

MINIMAX®



Minimax®

Mobile Aluminium Trade
Platform and Tower System

3T - Through the Trapdoor Method

Instruction Manual
EN 1004-2 en

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1 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.minimaxtower.com.



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.

The MiniMax mobile aluminium tower is a 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 MiniMax mobile 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.

1 Safety First

1.2 Tower Designation

EN 1004 3 6/6 XXXD H2

Design Code

Load Class (2 = 153kg/m² UDL, 3 = 204kg/m² UDL)

Max. Platform Height Outdoors (m)

Max. Platform Height Indoors (m)

Access Method

A = Stairway, B = Stair ladder, C = Inclined Ladder, D = Vertical Ladder

Clear Height Class (H1 = 1.85m, H2 = 1.90m)

*UDL = Uniformly distributed load

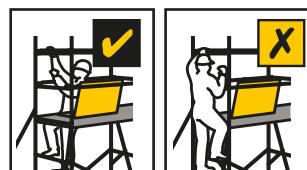
1.3 Maintenance - Storage - Transport

- The MiniMax mobile tower system is robust and requires little maintenance.
- All components and their parts should be regularly inspected to identify damage, particularly to joints.
- Refer to the MiniMax Inspection Guidance for detailed inspection and maintenance advice, the guidance is available to download at: www.minimaxtower.com.
- 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 0.6°. If not the optional adjustable leg kit must be used. This allows adjustment up to 210mm.
- Only components specified in this manual shall be used with MiniMax 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.
- Adjustable legs should only be used for levelling purposes and never to gain extra height.
- Ensure distance from the ground to first climbing rung is less than 400mm.
- 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.

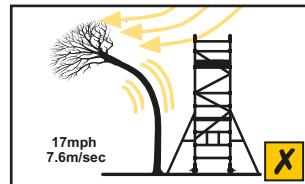


- Tower scaffolds are not designed to be lifted or suspended.
- Ensure the safe working load on the structure is not exceeded.

2 Building The Tower

- Tools and materials should be lifted using a reliable lifting material (e.g. a strong rope) employing a secure and reliable knot to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers). When raising or lowering components be aware of the potential for falling objects.
- Check this manual is available and its contents familiar to all those involved.
- If assembling outdoors; check the forecast windspeed.
 - If the wind speed reaches 17 mph (7.6 m/s) you should cease work and dismantle the tower.

mph	km/h	m/s	Action
17	27	7.6	Stop work & dismantle the tower



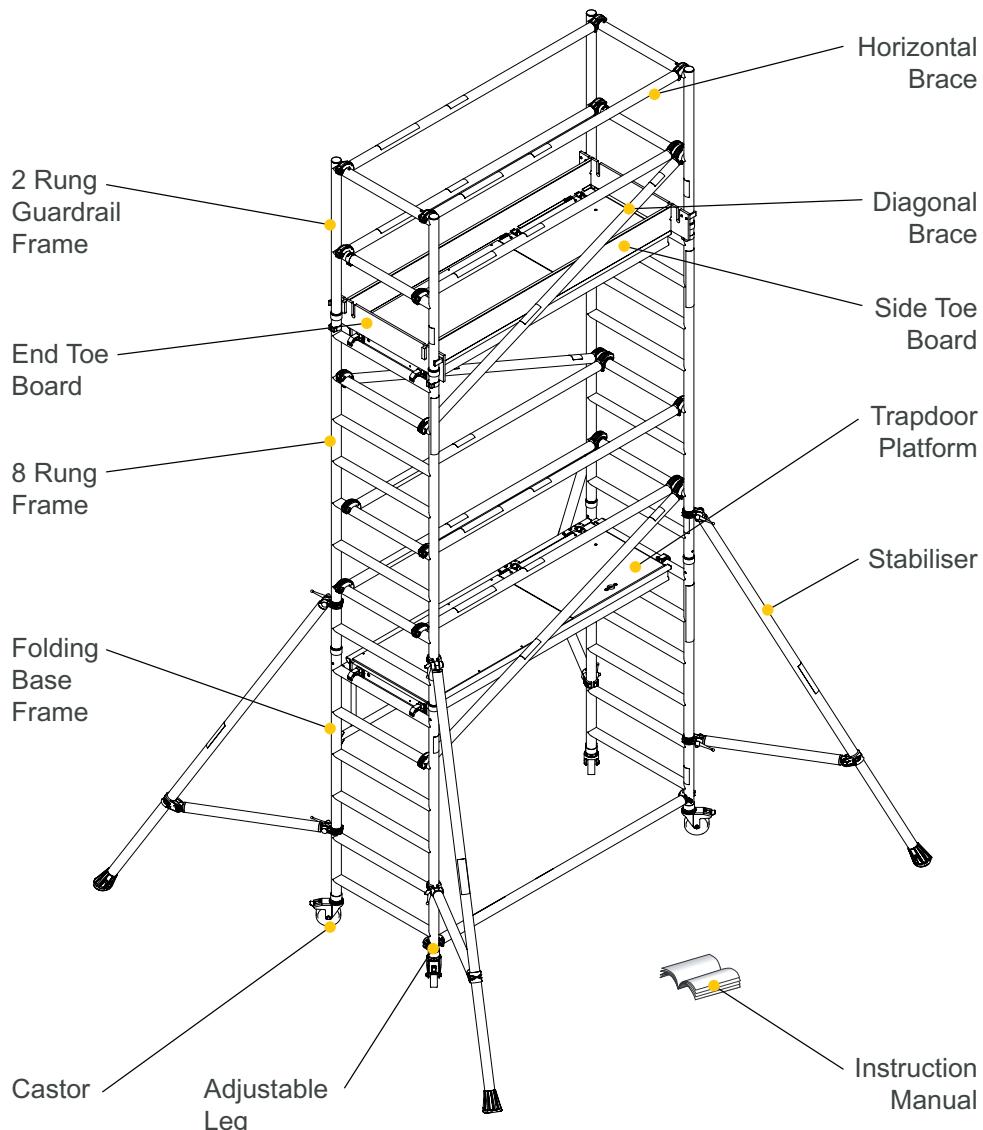
- Also consider the wind funnelling effect of nearby buildings and other open areas, which could be present when the tower is used internally.



- 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

Quantity Schedule in Packs

Pack Code	Pack	Composite Code	Internal or External Use			
			38060600	38061700	38063700	38065800
		Working Height	2.6m	3.7m	5.7m	7.8m
37051800	Base Pack Mk2		1	1	1	1
00062100	Horizontal Brace		3	3	3	3
37251800	2 Rung Guardrail Pack Mk2		-	1	1	1
34151800	2m Extension Pack		-	-	1	2
67040100	SP4 Stabiliser*		4	-	-	-
31751300	SP7 Stabiliser		-	4	4	-
31851300	SP10 Stabiliser		-	-	-	4
37951800	Adjustable Leg Pack**		1	1	1	1
39451800	Toe Board Pack Mk2		1	1	1	1
Tower Total Self-weight			62.6kg	70.9kg	107.7kg	164.5kg
Max. Exerted Leg Load			82.0kg	90.0kg	99.0kg	107.0kg

Quantity Schedule in Components

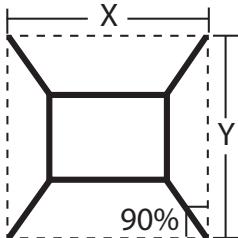
Component Code	Component Description	Composite Code	Internal or External Use				
			38060600	38061700	38063700	38065800	
		Working Height	2.6m	3.7m	5.7m	7.8m	
00060000	Folding Base Frame Mk2	17.6kg		1	1	1	1
37751800	Trapdoor Platform	11.8kg		1	1	2	3
00061600	8 Rung Frame	7.0kg		-	-	2	4
00061800	2 Rung Guardrail Frame	2.6kg		-	2	2	2
00061000	Diagonal Brace	1.9kg		-	1	3	5
00062100	Horizontal Brace	1.8kg		3	5	9	13
00063700	Side Toe Board	2.5kg		2	2	2	2
00062900	End Toe Board	1.0kg		2	2	2	2
67040100	SP4 Stabiliser*	4.4kg		4	-	-	-
31751300	SP7 Stabiliser	3.8kg		-	4	4	-
31851300	SP10 Stabiliser	8.8kg		-	-	-	4
33551300	Adjustable Leg**	1.1kg		4	4	4	4

*SP4 stabiliser can be substituted for SP7 stabiliser at 1.7m and 3.7m platform heights.

**Adjustable legs only required if ground is uneven or sloping.

2 Building The Tower

2.4 Stabilisers



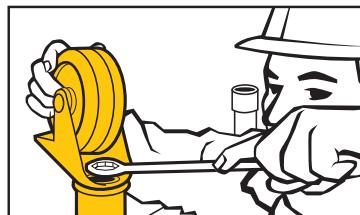
Platform Height	X	Y
0.6m	2.06m	2.06m
1.7m	2.77m	2.96m
3.7m	2.77m	2.96m
5.8m	4.42m	4.42m

SP4 and SP10 stabilisers must always be fully extended.

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

2.5 Adjustable Legs

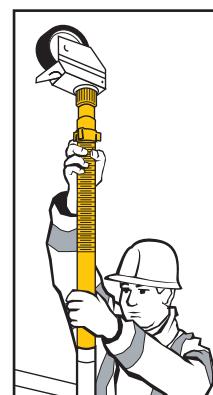
If the ground is uneven or sloping you will need to fit adjustable legs. Turn the base unit upside down so that the wheels are facing upwards. We recommend that two persons are required to ease the process. Using a 19mm spanner loosen the fixing bolt and remove the castor from the base.



Follow the instructions in the adjustable leg pack to change the large castor spigot to the smaller one supplied in the pack. Insert the castor into an adjustable leg and then retighten the fixing bolt with the spanner, following the instructions. Repeat this process for the other castors and adjustable legs. Insert the four leg and castor assemblies into the base unit.

Turn the base the correct way up with the wheels on the ground. Use a spirit level to check the base unit is level. Adjust the legs as necessary, to level the base unit.

Important - Only use the adjustable legs to level the base and not to gain extra height.



2 Building The Tower

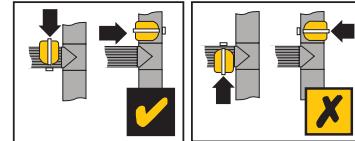
2.6 Assembly

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.

- To fit the optional adjustable legs, a 19mm spanner is required. No other tools are needed for assembly.
- 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.

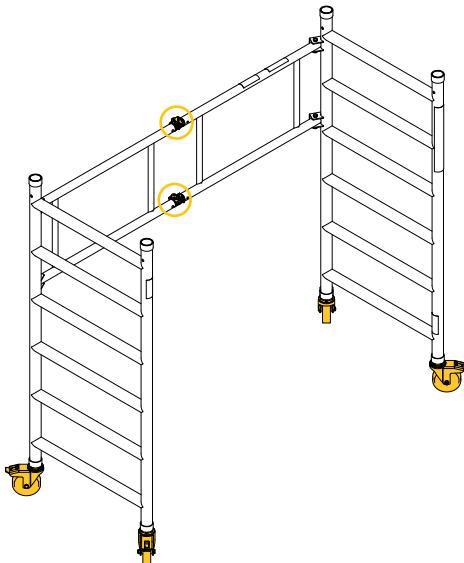


- The tower may be assembled/disassembled by a single person, but it is recommended that additional persons help. Only 2 person are permitted on the tower during assembly/dismantling and they must not be on the same platform. Additional persons can help from ground level.
- Components must be lifted/lowered within the footprint of the tower using a reliable method such as a strong rope with a secure and reliable 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.
- The adjustable legs are for levelling the tower only and not to be used to gain extra height.
- Ensure when the base is levelled the distance from the ground to the first climbing rung is less than 400mm.
- Stabilisers of the size specified in the quantity schedule should be fitted at the earliest opportunity.

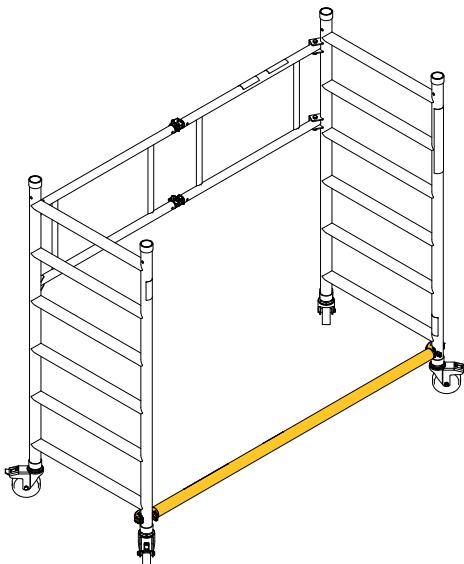
2 Building The Tower

2.6.1 Assembly Procedure for 0.6m Tower

- 1 Ensure brakes on castors of one end frame are released. Engage locks on rear folding frame. Ensure all castor brakes are engaged.

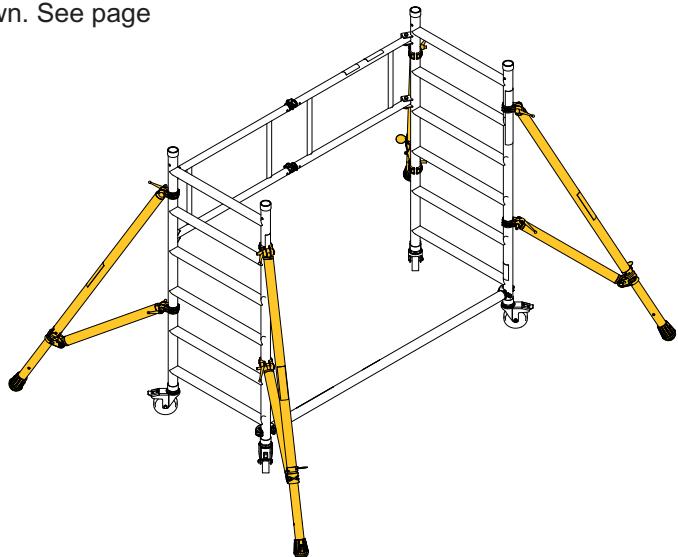


- 2 Fit horizontal brace in position shown. Check tower is square and level.

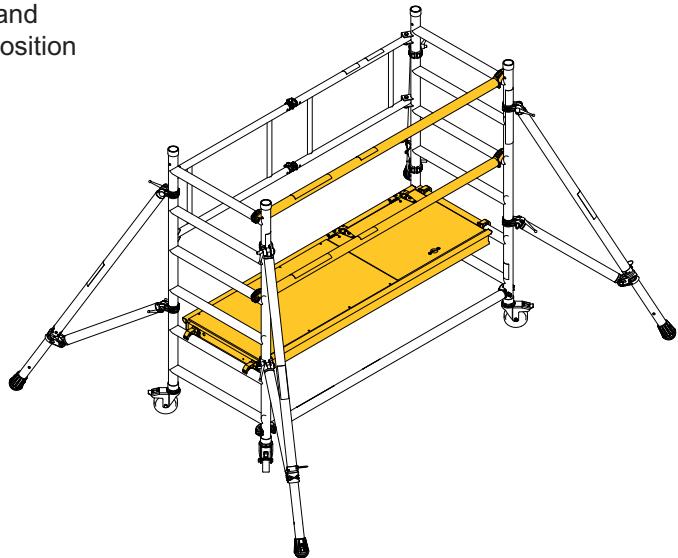


2 Building The Tower

3 Fit stabilisers as shown. See page 8 for details.



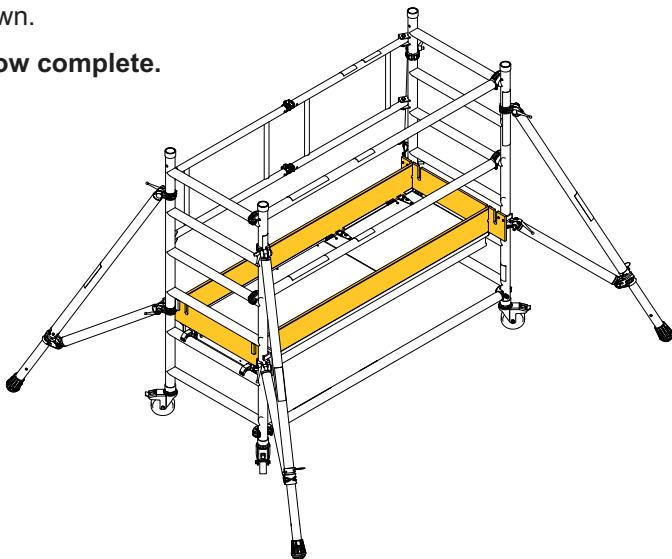
4 Fit trapdoor platform and horizontal braces in position shown.



2 Building The Tower

5 Fit toe boards as shown.

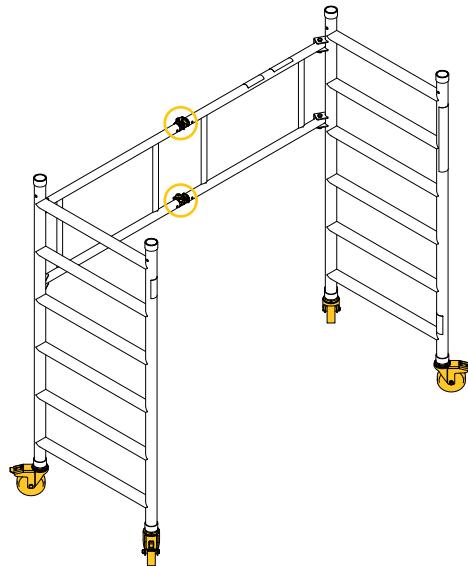
The 0.6m tower is now complete.



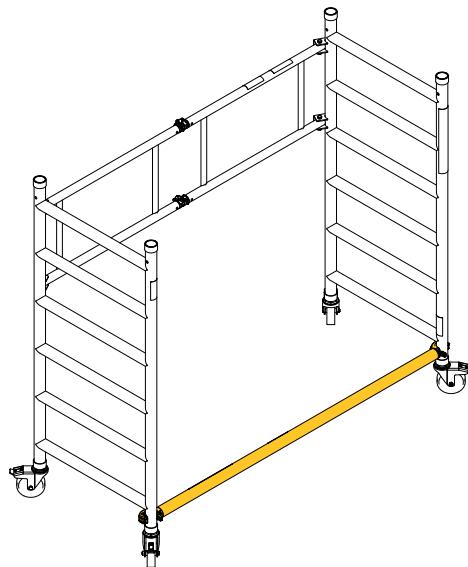
2 Building The Tower

2.6.2 Assembly Procedure for 1.7m Tower

- 1 Ensure brakes on castors of one end frame are released. Engage locks on rear folding frame. Ensure all castor brakes are engaged.

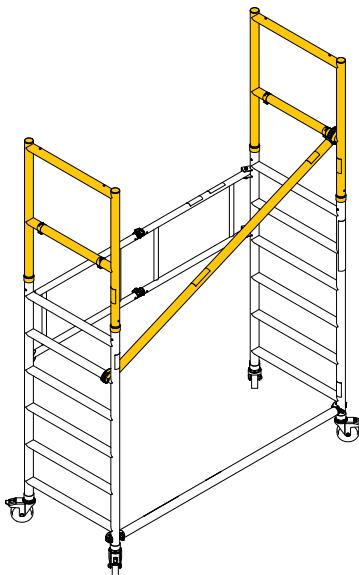


- 2 Fit horizontal brace in position shown. Check tower is square and level.

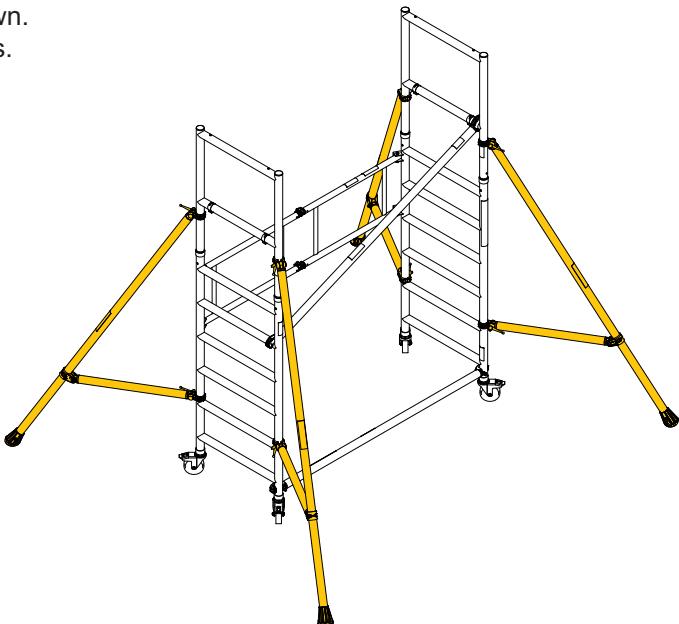


2 Building The Tower

3 Fit 2 rung guardrail frames as shown. Fit diagonal brace in position shown.

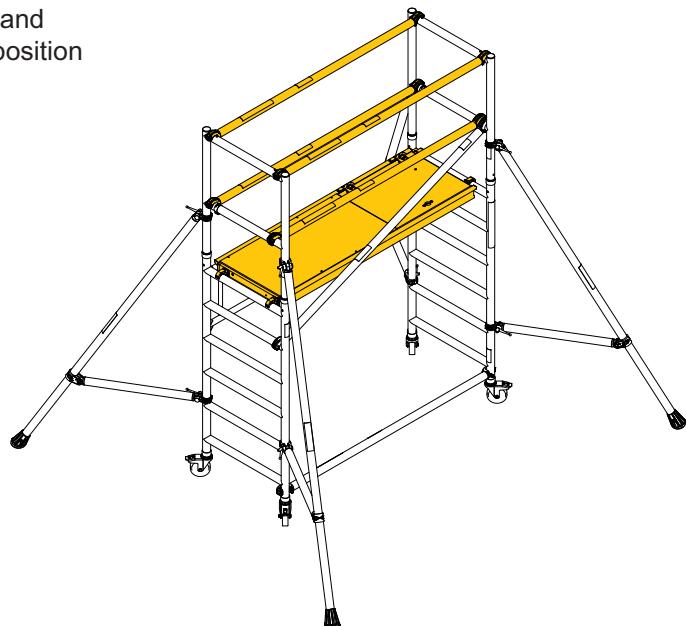


4 Fit stabilisers as shown.
See page 8 for details.



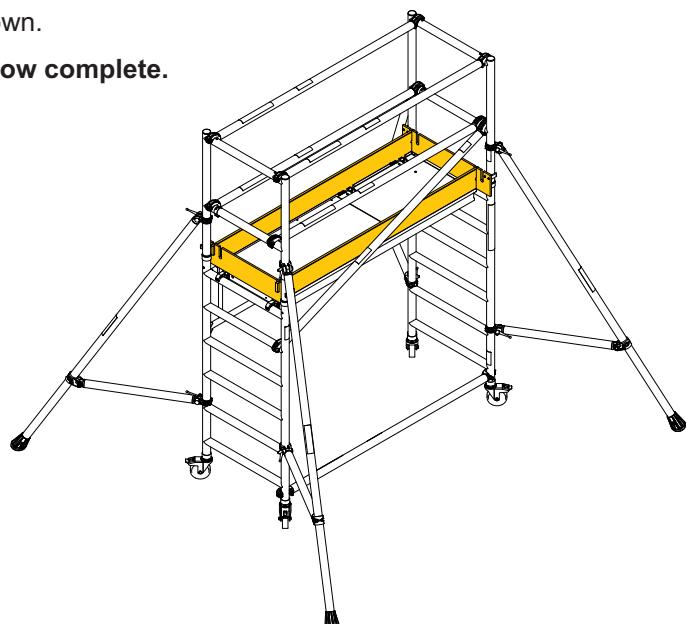
2 Building the Tower

5 Fit trapdoor platform and horizontal braces in position shown.



6 Fit toe boards as shown.

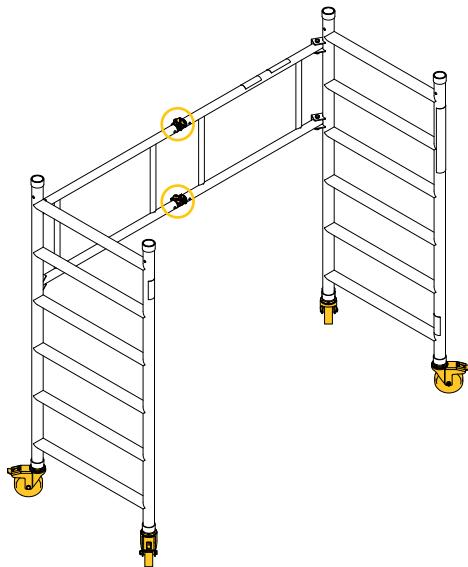
The 1.7m tower is now complete.



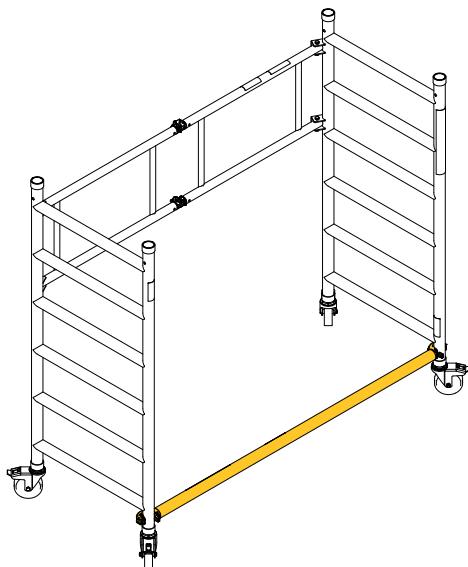
2 Building the Tower

2.6.3 Assembly Procedure for 3.7m Tower

- 1 Ensure brakes on castors of one end frame are released. Engage locks on rear folding frame. Ensure all castor brakes are engaged.

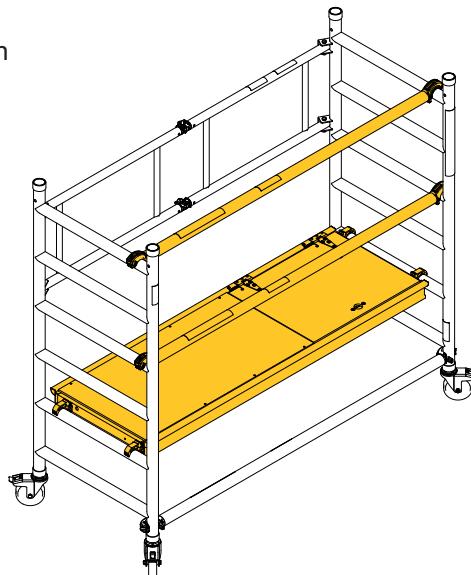


- 2 Fit horizontal brace in position shown. Check tower is square and level.

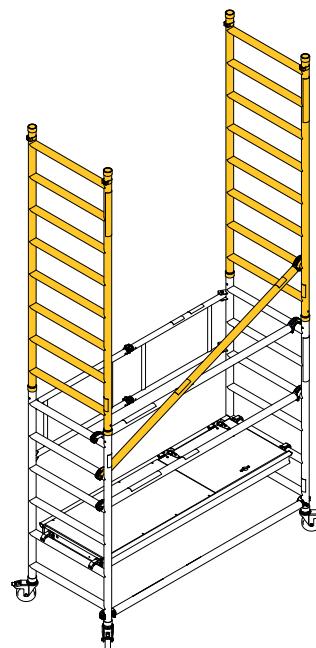


2 Building The Tower

3 Fit trapdoor platform and horizontal braces in position shown.

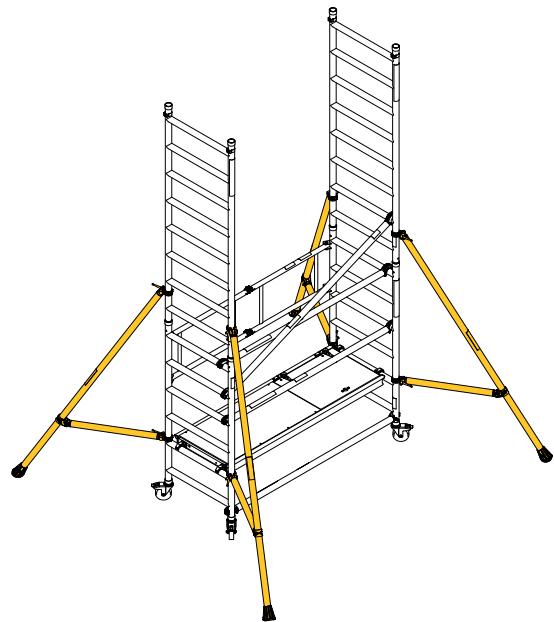


4 Fit 8 rung frames as shown. Fit diagonal brace in position shown.

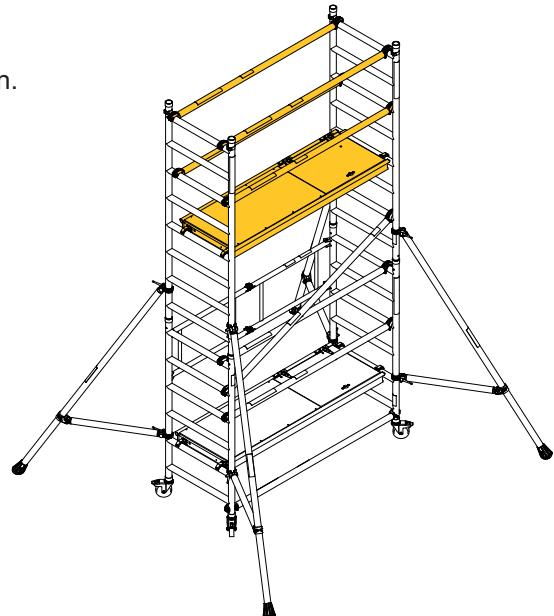


2 Building the Tower

5 Fit stabilisers as shown. See page 8 for details.



6 Fit trapdoor platform as shown.
From the protected trapdoor position, fit horizontal braces as shown.



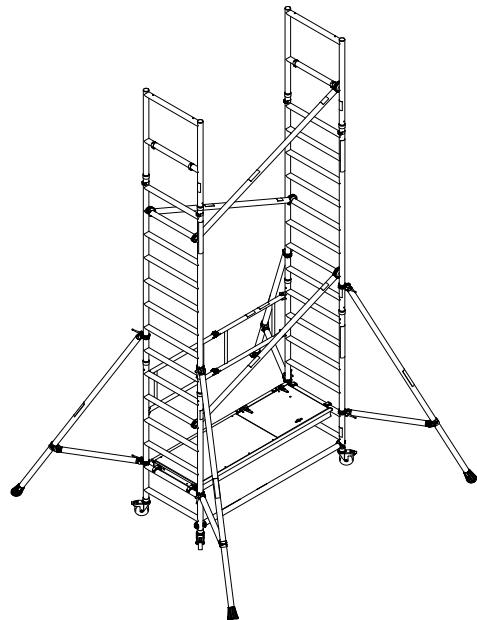
2 Building The Tower

7 Fit 2 rung guardrail frames as shown. Fit diagonal braces in position shown.



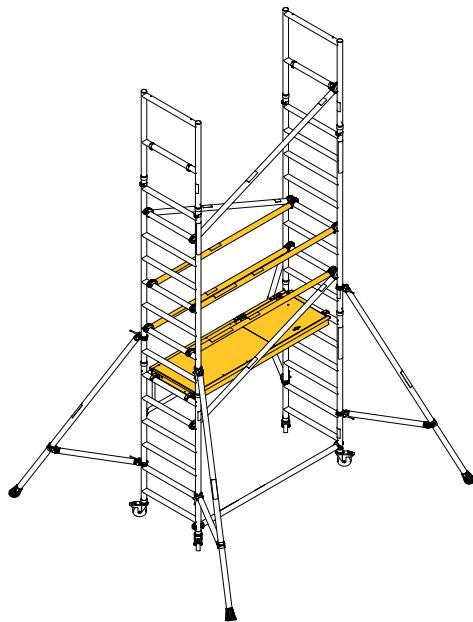
8 Reposition trapdoor platforms and horizontal braces.

Starting with the uppermost platform, remove the horizontal braces from the protected trapdoor position, then remove the trapdoor platform as shown.



2 Building the Tower

9 Reposition the trapdoor platform as shown. From the protected trapdoor position, fit horizontal braces as shown.



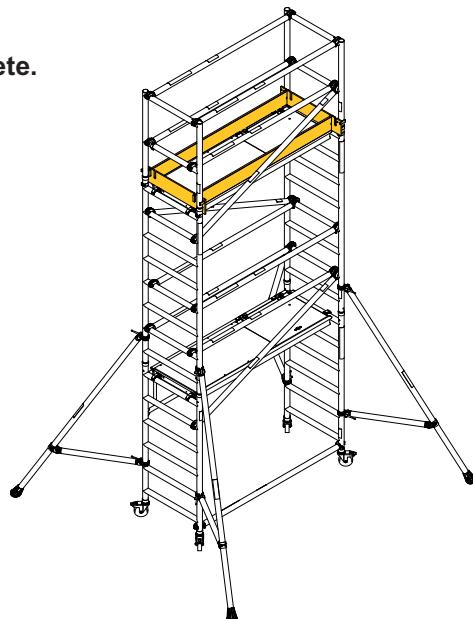
10 Fit the trapdoor platform as shown. From the protected trapdoor position, fit horizontal braces as shown.



2 Building The Tower

11 Fit toe boards as shown.

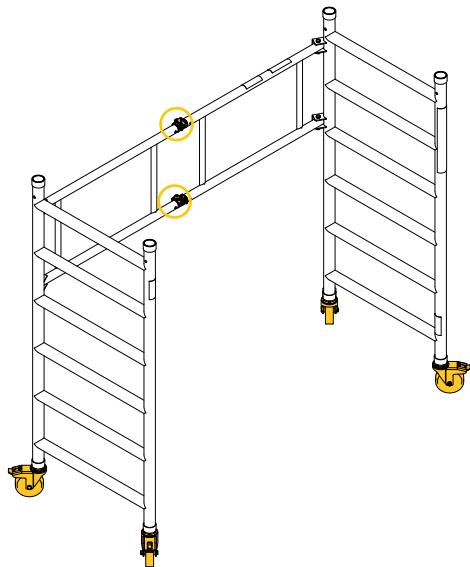
The 3.7m tower is now complete.



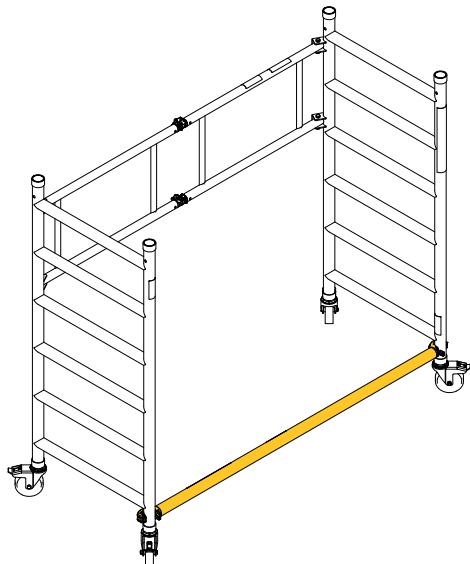
2 Building the Tower

2.6.4 Assembly Procedure for 5.8m Tower

- 1 Ensure brakes on castors of one end frame are released. Engage locks on rear folding frame. Ensure all castor brakes are engaged.

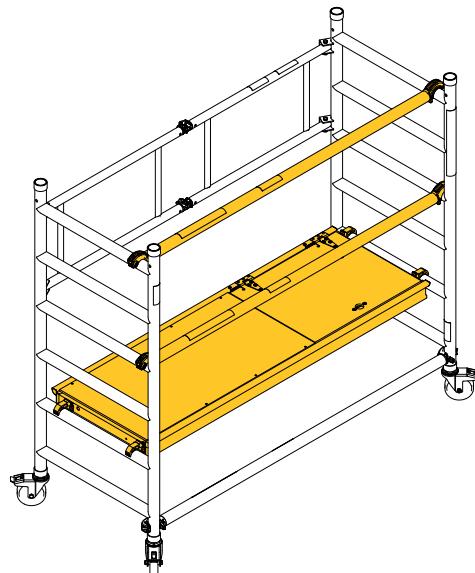


- 2 Fit horizontal brace in position shown. Check tower is square and level.

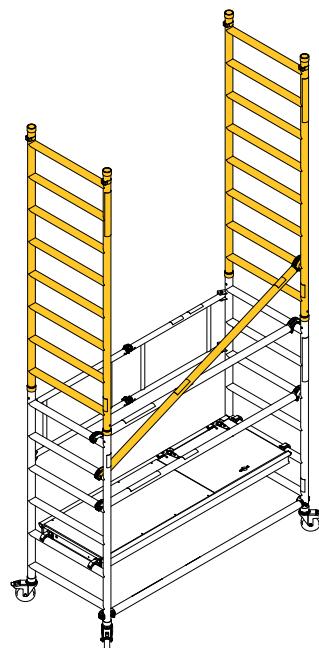


2 Building The Tower

3 Fit trapdoor platform and horizontal braces in position shown.

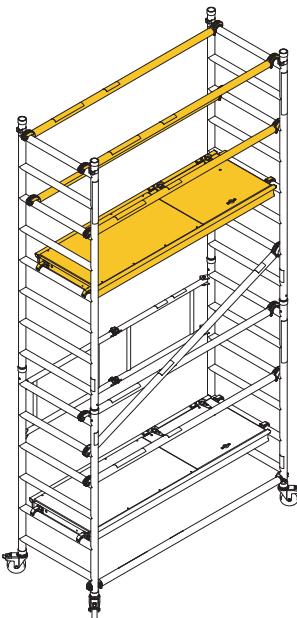


4 Fit 8 rung frames as shown. Fit diagonal brace in position shown.

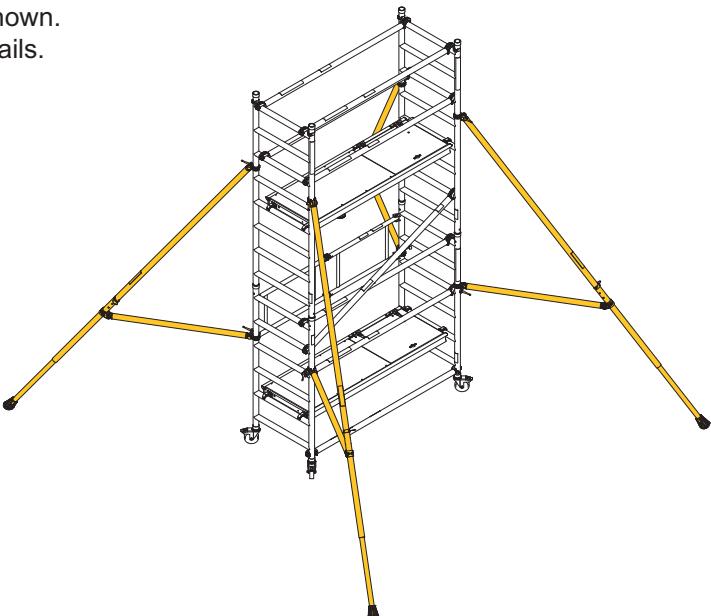


2 Building the Tower

5 Fit trapdoor platform as shown.
From the protected trapdoor position, fit horizontal braces as shown.

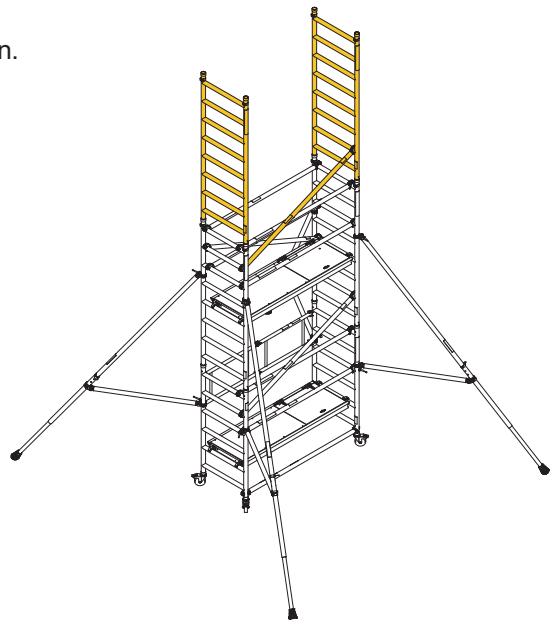


6 Fit stabilisers as shown.
See page 8 for details.



2 Building The Tower

7 Fit 8 rung frames as shown. Fit diagonal braces in position shown.



8 Fit trapdoor platform as shown.
From the protected trapdoor position, fit horizontal braces as shown.



2 Building the Tower

9 Fit 2 rung guardrail frames as shown. Fit diagonal braces in position shown.



10 Reposition trapdoor platforms and horizontal braces.

Starting with the uppermost platform, remove the horizontal braces from the protected trapdoor position, then remove the trapdoor platform as shown. Repeat for the intermediate horizontal braces and trapdoor platform.



2 Building The Tower

11 Reposition the trapdoor platform as shown.

From the protected trapdoor position, fit horizontal braces as shown.



12 Fit the trapdoor platform as shown. From the protected trapdoor position, fit horizontal braces as shown.



2 Building The Tower

13 Fit the trapdoor platform as shown. From the protected trapdoor position, fit horizontal braces as shown.



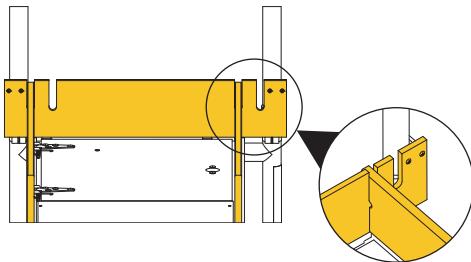
14 Fit toe boards as shown.
The 5.8m tower is now complete.



2 Building The Tower

2.6.5 Fitting Toe Boards

Start with the end boards which have red plastic clips. There are two slots depending on which side you position the diagonal brace. Clip into correct slots, as shown, ensuring that no large objects can fall through and that the trapdoor can open with ease.



2.7 Dismantling

To dismantle the tower, reverse the assembly procedure.

When removing the guardrails unlock the four claws furthest from the trapdoor and return immediately to the protected position within the trapdoor. The other claws can then be unlocked, and the guardrails removed from the tower.

Tools and materials should be lowered using a secure and reliable lifting material (e.g. a strong rope) employing a secure and reliable knot to ensure safe fastening and always lower within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers). When raising or lowering components be aware of the potential for falling objects.

Alternatively, components may be passed down by hand. See guidance on page 9.

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.

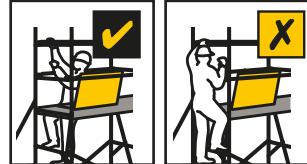
3.2 Pre-Use Checklist

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

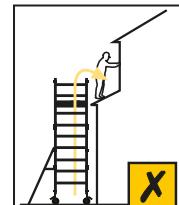
3 Using The Tower

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. Other Platforms are for access only.
- Ensure the safe working load is not exceeded.
 - The safe working load of the working platform is 212kg UDL.
- The adjustable legs are for levelling the tower only. They must not be used to gain extra height.
- Do not use boxes, stepladders or other objects to gain extra height.



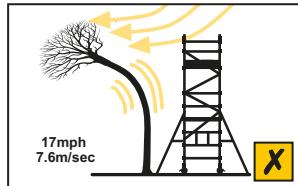
- Beware of horizontal forces that might cause instability.
Maximum horizontal force = 30kg.



3 Using The Tower

- Beware of high winds.
- If assembling outdoors; check the forecast windspeed.
 - If the wind speed reaches 17 mph (7.6 m/s) you should cease work and dismantle the tower.

mph	km/h	m/s	Action
17	27	7.6	Stop work & dismantle the tower



- Also consider the wind funnelling effect of nearby buildings and other open areas, which could be present when the tower is used internally.
- Sheets, tarpaulins, or signage must not be attached to this tower outdoors.



3 Using The Tower

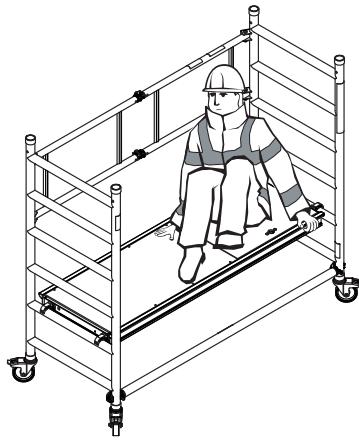
How to access the 0.6m Platform Height

Climb onto the platform in the sequence shown. From the seated position fit horizontal braces in the positions indicated. Do not stand on the platform until the guardrails are in place.

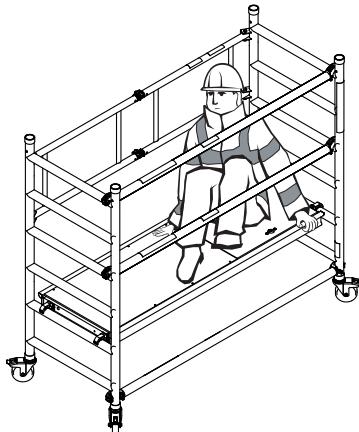
1



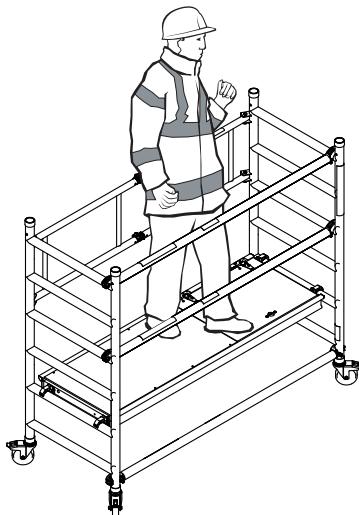
2



3



4



Important

- Never climb up the outside of the base unit.
- Never over reach - get down and reposition the base unit platform.

Note: Stabilisers have been omitted for image clarity.

3 Using The Tower

3.4 Movement Of The Assembled Prefabricated Tower Scaffold



MOVING A FULLY ASSEMBLED TOWER CAN BE EXTREMELY HAZARDOUS.

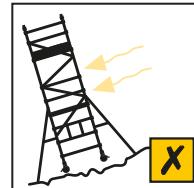
If there is any doubt about the safety of the move, the tower must be dismantled and reassembled in the new location.

This tower is not designed to be lifted or suspended.

Ensure gloves or other suitable hand protection is worn.

Before

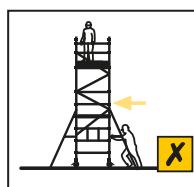
- Beware of rough, sloping ground and high winds. Tower stability is improved by reducing height.



- 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.



For further information and support for
the MiniMax product please contact:

Werner UK Sales & Distribution Ltd.
Blackwater Trading Estate, The Causeway,
Maldon, Essex, CM9 4LJ
Hungary Kft. 6000 Kecskemét,
Szt. Istvan Krt. 19

📞 +44 (0)1621 745900
✉️ uk.customerCare@prodrivenbrands.com
🌐 minimaxtower.com

Werner UK Sales & Distribution Ltd.
is a manufacturer member of:

