



Erection and dismantling procedures for Mobile or Tower

Scaffold specifications for 1.3m wide Ali-Scaff

- ALI SCAFF is a “Light Duty” scaffold with a Uniformly Distributed Load (UDL) of **225kg’s** and **MUST NOT** be exceeded.
- **ALL scaffolds MUST NOT BE HIGHER THAN 5 METRES from the ground or supporting structure to the TOPMOST GUARDRAIL of the working platform.**
- The height of the top working platform must be **no more than TWO times the minimum base dimension of the structure for scaffolds UNDER 1.8 METRES in height.**
- The height of the top working platform must be **no more than THREE times the minimum base dimension of the structure for scaffolds OVER 1.8 METRES in height.**
- **ALL SCAFFOLDS EXCEEDING 5 METRES TO THE TOPMOST GUARDRAIL OF THE WORKING PLATFORM MUST BE ERECTED, ALTERED AND MAINTAINED BY PERSON HOLDING A CERTIFICATE OF COMPETENCE IN SCAFFOLDING**
- If the lowest working platform is **above 3 metres** a plan brace must be installed at base level.
- If **not using Guardrail Frames** and using an End Frame instead **place three yellow ledgers on three transom levels** to achieve minimum guardrail height requirements.
- The distance from **the ground to the topmost working platform GUARDRAIL** determines **HEIGHT.**
- Always access platform from within the scaffold. Side-loading may tip scaffold over.
- Scaffolds **MUST** have guardrails, midrails and toeboards on **ALL** working platforms.
- Never use damaged equipment. Either repair immediately or scrap.
- Ladders should protrude through the Access Deck as depicted in pictures & be erected as per this erection & dismantling procedure for the profile for that height of scaffold.
- Ensure that the Mobile or Tower is suitable for its intended use.
- Ensure that the mobile is re-levelled when moved to a new position.
- Mobiles or Towers **MUST** be erected as per these procedures. Not erecting the scaffold to these procedures could lead to the Scaffold Erector being liable to prosecution by WorkSafe NZ for non-compliance with manufacturer’s instructions.

Mobile Profiles:-

- 1.8 - 2m Mobile – 1.2m End Frame + Guardrail Frame with One Platform – use Hinged Access Deck.
- 1.95 - 2.15m Mobile – 1.6m End Frame + Guardrail Frame with One Platform
- 2.3 – 2.5m Mobile – 2m End Frame + Guardrail Frame with One Platform
- 2.7 – 2.9m Mobile – 1.6m + 0.8m End Frames + Guardrail Frame with One Platform
- 3.1 – 3.3m Mobile – 2m + 0.8m End Frames + Guardrail Frame with One Platform
- 3.5 – 3.9m Mobile – 2m + 1.2m End Frame + Guardrail Frame with One or Two Platforms

Note: Anything higher than the 3.9m Mobile may have the topmost guardrail over 5 metres from the ground so caution **MUST** be taken to ensure this does not occur.

ALL SCAFFOLDS WITH THE GUARDRAILS OVER 5 METRES MUST BE ERECTED BY A CERTIFIED SCAFFOLDER.

Erection of 1.3m wide Mobile/Tower



Lay out the required equipment for the base of the mobile in a safe area. Tower scaffold (no castors) need to be erected in the position that it is to be used.



Install baseplates/jacks/castors into ends of End Frames and stand upright. Attach yellows in position depicted in picture from one frame to the other. Install blue braces on each side running opposite to each other.



Install red plan brace diagonally across frames if a Working Platform is **equal to or more than 3m** from supporting structure. Level all sides and adjust with screwjacks on Basejacks and Castors.



Recommend that scaffold erectors work within the scaffold structure and be protected from falls by progressively installing temporary platforms & guardrails as scaffold is erected and dismantled.



Install End Frames onto each end and attach blue braces as depicted in the supplied picture for the height of Mobile or Tower that you are erecting. Ensure that the weight of the equipment is within your strength capabilities.



Install Outriggers to Mobile/Tower as soon as possible. **Remember that scaffolds under 1.8m need a 1:2 ratio for Base to Height & scaffolds over 1.8 metres need a 1:3 ratio for Base to Height.**



If there is Two Working Platforms the lower Working Platform **MUST** have three (3) yellows installed as shown to meet the minimum Guardrail height and a ladder installed protruding through the Access Deck.



The above picture depicts the correct placement of the ladder when placed through the Access Deck. The hatch should be closed after access to Working Platform to prevent people falling through exposed void.



The pictures above shows the "Fully Hinged Access Deck" in the "closed" position at the top and the "open" position at the bottom. The Access Deck should be used with 1.8-2m Mobile & 3.5-3.9m Mobile with 2 Working Platforms.

Erection of 1.3m wide Mobile/Tower



The Working Platform should be decked across with a deck and access deck, kickboards and ladder protruding through the access deck or a "Fully Hinged Access Deck can be used for 1.8m Mobile & 3.5m Mobile with 2 Working Platform. Above top platform a Guardrail Frame should be used with yellows placed as depicted and a blue placed on one side.

Outriggers MUST be installed on 3.9m high Mobiles or Towers and scaffolds higher to increase the Base to Height Ratio for stability.
Remember that scaffolds under 1.8m need a 1:2 ratio for Base to Height & scaffolds over 1.8 metres need a 1:3 ratio for Base to Height.

Ensure that when you are shifting a Mobile with Outriggers that you lift the Outriggers off the ground. Leave them up off ground until the Mobile is in the correct position and reinstate them to ground. Not raising them will damage the Outrigger attachments.

Remember:-

- (1) When using outriggers on one side only ensure that the working face structure is solid enough to sustain the weight of the scaffold if the scaffold should lean against it.
- (2) If mobile/tower not up against a structure recommend the use of Outriggers attached to each corner.

Base to Height Ratio's:

For scaffolds under 1.8 metres to the Working Platform is 1 times width of base to 2 times height.

For scaffolds over 1.8 metres to the Working Platform is 1 times width of base to 3 times height.

Hirer's of scaffolds will be given a picture of the scaffold they are hiring and all components **MUST** be issued. Hirer's not taking the correct equipment could be held accountable for the scaffold not being compliant with the manufacturer's instructions.

The equipment issued for each type of Mobile or Tower is correct for that configuration and altering the scaffold (either shifting the Working Platform to a higher or lower level) may require additional components to ensure that the Mobile/Tower is fit for its intended purpose.

Scaffold Users must "take all practicable steps" to protect their own safety and the safety of others while using this equipment as outlined under the HSE Act 1992 (Health & Safety in Employment Act) & any new legislation that arises must be adhered to.

Also under the HSE Act no action or inaction is to harm others and the environment when using this equipment.

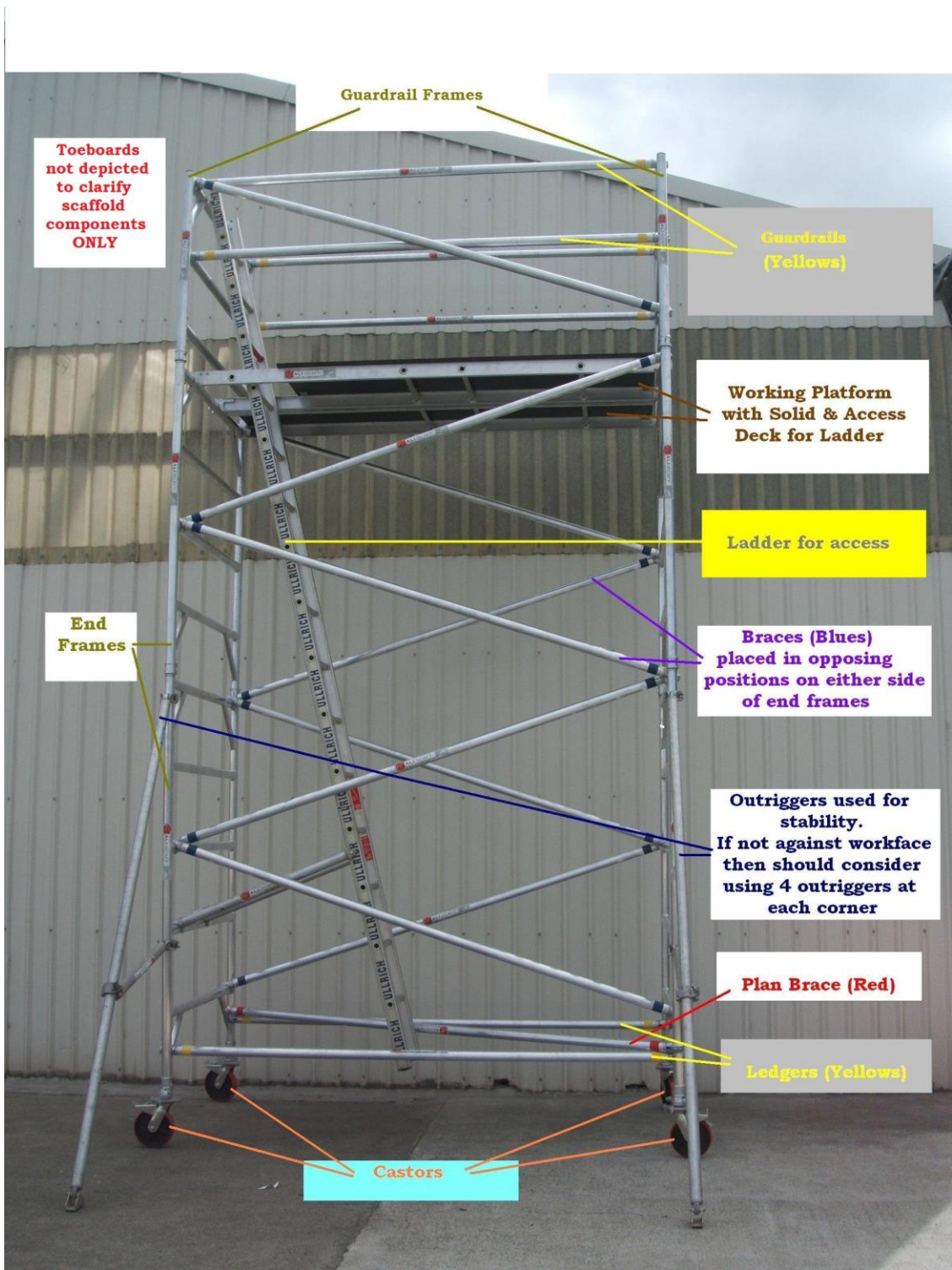
Follow the ALI-SCAFF erection & dismantling procedure when erecting or dismantling a Mobile or Tower.

TOPMOST GUARDRAIL MUST NOT EXCEED 5 METRES IN HEIGHT.



Erection and dismantling procedures for Mobile or Tower

Ali-Scaff Component Identification – Working Platforms MUST have toeboards attached.



ALL Working Platforms MUST have platforms full width, guardrails & toeboards & safe access onto working platform.