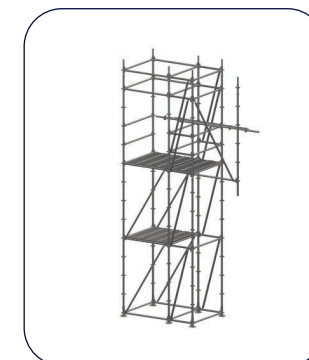
Step 2: Move pre-assembled parts to outside of work platform.



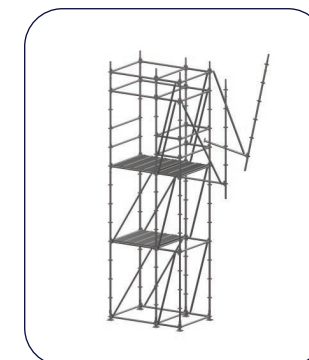
Step 3: Connect diagonal brace to the utmost rosette of the main scaffold structure.



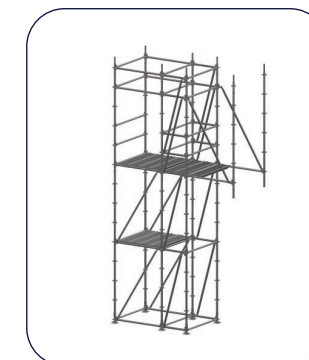
Step 4: Remove tie and push pre-assembled cantilever/spur needle to the outside of the scaffold.



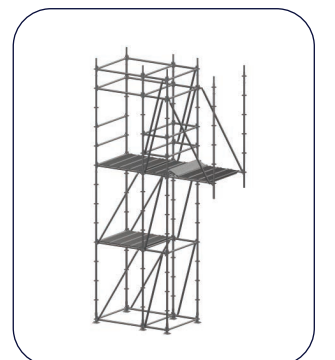
Step 5: Connect wedge head of ledger to the rosette of main scaffolding.



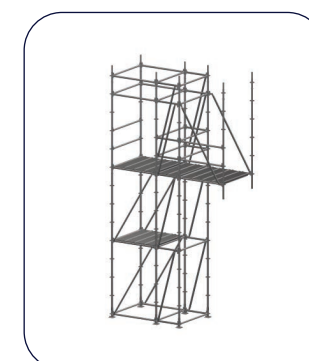
Step 6: Repeat steps 1 to 5 for second cantilever/spur needle.



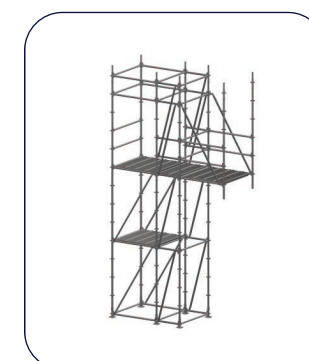
Step 7: From behind the guardrail, place steel plank on the cantilevered ledgers.



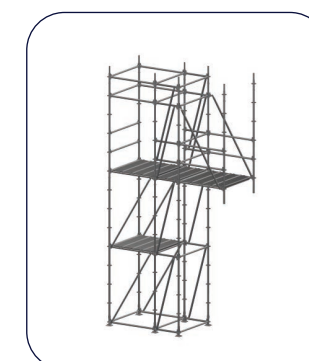
Step 8: Continue to add and push out steel planks along ledger to fill cantilevered bay.



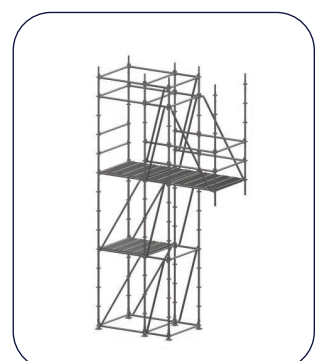
Step 9: Install guardrail and midrail to cantilevered bay from behind guardrail of main scaffold.



Step 10: Hammer home pins in ledger connections to the rosette.



Step 11: Install intermediate putlog as the advanced guardrail solution and remove guardrails on end of main scaffold structure.



Step 12: Scaffolder walks out to end of cantilevered bay behind advanced guardrail and installs guardrail and mid rail at outer standards.

Step 13: Complete the cantilevered bay with double bracing, ledgers and transoms. Repeat steps 1 - 13 to form the roof truss modules.

Effortlessly Simple. Infinitely Versatile.

Page 7



A Better Way

Page 6

Introduction

ProScaf Steel

ProScaf Aluminium

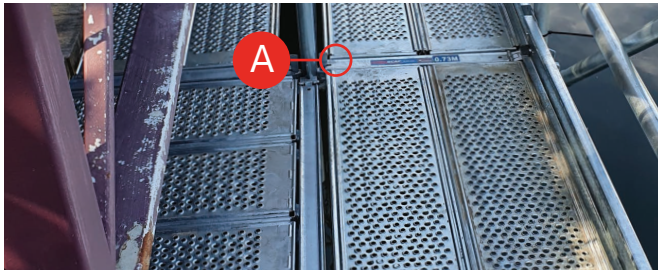
On any scaffold structure, it is crucial to ensure that the working platform remains level, without undue variations in height, and is as flush as possible with the work area.

ProScaf offers a range of proprietary system components designed to efficiently eliminate or minimise gaps in the scaffold.

Lift-off Locks

Creates a flush transition over the transom from plank to plank.

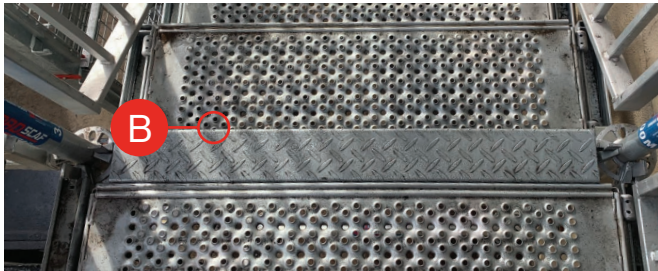
Item	Description
A	Lift-off Lock



Gap Cover Ledgers

Used at the base of a stair riser, this component continues the landing beneath the step above.

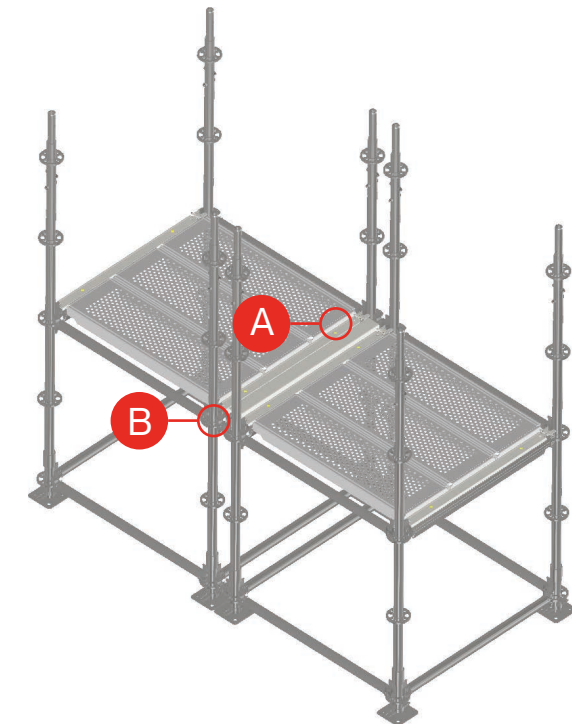
Item	Description
B	Gap Cover Ledger



Gap Cover Channel

This channel is a useful component for creating a flat working deck where 2 legs are connected in parallel, vertically.

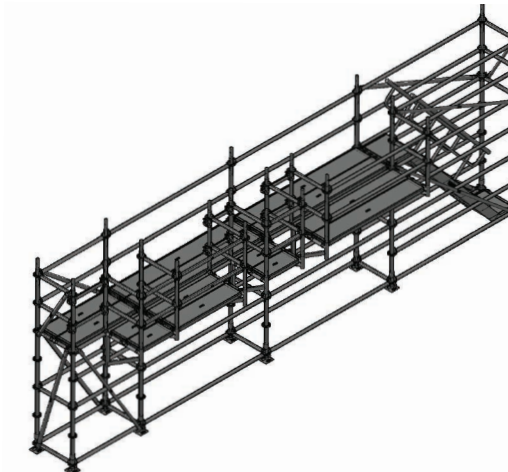
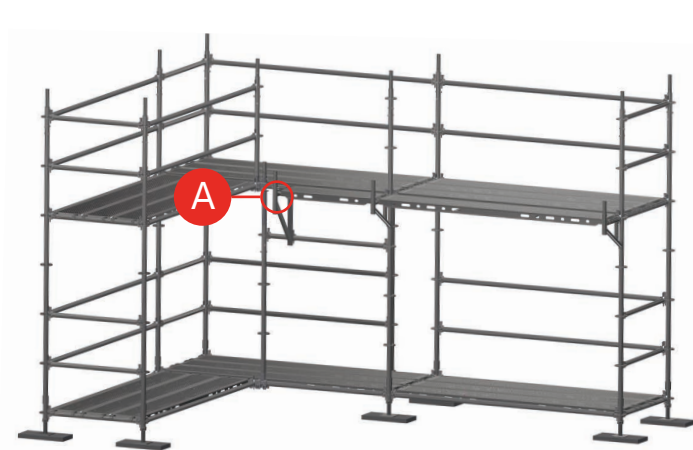
Item	Description
A	Gap Cover Channel
B	Twin Wedge Coupler



Intermediate Hop Ups

They provide a similar function to Deck-to-Deck Transoms and are used when there are protrusions through the face of a scaffold, where hop-ups are typically used.

Item	Description
A	Intermediate Hop up Tubular

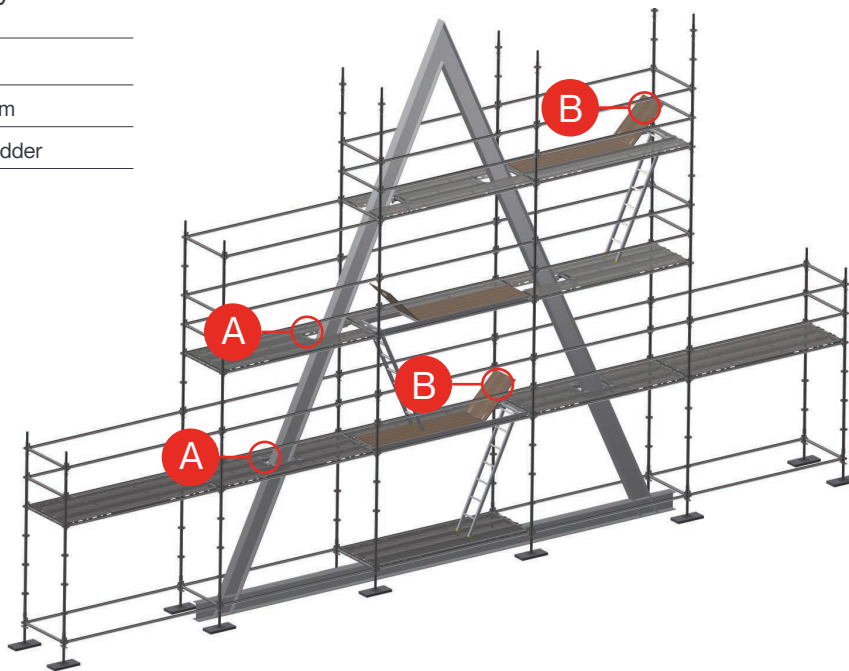


Deck to Deck & Deck to Ledger Transoms

Used where structures protrude through the scaffold platform, these components provide a flush, safe and tidy deck, eliminating trip hazards and the need for timber or steel lap planks.

*Note: Toe Boards omitted for clarity.

Item	Description
A	Deck-to-Deck Transom
B	Hatch with Integrated Ladder



Compliance & Project Support

When undertaking complex scaffolding projects, it's essential to have clear, comprehensive documentation to ensure safety risks are minimised and correct procedures are followed.

That's why ProScaf is supported by a comprehensive package of guideline documents for various applications.

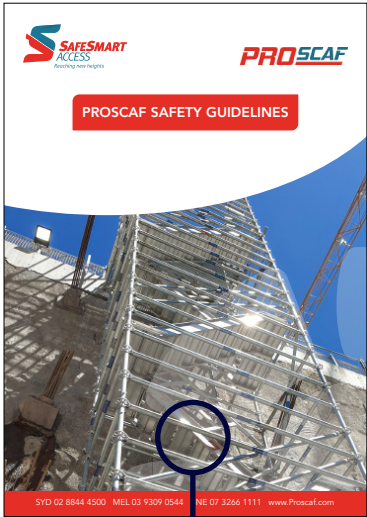
Along with the Technical Data and CAD package, these guidelines serve as valuable tools to support scaffold design and streamline scaffold building methodologies.

These include the booklets below and more:

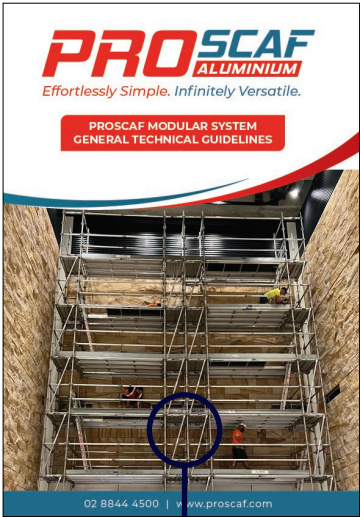
ProScaf Installation Methodology



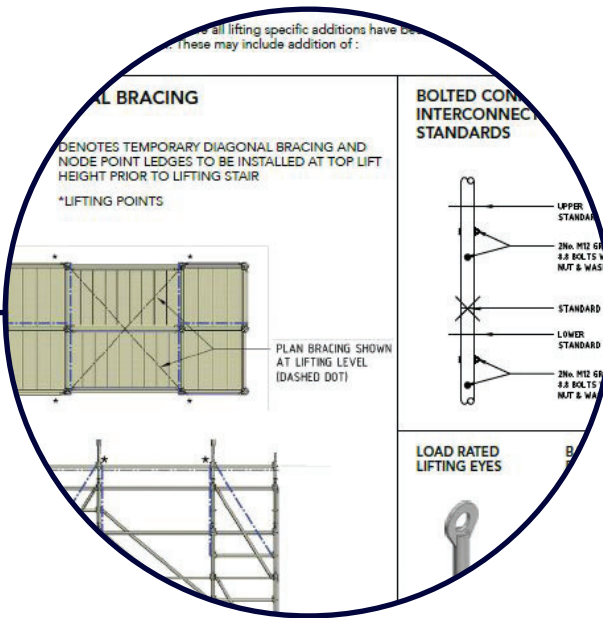
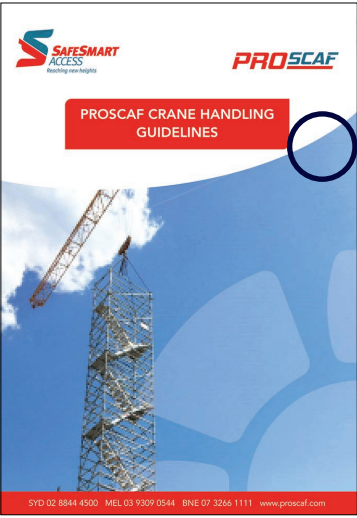
ProScaf Safety Guidelines



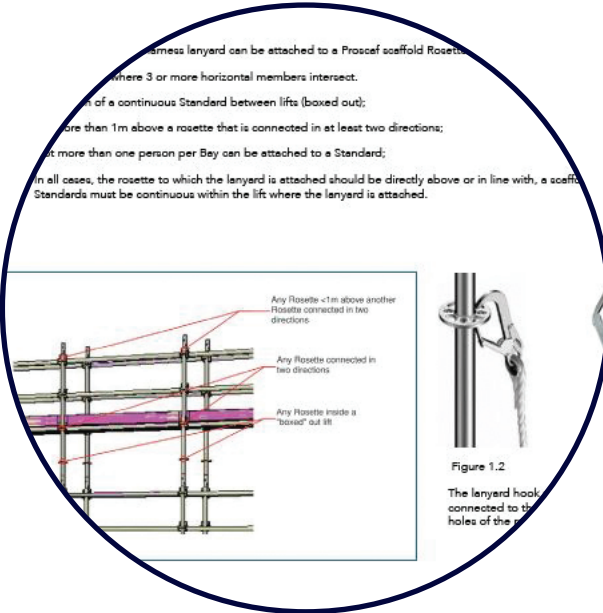
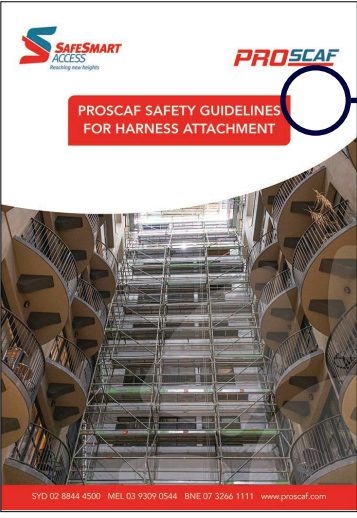
ProScaf Aluminium Modular Guidelines



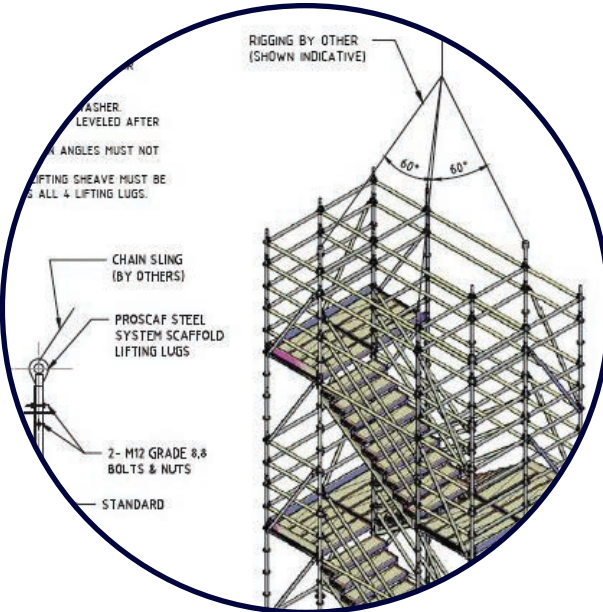
ProScaf Guidelines for Crane Handling:



ProScaf Guidelines for Harness Attachment:



ProScaf Craneable Tower Design Methodology:





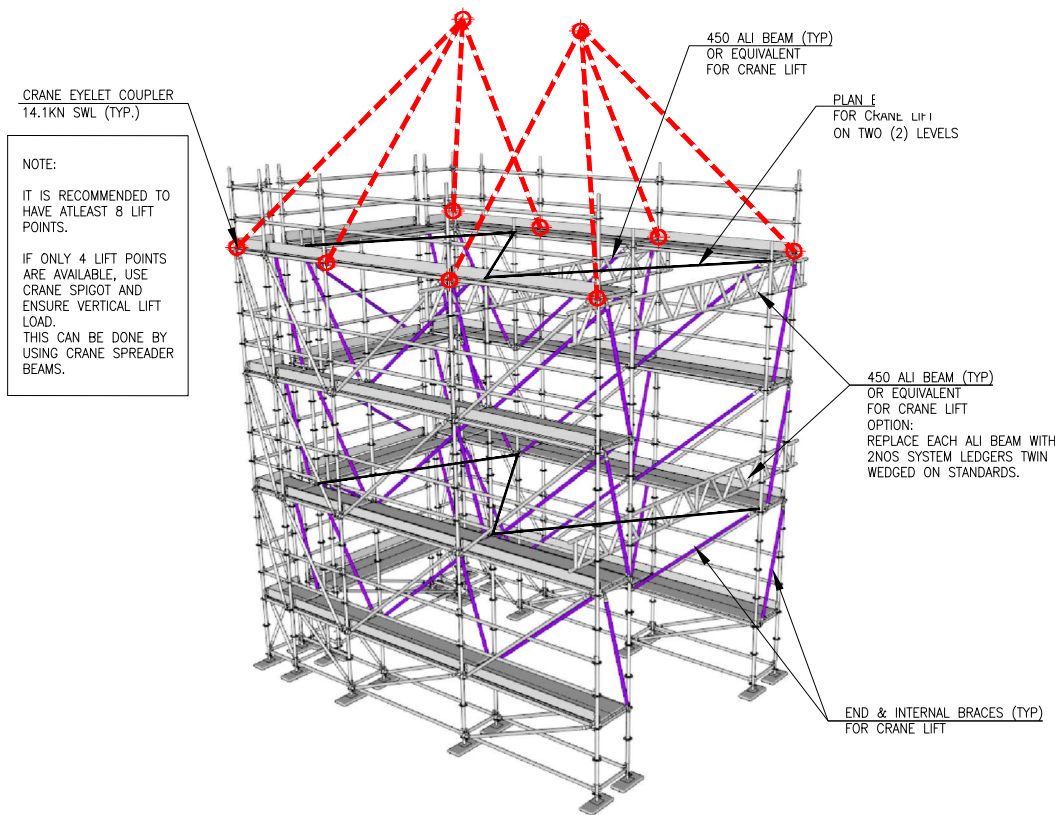
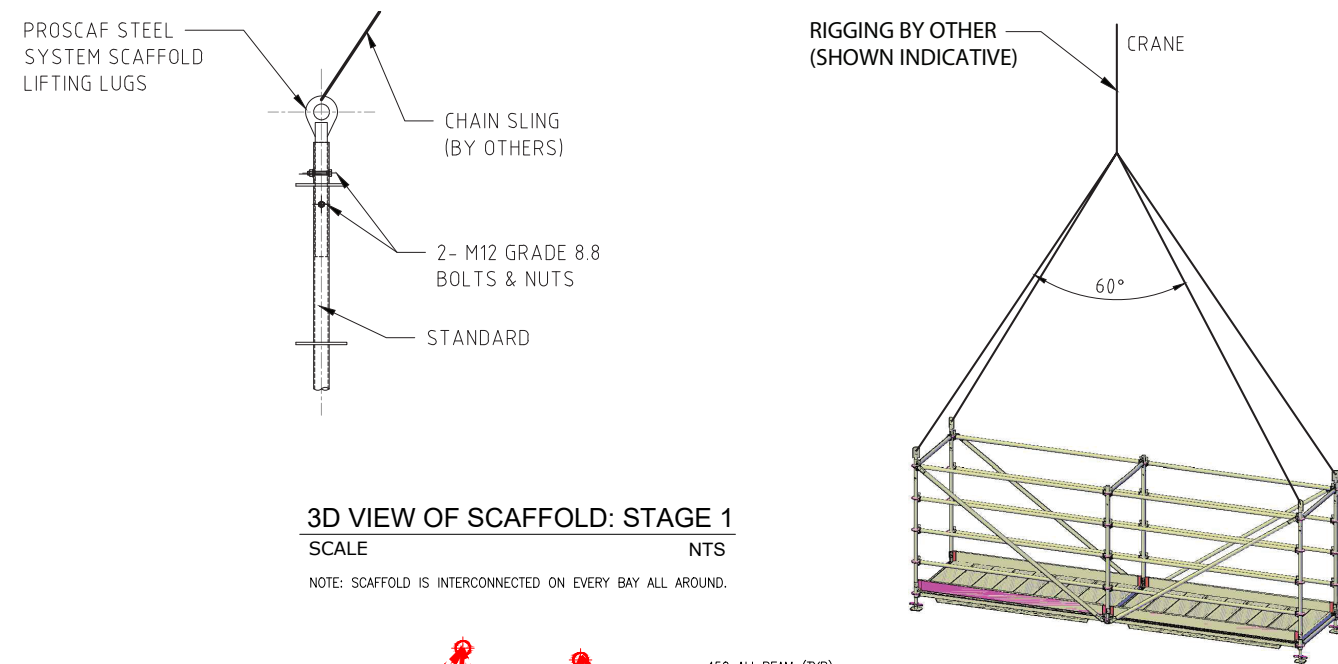
*Pro*Scaf Steel

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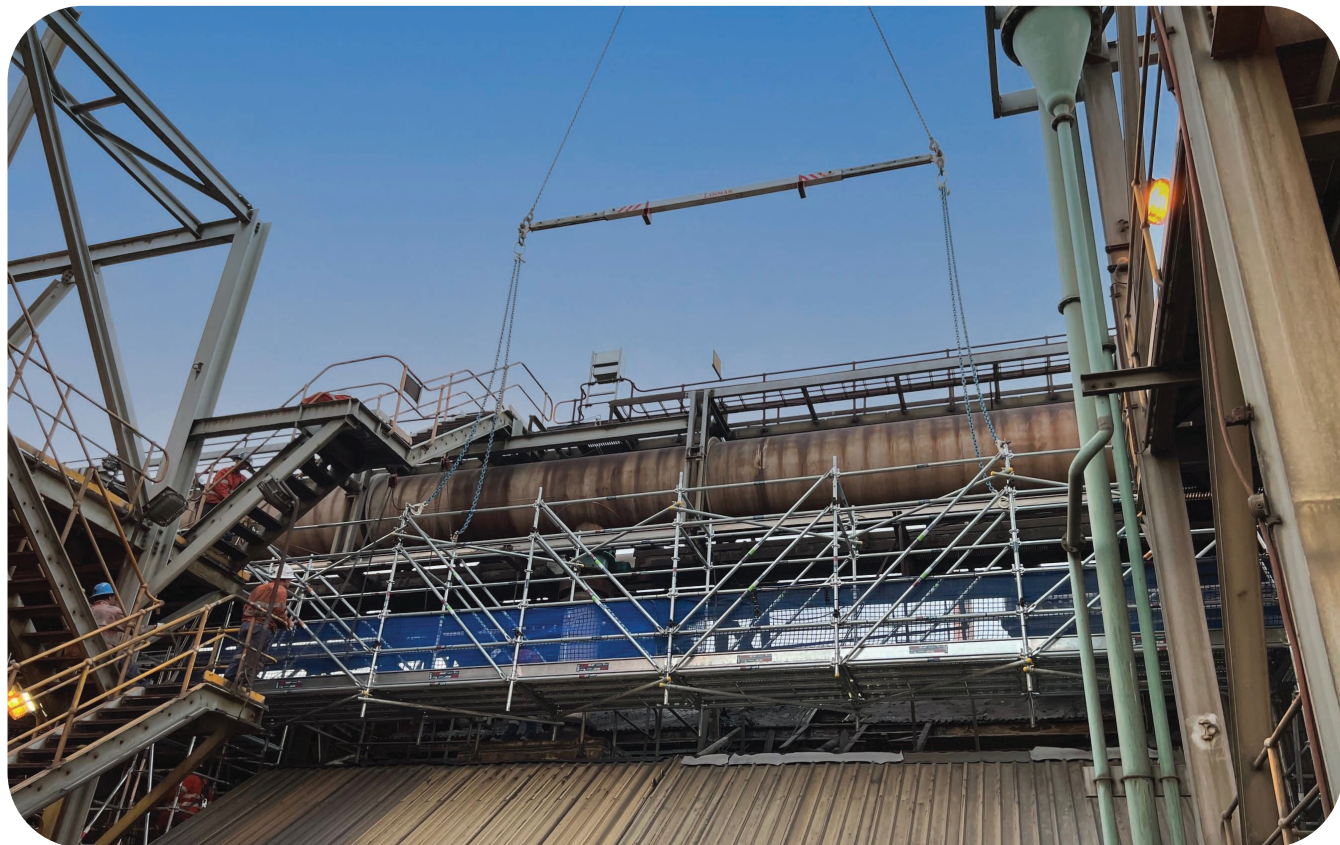
The locking properties of ProScaf makes it the ideal system to use for creating craneable or suspended structures. Component load rating data, such as the hanging capacity of the legs and tension on the ledgers and braces, are used to verify the integrity of craneable or hanging structures.

Below are some examples showing how ProScaf structures can be lifted. Contact SafeSmart for technical data on lifting components and guidance on lifting ProScaf structures.



3D VIEW OF SCAFFOLD: STAGE 2 CRANEABLE MODULE

SCALE NTS





Suspended/Cantilevered Scaffolds

- ProScaf's double-bolt standards, combined with load-bearing braces and node-to-node connections, support large, suspended scaffold structures without extra materials or splicing.
- Load-bearing braces enable safe, progressive installation of cantilevered or suspended bays behind work decks or handrails.
- Higher-capacity components allow larger cantilevered spans without relying on non-system supports.
- Rated harness attachment points provide added user safety.
- All scaffolds are crane-liftable by design, allowing modules to be built at ground level and lifted into place, reducing costs and minimising the risks of working at height.



Supported Entirely from Wedge Head Wall Plates

Suspended/Cantilevered Scaffolds

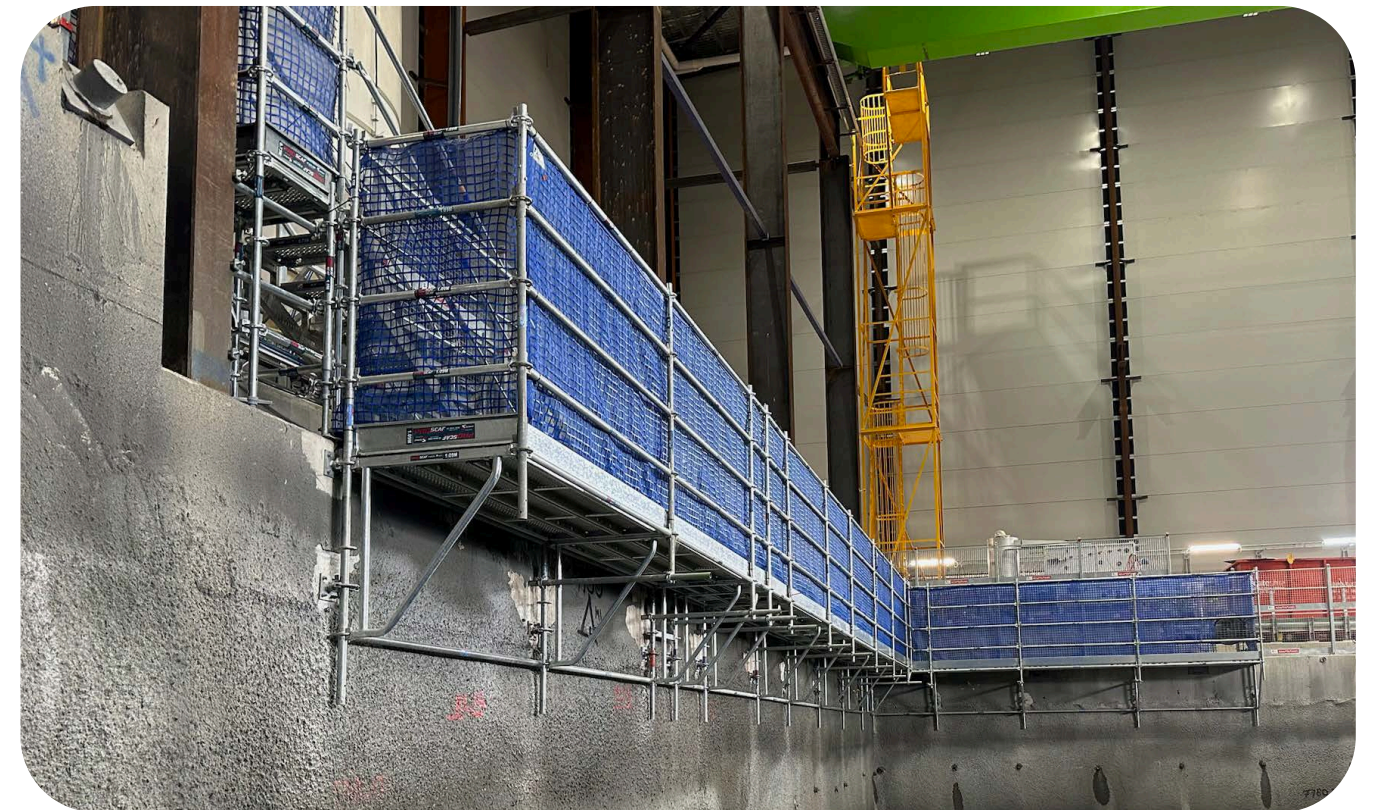
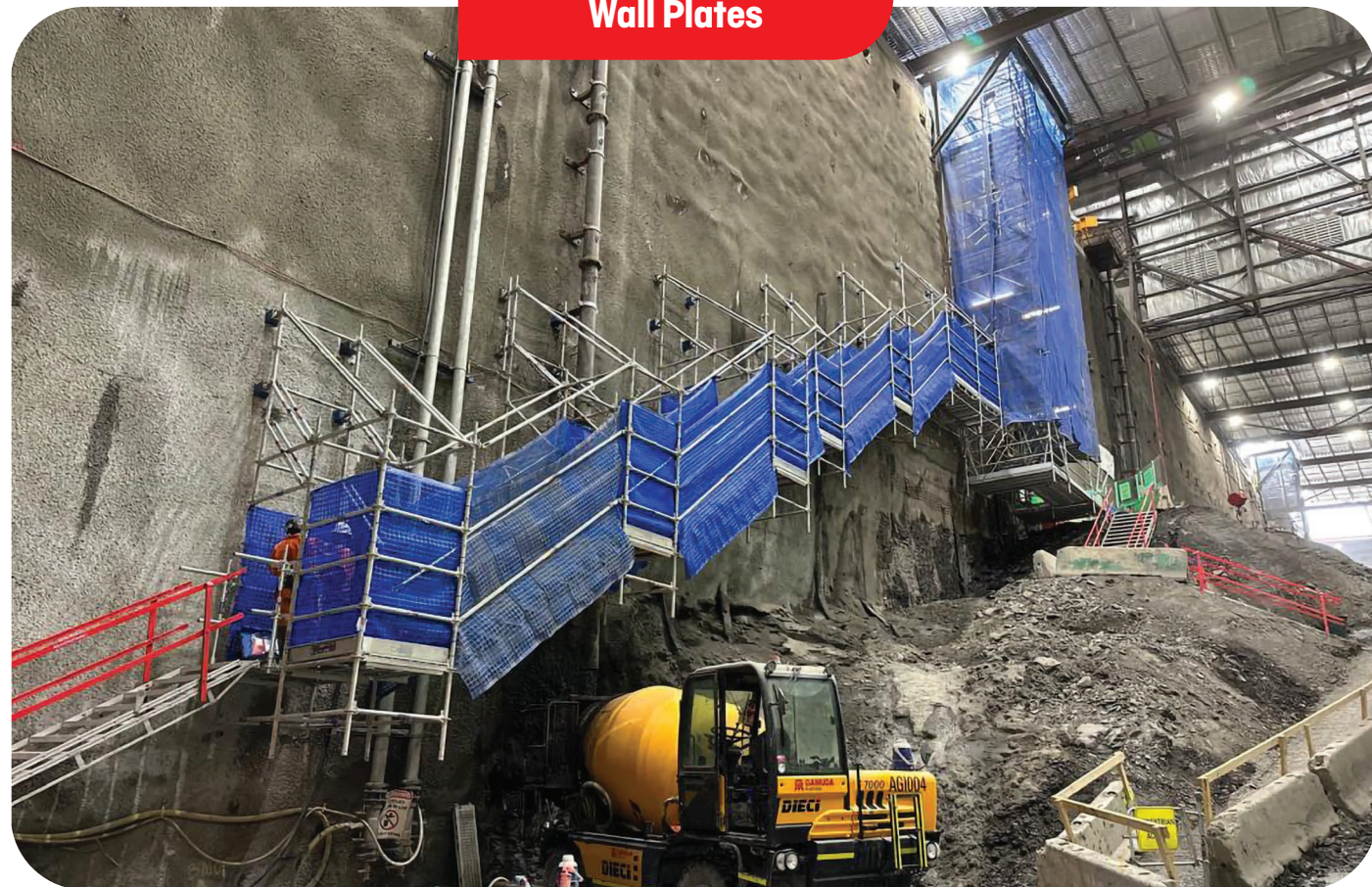


**Aluminium Outboard
and Steel Inboard**





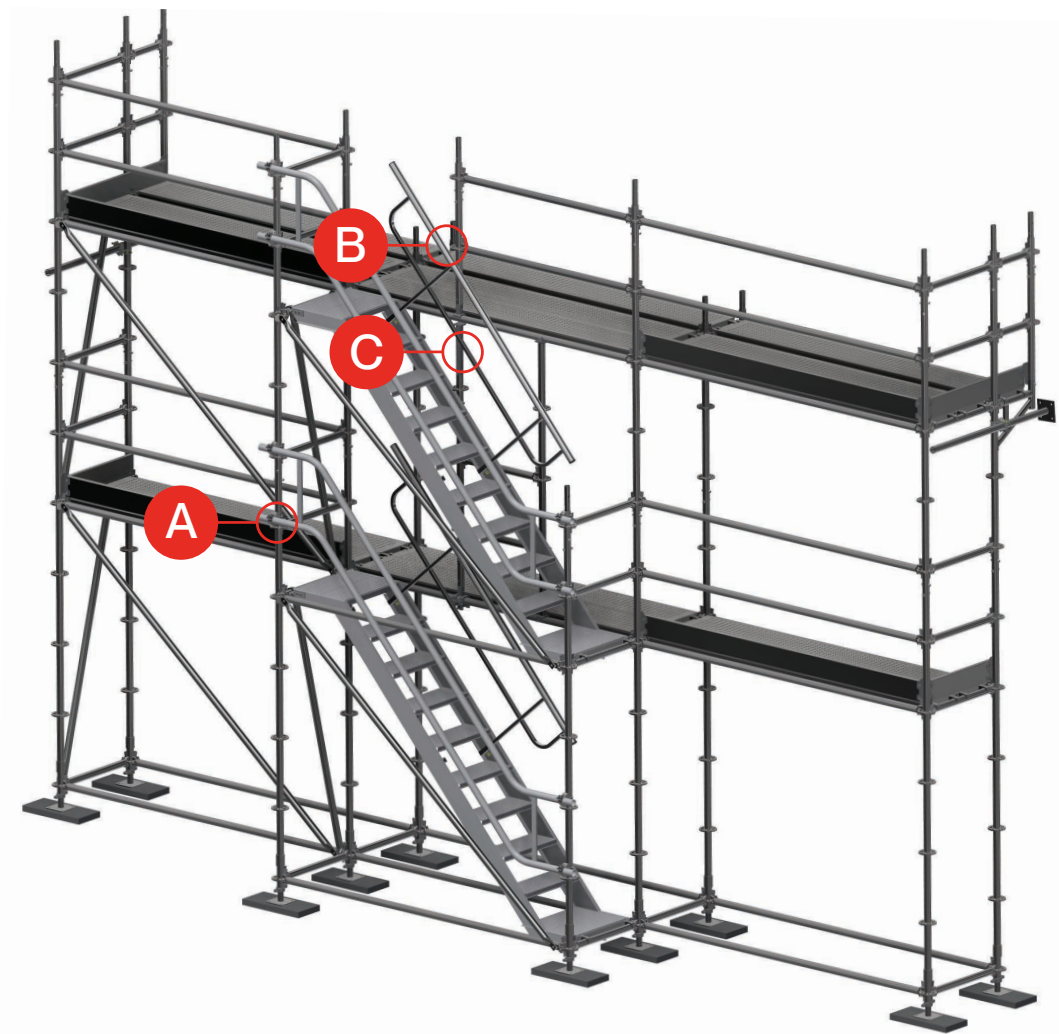
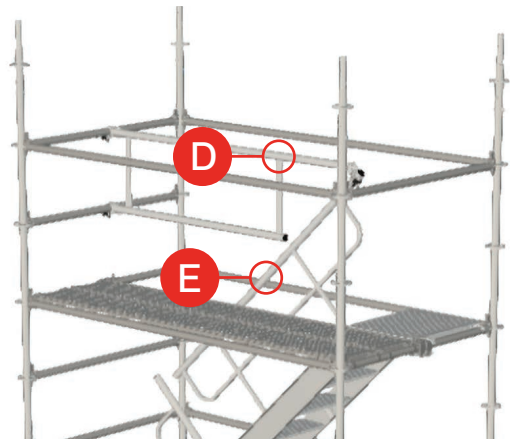
**Utilising Wedge Head
Wall Plates**



Construction Stair Towers

- 2m lift heights ensure access levels align with working platform heights in typical building structures.
- Stairs are fully craneable using only ProScaf proprietary components.
- 2m lift heights allow stairs to be installed parallel to the working deck, reducing footprint and maximising configuration flexibility.
- Lift-off prevention devices guard against accidental or wind load-induced lift-off.
- Lightweight, robust aluminium construction features ridged, slip-resistant step treads for safety in all conditions.

Item	Description
A	Aluminium Z-Stair External Handrail
B	Aluminium Z-Stair Internal Handrail
C	Intermediate Connector Standard
D	Aluminium Z-Stair Landing Guardrail
E	Aluminium Z-Stair Internal Handrail

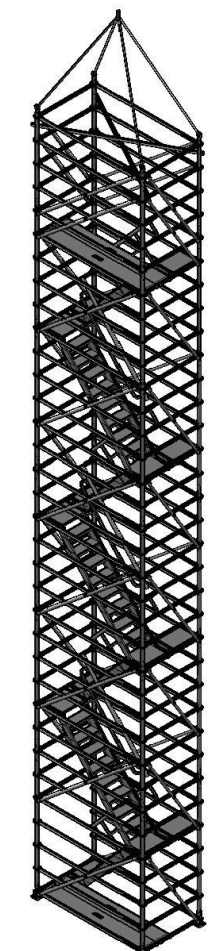


Construction Stair Towers



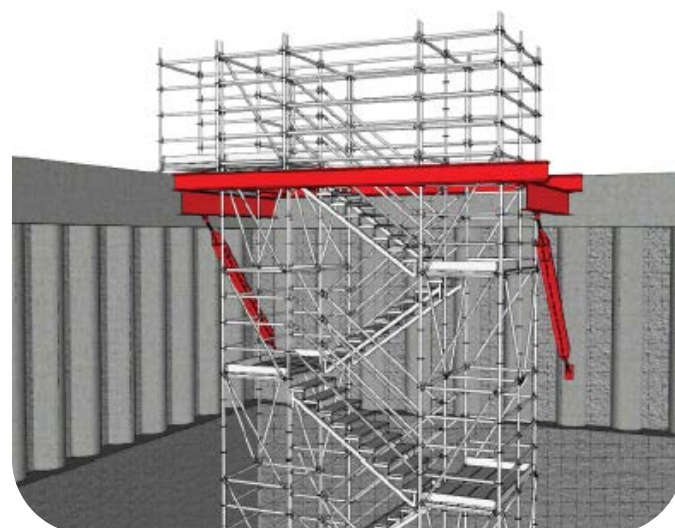
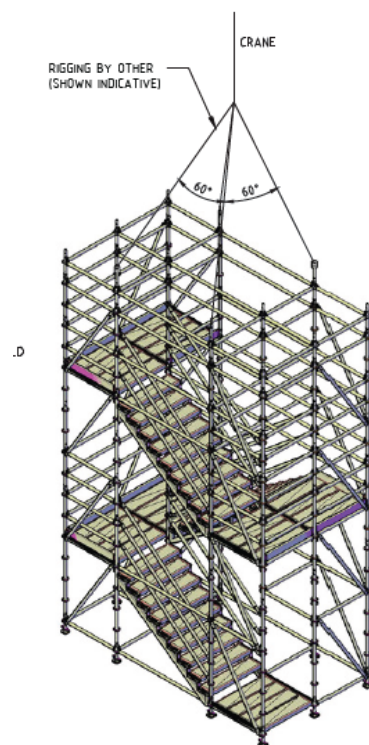
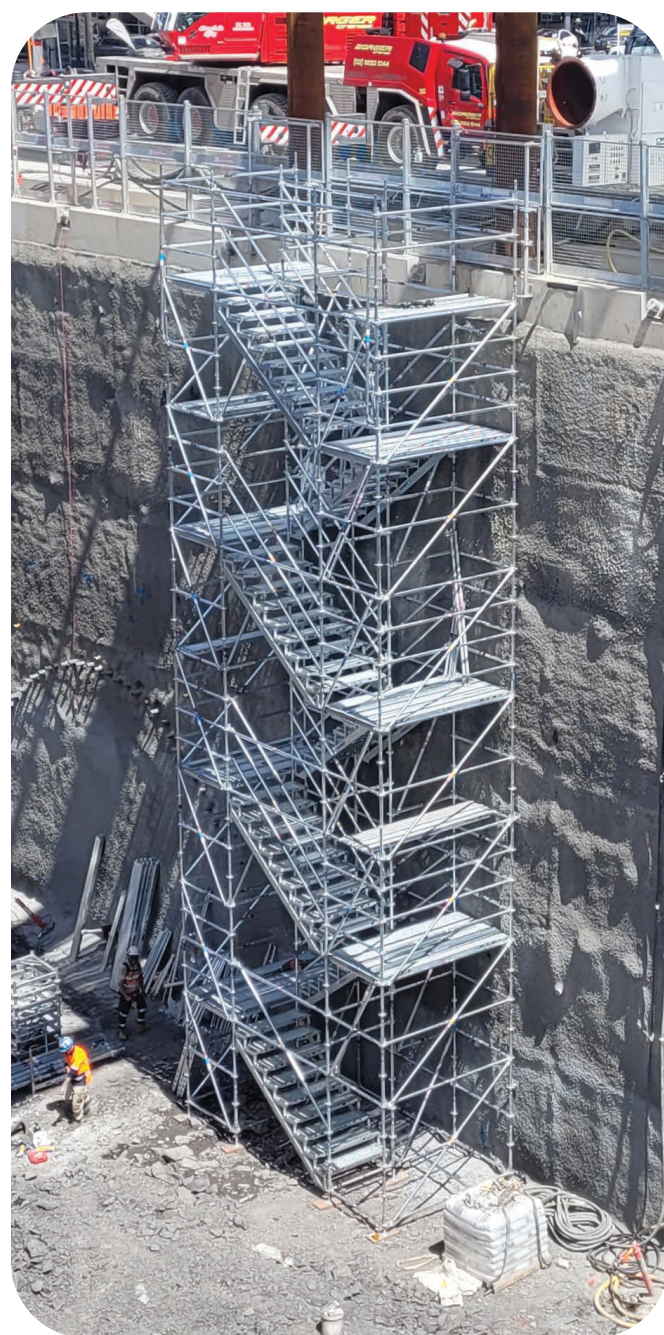


Engineered to withstand Cyclonic Wind loads



Stretcher Stair Towers

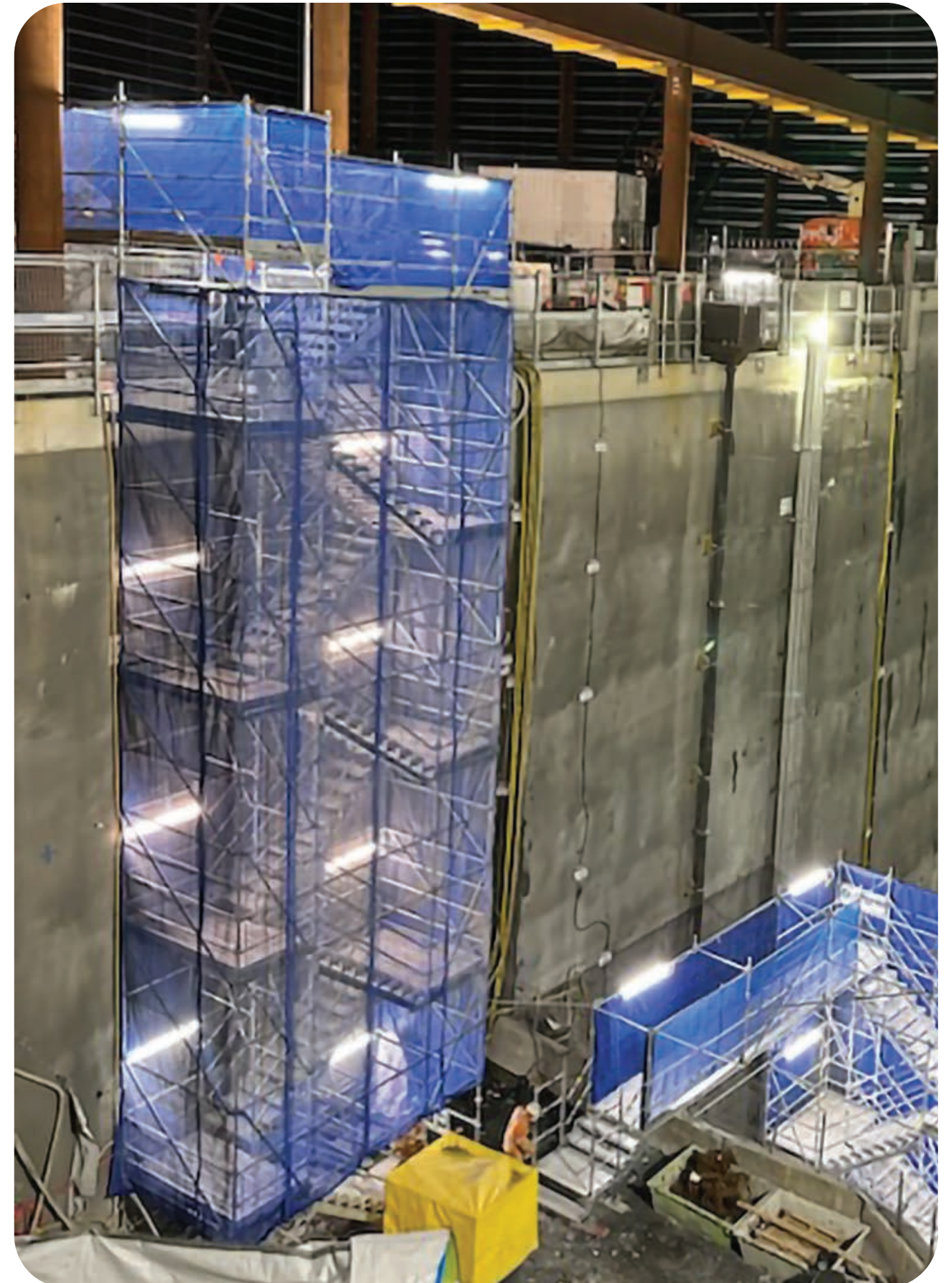
- Optional public access-compliant stringers and childproof guardrails enable fully compliant site accommodation access.
- Stair stringers also act as diagonal bracing, reducing the need for additional ledgers and braces.
- Stairs are fully craneable using only ProScaf proprietary components.
- Craneable in sections up to 40m high.



Stretcher Stair Towers



A Better Way



Heavy Duty Loading/Propping

- ProScaf's high leg load capacity makes it ideal for high strutting and propping projects, allowing users to support higher loads with less material.



88 Tonne Load Supported

Heavy Duty Loading/Propping



15 Tonne Freestanding Loading Bay



A Better Way

Loading Bays

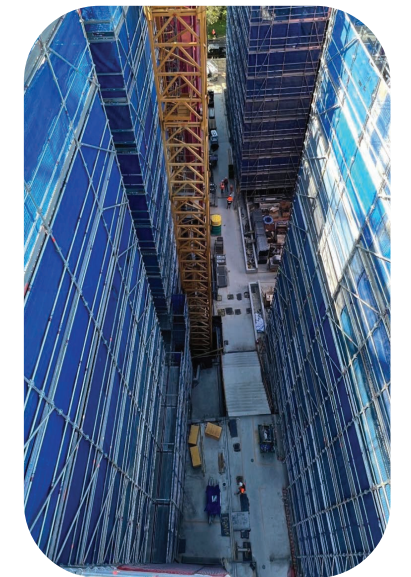
- The high load and leg capacities of ProScaf reduce the amount of material and structure needed for heavy-duty loading bays.
- Increased plank capacity accommodates special duty loads.
- High-load bearing braces allow for greater versatility in design, accommodating cantilevered or bridging loading bays.

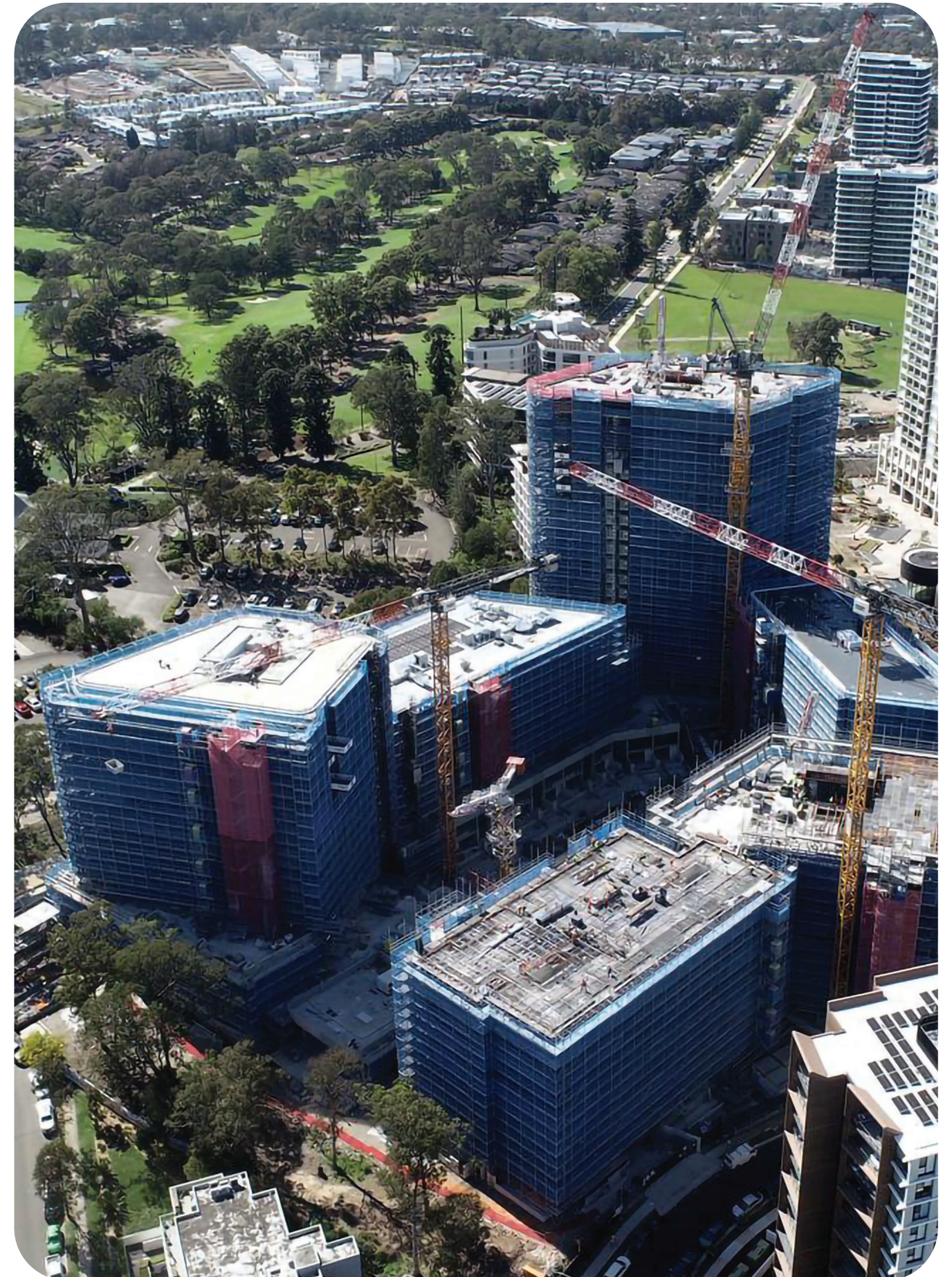


A Better Way

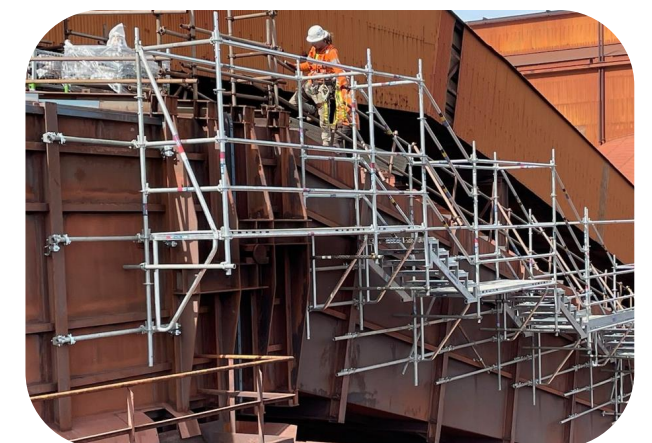
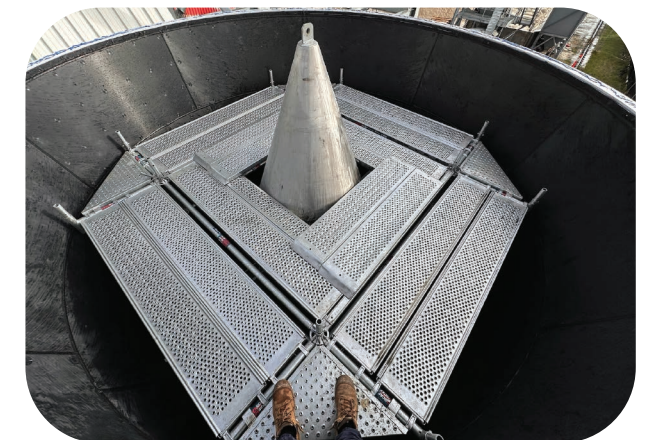
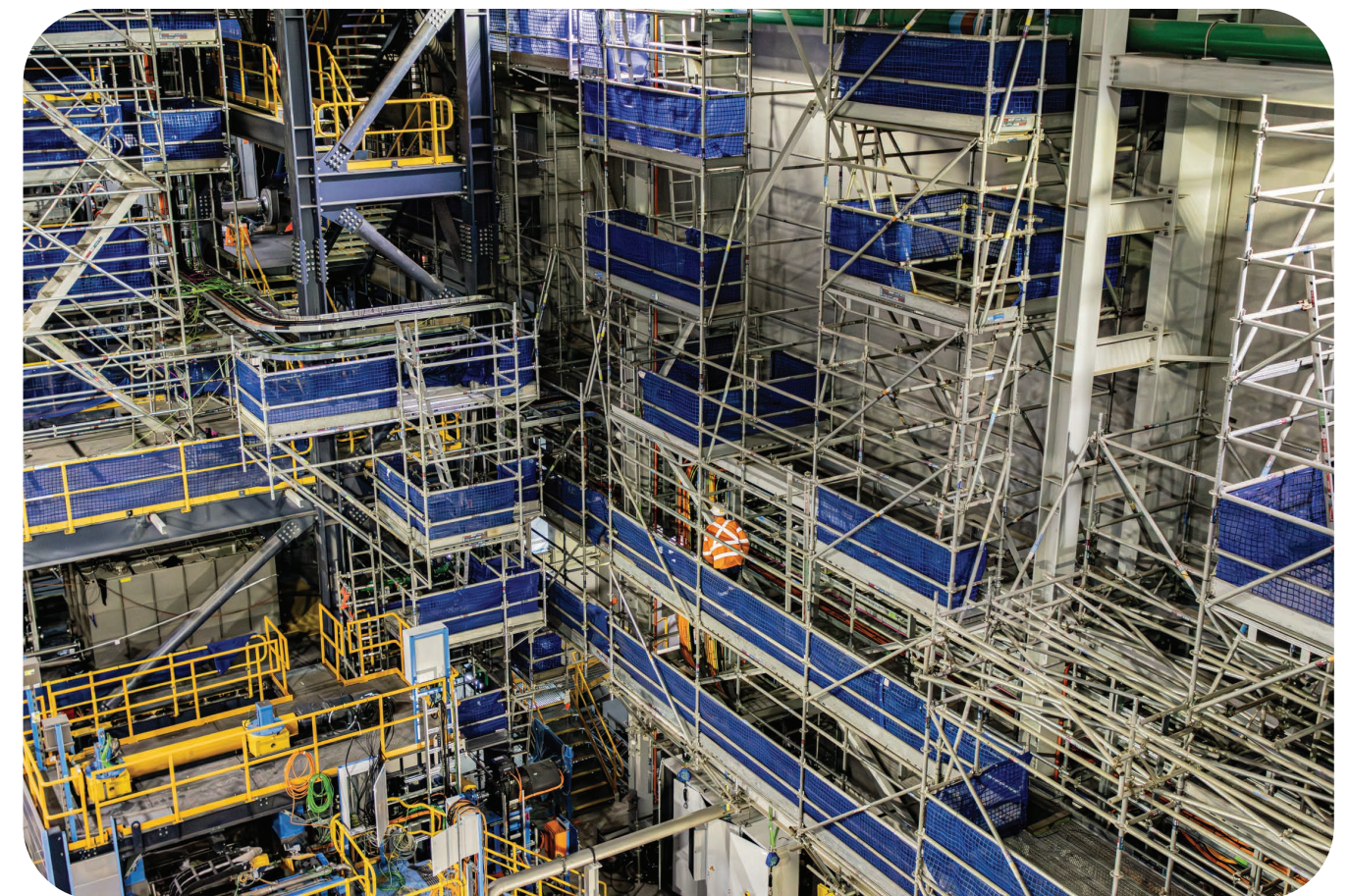
Facade Scaffolding

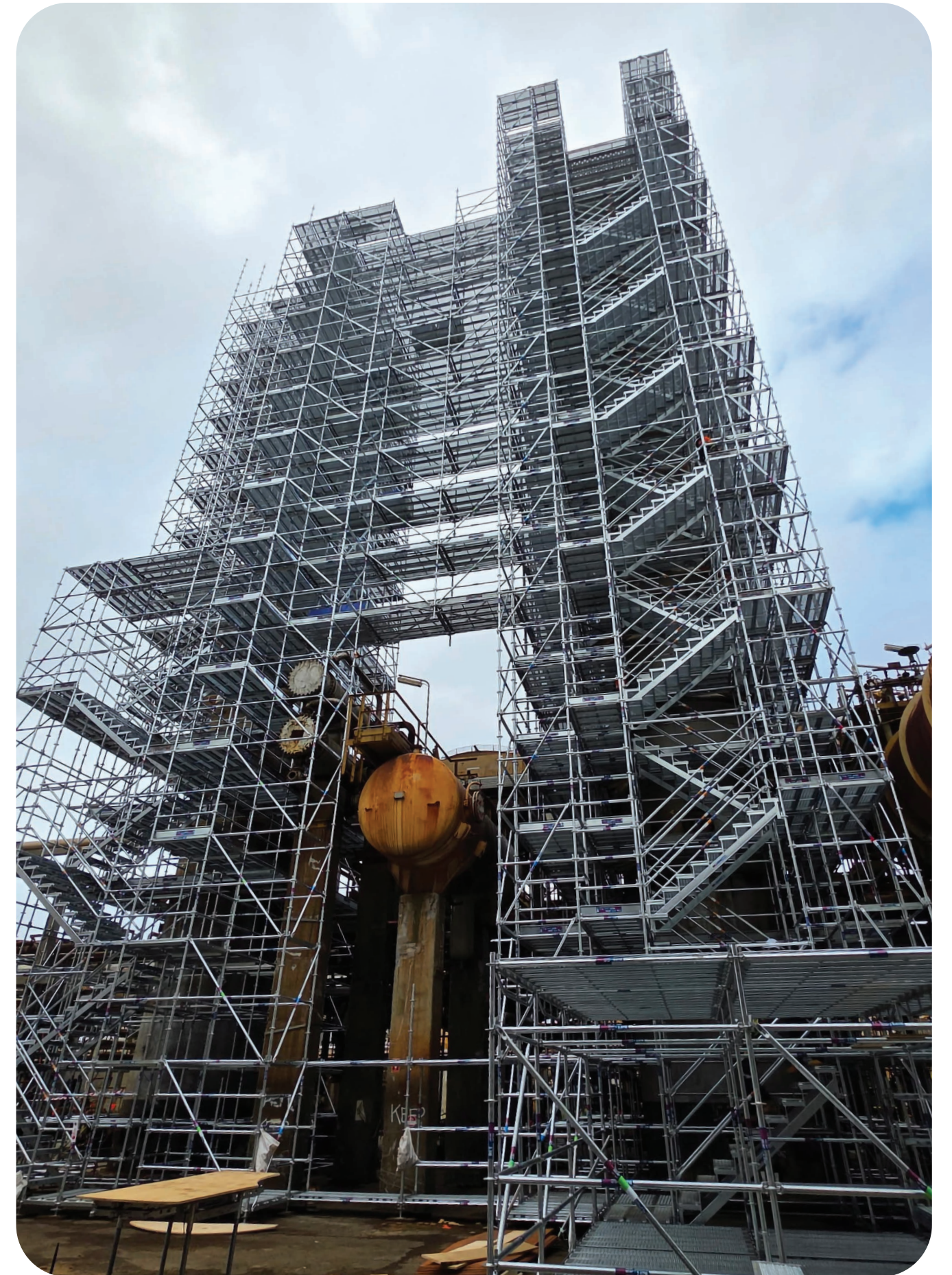
- Base collars minimise labour during base-out, allowing the task to be completed by a single person.
- Integrated stair and ladder access systems save time and labour.
- ProScaf load-bearing braces enable bridging of working platforms, reducing material usage and minimising ground footprint, eliminating the need for additional materials such as ladder beams.
- Wider planks (320 mm) and longer working bays reduce the number of components required, simplifying scaffold assembly and saving time.
- Folded steel toeboards are lightweight, durable, and easy to install, locking in securely behind the wedge head.
- Tubular stiffeners underneath ProScaf planks provide a solid, bounce-free working platform and function as handles to aid installation from the lift below.
- A wide range of hop-up and gap cover solutions ensures a close, safe finish to the building or work area.



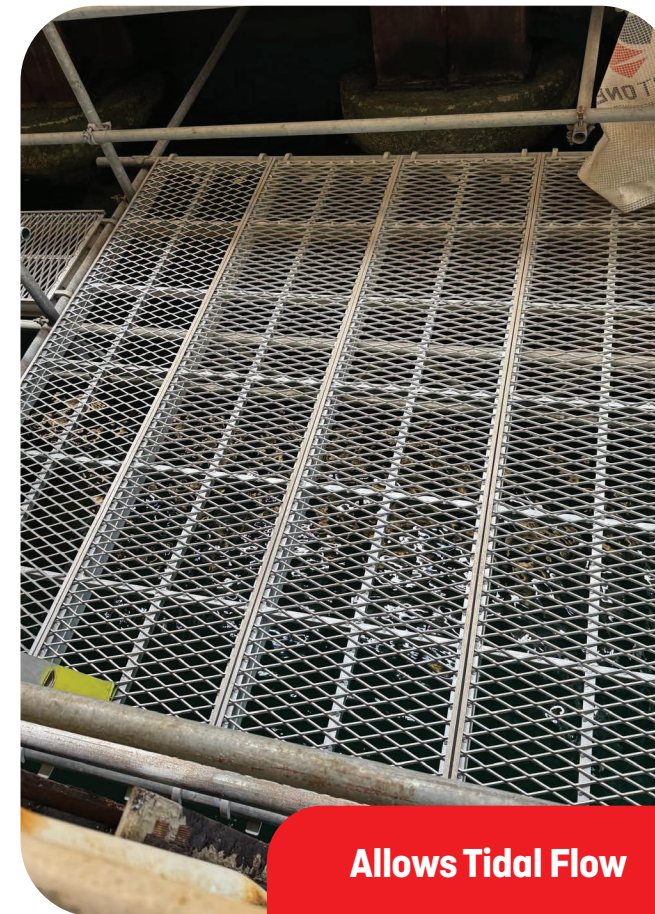


- High load-bearing components enable users to accomplish more with less, while prioritising safety.
- Premium-grade steel and advanced galvanising make ProScaf ideal for harsh or caustic environments, where longevity is essential.
- Pre-engineered scaffold solutions are provided for complex projects, specialising in shutdown scopes requiring precision and attention to detail.
- A comprehensive suite of product documentation is available, including harness attachment guidelines (see pages 10 and 11 for more details).





- High-grade steel and double galvanising allow ProScaf to withstand harsh marine environments and the corrosive effects of saltwater.
- Lifting components can be installed on either vertical or horizontal elements, providing flexible lifting points.
- Aluminium marine deck profiles allow water to flow through the deck without pooling or adding extra load to the scaffold.
- Various restraining systems prevent deck displacement during tidal movements.



Allows Tidal Flow



Clear Span/Bridging

- For on-site access over obstructions, roads, or walkways, ProScaf provides a pre-engineered, compliant solution without the need for external components like heavy support beams.
- Bridging structures maintain a constant platform height, as spans are built directly off node points, avoiding the uneven steps and platform heights common with other systems.



Clear Span/Bridging



23m Span for Public Access



Clear Span/Bridging



Crane-lifted into Position

Hoardings

- Standard components achieve 5 kPa, 10 kPa, and special duty load ratings thanks to high-grade steel and highly engineered capacities.
- Special components, such as lattice girders, simplify the design of non-conventional overhead structures.

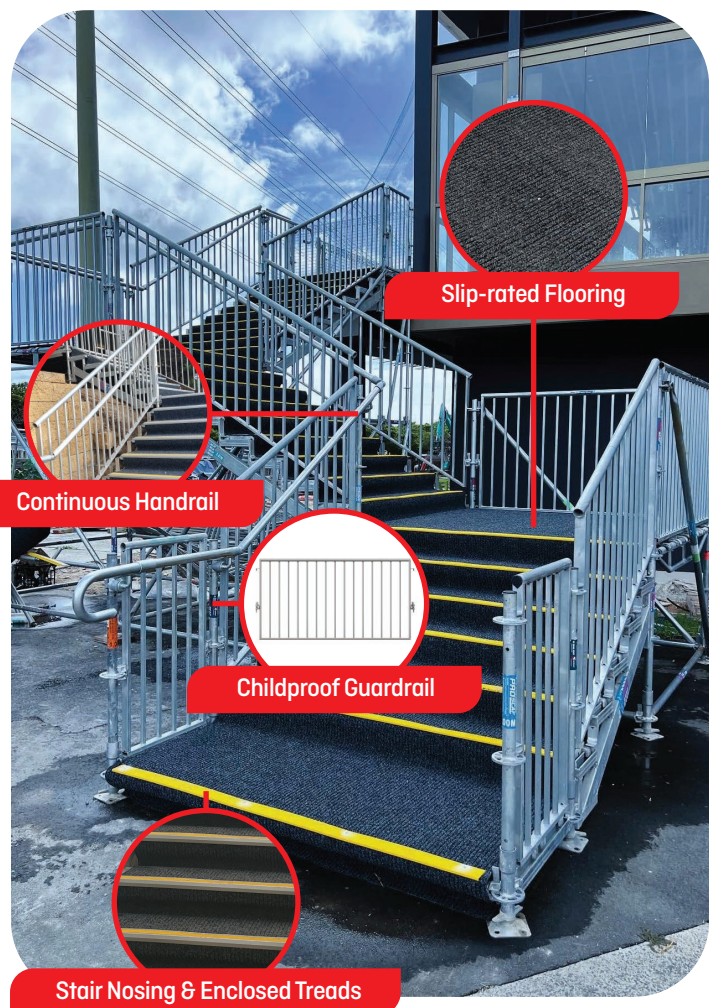
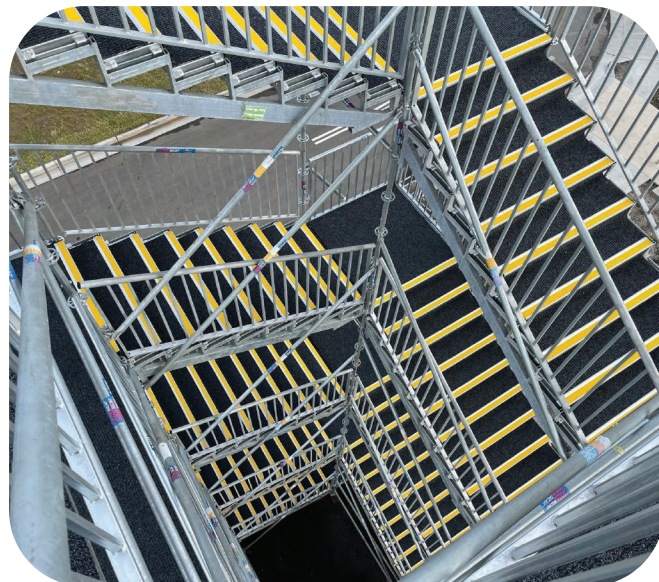


Supporting
10 kPa
Loads



Public Access Stairs

- Use ProScaf public access components to create a safe and compliant system for pedestrian access.
- Stair treads and other system components are designed to meet public access requirements where applicable.
- Ideal for high-traffic projects such as schools, train stations, and hospitals.
- Features continuous guardrails and flooring for enhanced safety.



Public Access Stairs



Pedestrian Access Ramps/Walkways

- Create ramps suitable for high-traffic, public pedestrian access.
- Available with flooring and continuous handrail solutions for enhanced safety.
- Designed and engineered to meet public access requirements.
- Ideal for high-traffic, high-profile projects.



Pedestrian Access Ramps/Walkways



Introduction

ProScaf Steel

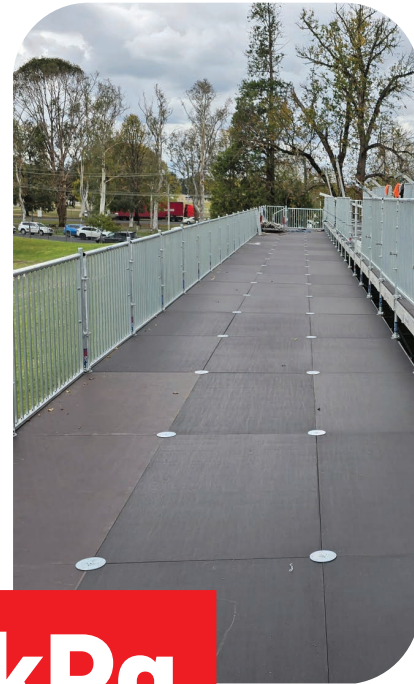
ProScaf Aluminium



A Better Way

SwiftStage

- SwiftStage is a stage decking system designed for the event and staging industry.
- Special duty rating of 7.5 kN/m² enables compliant event structures that exceed minimum loading requirements, including C3 and C5 crowd loading.
- Lightweight aluminium components allow easy installation, promoting high productivity in a time-sensitive industry.

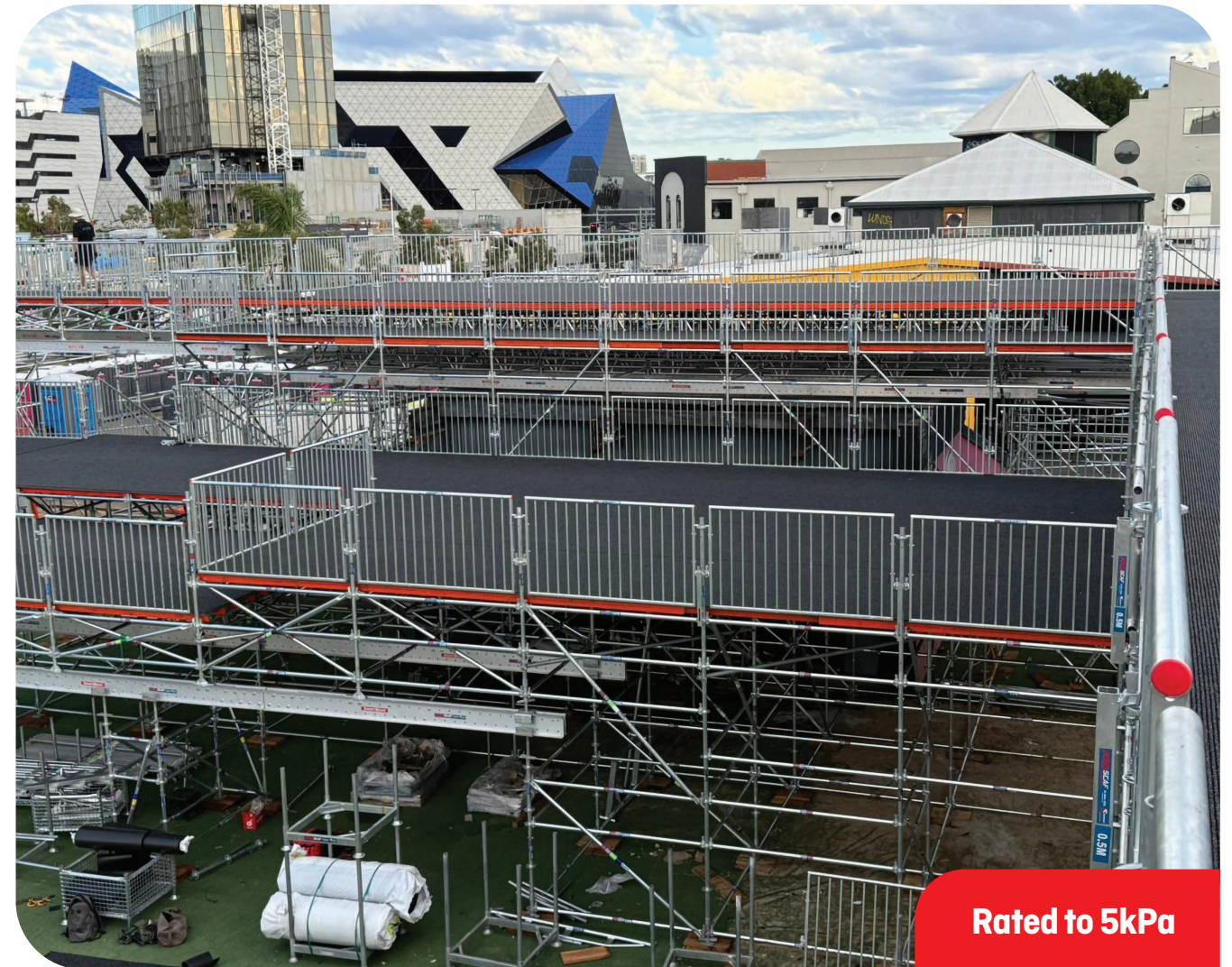


7.5 kPa
Live Load Capacity

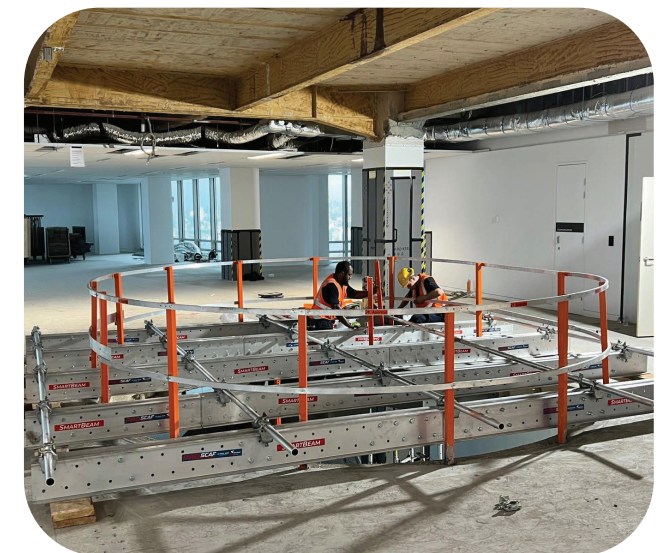
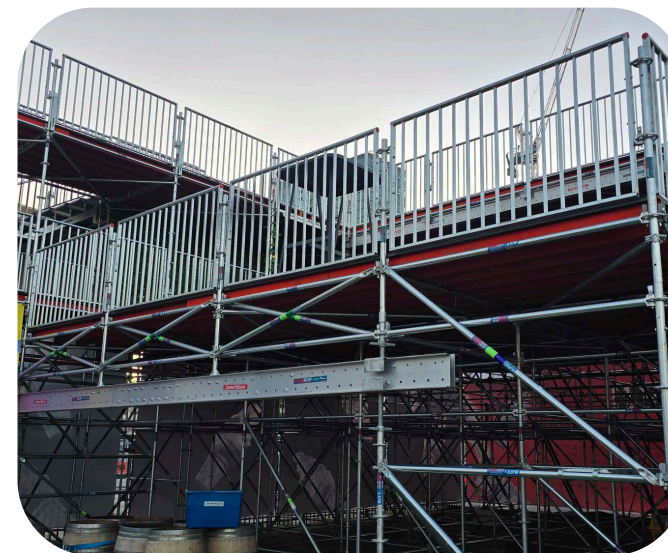


SmartBeam

- Aluminium SmartBeam, with its high shear capacity, provides an option for long spans between supports.
- Designed to break down into smaller elements, making it ideal for tight spaces.
- A wide range of ancillary attachments makes SmartBeam a versatile, high-performing component in the ProScaf range.



Rated to 5kPa



- SmartRoof is a modular temporary roof system designed to work seamlessly with standard ProScaf components.
- Engineered for rapid transport and installation, providing spans of over 30m even in tough environments.
- SmartRoof is used across construction, defence, disaster relief, and events.
- Ideal for any situation where rapid deployment of weather protection is required.

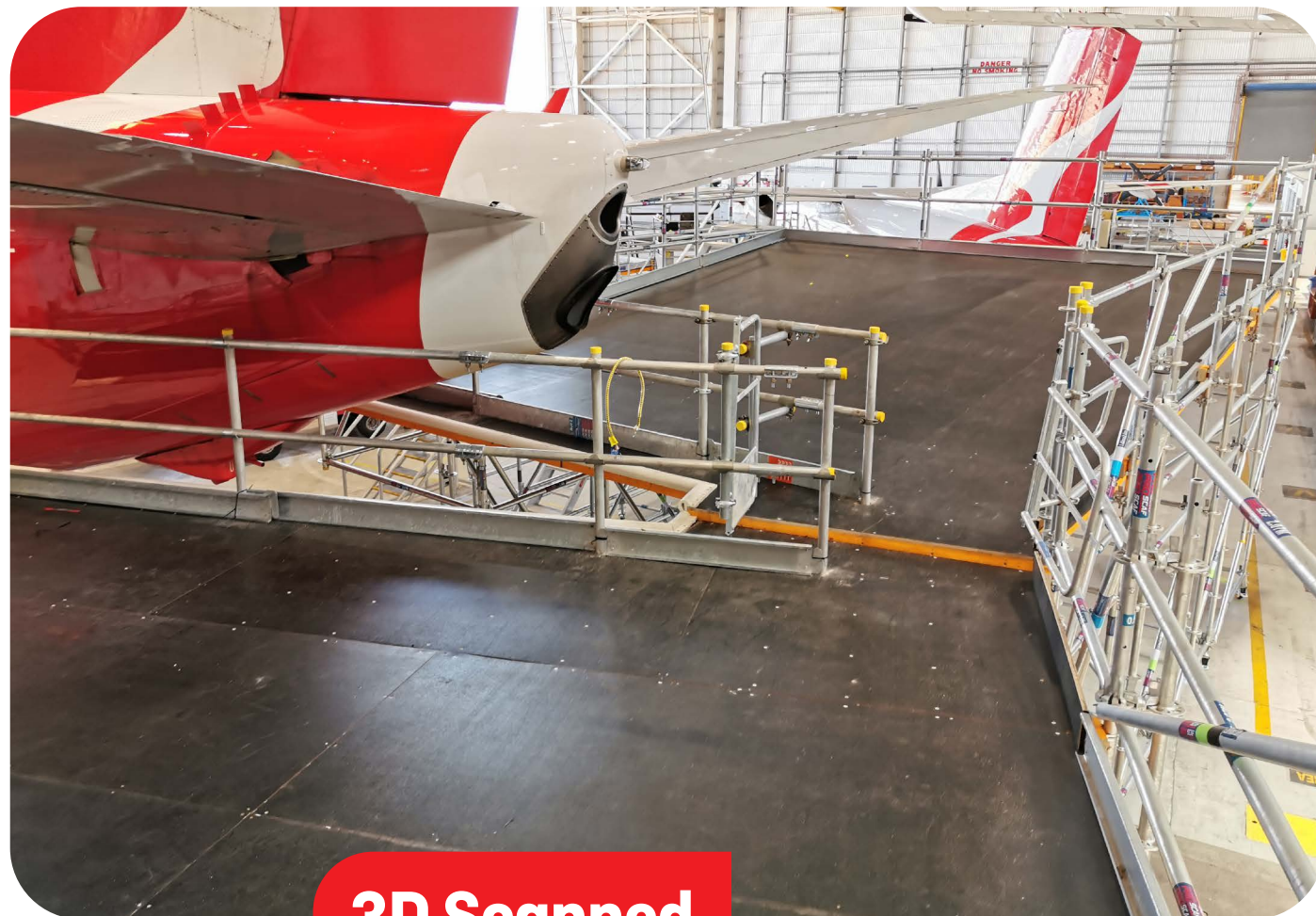


Retractable Rolling Roof



25m Wide Span

- ProScaf's versatility makes it well-suited to fit the profile of any aircraft.
- The ProScaf range of components provides easy access to difficult areas, such as stabilisers.



3D Scanned
for precision fit





***ProScaf* Aluminium**

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ProScaf

ALUMINIUM

ProScaf Aluminium is ideal for projects that require the locking and load-bearing properties of ProScaf steel components but demand the lightweight and installation advantages that aluminium delivers.

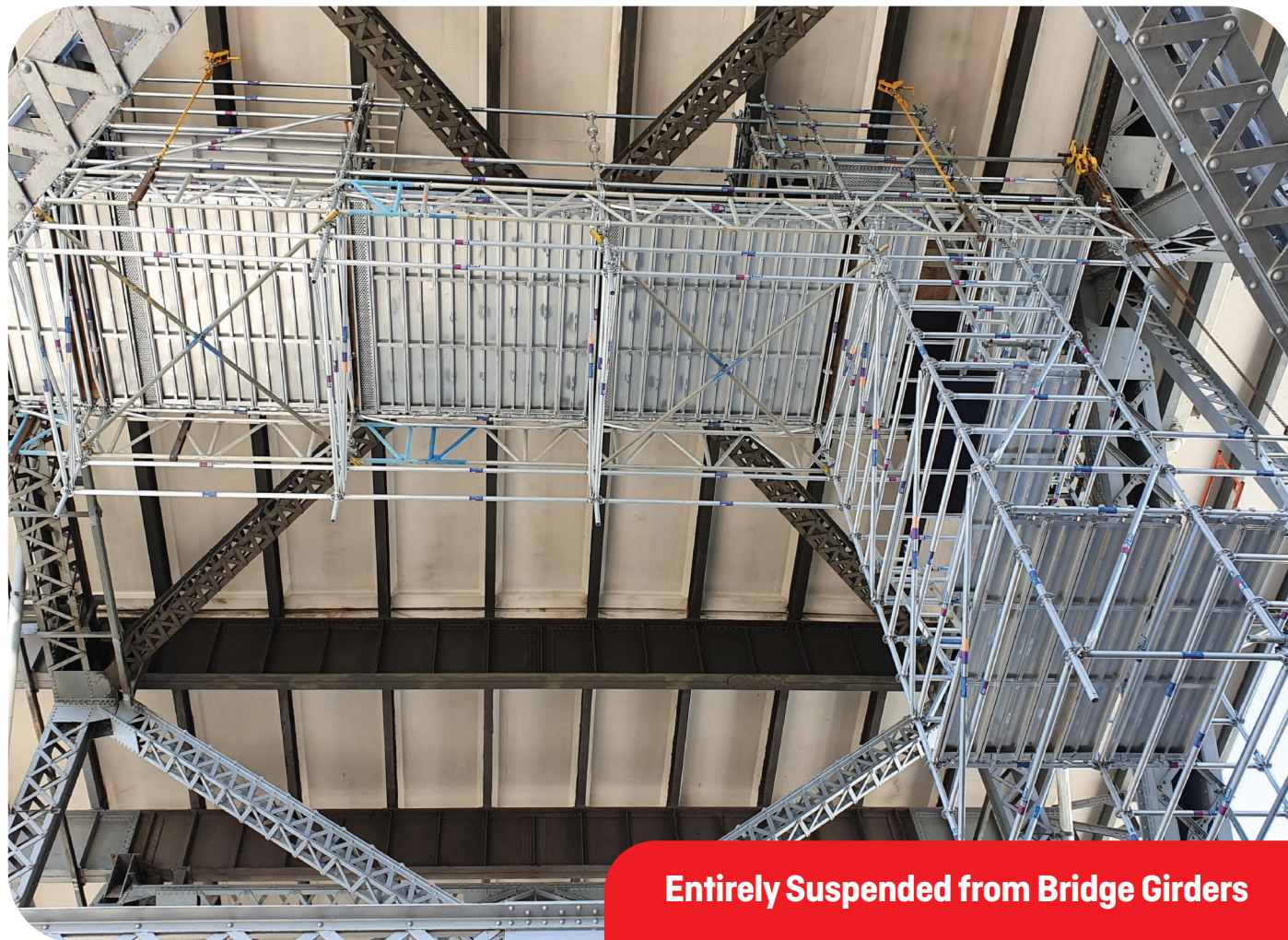
Designed and tested for optimal strength and durability, ProScaf Aluminium performs reliably even in the most demanding and harshest site conditions.



A Better Way

Craneable Structures





Entirely Suspended from Bridge Girders



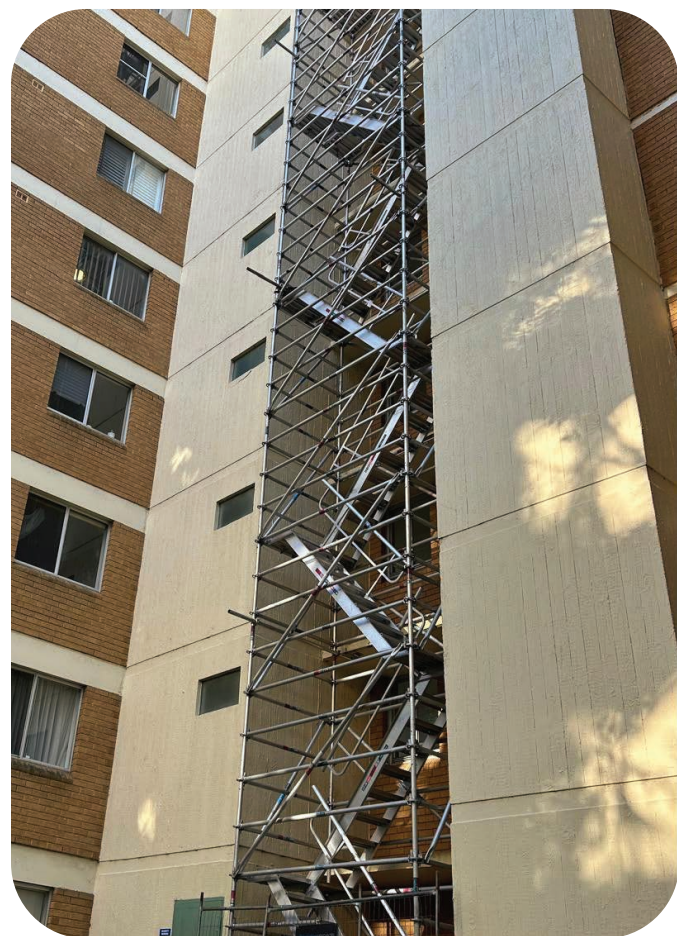
2.5m Outboard & 0.7m Inboard



**5m+ Cantilever
with a 4m Drop**



Construction & Stretcher Stairs



Loading Bays/Propping



Introduction

ProScaf Steel

ProScaf Aluminium



A Better Way

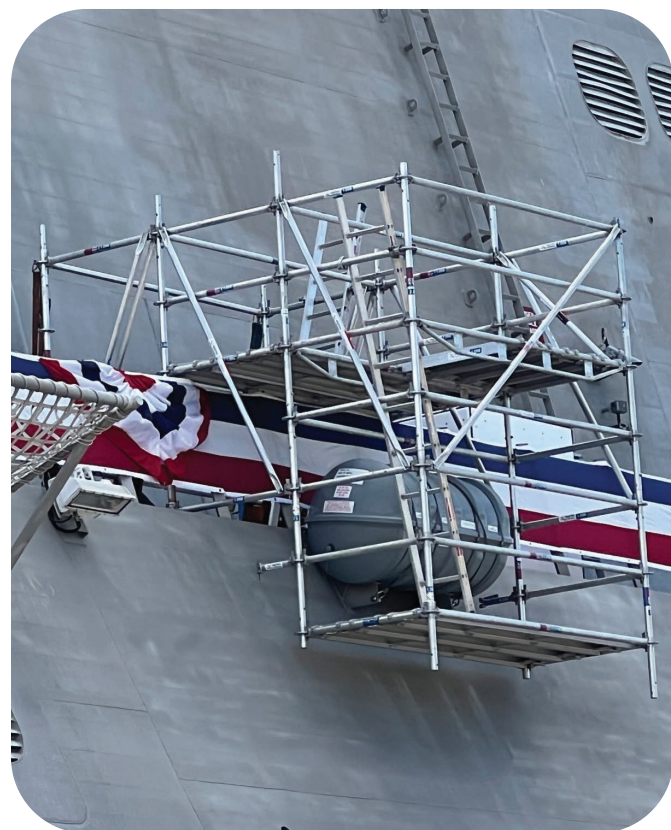


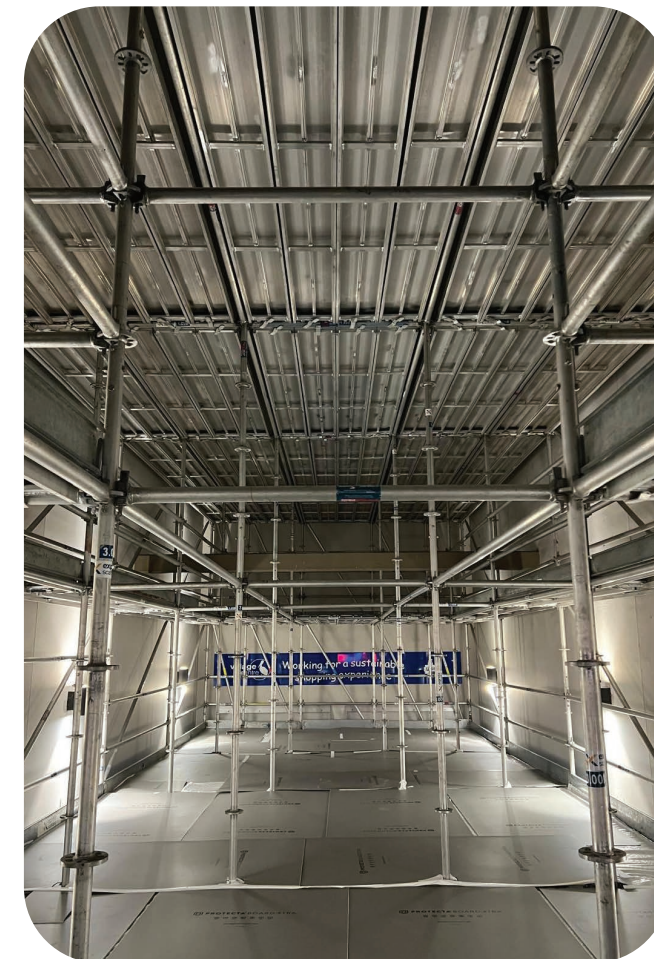
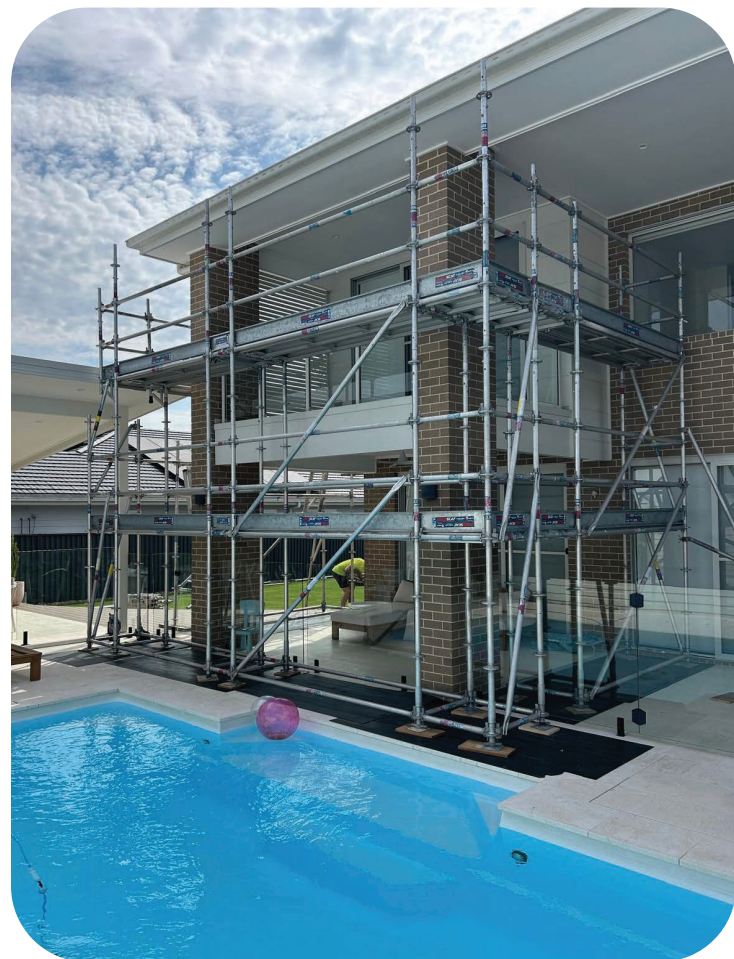
3 Scaffolders & 2 day install



7.5m Spans to Reduce the amount of Landing Bays









A Better Way

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 **ProScaf**