



INSTRUCTION MANUAL
MOBILE ACCESS TOWER

CONTENTS










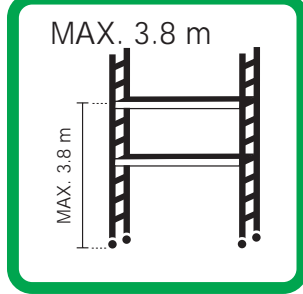
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	Read the instructions		Do not climb outside of the tower
	Maximum load - Load includes user, tools, materials etc.		Do not use a ladder on the platform
	Do not use on uneven ground		Do not move the tower when in use
	Do not side load		Minimum 2 Person Build
	Do not use in adverse weather		Maximum Platform Height 3.8m

SAFETY FIRST

Introduction

Please read this guide carefully. Please note that diagrams are for illustrative purposes only.

User guides are also available to download from our website at www.wernerco.co.uk.

Mobile Access aluminium scaffold towers are designed for DIY and Light Trade.

The law requires that personnel erecting, dismantling, altering or inspecting towers must be competent. Any person erecting the product described in this user guide must have a copy of this guide. For further information on the use of mobile access and working tower visit our website at www.wernerco.com or consult the PASMA website at www.pasma.co.uk.

Verification and assessment documentation is held by Werner Co.

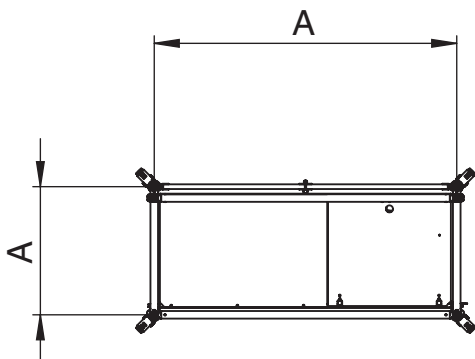
If you need further information, design advice, additional guides or any other help with this product, please contact Werner Co. on **+44 (0)1621 745900** or email **uk.customercare@wernerco.com**.

Safe Use

- 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 highly conductive and must not be used when there is a risk of lightning strikes.
- Ensure the ground on which the Mobile Access tower is to be erected is capable of supporting the tower.
- **The tower has a single working level with a safe working load of 140kg. All platforms may be used for working, but only one should be used at any one time.**
- Before each use:
 - Check that each prefabricated tower scaffold is complete and correctly assembled.
 - Check that the prefabricated tower scaffold is vertical and make any adjustments as required.
 - Check that no environment changes will affect the safe use of the structure.
- Tower must only be used on level ground with max. slope of 10mm/1m.
- Do not use ladders, steps, boxes or similar, to gain additional working height.
- Only access Mobile Access Base Pack 1 using the method described within this instruction manual
- Only climb the tower from the inside using the access method provided.
- Tower scaffolds are not designed to be lifted or suspended.
- Beware of horizontal forces (e.g. power tools) which could generate instability.

Maximum horizontal force per working bay = 30kg

- 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.
- Safe working loads, normally expressed in kN/m², are expressed below in kg per defined working area.



DEFINED WORKING AREA	MAX. SAFE WORKING LOAD (UNIFORMLY DISTRIBUTED INCLUDING PERSONS)	LOAD CLASS	MAX NO. OF PERSONS *
A	140kg	2	1

* Persons are assumed to be 122kg (Reference to HSE - Revision of body size criteria in standards Protecting people who work at height - Research report 342)

Access Classes

The Access Class provided for climbing this tower is: Access Class 'D' (Vertical Ladder).

SAFETY FIRST

Lifting of Individual Tower Components

- Raising and lowering components, tools and/or materials by rope should be conducted within the tower base (i.e. within the area bounded by the stabilisers). Ensure that the safe working load of the supporting decks and the tower structure is not exceeded.

Movement of the assembled prefabricated tower scaffold

Ensure gloves or other suitable hand protection is worn.

BEFORE

The safe movement of any prefabricated tower scaffold shall be included in a specific risk assessment and take into account:

- Site conditions:
 - Ground surface (such as potholes, unstable surfaces, inclines)
 - Overhead obstructions (such as live electrical cables or building members)
- Dimensions of the tower structure
- Consequences of overturning

If the site conditions are not adequate to permit the safe movement of a mobile tower structure, then it must not be moved.

DURING

- Mobile tower structures shall be moved with the upmost caution:
- Any stabilisers fitted must remain in position and raised no more than 25mm from the ground.
- Prefabricated tower structures must only be pushed using manual effort at or near the base.
- Movement of a mobile tower structure shall be no faster than 0.25 m/s (very slow walking pace) and sufficient number of persons shall be used to ensure the movement is fully under control.
- No persons, tools or materials shall be left on the mobile tower structure during movement.

AFTER

- After movement, the pre-use checklist on the final page shall be used to determine tower integrity.

Maintenance - Storage - Transport

- All components and their parts should be regularly inspected to identify damage, particularly to joints. Lost, cracked or dented components shall be replaced.
- Brace claws, frame interlock clips, trap door latches and platform wind locks should be regularly checked to ensure they lock correctly.
- Components should be stored in clean, dry conditions with due care to prevent damage.
- Ensure components are not damaged by excessive strapping forces when transported.
- Product is not designed to be pressure washed.

Ballast Weights

Ballast shall always be fitted when specified.

Ballast must be of solid materials (i.e. not sand, water or other liquid or granular materials) and must be securely attached to the tower structure.

Ballast weights placed at the base of the structure will increase tower self-weight, thereby increasing stability. Care must be taken to ensure that the weight of the ballast weights used is known, and that the total safe load on the structure, and particularly on the castors, is not exceeded.

See quantity schedule on page 10 for ballast information.

Note: uniformly distribute ballast to all four corners of tower to lowest rungs.

SAFETY FIRST

During Assembly, Use and Dismantling

- As part of the risk assessment, wind and weather conditions must be taken into account and reviewed regularly, depending on the duration the structure is on site.
- The structure has been assessed for wind loads equating to 27 mph (43 kph, 12 m/s).
- The effect of on-site wind conditions must be considered prior to the assembly of a tower. The tower must not be used in wind speeds above this. If greater wind speeds are forecast, the tower must be dismantled while it is still safe to do so.
- Sheets, tarpaulins, cladding or similar, must not be attached to the tower as these will significantly increase any side loads from wind and will potentially make the tower unstable.
- Beware of wind turbulence and funnelling effects around buildings.
- Excessive side loads from working on the tower, i.e. through drilling or pulling, may also make a tower unstable.

The maximum allowable side load on a tower is 30kg.

- Do not abuse equipment. Damaged, incorrect or incompatible components should not be used.
- The structure is highly conductive and must not be used when there is a risk of lightning strikes.
- Exercise caution when touching unprotected metal components in extreme high or low temperatures.
- If the tower is damaged in any way while in service, it shall not be used again until the damaged components are replaced.

WIND DESCRIPTION	BEAUFORT SCALE	BEAUFORT NO	SPEED IN MPH	SPEED IN M/SEC
Medium Breeze	Raises dust and loose paper, twigs snap off	4	8-12	4-6
Strong Breeze	Large branches in motion, telegraph wires whistle	6	25-31	11-14
Gale Force	Walking is difficult	8	39-46	17-21

Ties

This structure is designed to be self-supporting under the loading condition requirements of BS 1139-6:2014 and does not require tying in. Consideration should be given to potential wind conditions if the tower is left unattended - see 'During Assembly, Use and Dismantling' section above.

Stabilisers

Stabilisers shall always be fitted when specified.

Attach one stabiliser to each corner of the tower as shown. Ensure stabilisers feet are equally spaced to form a square.

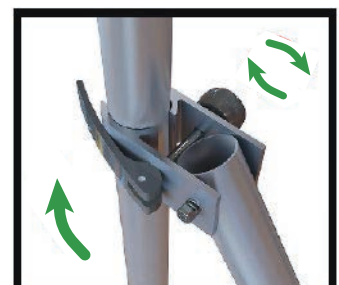
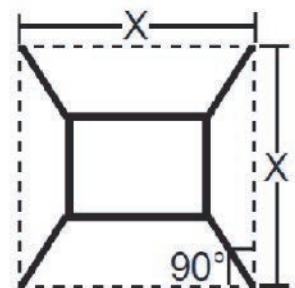
Telescopic stabilisers must always be fully extended.

Position the lower clamp so that the lower arm is as close to horizontal as possible. Adjust the position of the upper clamp to ensure the stabiliser foot is in contact with the ground. Ensure clamps are secure.

Thumb screw - adjusts pressure of the clamp

Lever - operates clamping mechanism

If stabiliser is loose, make adjustment by tightening the thumb screw.



SAFETY FIRST

Assembly Procedure

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

A minimum of two persons are recommend for assembly and disassembly of this prefabricated tower structure. The maximum number of persons for assembly is stated in the safe loading table.

Platforms must be installed with vertical distances between them not exceeding 2.1m when assembling and dismantling.

The maximum number of people on a working platform level permitted to simultaneously exert a horizontal load of 30kg is:

- 1 person per bay for bays less than 4m long and
- 2 persons per bay for bays greater than 4m in length

Check that all components, tools and safety equipment are on site (refer to quantity schedule), undamaged and that they are functioning correctly, particularly the brace claw locking mechanism.

Full inspection guidance can be found at www.wernerco.com.

Damaged or incorrect components shall not be used.

Component weights can be found in the quantity schedule.

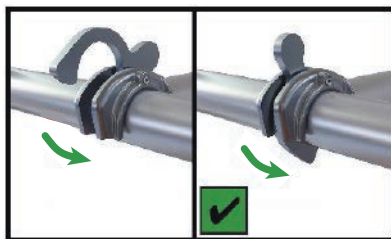
Check that the ground on which the tower structure is to be erected and moved is capable of supporting the tower and with max. slope of 10mm/1m.

Check overhead that the area into which the tower structure is to be built contains no obstructions, particularly electrical or radio radiation hazards.

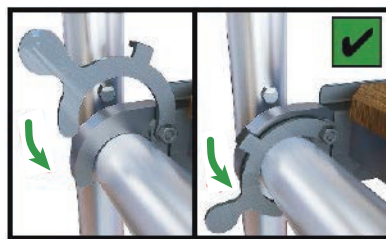
When positioning the tower take into account risk of collision with the tower e.g. from pedestrians, vehicles or doors. Secure doors (not fire exists) and windows where possible in the work area.

Never stand on an unguarded platform positioned above the first rung of a tower structure. If your risk assessment shows it necessary, you may also need to guardrail platforms at this level.

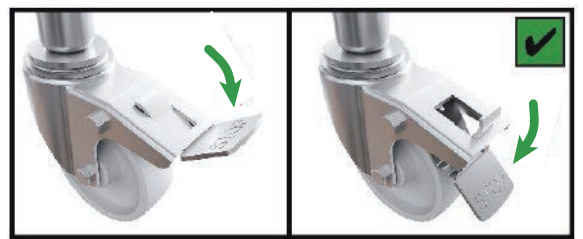
Tower components should be lifted using a reliable lifting material (e.g. a strong rope), employing a reliable knot (e.g. clove hitch), to ensure safe fastening and always lift within the footprint of the tower structure.



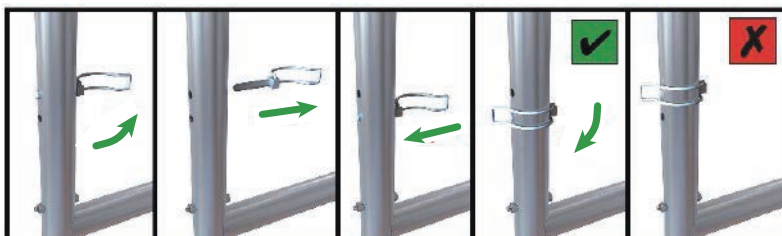
Ensure braces and guardrails are fitted correctly.



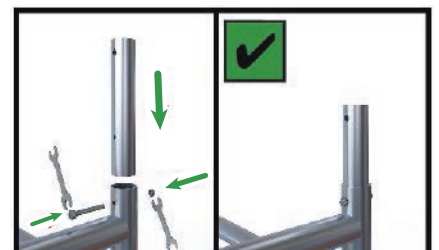
Ensure wind locks are engaged before moving onto the deck levels.



Ensure Castors are locked prior to use.

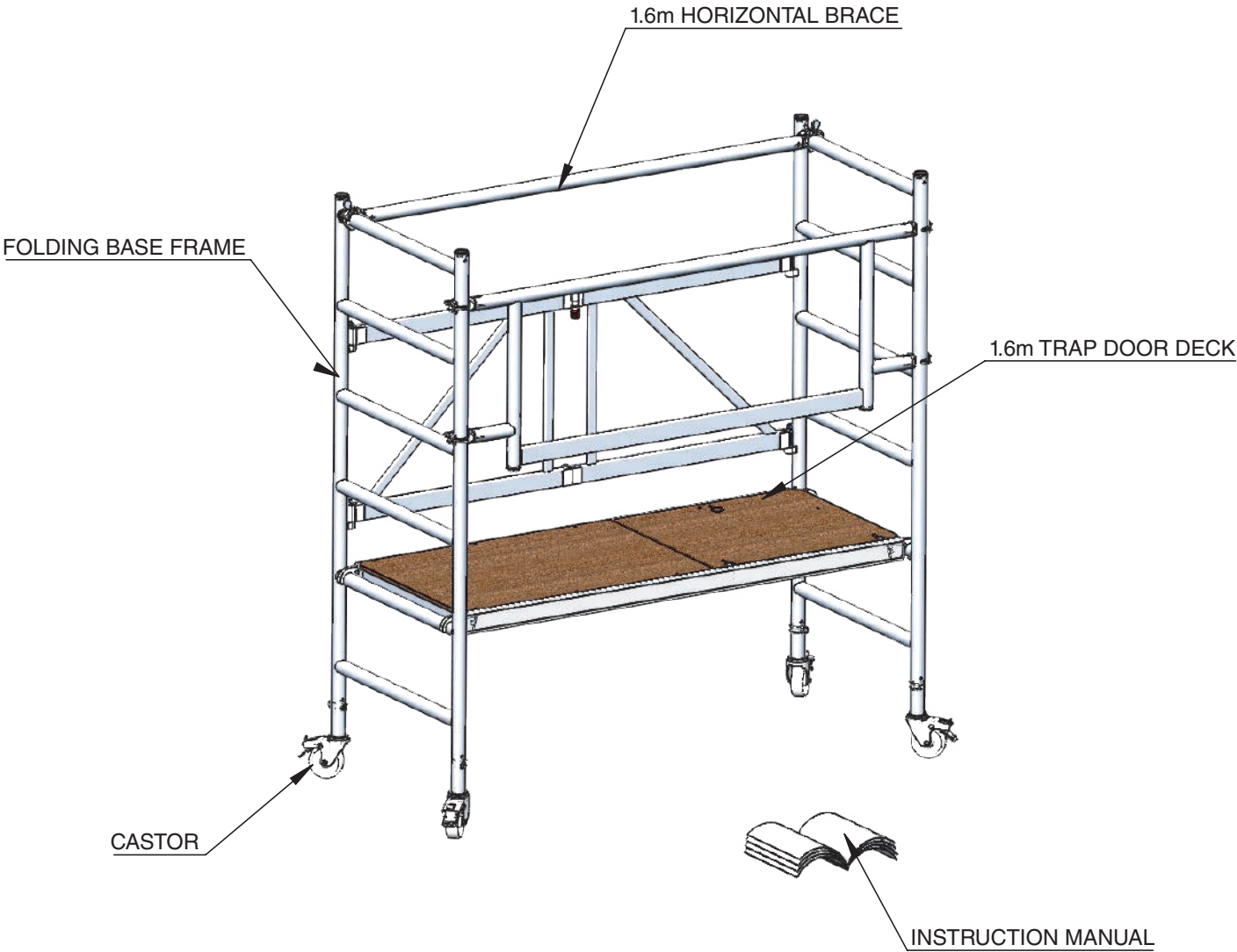


Ensure pins on frame members are in the 'locked' position during use.

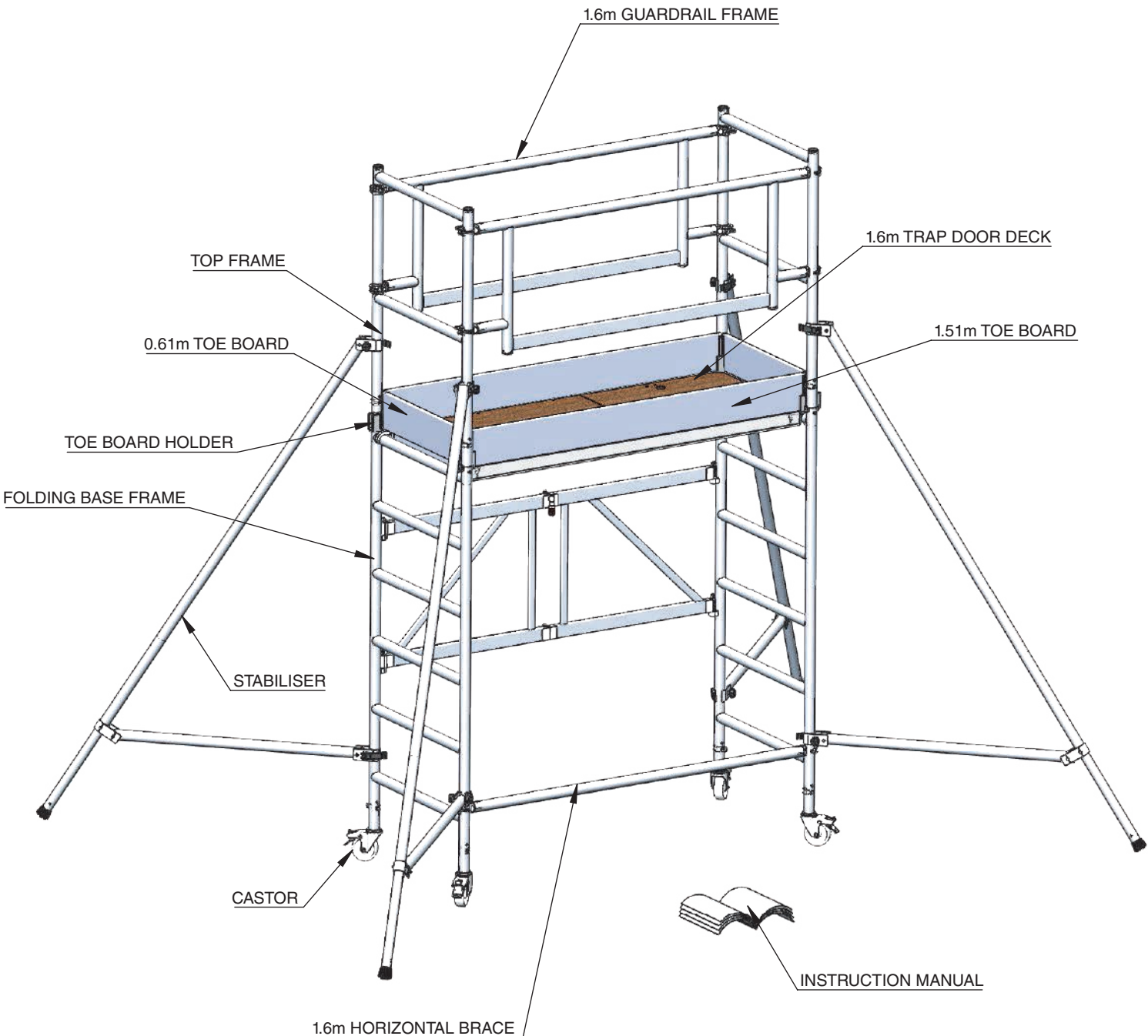


Ensure spigots are fitted correctly.

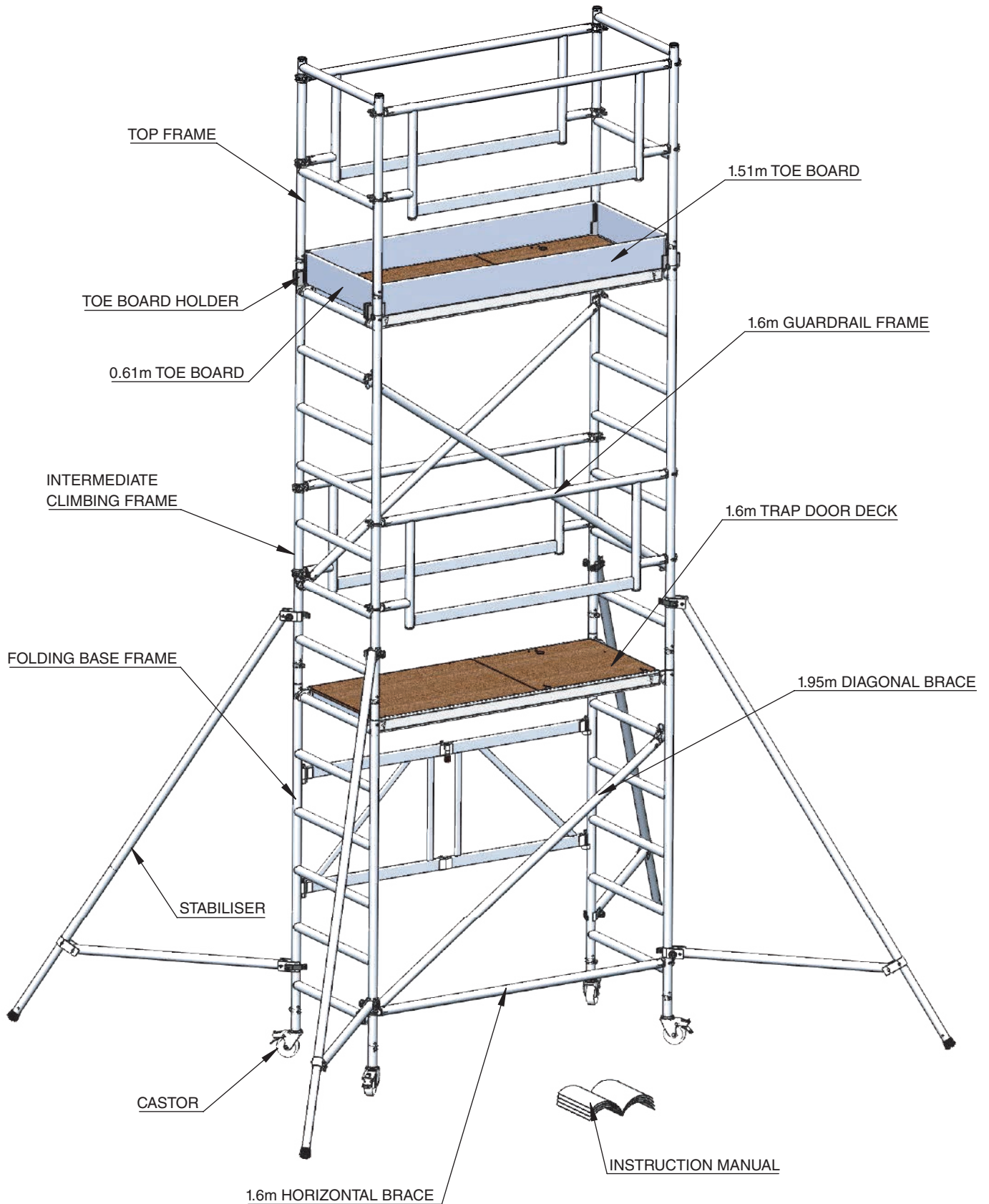
COMPONENT DIAGRAM - MOBILE ACCESS BASE PACK 1



COMPONENT DIAGRAM - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2



COMPONENT DIAGRAM - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3



COMPONENT QUANTITY & SAFETY DATA SCHEDULE

MOBILE ACCESS TOWER - PACK CONTENTS						
Component Description & Weight			Pack Description >	MOBILE ACCESS TOWER BASE PACK 1	MOBILE ACCESS TOWER EXTENSION PACK 2	MOBILE ACCESS TOWER EXTENSION PACK 3
			Composite Code >	30301	30302	30303
CASTOR - 4" DIA.	1.2	kg		4	-	-
FOLDING BASE FRAME	10.8	kg		1	-	-
1.6m TRAP DOOR DECK	10.4	kg		1	-	1
1.6m GUARDRAIL FRAME	2.9	kg		1	1	2
1.6m HORIZONTAL BRACE	1.2	kg		1	-	-
TOE BOARD HOLDER	0.1	kg		-	4	-
0.61m TOE BOARD	0.8	kg		-	2	-
1.55m TOE BOARD	1.9	kg		-	2	-
TOP FRAME	1.8	kg		-	2	-
TELESCOPIC STABILISER	3.0	kg		-	4	-
1.95m DIAGONAL BRACE	1.3	kg		-	-	3
INTERMEDIATE CLIMBING FRAME - 7 RUNG	4.6	kg		-	-	2
INSTRUCTION MANUAL	-	kg		1	1	1
TOTAL WEIGHT OF PACK CONTENTS (kg) >				30	25	31

MOBILE ACCESS TOWER - QUANTITIES & SAFETY DATA						
3T METHOD			INTERNAL OR EXTERNAL USE			
Code	Pack / Kit / Assembly Description	Working Height (m) >	2.7	3.8	5.8	
		Platform Height (m) >	0.7	1.8	3.8	
30301	MOBILE ACCESS TOWER BASE PACK 1		1	1	1	
30302	MOBILE ACCESS TOWER EXTENSION PACK 2		-	1	1	
30303	MOBILE ACCESS TOWER EXTENSION PACK 3		-	-	1	
TOTAL SELF WEIGHT OF TOWER (kg) >			30	55	86	
MAX. LEG LOAD EXERTED (kg) >			83	51	84	
BALLAST REQUIRED - INTERNAL USE (kg) >			30	-	-	
BALLAST REQUIRED - EXTERNAL USE (kg) >			60	-	-	
MAX. NO. OF PERSONS ON ANY ONE PLATFORM UNIT >			1	1	1	
MAX. WORKING LOAD ON ANY ONE PLATFORM UNIT (kg u.d.l) >			140	140	140	
MAX. NO. OF PERSONS PERMITTED ON THE TOWER DURING ASSEMBLY & DISMANTLING >			1	1	1	
MAX. NO. OF SIMULTANEOUS WORKING PLATFORMS PERMITTED >			1	1	1	
MAX. NO. OF PERSONS PERMITTED ON THE WORKING PLATFORM DURING USE						
HIGHEST WORKING PLATFORM DURING USE (m) >			0.7	1.8	3.8	
2ND / 3RD / 4TH / 5TH / 6TH HIGHEST WORKING PLATFORM DURING USE >			-	-	-	
MAX. SAFE WORKING LOAD ON THE WORKING PLATFORM (kg u.d.l)						
HIGHEST WORKING PLATFORM (kg u.d.l) >			140	140	140	
2ND / 3RD / 4TH / 5TH / 6TH HIGHEST WORKING PLATFORM (kg u.d.l) >			-	-	-	
MAX. SAFE WORKING LOAD ON THE ENTIRE TOWER SCAFFOLD (kg u.d.l) >			140	140	140	
MAX. WORKING PLATFORM HEIGHT FOR INTERNAL USE (m) >			0.7	1.8	3.8	
MAX. WORKING PLATFORM HEIGHT FOR EXTERNAL USE (m) >			0.7	1.8	3.8	
LOAD CLASS (kN/m2) >			2	2	2	
ACCESS CLASS >			D	D	D	

BUILD METHOD - MOBILE ACCESS BASE PACK 1

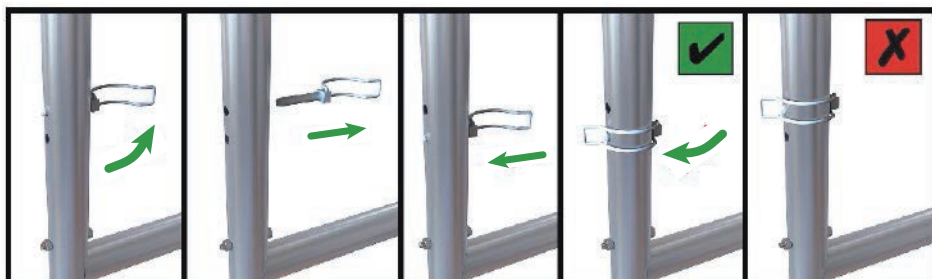
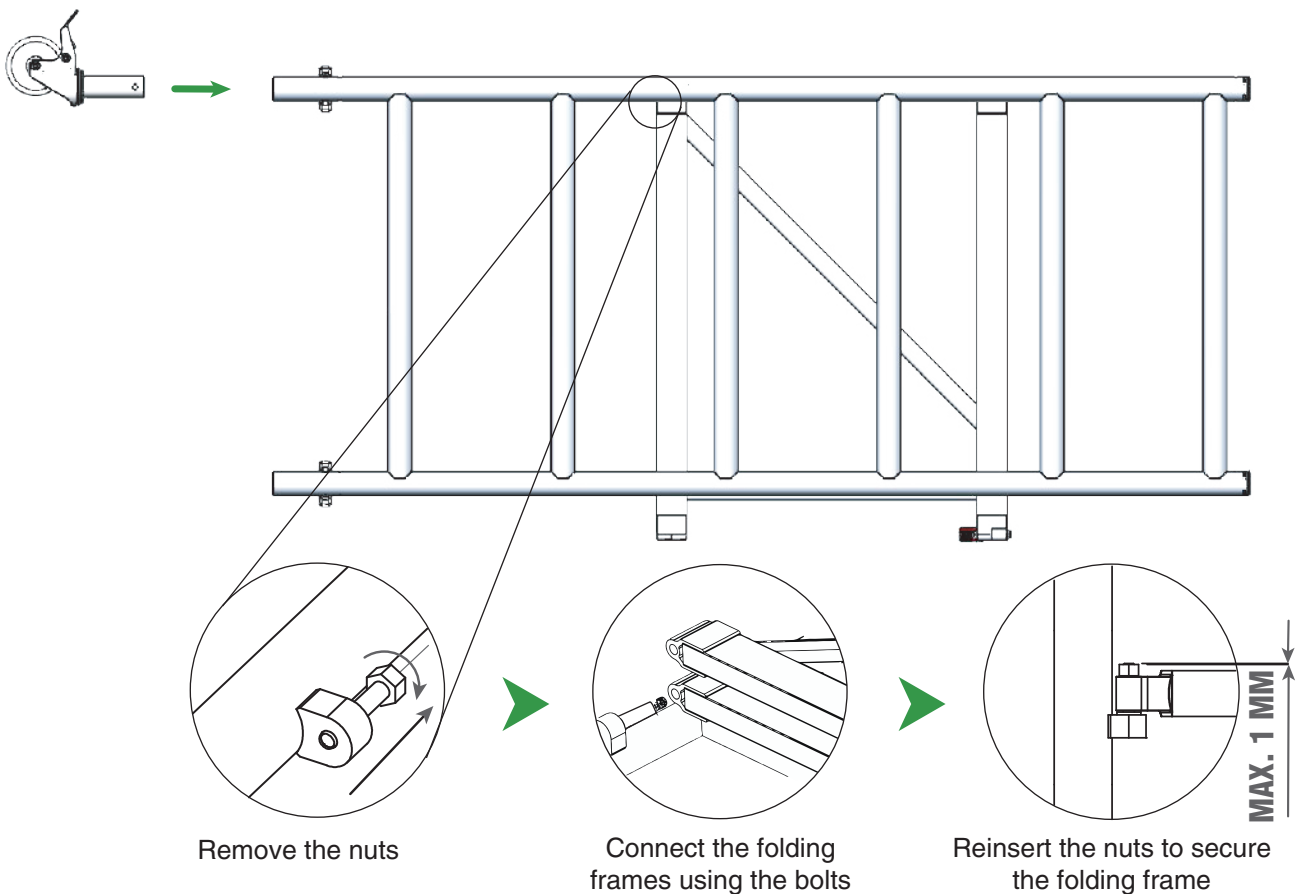
When building the Mobile Access Tower:

- To comply with 'Work at Height Regulations' we show assembly procedures with platforms every 2 metres in height and the locating of guardrails in advance of climbing onto a platform to increase safety and reduce the risk of a fall.
 - Never stand on an unguarded platform positioned above the first rung of a tower. If your risk assessment shows it necessary, you may also need to guardrail platforms at this level.
- The procedure illustrated shows a 2.7m working height tower build.

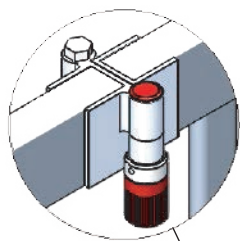
Werner recommend two persons are used to build aluminium Mobile Access Towers. Only climb the tower using the method shown.

1.1 ►

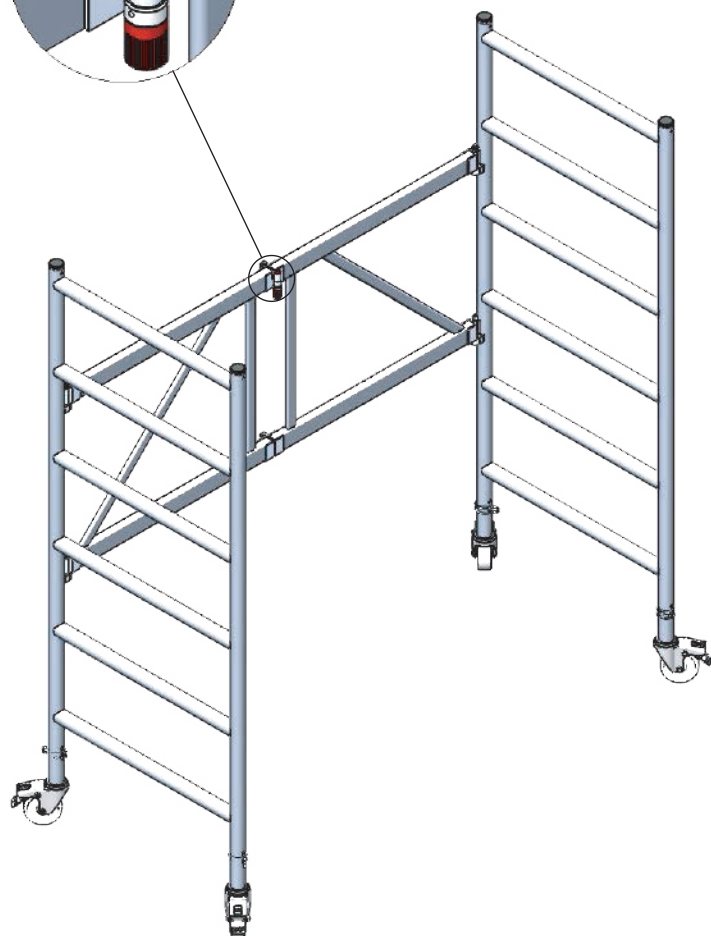
Insert the Castor into one of the Folding Frame's uprights and secure it using the locking pin as shown below. Repeat with the remaining three Castors. To connect the folding frames, remove the nuts from the uprights and connect the folding frames using the bolts. Reinsert the nuts to secure the frames.



BUILD METHOD - MOBILE ACCESS BASE PACK 1

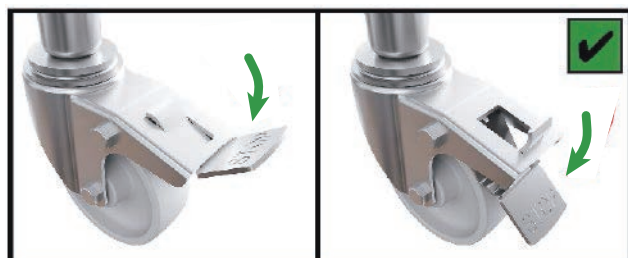


Ensure lock is engaged.



1.2 ➤

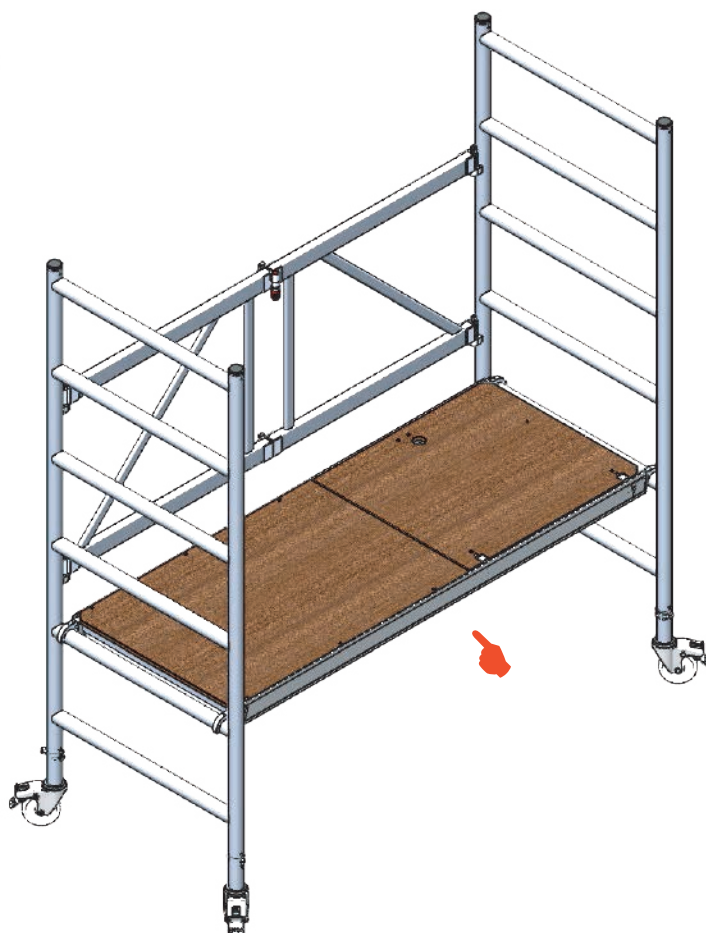
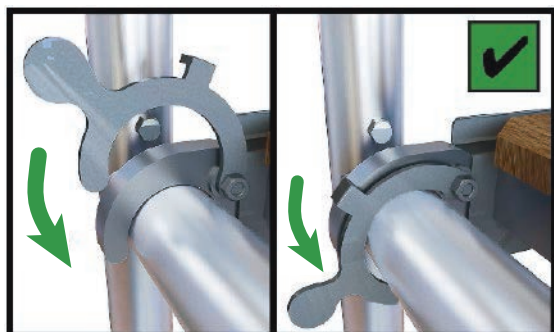
Unfold the frame so that it's self-supporting and lock the rear folding frame. Lock Castor brakes.



1.3 ➤

Fit the Trap Door Deck on the second rungs of the Folding Frame with the trap door oriented as shown. Ensure the wind lock is engaged.

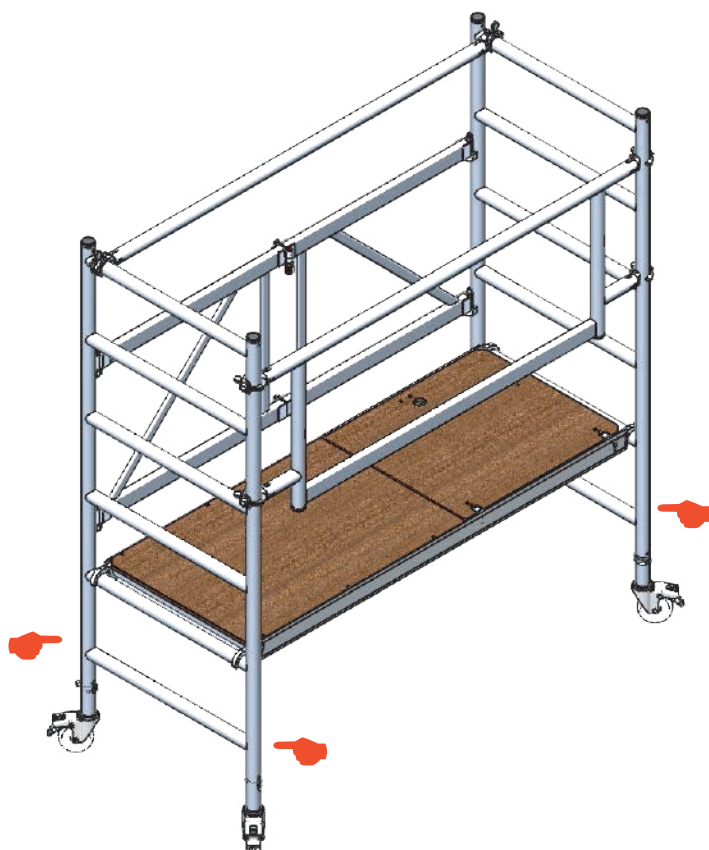
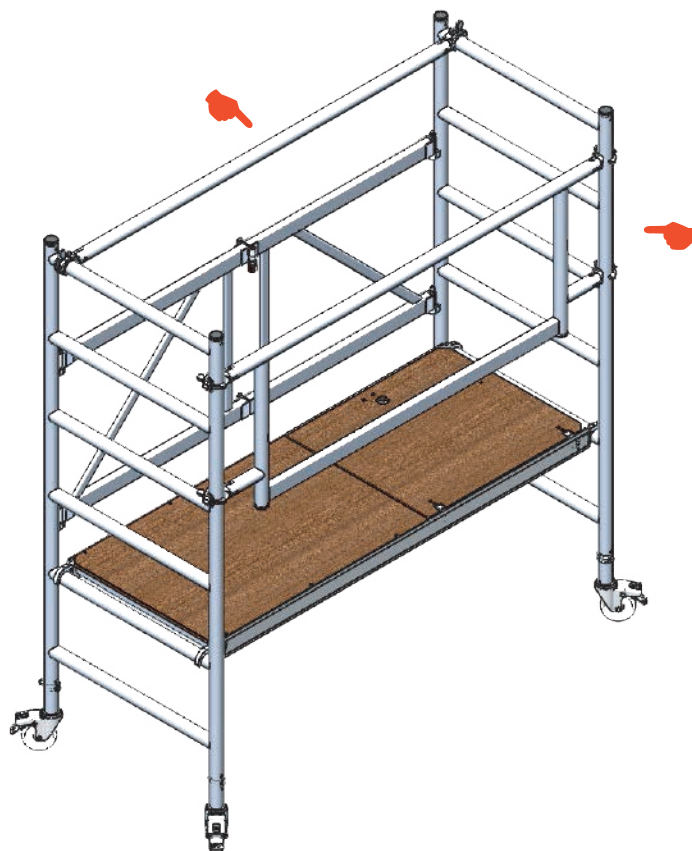
Do not climb onto the deck until it is fully guardrailed.



BUILD METHOD - MOBILE ACCESS BASE PACK 1

1.4

Fit one Horizontal Brace as shown and the Guardrail Frame with its lower claws resting on the 4th rungs of the Folding Frame.



1.5

Uniformly distribute ballast to all four corners of tower to lowest rungs.

**MOBILE ACCESS BASE PACK 1
ASSEMBLY IS NOW COMPLETE.**

For safe access and egress see p. 14.

If your risk assessment shows it necessary, fit Toe Board Holders and Toe Boards around the deck (available in Mobile Access Tower Extension Pack 2) - see step 2.7 for details.

BUILD METHOD - MOBILE ACCESS BASE PACK 1

How to access the platform safely.



Temporarily unlatch Guardrail as shown.



Sit on Deck and reattach Guardrail as shown.



Carefully stand up on Deck.

BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2

When building the Mobile Access Tower:

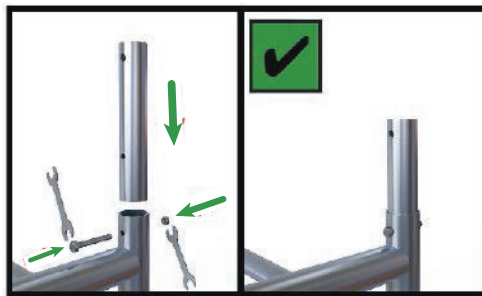
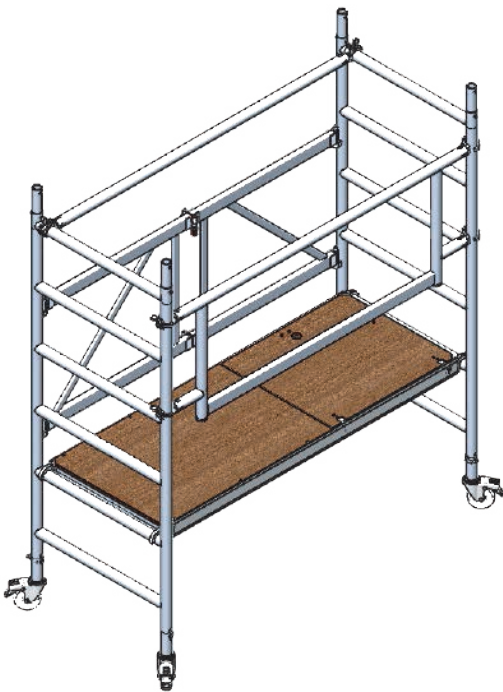
- To comply with 'Work at Height Regulations' we show assembly procedures with platforms every 2 metres in height and the locating of guardrails in advance of climbing onto a platform to increase safety and reduce the risk of a fall.
 - Never stand on an unguarded platform positioned above the first rung of a tower. If your risk assessment shows it necessary, you may also need to guardrail platforms at this level.
- The procedure illustrated shows a 3.8m working height tower build.

Werner recommend two persons are used to build aluminium Mobile Access Towers. Only climb the tower using the method shown.

2.1

From the assembled Mobile Access Base Pack 1 remove four plastic end caps from the top of the Base Folding Frame.

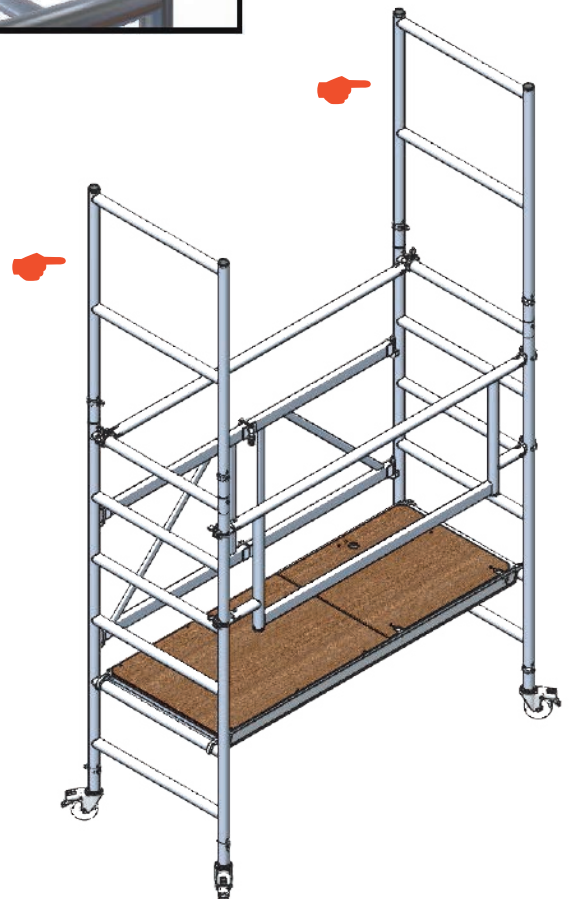
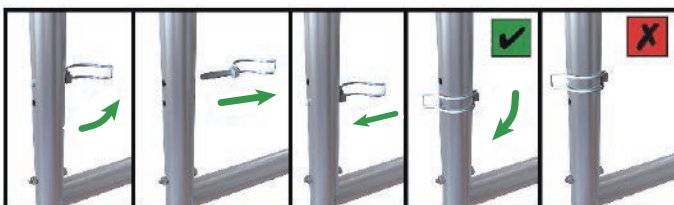
Fit four spigots using the fixings and tools provided (see detail below).



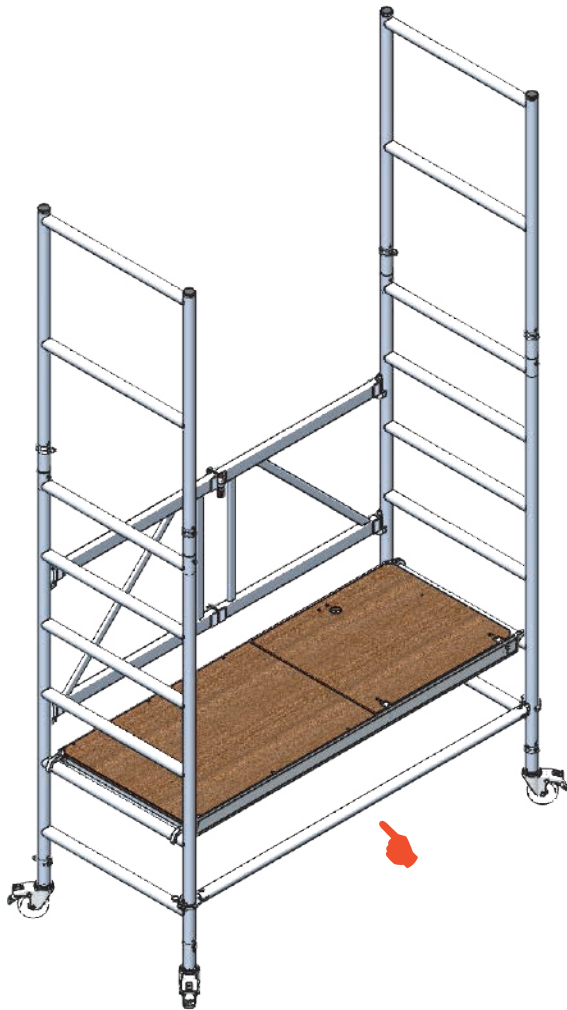
2.2

Fit two Top Frames as shown

Ensure that the locking pin is engaged.



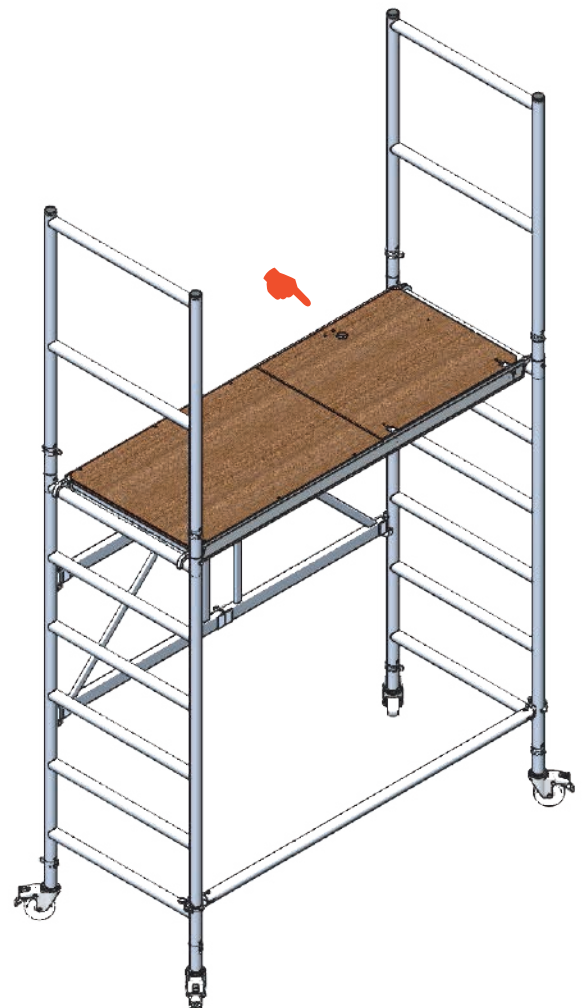
BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2



2.3 ➤

From outside of the tower, relocate the Horizontal Brace from its original position to the upright of the Folding Base Frame, just above the first rung.

Do not climb onto the deck once guardrails are removed.

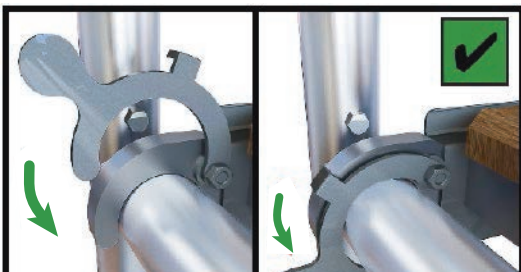


2.4 ➤

Relocate the Trap Door Deck from its original position to the top rungs of the Folding Base Frame, keeping the same orientation of the trap door.

Ensure the wind lock is engaged.

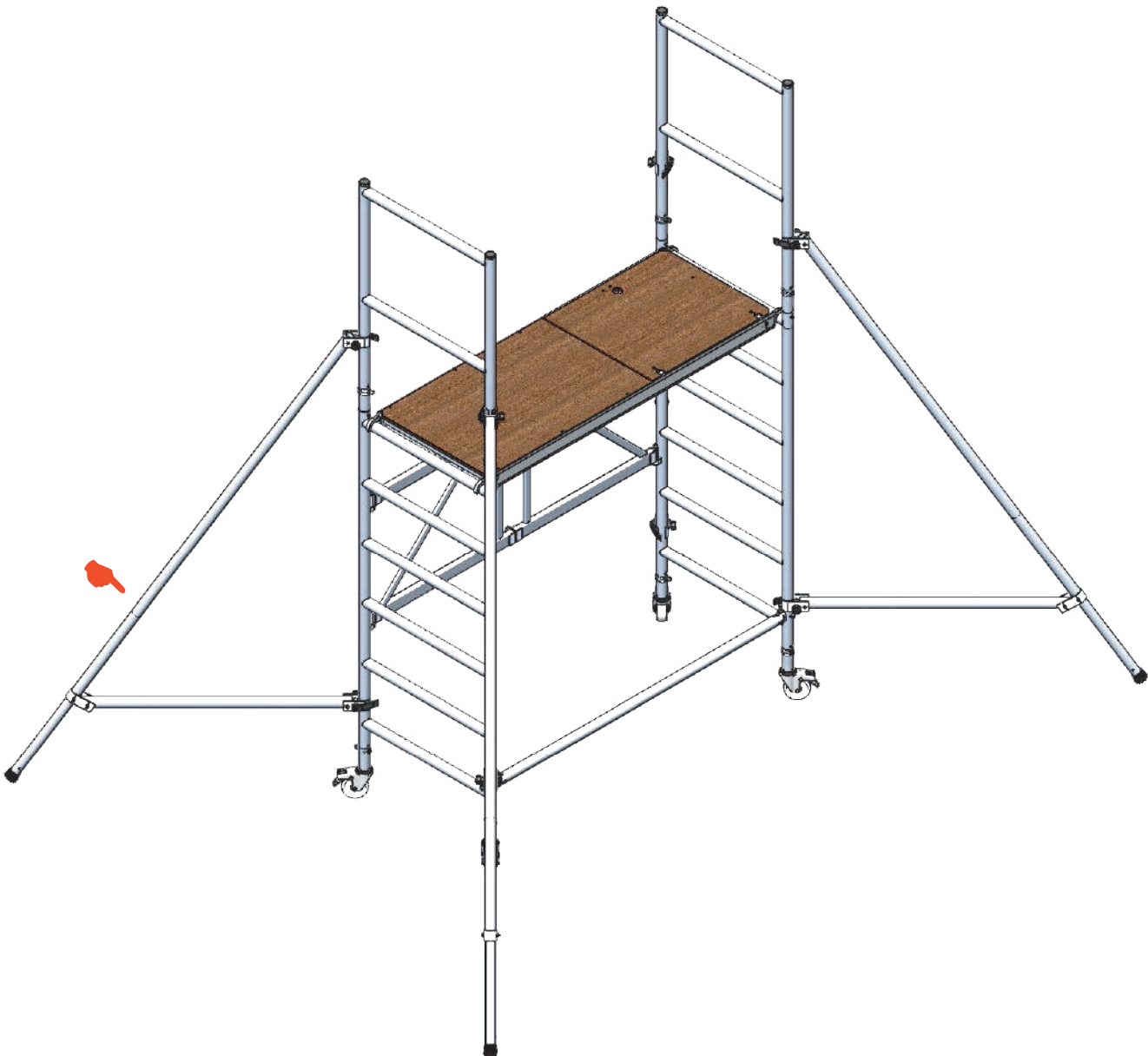
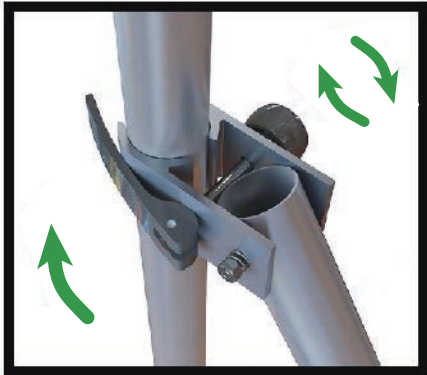
Do not climb onto the deck until it is fully guardrailed.



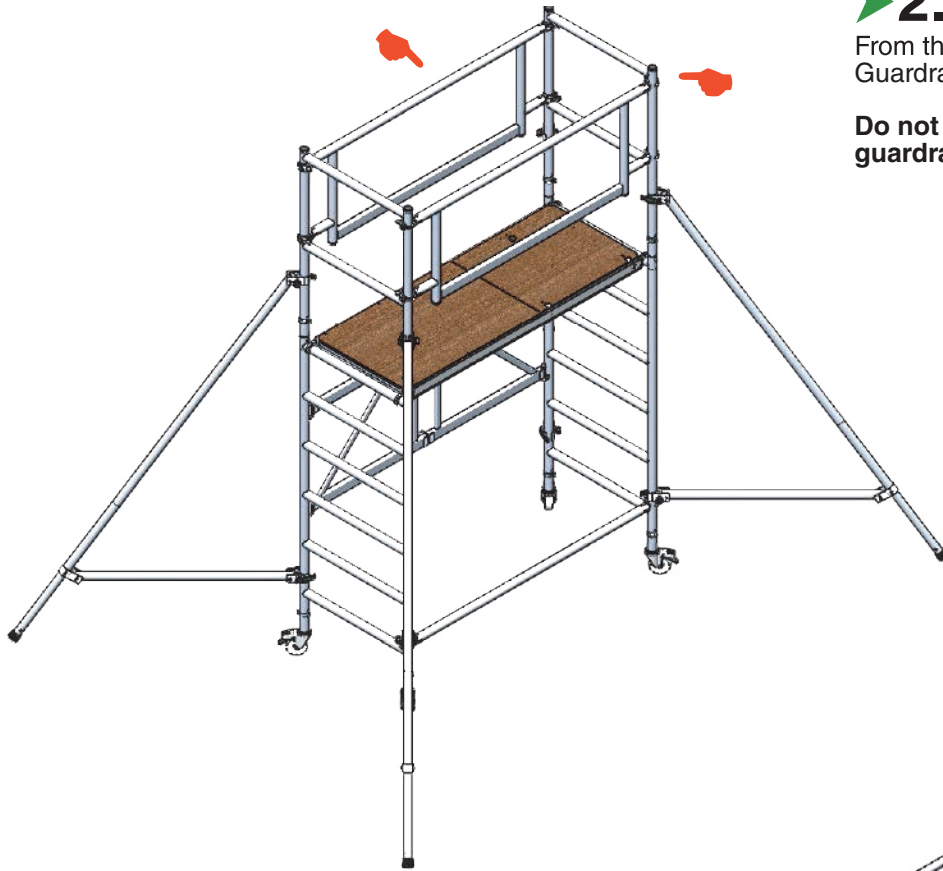
BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2

2.5 ➤

Fit four Stabilisers as shown.
See p. 5 for details.



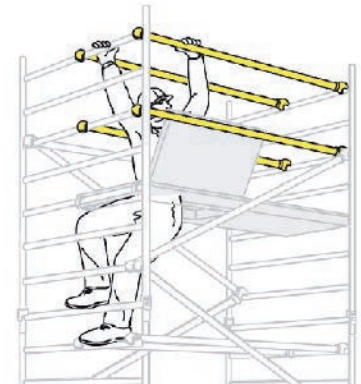
BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2



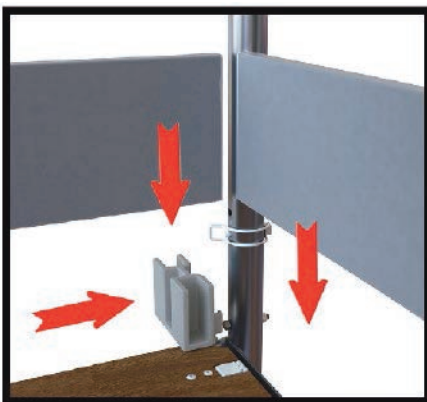
2.6

From the protected trap door position fit two Guardrail Frames as shown.

Do not climb onto the deck until it is fully guardrailed.



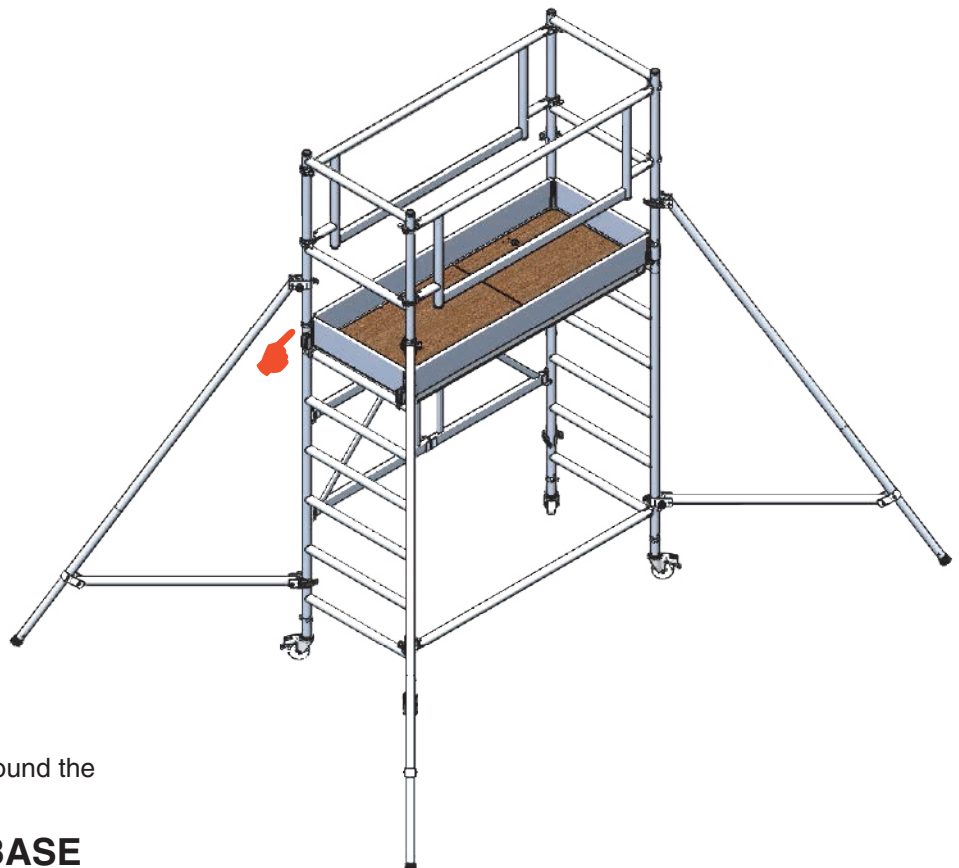
3T method of tower construction



2.7

Fit Toe Board Holders and Toe Boards around the deck as shown.

MOBILE ACCESS TOWER BASE PACK 1 & EXTENSION PACK 2

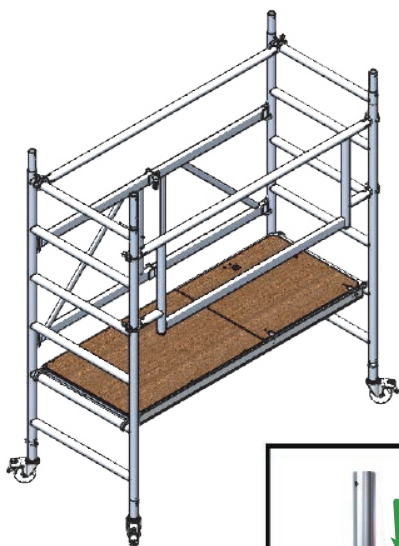


BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

When building the Mobile Access Tower:

- To comply with 'Work at Height Regulations' we show assembly procedures with platforms every 2 metres in height and the locating of guardrails in advance of climbing onto a platform to increase safety and reduce the risk of a fall.
 - Never stand on an unguarded platform positioned above the first rung of a tower. If your risk assessment shows it necessary, you may also need to guardrail platforms at this level.
- The procedure illustrated shows a 5.8m working height tower build.

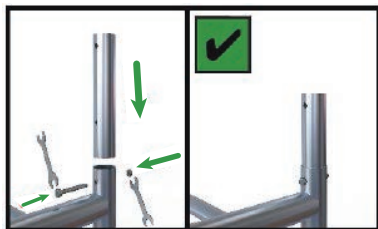
Werner recommend two persons are used to build aluminium Mobile Access Towers. Only climb the tower using the method shown.



3.1 ➤

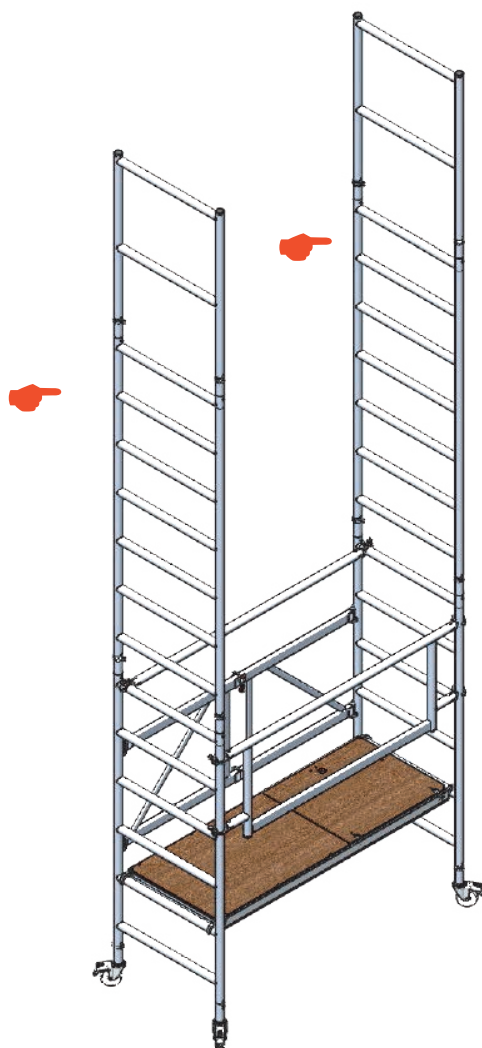
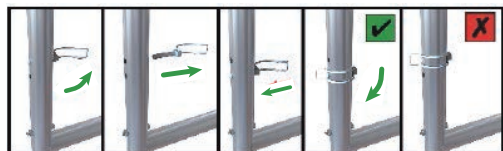
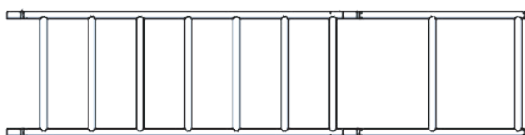
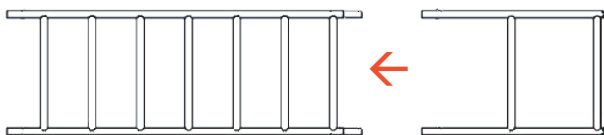
From the assembled Mobile Access Base Pack 1 remove four plastic end caps from the top of the Base Folding Frame.

Fit four spigots using the fixings and tools provided (see detail below).



3.2 ➤

Create two subassemblies of Intermediate and Top Climbing Frames and fit them onto the top of Folding Base Frame as shown. Ensure all locking pins are engaged.



BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

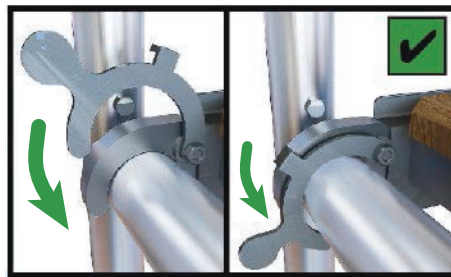
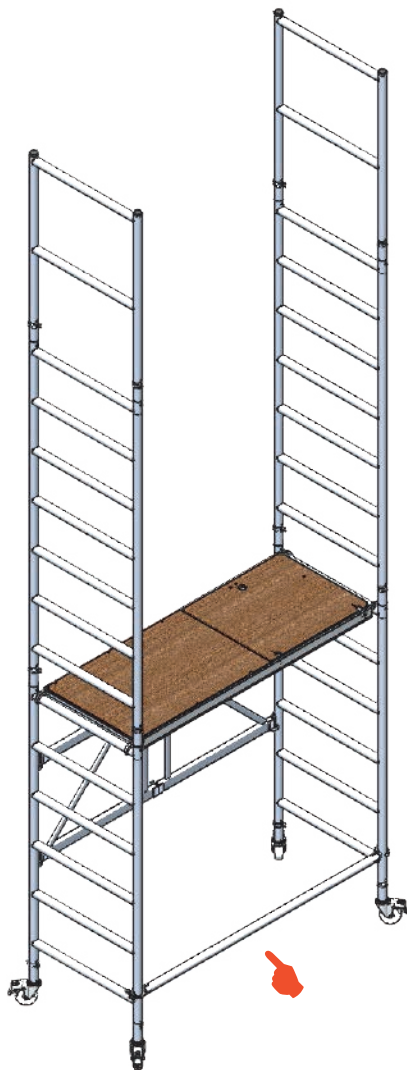
3.3 ►

From outside of the tower, relocate the Horizontal Brace from its original position to the upright of the Folding Base Frame, just above the first rung.

Relocate the Trap Door Deck from its original position to the top rungs of the Folding Base Frame, keeping the same orientation of the trap door.

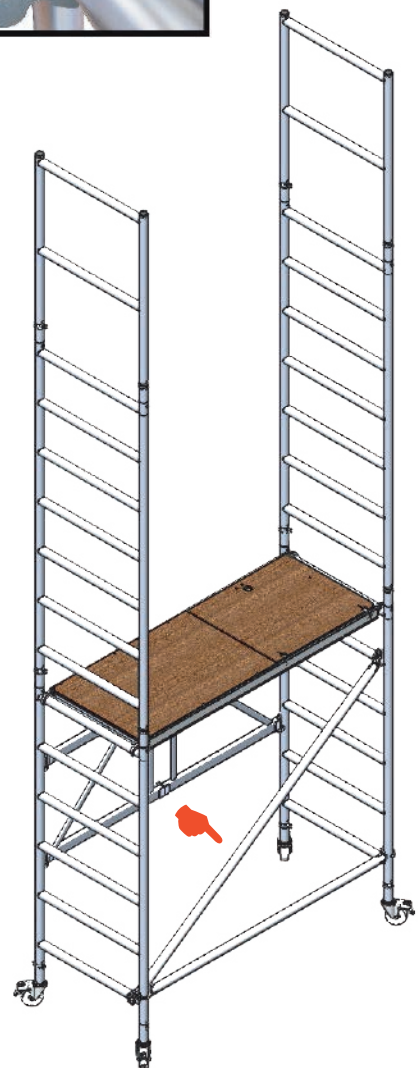
Ensure the wind lock is engaged.

Do not climb onto the deck once guardrails are removed.



3.4 ►

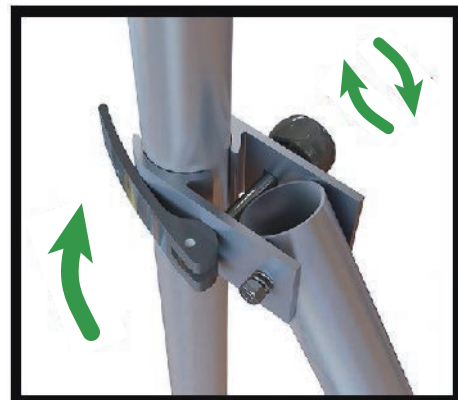
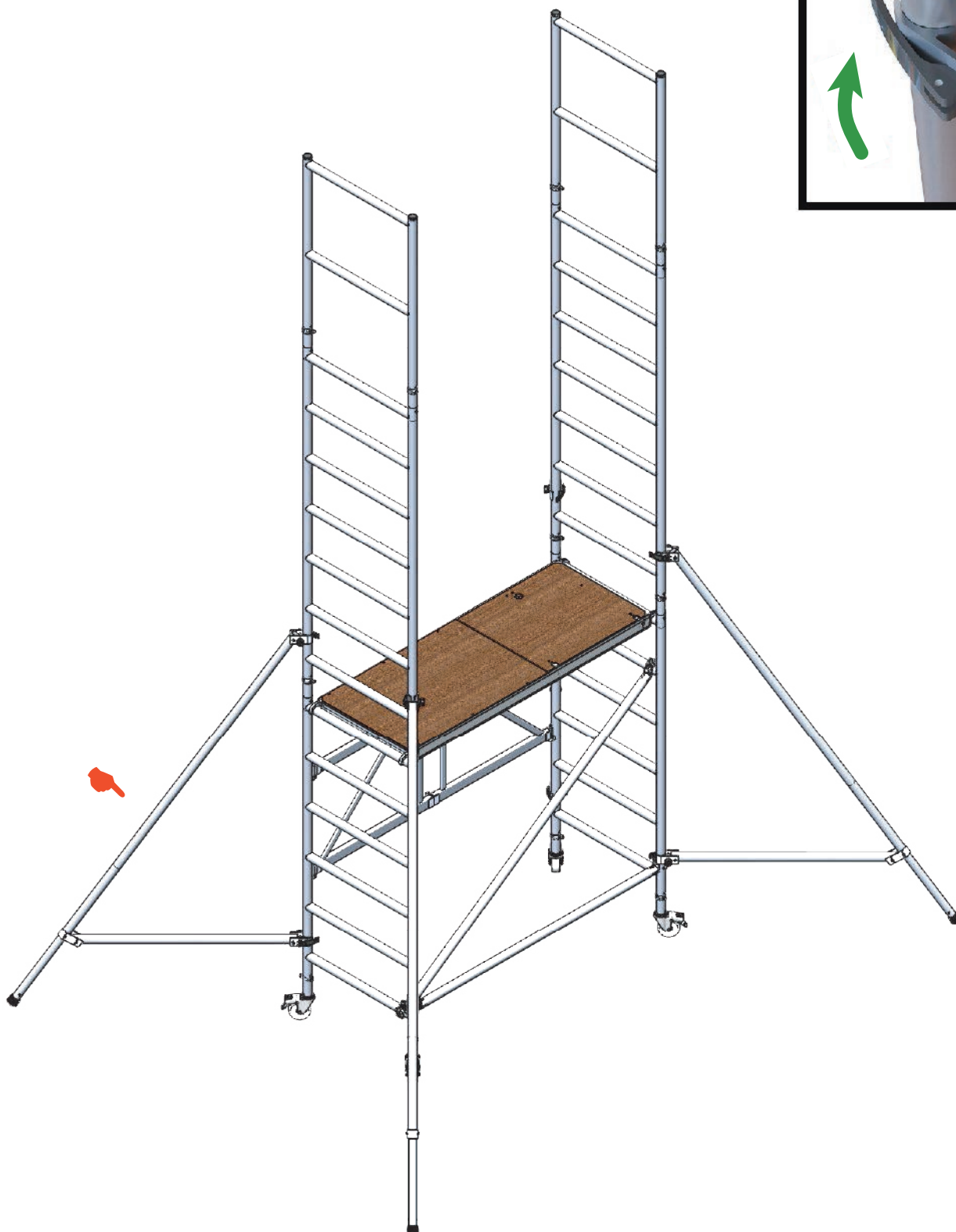
Fit one Diagonal Brace between the first and the fifth rungs of the Folding Base Frame as shown.



BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

3.5

Fit four Stabilisers as shown.
See p. 5 for details.

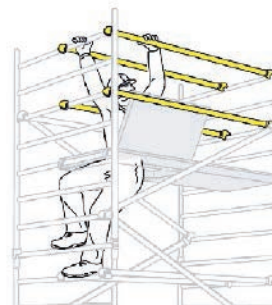


BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

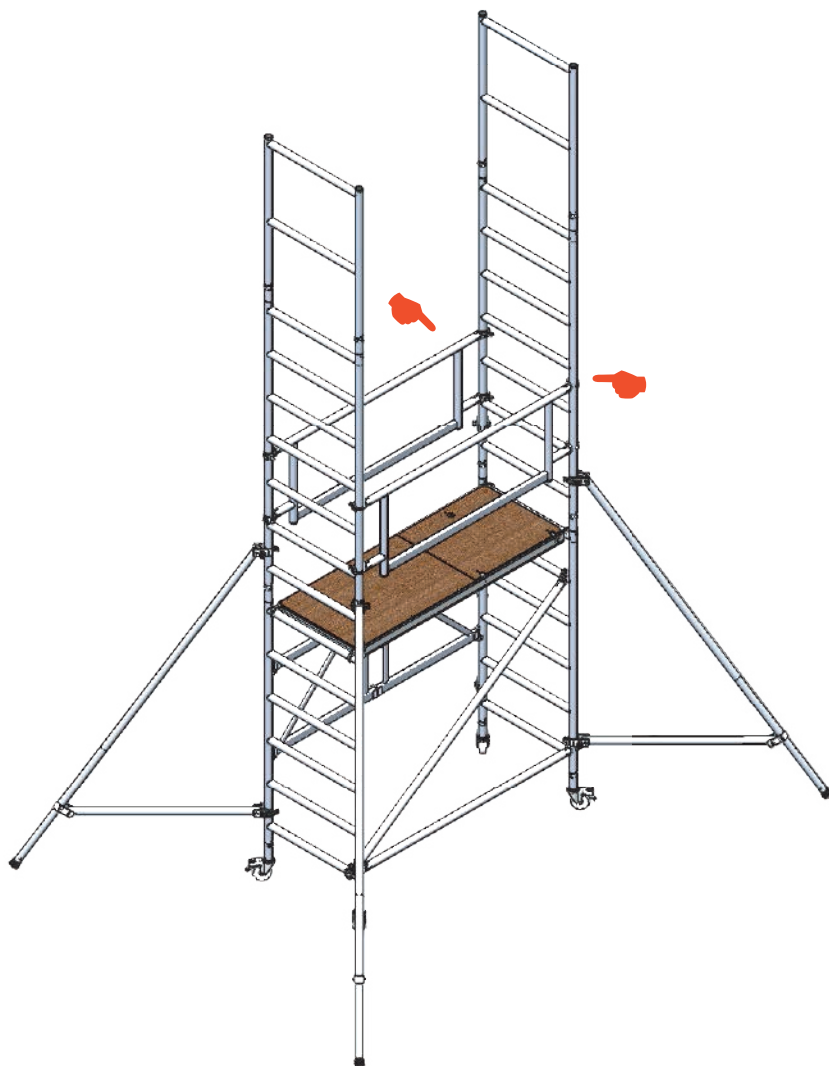
3.6 ➤

From the protected trap door position fit two Guardrail Frames as shown.

Do not climb onto the deck until it is fully guardrailed.



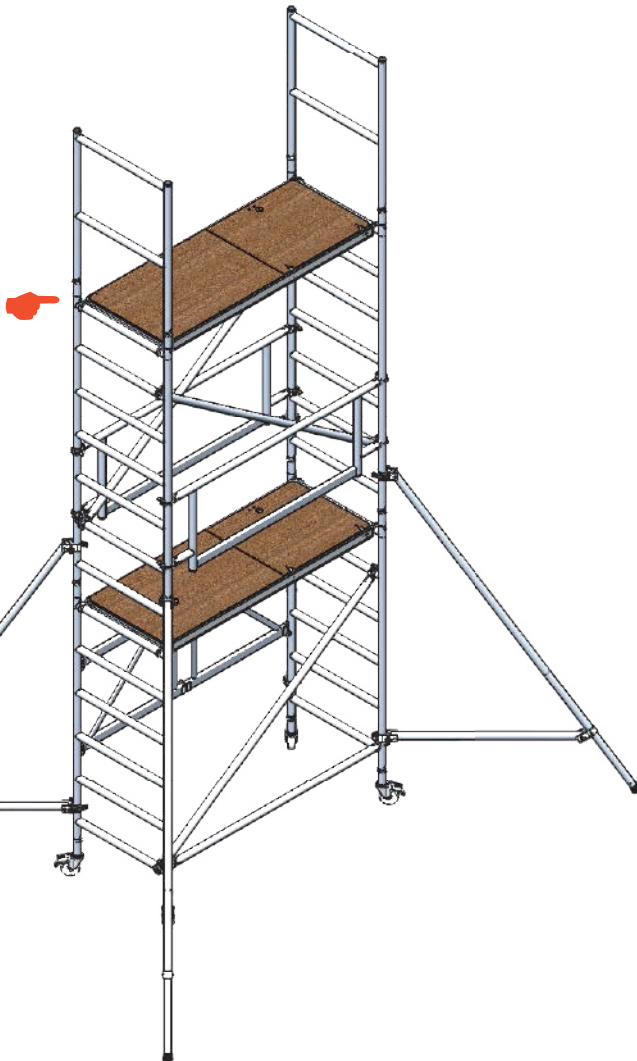
3T method of tower construction



3.7 ➤

Fit two Diagonal Braces in positions shown.

BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

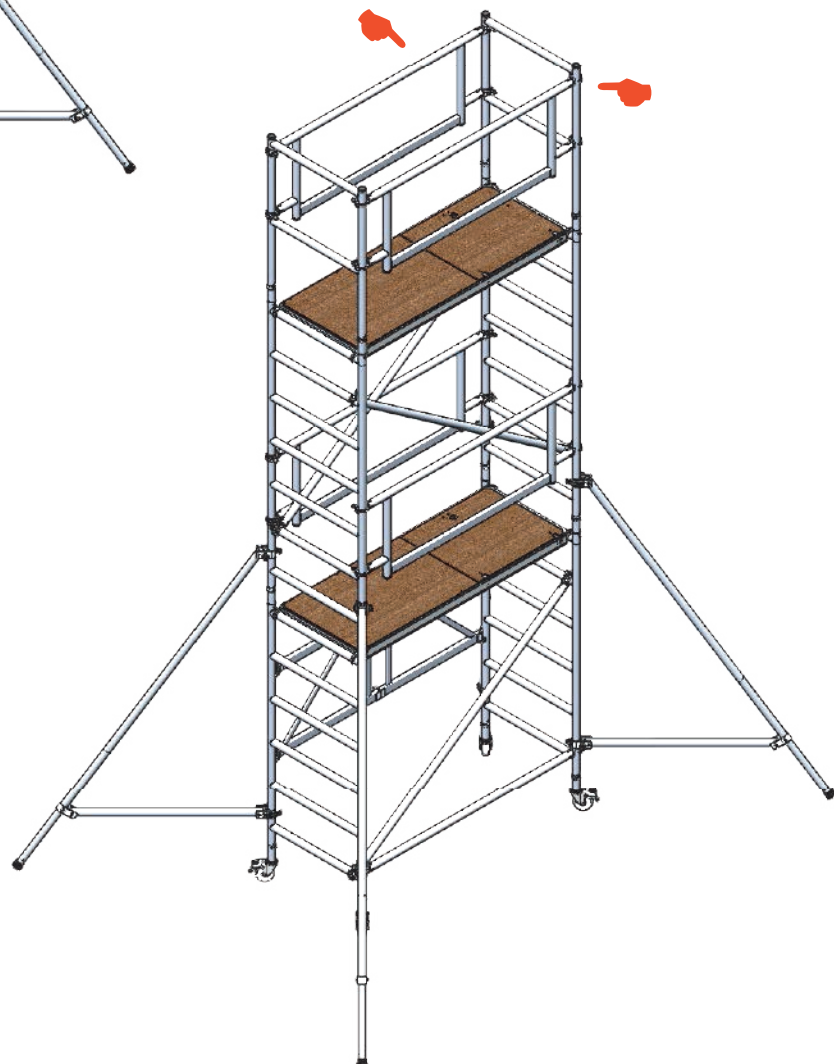


3.8

Fit the Trap Door Deck with the trap door oriented as shown.

Ensure the wind lock is engaged.

Do not climb onto the deck until it is fully guardrailed.



3.9

From the protected trap door position fit two Guardrail Frames as shown.

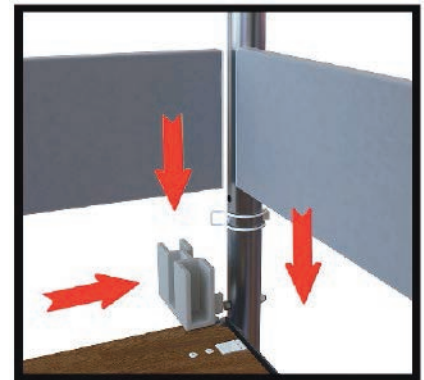
Do not climb onto the deck until it is fully guardrailed.

BUILD METHOD - MOBILE ACCESS BASE PACK 1 & EXTENSION PACK 2 & 3

3.10 ►

Fit Toe Board Holders and Toe Boards around the deck as shown.

BASE PACK 1, EXTENSION PACK 2 & 3 ASSEMBLY IS NOW COMPLETE.



PRE-USE SAFETY INSPECTION CHECKLIST

Pre-use Safety Inspection Checklist

- Tower structure upright & on level ground with max. slope of 10mm/1m
- Castors locked
- Horizontal & diagonal braces fitted
- Stabilisers fitted as specified
- Platforms located & wind locks engaged
- Interlock clips engaged
- Toe boards located
- Guardrails fitted correctly & positively locked
- Ensure ballast is fitted when required (base pack only)

