WERNER

PRO PLUS

Mobile Aluminium Tower

Instruction Manual

EN 1004-2 en

Contents

I. Safety First

1.1 Introduction

Please read this instruction manual carefully.

This instruction manual shall be available at the location of use of this mobile access tower. Instruction manuals are also available to download at www.wernerco.co.uk.

This product shall only be used in accordance with this manual without any modification.

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO DEATH OR SERIOUS INJURY.

Mobile access towers must always be used in accordance with the national regulations. If any aspect of these instructions conflicts with local regulations please contact Werner UK Sales & Distribution Ltd. for advice.

Please note that diagrams are for illustrative purposes only.

User training courses are available, but must not be used as a substitute for familiarity with this manual.

Werner mobile aluminium tower is light-weight scaffold tower used throughout the building and construction industry for both indoor and outdoor access solutions where a stable and secure platform is required. Ideal for maintenance and installation work or short-term access, the highly versatile towers provide a strong working platform for a variety of heights.

Verification and assessment documentation is held by Werner UK Sales & Distribution Ltd.

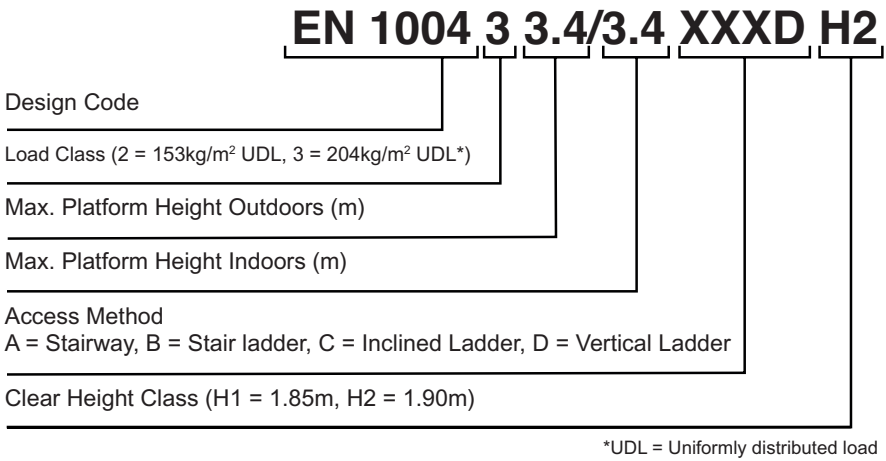
Compliances

The Werner PRO PLUS tower system has been designed, tested, approved and certified to EN 1004-1:2020.

This instruction manual is in compliance with EN 1004-2-en.

I. Safety First

1.2 Tower Designation



*UDL = Uniformly distributed load

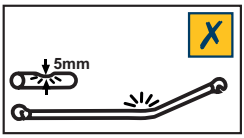
1.2 Maintenance - Storage – Transport

- The Werner mobile tower system is robust and requires little maintenance.
- All components and their parts should be regularly inspected to identify damage, particularly to joints.
- Threads, hinges, and brace latches may be lubricated with light oil. Ensure oil does not contaminate climbing or walking surfaces.
- Safety labels should be kept legible. Replacement labels are available from Werner UK Sales & Distribution Ltd.
- Surfaces should be kept reasonably free of dried paint, plaster etc.
- Use of solvents on wooden platform surfaces and plastic components should be avoided.
- Components should be stored in clean, dry conditions with due care to prevent damage.
- During transportation ensure components are not damaged by excessive strapping forces.

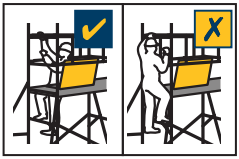
2. Building The Tower

2.1 Pre-Assembly Checks

- Check overhead that the area into which the structure is to be erected contains no obstructions, particularly electrical or radio radiation hazards. The structure is conductive.
- Ensure the ground on which the mobile access tower is to be erected is capable of supporting the tower in use.
- Check the surface is level to within 0.6°. If it is larger than 0.6°, the tower must not be used.
- Only components specified in this manual shall be used with Werner towers. Check all required components are onsite and in a suitable working condition.
- Damaged components shall not be used and must be put beyond use and disposed of according to local regulations.



- Only climb the tower from the inside using the access method provided.



- This tower provides a work platform. It must not be used to access other structures.

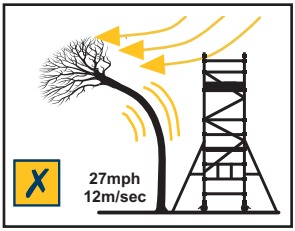
- Tower scaffolds are not designed to be lifted or suspended.
- Ensure the safe working load on the structure is not exceeded.
- Tools and materials should be lifted using a reliable lifting material (e.g. a strong rope) employing a reliable knot (e.g. clove hitch) to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers).

2. Building The Tower

- Check this manual is available and its contents familiar to all those involved.

- If assembling outdoors; check the forecast windspeed.

  - The assembled tower is certified to wind forces equating to 27mph, but handling components under those conditions would be hazardous.

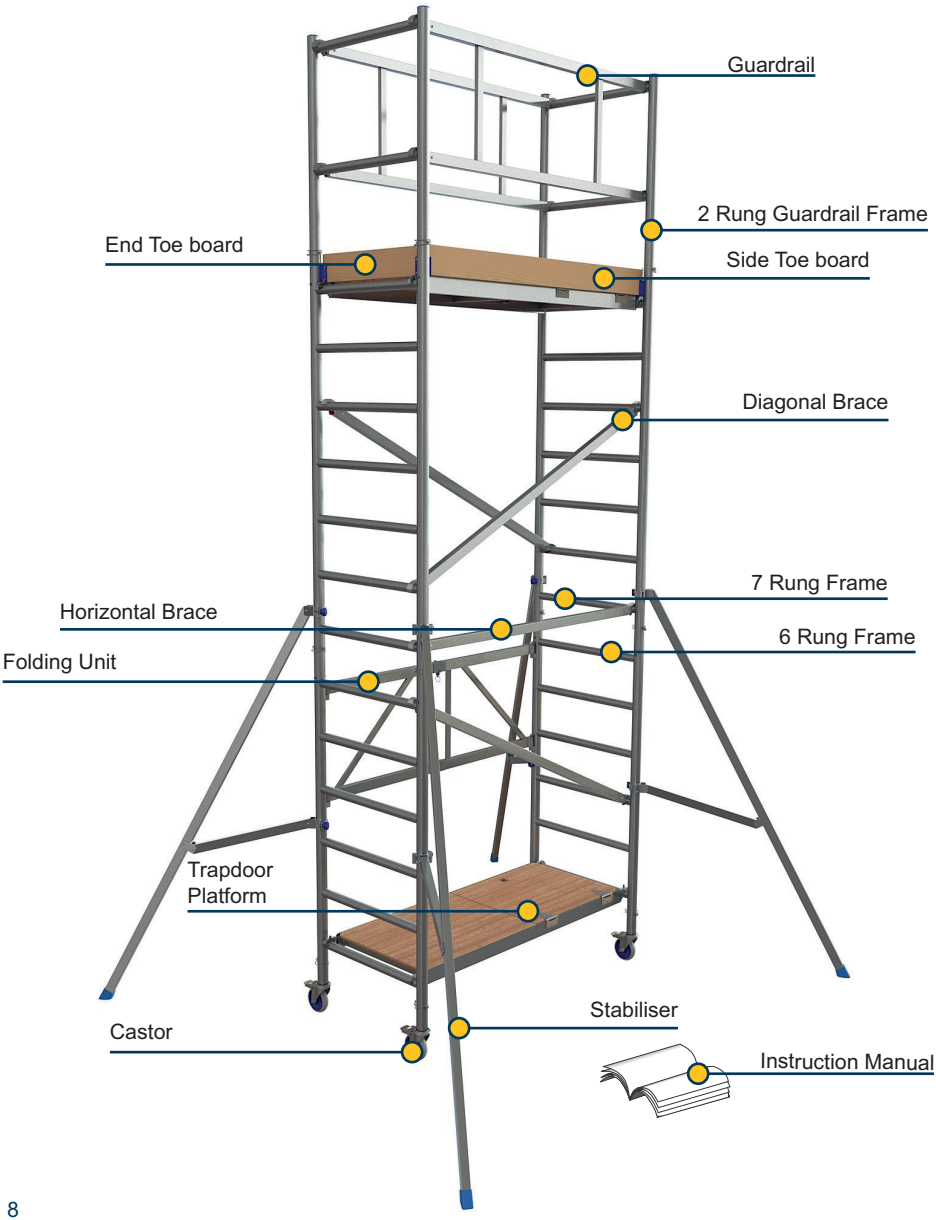


  - Also consider the wind funnelling effect of nearby buildings.

- This structure is designed to be self-supporting under the loading condition requirements of EN 1004-1:2020 and does not require tying in. Consideration should be given to potential wind conditions if the tower is left unattended.

2. Building The Tower

2.2 Component Diagram



2. Building The Tower

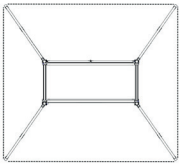
2.3 Quantity Schedule

		Internal or External Use		
	Working Height (m)	2.65	3.65	5.4
Pack Description	Platform Height (m)	0.65	1.65	3.4
Base Pack 1		1	1	1
Extension Pack 2		-	1	1
Extension Pack 3		-	-	1

Pack Contents

Pack description		Base Pack 1	Pack Extension 2	Pack Extension 3
Pack Code		30304	30305	30306
Component Description	Weight (kg)	33.2	18.1	23.6
Folding Unit	2.6	1	-	-
Castor 125mm	0.9	4	-	-
Trapdoor Platform	10.5	1	-	1
6 Rung Frame	4.2	2	-	-
7 Rung Frame	4.5	-	-	2
2 Rung Guardrail Frame	1.9	-	2	-
Frame Connection Tube	1.1	-	4	4
Guardrail	3.2	1	1	-
Diagonal Brace	1.5	-	1	2
Horizontal Brace	1.4	-	1	-
Toe Board Set	2.8	1	-	-
Small Stabiliser	0.5	4	-	-
Large Stabiliser	2.3	-	4	-

2.4 Stabilisers



	Pack 1	Pack 1+2	Pack 1 + 2 + 3
Footprint	1.87m x 1.05m	2.78m x 2.51m	2.78m x 2.51m

2. Building The Tower

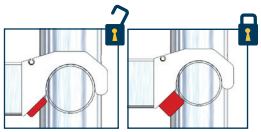
2.5 Assembly

This tower structure must be assembled, and components oriented, in accordance with this instruction manual. Deviation from this instruction manual is not permitted.

THIS TOWER MUST NOT BE USED AS AN ANCHOR POINT FOR PERSONAL FALL PROTECTION EQUIPMENT.

- Tools required:
  - Two double ended spanners, 10/13mm (supplied)
  - One 17mm spanner (supplied)

- The assembly uses the 3T (Through the Trapdoor) method that provides collective fall protection.
  - From the sitting position in the trapdoor opening fit all guardrails before standing on the platform.
  - Fit braces in the locations described and ensure the claws are locked.



- DO NOT stand on an unprotected platform

- The tower may be assembled by a single person, but it is recommended that two or more are used to pass up components on the taller assemblies.

- Components must be lifted within the footprint of the tower using a reliable method such as a strong rope with a clove hitch knot.

- Castor brakes should be locked as soon as the tower base is in position.

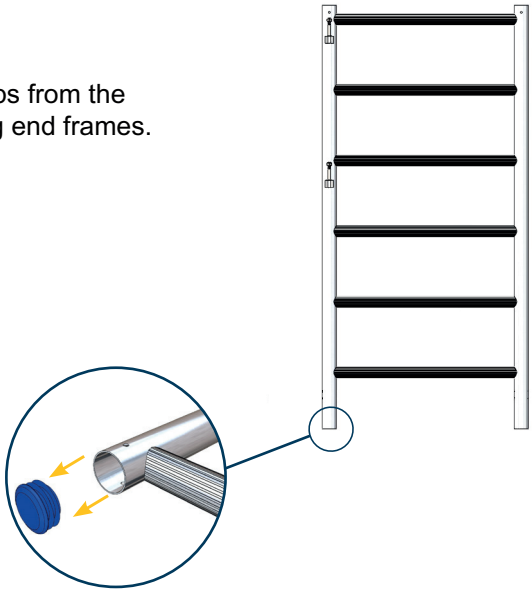
- The tower base should be levelled to within 0.6° before continuing the assembly.

- Stabilisers of the size specified in the quantity schedule should be fitted at the earliest opportunity.

2. Building The Tower

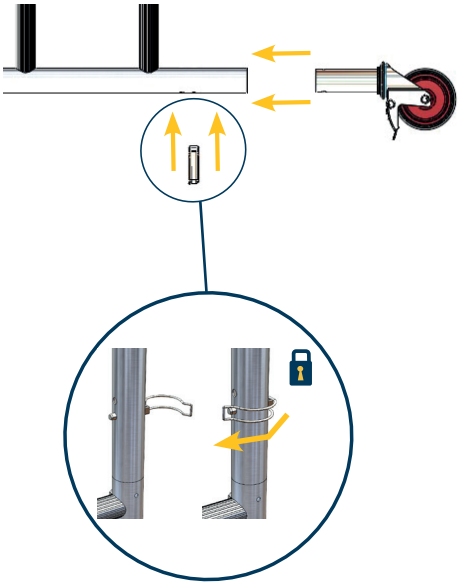
2.5.1 Assembly General

1 Remove the end caps from the bottom of two 6 rung end frames.



2 Insert the castor into one of the end frames and insert the locking pin to secure the castor in place as shown. Repeat procedure with remaining three castors.

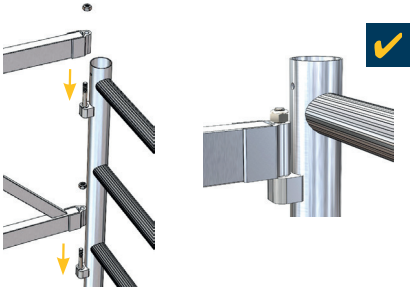
Ensure locking pins on frame members are in locked position before use.



2. Building The Tower

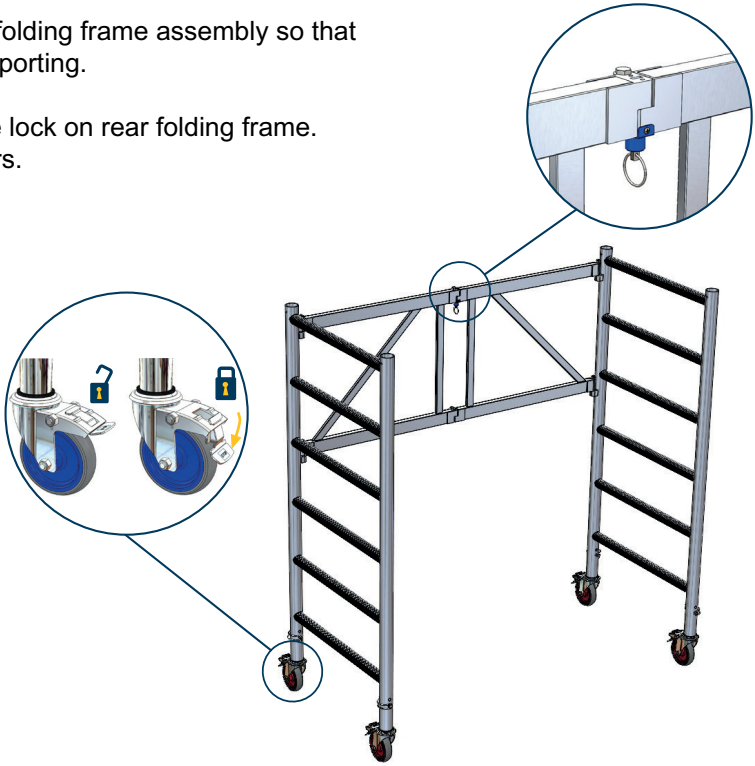
2.5.1 Assembly General

3 Use a 17mm spanner to remove the nuts from the end frames in upright position. Fit the folding unit onto the bolts and re-tighten the nuts.



4 Unfold the folding frame assembly so that it's self-supporting.

Engage the lock on rear folding frame.
Lock castors.



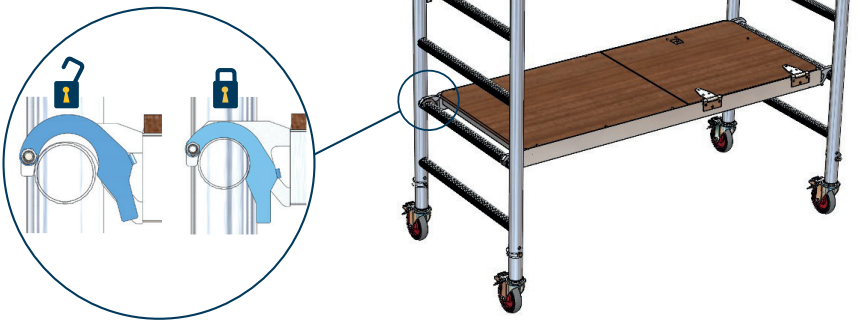
Assembly for 0.65m tower, see page **13** for following steps.
Assembly for 1.65m tower, see page **16** for following steps.
Assembly for 3.4m tower, see page **19** for following steps.

2. Building The Tower

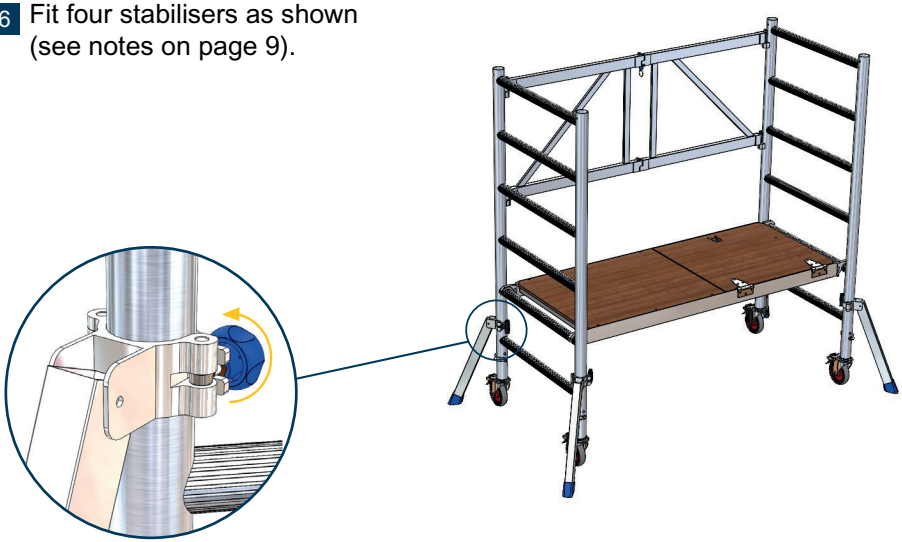
2.5.2 Assembly for 0.65m Platform Height

5 Fit the platform on the 2nd rung of the folding frame. Ensure the wind-locks are engaged.

Do not climb onto the platform until all stabilisers and guardrails are in place.



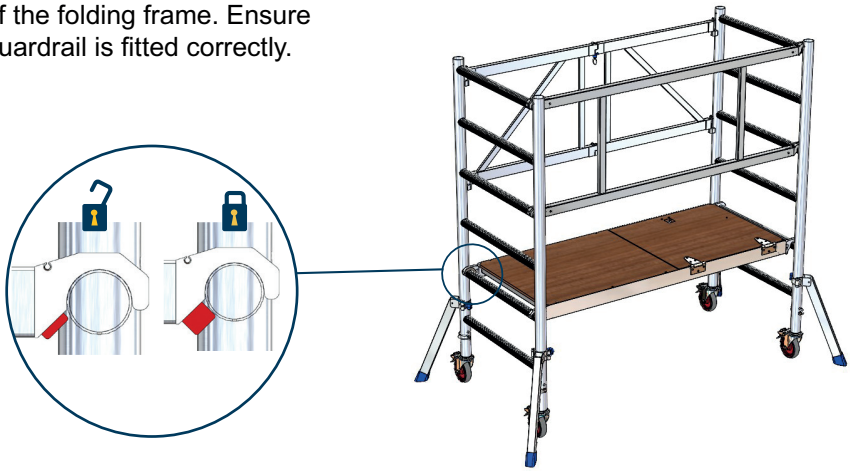
6 Fit four stabilisers as shown (see notes on page 9).



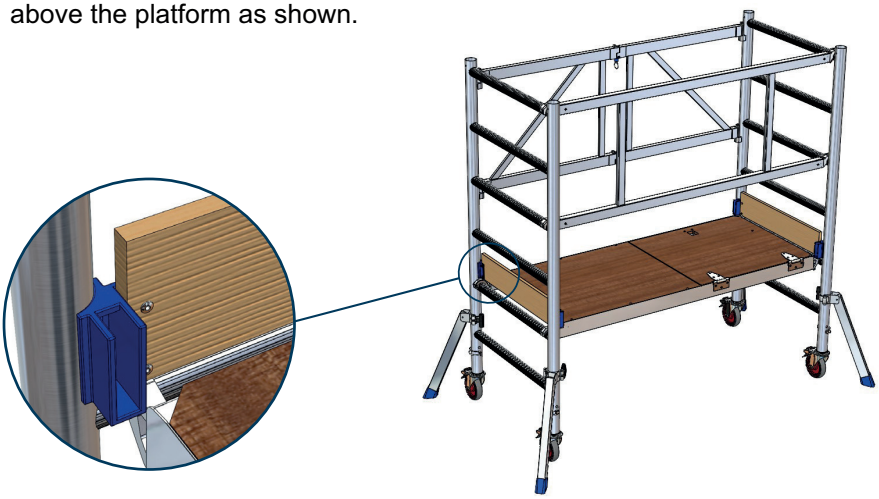
2. Building The Tower

2.5.2 Assembly for 0.65m Platform Height

7 Fit a guardrail on the 6th rung of the folding frame. Ensure guardrail is fitted correctly.



8 Fit two end toe board with holders between the frame above the platform as shown.



2. Building The Tower

2.5.2 Assembly for 0.65m Platform Height

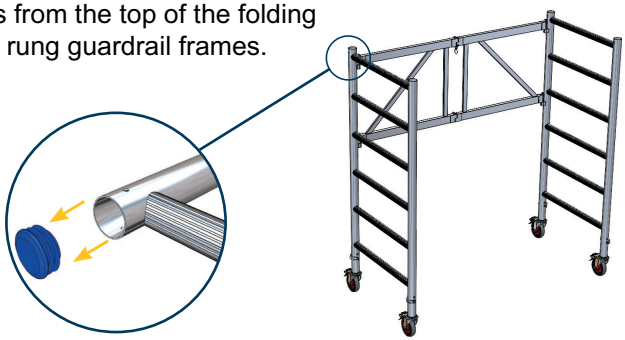
9 Fit two side toe boards into holders as shown.

The 0.65m tower is now complete.

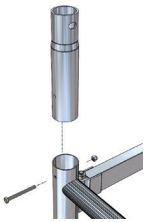
2. Building The Tower

2.5.3 Assembly for 1.65m Platform Height

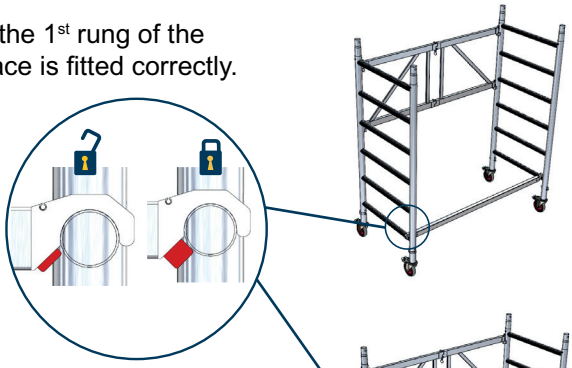
5 Remove the end caps from the top of the folding frame and from two 2 rung guardrail frames.



6 Fit four frame connection tubes on top of the folding frame using the fixings as shown with the spanner supplied.



7 Fit a horizontal brace on the 1st rung of the folding frame. Ensure brace is fitted correctly.



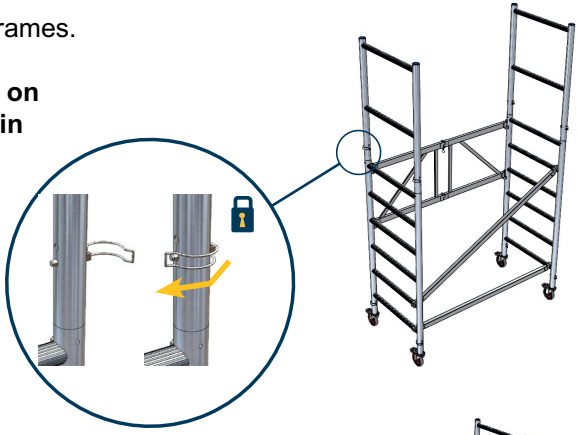
8 Fit a diagonal brace on the 2nd and 5th rungs of the folding frame.

2. Building The Tower

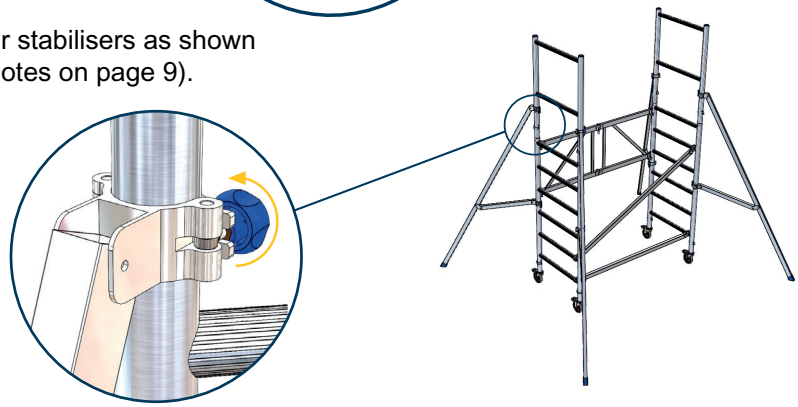
2.5.3 Assembly for 1.65m Platform Height

9 Fit the two guardrail frames.

Ensure locking pins on frame members are in locked position before use.



10 Fit four stabilisers as shown (see notes on page 9).



11 Fit the platform on the 6th rung of the folding frame. Ensure the wind-locks are engaged.

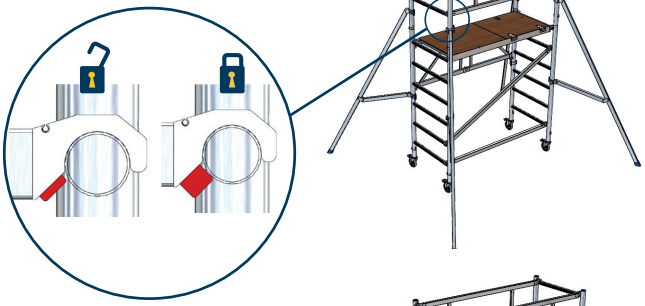
Do not climb onto the platform until all stabilisers and guardrails are in place.

2. Building The Tower

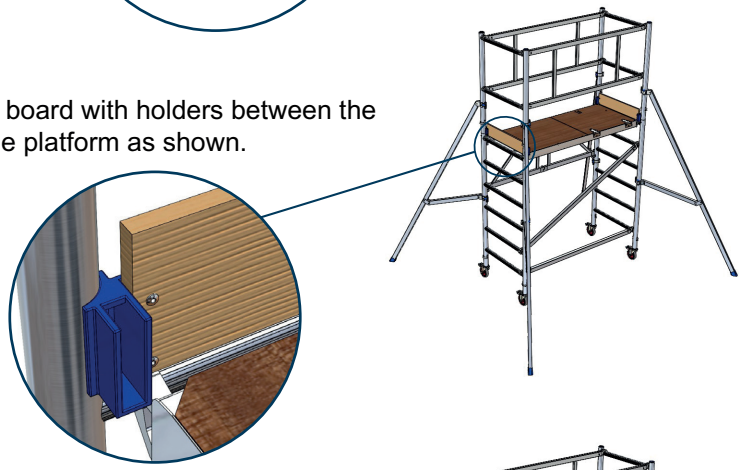
2.5.3 Assembly for 1.65m Platform Height

12 Climb up the inside of the tower and from the trapdoor position, fit both guardrails on the 8th rung (on both sides).

Ensure guardrails are fitted correctly.

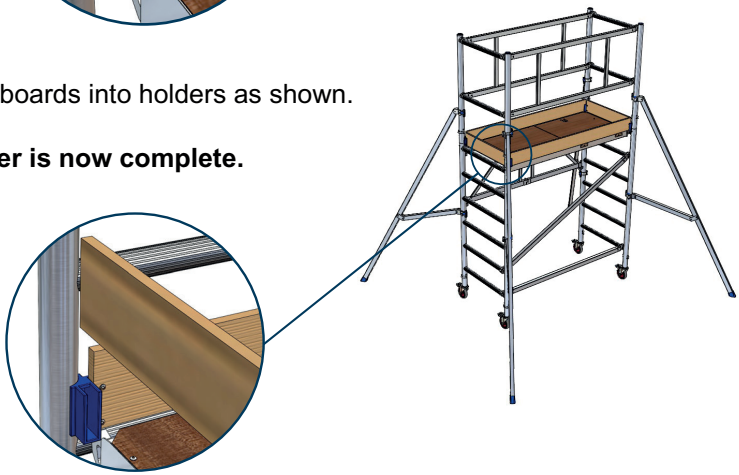


13 Fit two end toe board with holders between the frame above the platform as shown.



14 Fit two side toe boards into holders as shown.

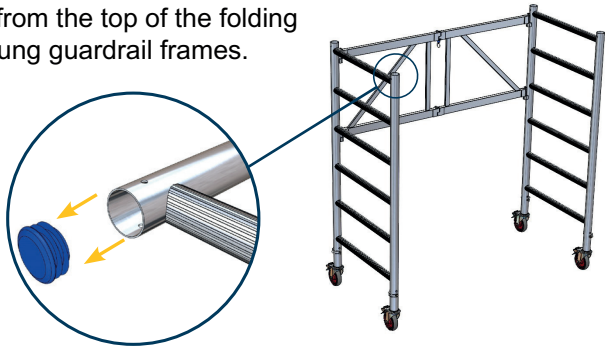
The 1.65m tower is now complete.



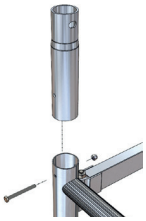
2. Building The Tower

2.5.4 Assembly for 3.4m Platform Height

5 Remove the end caps from the top of the folding frame and from two 2 rung guardrail frames.

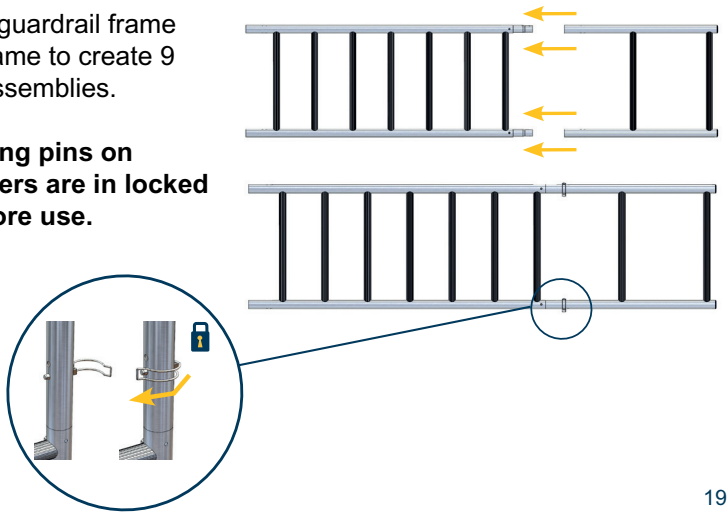


6 Fit four frame connection tubes on top of the folding frame using the fixings as shown with the spanner supplied.



7 Insert 2 rung guardrail frame into 7 rung frame to create 9 rung frame assemblies.

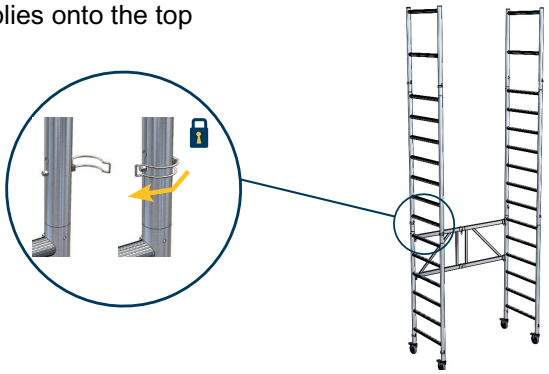
Ensure locking pins on frame members are in locked position before use.



2. Building The Tower

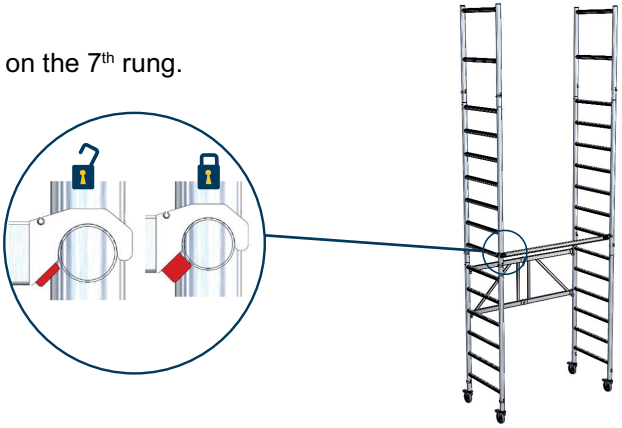
2.5.4 Assembly for 3.4m Platform Height

8 Fit two 9 rung frame assemblies onto the top of the folding frame.



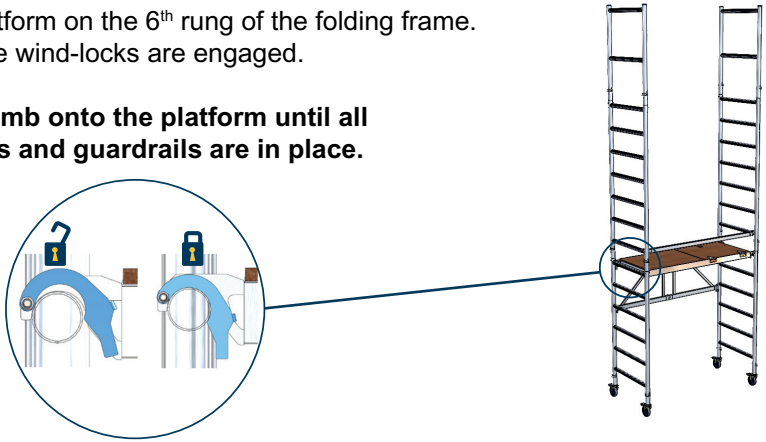
9 Fit a horizontal brace on the 7th rung.

Ensure brace is fitted correctly.



10 Fit the platform on the 6th rung of the folding frame. Ensure the wind-locks are engaged.

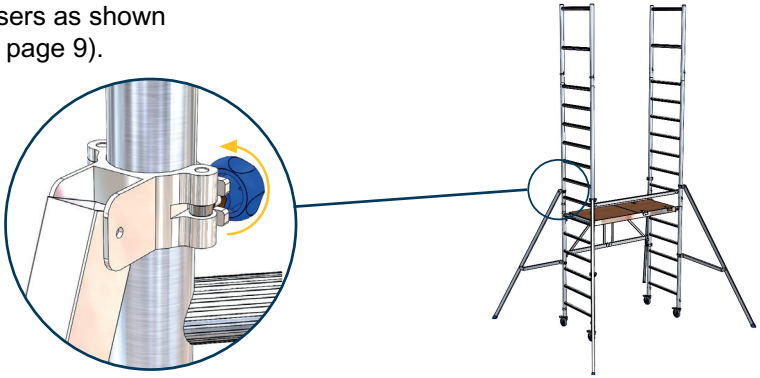
Do not climb onto the platform until all stabilisers and guardrails are in place.



2. Building The Tower

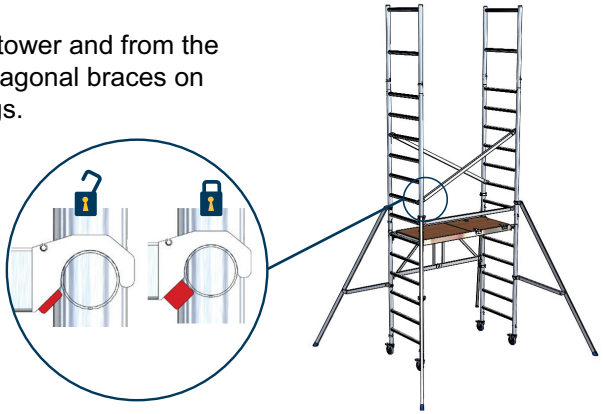
2.5.4 Assembly for 3.4m Platform Height

11 Fit four stabilisers as shown (see notes on page 9).

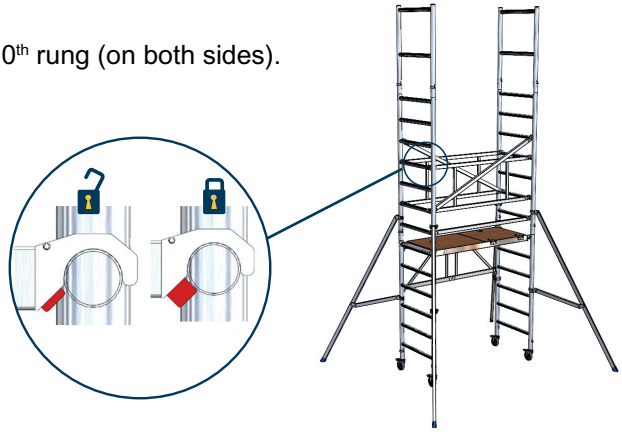


12 Climb up the inside of the tower and from the trapdoor position, fit two diagonal braces on the on the 8th and 11th rungs.

Do not climb onto the platform until all guardrails are in place.



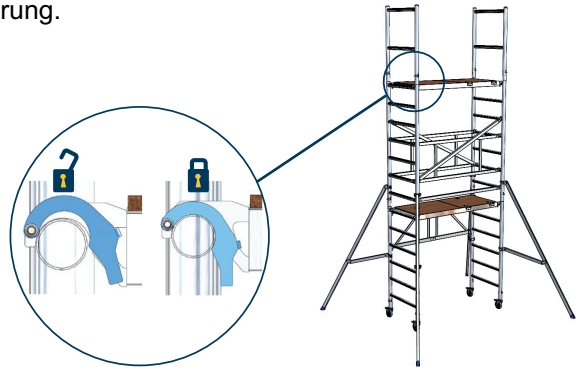
13 Fit two guardrails on the 10th rung (on both sides).



2. Building The Tower

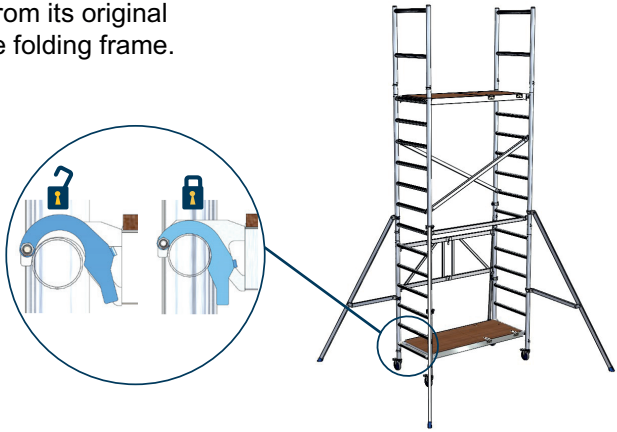
2.5.4 Assembly for 3.4m Platform Height

14 Fit the 2nd platform on the 13th rung.



15 From the trapdoor position, disassemble both guardrails from its original position to the ground.

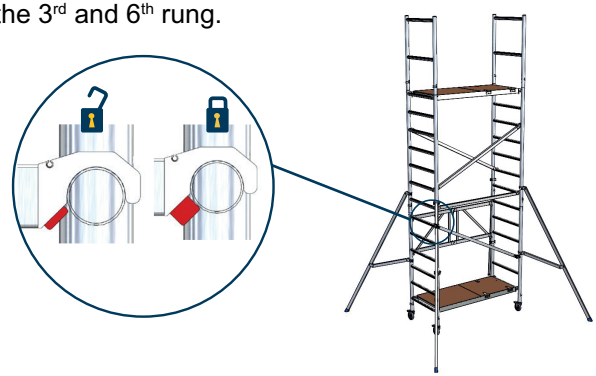
16 Reposition the 1st platform from its original position to the 1st rung of the folding frame.



2. Building The Tower

2.5.4 Assembly for 3.4m Platform Height

17 Fit a diagonal brace on the 3rd and 6th rung.

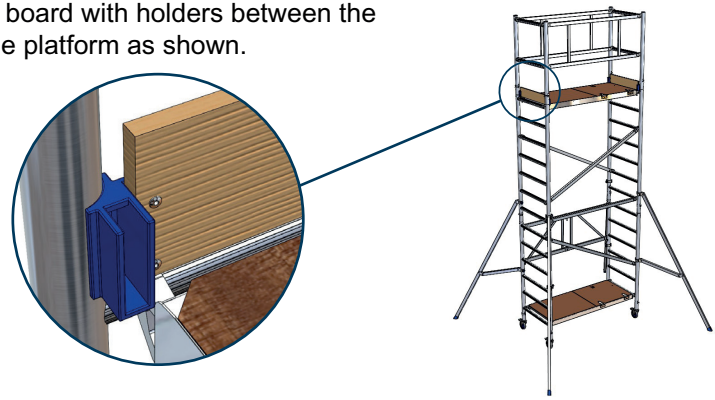


18 From the trapdoor position, fit two guardrails on the 15th rung (on both sides).

2. Building The Tower

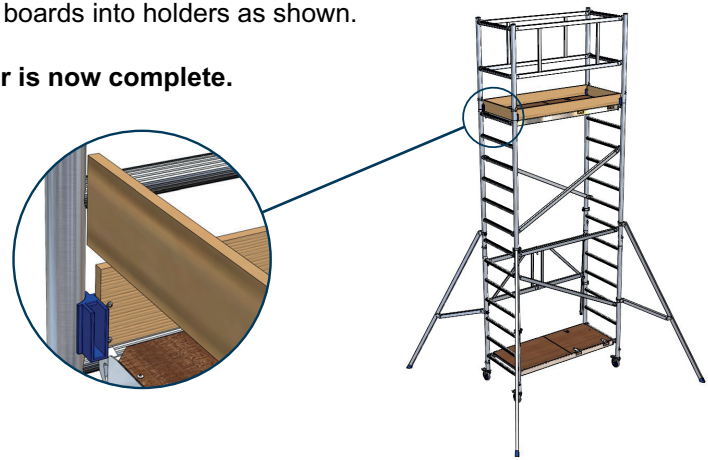
2.5.4 Assembly for 3.4m Platform Height

19 Fit two end toe board with holders between the frame above the platform as shown.



20 Fit two side toe boards into holders as shown.

The 3.4m tower is now complete.



2. Building The Tower

2.6 Dismantling

To dismantle the tower, reverse the assembly procedure.

3. Using The Tower

3.1 Safety Checklist

This inspection must be carried out before initial use, after moving the tower, if any environmental condition change that may affect the tower and at regular intervals determined by local regulations.

Local regulations may also specify other information to be supplied to the user or attached to the structure. These regulations must be followed.

3. Using The Tower

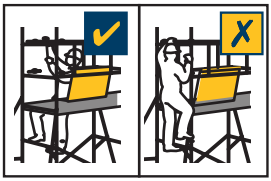
3.2 Pre-Use Checklist

Tower upright and level to within 0.6°	✔
Castor brakes locked and all wheels in ground contact	✔
All interlock clips engaged	✔
Braces/Guardrails correctly positioned	✔
All claws latched	✔
All platform wind-locks engaged	✔
Correct stabiliser size fitted and positioned	✔
Toe boards fitted to working platform	✔
Instruction manual available to user	✔
No environment changes affecting safe use have occurred or are likely	✔
Tower is the correct height for intended use	✔

3. Using The Tower

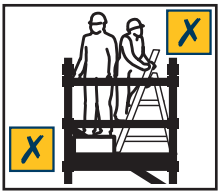
3.3 Use

- This tower must not be used as an anchor point for personal fall arrest equipment.
- The tower must only be climbed on the inside, using the access method specified.



- This tower provides a work platform. It must not be used to access other structures.

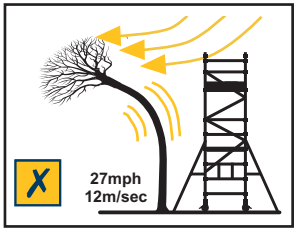
- Raising and lowering tools and materials must only be conducted within the tower footprint.
- Only one platform at a time can be used as a working platform. Toe boards must be fitted to that platform.
- Ensure the safe working load on the structure is not exceeded. The number of people permitted on the tower at any time is limited by the safe working load.
    - 1.5m platform rated at 184kg UDL
- Do not use boxes, stepladders or other objects to gain extra height.



- Beware of horizontal forces that might cause instability. Maximum horizontal force = 30kg.

3. Using The Tower

- Beware of high winds. This tower has been assessed as a freestanding structure for wind loads equating to 27mph (43kph, 12m/s). If greater windspeeds are forecast the tower must be moved to a sheltered location or dismantled while it is still safe to do so.



- Sheets, tarpaulins, or signage must not be attached to this tower outdoors.

3. Using The Tower

3.4 Movement Of The Assembled Prefabricated Tower Scaffold

MOVING A FULLY ASSEMBLED TOWER CAN BE EXTREMELY HAZARDOUS.

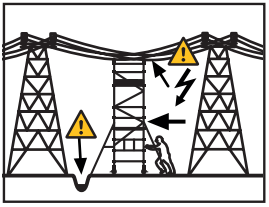
If there is any doubt about the safety of the move, the tower must be dismantled and reassembled in the new location.

This tower is not designed to be lifted or suspended.

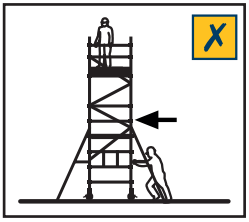
Ensure gloves or other suitable hand protection is worn.

Before

- Beware of rough, sloping ground and high winds. Tower stability is improved by reducing height.



- Survey the route to be taken. Assess the ground condition/slope and any overhead obstructions or hazards and wind conditions.



- Ensure there are no persons, tools, or materials on the tower.
- Release the castor brakes.
- Release the stabiliser top clamp to allow the feet to be raised a maximum of 25mm. Re-tighten the clamps.

3. Using The Tower

During

- The tower must be moved only by manual effort, pushing at the base of the tower.
- Constant attention must be given to the position of the castors, stabiliser feet and the top of the tower.
- If there is any resistance to movement, stop and investigate the reason before continuing.

After

- As soon as the move is complete; lock the castor brakes, lower the stabiliser feet, and perform the pre-use inspection.

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