THE POWER OF PROSCAF





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02 8844 4500 www.proscaf.com EDITION 2



ONE SYSTEM, MANY COMPONENTS. MANUFACTURED UNDER ONE ROOF. TESTED IN AUSTRALIA.

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



THE PROSCAF SECRET

Designed and engineered by SafeSmart Access, in Australia and New Zealand, Proscaf was developed with a clear vision in mind: to produce 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, as well as braces, transoms and ledgers) allows for large hanging and craneable structures to be safely designed and built, to weight ratings exceeding heavy duty.

High load-bearing braces: The Proscaf diagonal braces, used to lock scaffold bays together both vertically and horizontally, achieve substantial compression and tension loading, meaning less bracing is needed in structures than other scaffolding systems.

Lift-off locks: These components, which lock planks against wind lift off, are very important in high wind or cyclone risk areas where the risk of component dislodgement is increased.

Very high grade steel construction: Each component is made from very high grade steel. Steel batches are checked by Proscaf engineers before moving through to production. This ensures perfect product consistency and allows Proscaf to achieve the high loadings it's famous for.

World-leading galvanising procedure and coating: Crucial for the longevity of the product, especially in

harsh industrial environments, the Proscaf galvanising procedure results in the most consistent, thickest galvanising of any scaffold available.

Today, Proscaf is manufactured in our ISO9001 certified factory and distributed throughout the world.





















ONE SYSTEM, ONE SOLUTION



Proscaf is an all-in-one solution. With no other components aside from the Proscaf system, complex scaffold structures such as hanging, cantilevered, bridging and propping scaffolds can be built.

This means ultimate flexibility for scaffolders on site. Anything can be built utilising standard Proscaf components. **The sky's the limit**.

In addition to Proscaf system components, SafeSmart also manufactures complementary Proscaf system ranges which integrate with the Proscaf system, including:

SmartBridge: For long span bridging.

Achieves 30m+ spans at 5kPa or even longer spans at lower loadings.



SmartRoof: For encapsulation and weather protection.

Fitted to the top of Proscaf structures. Integral keder tracks for speed and ease of use.



SwiftStage: The Proscaf staging system.

Create large, open stages quickly and neatly. Integrates with Proscaf public access components.



For those jobs where you want the unique Proscaf difference but require the light weight and installation advantages that aluminium offers.





Proscaf Aluminium is ideal for those projects where the locking and load bearing properties of Proscaf steel components are required, but you need the light weight and installation advantages that aluminium delivers.

Proscaf Aluminium has been designed and tested for optimum strength and durability in site conditions.











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EACH COMPONENT IS BATCH MARK FOR TRACEABILITY











THICK, WELDED ROSETTE ALLOWS FOR QUICK AND STRONG CONNECTION





The Proscaf quality and engineering procedures are managed between two departments that work together to ensure the highest levels of qualify 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 utilised by the Factory QA department to ensure the consistency and quality in manufacture.

Factory Quality Assurance: All Proscafmanufactured products are controlled by factory

QA. This includes; material testing and approval, manufacture/welding checks, galvanising tests, and batch marking and stamping upon completion of manufacture.



In addition to this process, a program of individual component testing is carried out in conjunction with independent testing agencies, to verify component consistency and strength. This is also used in engineering calculations vital to Proscaf technical data sheets on each component.



Proscaf products are batch stamped in the process of quality control, for traceability and identification as a genuine Proscaf part.



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

ENGINEERING SUPPORT

Extensive technical data is available for individual Proscaf components. This is used in structure design to verify capacities of installations.

Stress points in Proscaf structures are quickly determined through engineering analysis of designs, through analysing the load limits of individual components that make up the structure.

The technical data pack detailing Proscaf components, make it simple for designers to produce streamlined scaffold designs; load capacities are clearly stated, so there is no need or tendency to 'over-engineer'.

For those with in-house CAD design and analysis capacity, a Proscaf CAD package is available through SafeSmart Access.

In addition to providing technical data, engineering advice is available through the Proscaf manufacturer - SafeSmart Access.



CONCEPT









Safety is always the number 1 priority when using a scaffold system. There are certain inherent features that distinguish Proscaf in installation safety:

Using base collars, the base structure of a Proscaf installation is built at ground level; saving time and minimising labour when basing out the scaffold.



Load bearing braces allow users to build cantilevered bays out from one side, from behind a handrail; they are therefore never exposed to a fall. See more about this in our methodology.



The locking rosette connection allows you to



SPEED MATTERS

Reduce downtime on your project, through the power of Proscaf. Proscaf is installed quicker, with less labour and components than other scaffold systems.

Practical on site comparisons have proved that conventional scaffolds can be built up to 3 x faster with Proscaf than with inferior systems.



BUILD METHODOLOGY SNAPSHOT

CONTINUOUS CANTILEVER BAYS

Below is a Proscaf methodology example, showing how a cantilevered scaffold, considered an advanced scaffold, can be built from a safe, guardrailed position. This 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 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 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 13: Complete the cantilevered bay with double bracing, ledgers and transoms. Repeat steps 1-13 to form the roof truss modules.

















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



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



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



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.

COMPLIANCE AND PROJECT SUPPORT

PRO<u>SCAF</u>

When undertaking complex scaffolding projects, its important to have clear, comprehensive documentation to ensure that safety risks are reduced and correct processes are followed.

That's why Proscaf is supported with a wide-ranging package of guideline documents, for many different applications.

Along with the Technical Data and CAD package, these guidelines are a valuable tool to aid in scaffold design and to streamline scaffold build methodologies.

These include the booklets below and more;

PROSCAF INSTALLATION METHODOLOGY:















COMPLIANCE AND PROJECT SUPPORT









PROSCAF

On any scaffold structure, it's important to ensure that the working platform is kept level, without undue variations in platform height, and as flush as possible to the work area.

Proscaf has a range of proprietary system components that are used to ensure that gaps in the scaffold can be eliminated or minimised efficiently.

These items include;

Lift-off Locks: To create a flush transition over the transom, from plank to plank.

ltem	Description
A	Lift-off Lock

Gap Cover Ledgers: These are used at the base of a stair riser, to continue the landing beneath the step above.

ltem	Description
А	Gap Cover Ledger

Intermediate Hop Ups: These Hop Ups 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.



PROSCAF GAP COVER SOLUTIONS

Gap Cover Channel: This channel is a handy item, used to create a flat working deck where 2 legs are connected in parallel, vertically.

ltem	Description
А	Gap Cover Channel
В	Twin Wedge Coupler

Deck to Deck and Deck to Ledger Transoms:

These are used when there are structures protruding through the working platform of the scaffold. They ensure a flush deck finish, and are safer and neater than using timber or Steel Lap Planks. Utilising these components eliminates the trip hazard or tie down requirement that Lap Boards creates. *Note: Toe Boards omitted for clarity.









ltem	Description
А	Deck-to-Deck Transom
В	Hatch with Integrated Ladder



PROSCAF PROJECT ADVANTAGES

CRANE & LIFTING

The locking properties of Proscaf makes it the ideal system to use in creating craneable or suspended structures. Component load rating data, such as the hanging capacity of the legs and tension on the ledgers and braces, is used to verify craneable or hanging structures. Below are some examples showing how Proscaf structures can be lifted. Contact SafeSmart Access for technical data on lifting components and lifting advice for Proscaf structures.



CRANEABLE STRUCTURES











SUSPENDED/CANTILEVERED SCAFFOLDS

- O The high capacity of the double-bolt standards, along with the load-bearing braces and node-tonode connection, means that with Proscaf large, suspended scaffold structures can be built without the requirement of additional material. No splicing or support beams needed!
- O Load bearing braces allow for cantilevered or suspended bays to be progressively installed, safely from behind a work deck or handrails.
- O The higher capacity of braces and other components allows for larger cantilevered spans without non-system components being used for support.
- O Rated harness attachment points are used as an added safeguard to ensure user safety.
- O In design, all scaffolds are inherently crane liftable building at ground level and lifting modules into position can reduce cost and minimise working at height risk.



NOT TO SCALE



ISOMETRIC VIEW NOT TO SCALE



SUSPENDED/CANTILEVERED SCAFFOLDS









PROSCAF PROJECT ADVANTAGES

CONSTRUCTION STAIR TOWERS

- O 2m lift heights ensures access heights meet working platform heights, in typical building structures.
- O Stairs are fully craneable using only Proscaf proprietary components.
- O 2m lift heights allow for stairs to be installed parallel to working deck, to reduce stair footprint and maximise configuration flexibility.



- O Lift off prevention devices to guard against accidental or wind load imposed lift off.
- O Lightweight but strong Aluminium construction; ridged, slip resistant step treads for safety in all conditions.





CONSTRUCTION STAIR TOWERS











PROSCAF POSSIBILITIES



PROSCAF PROJECT ADVANTAGES

STRETCHER STAIR TOWERS

- O Public Access Compliant Stringers and Childproof guardrails available fully public compliant site accommodation access is achievable
- O Stair Stringers act as diagonal bracing meaning less ledgers and braces are required to be installed
- O Stairs are fully craneable, using only Proscaf proprietary components









STRETCHER STAIR TOWERS









PROSCAF POSSIBILITIES

HEAVY DUTY LOADING / PROPPING

O High leg loads achieved with Proscaf make high strutting and propping projects safe and efficient. Technical information is available to aid design.













LOADING BAYS

- O High load capacity and leg loads achievable with Proscaf means less material and structure is needed to build heavy duty loading bays.
- O Increased plank capacity for heavy duty loads; a Proscaf 2.57m plank is suitable for 7.9kPa allowable loading.
- O Node to node brace connection for increased rigidity in loading bays.





PROSCAF PROJECT ADVANTAGES

FACADE SCAFFOLDING

- O Base collars are used to ensure minimal labour is needed during base out designed to be completed with one person.
- O Integrated stair and ladder access systems save time and labour.
- O Proscaf load bearing braces allow for bridging working platforms, reducing material and footprint on the ground. The requirement for additional materials eg ladder beams is removed.
- O Wider planks (320mm) and longer working bays mean less components are used in the scaffold, reducing time and build complexity.
- O Folded steel toeboards are lightweight, durable and simple to use simply lock in behind the wedge head.
- O Tubular stiffeners underneath Proscaf planks ensure a solid, 'bounce-free' working platform, and also act as handles to aid install from the lift below.
- O A wide range of hop-up and gap cover solutions are







CLEAR SPAN/ BRIDGING

- O Where on-site access is required over obstructions or roads and walkways, Proscaf is used to provide a pre-engineered, compliant solution – without the requirement for external components such as heavy support beams.
- O A constant platform height is maintained on bridging structures, as the spans are built directly off node points. Other systems may require support beams which lead to irregular step and platform heights.





PROSCAF PROJECT ADVANTAGES





PROSCAF POSSIBILITIES

PUBLIC ACCESS STAIRS

- O Utilise Proscaf public access components to create a system suitable for pedestrian access
- O Stair treads (rise and going dimensions) and other system components are designed to comply with public access requirements (where applicable)
- O Ideal for projects at schools, train stations, hospitals, and other high traffic areas
- O Includes continuous guardrails and flooring







PRO<u>SCAF</u>



PROSCAF POSSIBILITIES









PEDESTRIAN ACCESS RAMPS / WALKWAYS

- O Create ramps suitable for high traffic, public pedestrian access
- O Available with flooring and continuous handrail solutions
- O Designed and engineered for public access
- O Ideal for high traffic, high profile projects



PROSCAF POSSIBILITIES







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