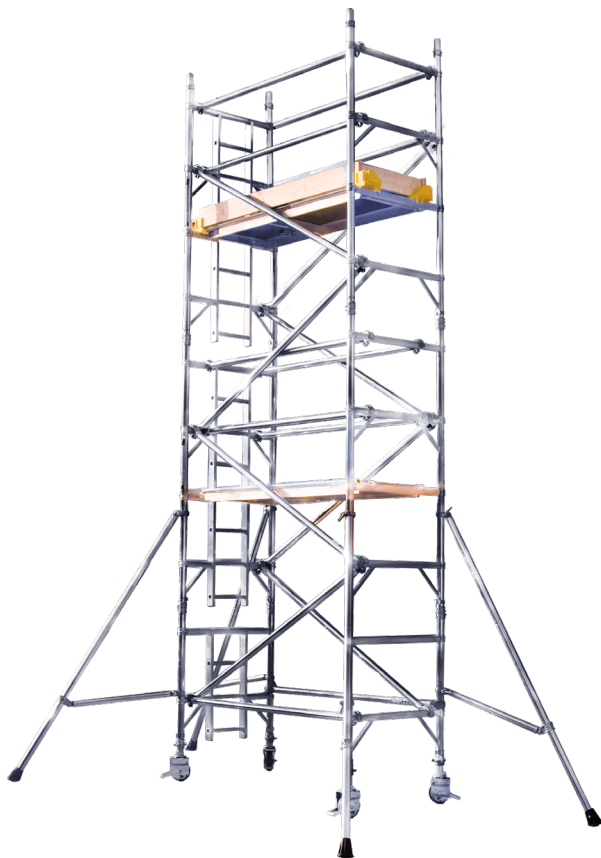


BOSS®



Ladderspan 3T

**Mobile Aluminium Tower
1450/850 Ladderspan**

3T - Through the Trapdoor Method

Instruction Manual

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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.

THIS PRODUCT SHALL ONLY BE USED IN ACCORDANCE WITH THIS MANUAL.



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

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.

Instruction manuals are also available to download at www.bossaccesstowers.com.

BoSS mobile aluminium towers are light-weight scaffold towers 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.

If you need further information, design advice, additional instruction manuals or any other help with this product, please contact Werner UK Sales & Distribution Ltd. on +44 (0)1621 745900 or email uk.customercare@wernerco.com.

Compliances



The BoSS Ladderspan mobile tower system has been designed, tested, approved and certified to EN 1004-1:2020.

This instruction manual is in compliance with EN1298-IM-en.

1 Safety First

1.2 Tower Designation

EN 1004 3 8/12 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)

1.3 Maintenance - storage - transport

- The BoSS 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 BoSS Inspection Guidance for detailed inspection and maintenance advice, the guidance is available to download at: www.bossaccesstowers.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.

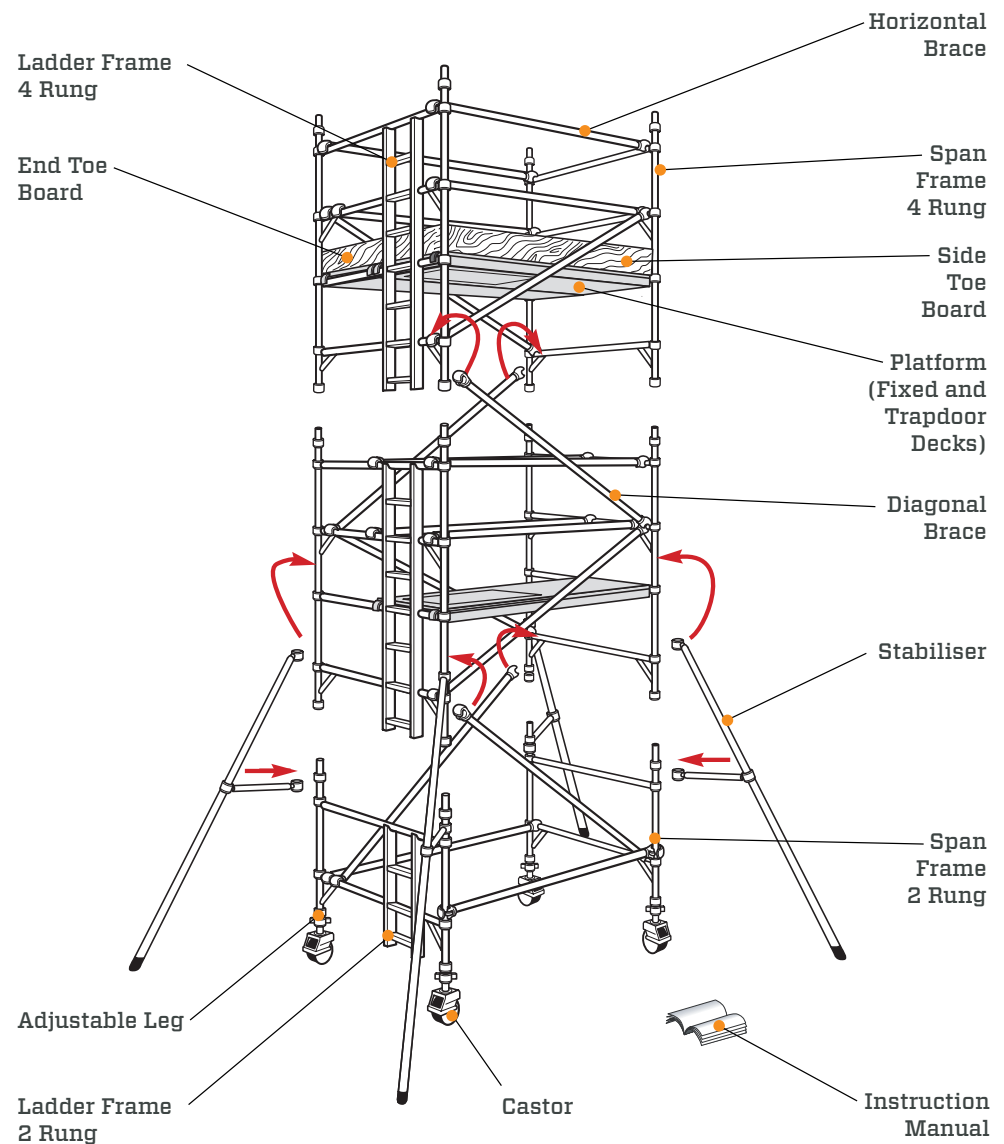
2 Building the Tower

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 within the 210mm range of the adjustable legs.
- 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.
- Tower scaffolds are not designed to be lifted or suspended.
- This tower provides a work platform. It must not be used to access other structures.
- 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).
- 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.
- Towers greater than 8.2m platform height are for indoor use only.
- 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



2.3 Quantity Schedule

BoSS 1450 Ladderspan to EN 1004: Available in 2 lengths - 1.8m and 2.5m

Component Component Code			Internal or External Use														Internal Use											
			Working Height (m)	Platform Height (m)	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2			
32842300	Castor 150mm		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
33651300	Adjustable Leg		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
61151300	Ladder Frame 1450 2 Rung		1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	-	1	1				
60551300	Span Frame 1450 2 Rung		1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	1				
61051300	Ladder Frame 1450 3 Rung		-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-				
60451300	Span Frame 1450 3 Rung		-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-				
60951300	Ladder Frame 1450 4 Rung		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6	6				
60351300	Span Frame 1450 4 Rung		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6	6				
30151100/ 30251100	Fixed Deck 1.8m and 2.5m		1	2	1	1	1	2	1	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1				
30451100/ 30551100	Trapdoor Deck 1.8m and 2.5m		1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6				
31251300/ 34851300	Horizontal Brace 1.8m and 2.5m (red)		6	10	10	10	10	14	14	14	14	14	18	18	18	18	22	22	22	22	26	26	26	26				
31351300/ 31451300	Diagonal Brace 2.1m and 2.7m (blue)		4	6	6	8	8	10	10	12	12	14	14	16	16	16	18	18	20	20	22	22	24	24				
30450900/ 30550900	Side Toe Board 1.8m and 2.5m		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
30350900	End Toe Board 1.45m		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
30150900	Toe Board Holder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
31751300	SP7 Fixed Stabiliser		4	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
31851300	SP10 Telescopic Stabiliser		-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
31951300	SP15 Telescopic Stabiliser		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tower Total Self-weight 1.8m (kgs)			116	145	149	159	163	211	216	226	230	258	263	288	292	304	309	319	323	351	356	366	366	369				
Tower Total Self-weight 2.5m (kgs)			131	165	170	180	184	239	243	254	257	292	296	323	327	346	350	360	364	399	403	414	414	418				
Max. Exerted Leg Load 1.8m (kgs)			150	150	160	170	180	190	200	210	220	240	255	270	300	300	300	310	310	310	320	320	320	320				
Max. Exerted Leg Load 2.5m (kgs)			170	170	180	180	190	190	200	200	210	260	305	310	320	330	340	350	360	370	380	390	400	400				

BoSS 850 Ladderspan to EN 1004: Available in 2 lengths - 1.8m and 2.5m

Component Component Code			Internal or External Use														Internal Use										
			Working Height (m) Platform Height (m)	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2			
32842300	Castor 150mm		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
33551300	Adjustable Leg		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
61151300	Ladder Frame 850 2 Rung		1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	1			
60551300	Span Frame 850 2 Rung		1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	1			
61051300	Ladder Frame 850 3 Rung		-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-			
60451300	Span Frame 850 3 Rung		-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-			
60951300	Ladder Frame 850 4 Rung		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6	6			
60351300	Span Frame 850 4 Rung		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6	6			
30151100/ 30251100	Fixed Deck 1.8m and 2.5m		-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-			
30451100/ 30551100	Trapdoor Deck 1.8m and 2.5m		1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6			
31251300/ 34851300	Horizontal Brace 1.8m and 2.5m (red)		6	10	10	10	10	14	14	14	14	18	18	18	18	22	22	22	22	26	26	26	26	26			
31351300/ 31451300	Diagonal Brace 2.1 and 2.7m (blue)		4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	24			
30450900/ 30550900	Side Toe Board 1.8m and 2.5m		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
30350900	End Toe Board 0.85m		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
30150900	Toe Board Holder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
31751300	SP7 Fixed Stabiliser		4	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
31851300	SP10 Telescopic Stabiliser		-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
31951300	SP15 Telescopic Stabiliser		-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-			
Tower Total Self-weight 1.8m (kgs)			96	122	126	135	138	184	188	197	200	226	230	255	257	284	288	297	299	310	314	323	325	325			
Tower Total Self-weight 2.5m (kgs)			106	139	142	152	154	208	211	220	223	256	259	285	288	305	308	318	321	354	357	367	367	369			
Max. Exerted Leg Load 1.8m (kgs)			155	155	155	155	155	160	160	160	160	160	160	185	210	235	260	285	310	325	330	335	340	345			
Max. Exerted Leg Load 2.5m (kgs)			140	140	150	150	150	150	160	160	170	170	175	200	230	230	240	250	260	270	280	285	285	285			

2 Building the Tower

Assembly Variations

This section lists the permitted component variation from the Quantity Schedule.

Note: These substitutions must be made before assembly.

Stabilisers with Universal Clamps may be substituted:

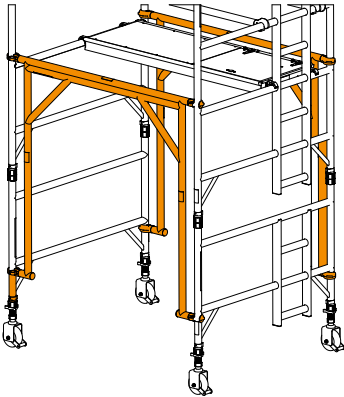
Component Code	Description	Weight (kg)
31751400	SP7	4.0
31851400	SP10	9.0
31951400	SP15	13.1

Other Castor sizes and types may be substituted:

Component Code	Description	Weight (kg)
31842300	Diameter 150mm (Tyred)	3.2
32942300	Diameter 200mm	3.9
31942300	Diameter 200mm (Tyred)	3.9

If side walk-through access is required at the base of 4.2m, 6.2m, 8.2m, 10.2m or 12.2m platform height towers, high clearance frames may be used in place of the four lower diagonal braces and two lower horizontal braces.

High clearance frames must not be used in conjunction with walk-through frames.



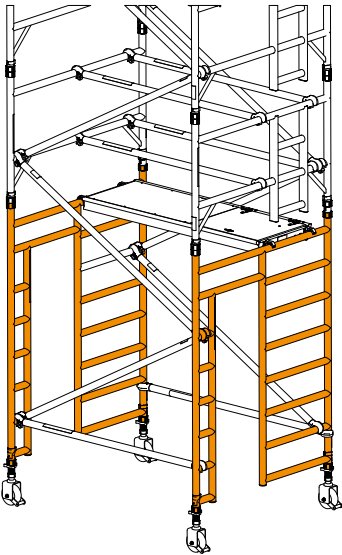
Component Code	Description	Weight (kg)
30051500	High Clearance Frame 1.8m	10.0
30151500	High Clearance Frame 2.5m	12.0

2 Building the Tower

If end walk-through access is required at the base of 2.2m, 4.2m, 6.2m, 8.2m, 10.2m or 12.2m platform height, 1450 wide towers, walk-through frames may be used.

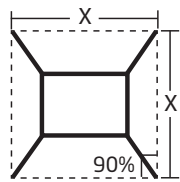
In this case the 1m ladder frame and span frame must be fitted above the walk-through frames.

Walk-through frames must not be used in addition to high clearance frames.



Component Code	Description	Weight (kg)
33151700	Walk-through Frame 2.0m	10.8

2.4 Stabilisers



	Double Width 1450 Tower		Single Width 850 Tower	
	Platform Length		Platform Length	
	1.8m	2.5m	1.8m	2.5m
SP7	3351	3629	2294	3201
SP10	4789	5100	4458	4734
SP15	5520	5838	5195	5485

SP10 and SP15 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 Building the Tower

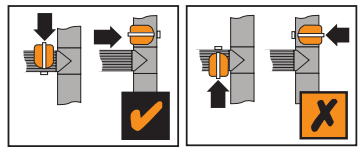
2.5 Assembly

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.

- No tools are required 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 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.
- Always start assembly with the smallest height frames at the base.

Platform Height (m)	Frame at Base
2.2, 3.7, 4.2, 5.7, 6.2, 7.7, 9.7, 10.2, 11.7, 12.2	2 Rung
2.7, 4.7, 6.7, 8.7, 10.7	3 Rung
3.2, 5.2, 7.2, 9.2, 11.2	4 Rung

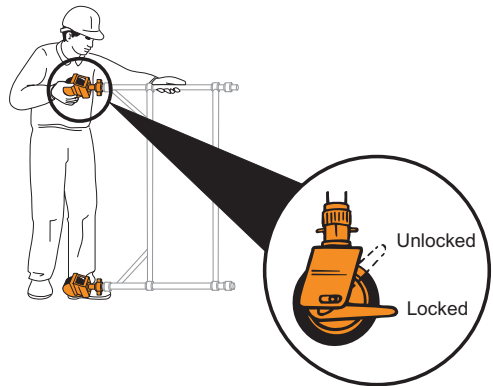
- Where all three frames are specified, start with the 2 rung, 3 rung next and 4 rung on top. Refer to the quantity schedule for details.
- Castor brakes should be locked as soon as the tower base is in position.
- The tower base should be levelled to within 0.6° before continuing the assembly.
- The 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

2.5.1 Assembly for 1450 Towers

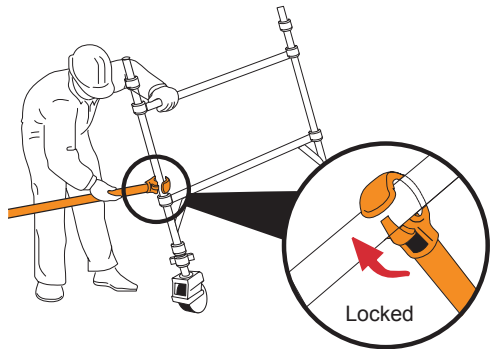
- 1** Push castor into adjustable leg. Push castor/adjustable leg assemblies into 2 rung span frame. Lock castors. Repeat procedure with 2 rung ladder frame.

It is recommended that for ease of levelling a gap of 50mm is left between the bottom of the leg and the adjustable nut. Adjustable legs are for levelling only. You must not adjust all four to gain extra height.



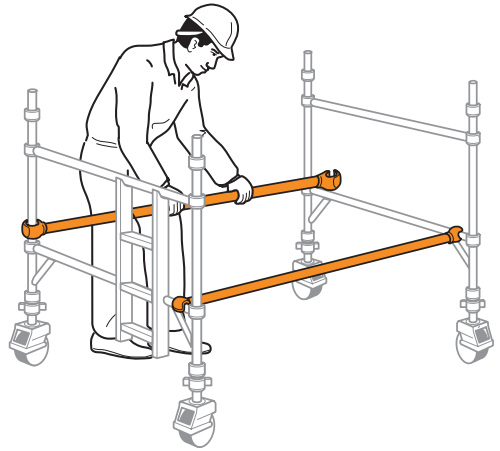
- 2** Fit one horizontal brace (red) onto the vertical of a span frame, just above the bottom rung, with the claw facing outwards. The frame will now be self-supporting.

Note: All locking claws must be opened before fitting.

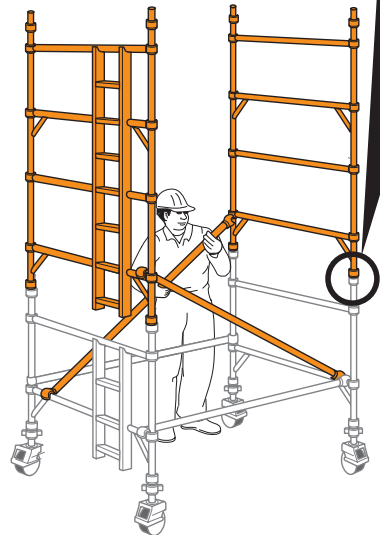
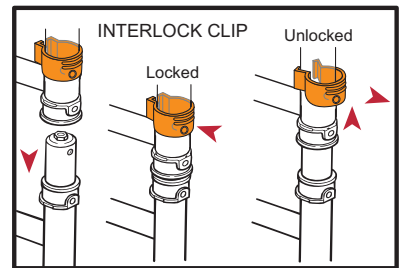


2 Building the Tower

3 Position the ladder frame as shown and fit the other end of the horizontal brace on to the vertical (just above the bottom rung). Fit a second horizontal brace between the bottom rungs on the other side of the frames to square the tower.



4 Fit two additional end frames, ensuring the frame interlock clips are engaged. Fit two diagonal braces (blue) in opposing directions, between the 1st and the 3rd rungs. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.

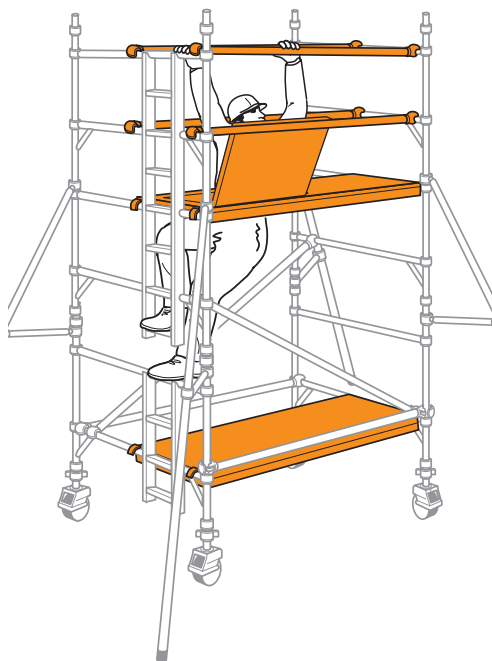


2 Building the Tower

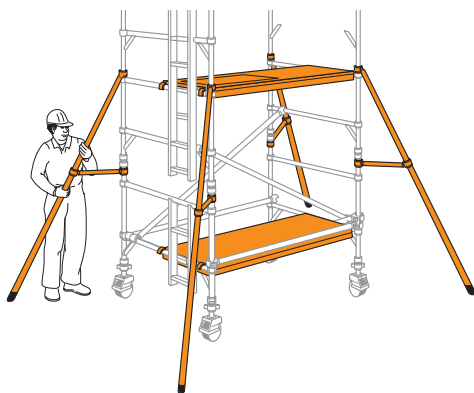
5 Fit a temporary deck on the lowest rungs. Fit a trapdoor deck on the 4th rung (2.0m) with the trapdoor next to the ladder. Ensure the trapdoor is positioned with the hinges towards the outside of the tower as shown. Climb the ladder and, from the protected trapdoor position, fit guardrails on the 5th and 6th rungs (in that order) on both sides of the platform.

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

When horizontal braces are fitted as guardrails, they should be 0.5m and 1.0m (1 and 2 rungs) above the platform level in all cases. Remove the temporary deck from the lowest rung.



Fit stabilisers (see notes on **page 9**).

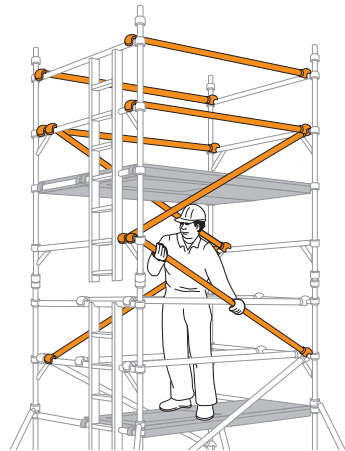


2 Building the Tower

6 Fit the next pair of diagonal braces in opposing directions between the 3rd and 5th rungs. Add two additional end frames.



7 Add two more diagonal braces between the 5th and 7th rungs. If finishing at this height (4.2m platform) reposition the fixed deck to the 8th rung on the tower. Fit a trapdoor deck alongside it, with the hinges towards the outside of the tower, and the trapdoor next to the ladder. Add two more diagonal between the 7th and 9th rungs as shown. Climb up the ladder, and from the protected trapdoor position, fit the guardrails on the 9th and 10th rungs, in that order, on both sides of the tower.

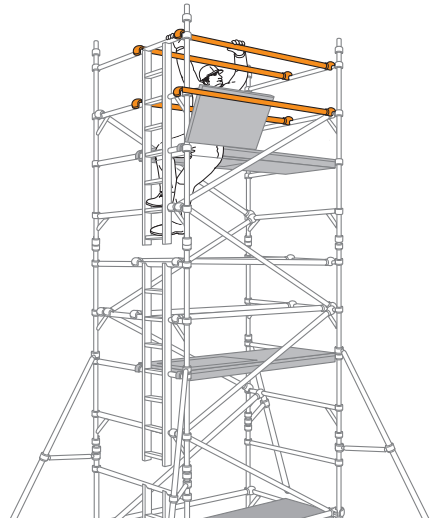


2 Building the Tower

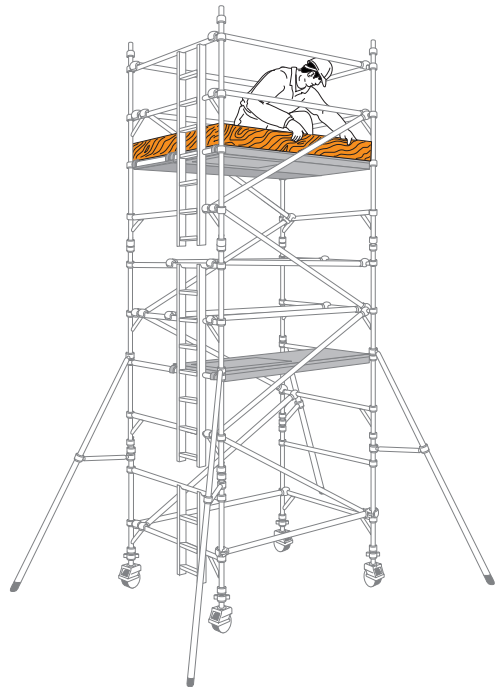
8 Continue to add pairs of end frames, diagonal braces and fit trapdoor decks as shown in the previous steps. Add guardrails at 0.5m and 1.0m, (in that order), above the platform from the protected trapdoor position.

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

Continue until the required height is reached. Re-position the fixed deck to the required platform height and fit a trapdoor deck alongside it as shown in **Stage 7**. Fit a single diagonal at the top of the tower as shown in **Stage 7**. Fit the final guardrails as shown in **Stage 7**.



9 Fit toe boards.
The tower is now complete.



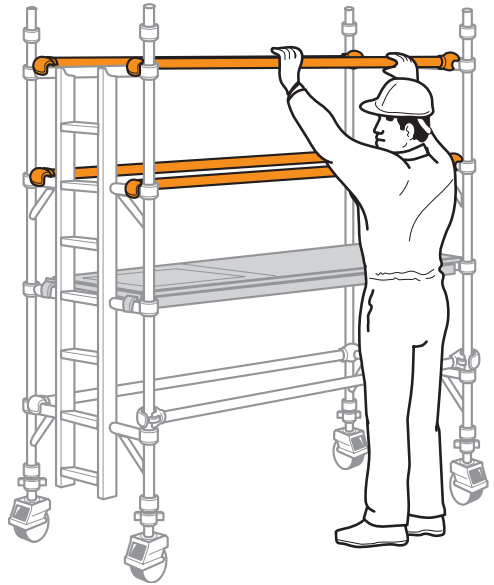
2 Building the Tower

2.5.2 Assembly for 850 Towers

The procedure illustrated shows a 3.2m platform height tower starting with a 4 rung frame.

1 Insert adjustable leg/castor assemblies into end frames and lock the castors (see diagram **Step 1 - page 11**). Base plates can be fitted to the adjustable legs if it is not necessary to move the tower. Fit two horizontal braces to the 850 end frames as shown in **Steps 2 and 3** for the 1450 tower procedure (**pages 11 and 12**).

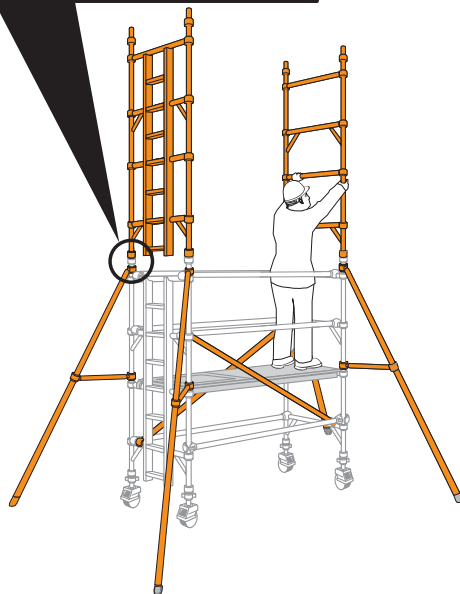
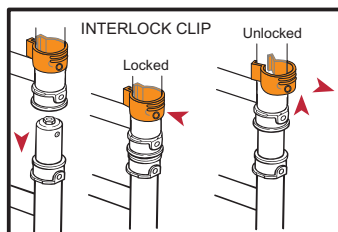
2 Fit a trapdoor deck on the 2nd rung. Fix the horizontal braces (red) as guardrails on the 3rd and 4th rungs (2 and 4 rungs above the platform) on both sides of the tower.



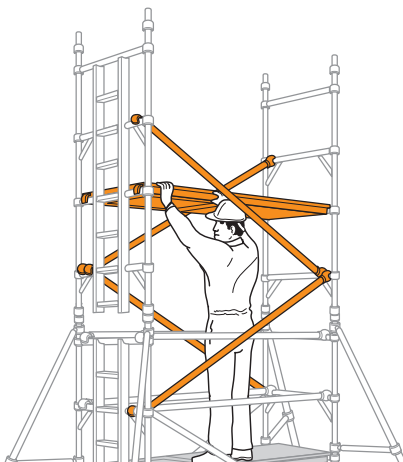
2 Building the Tower

3 Fit two diagonal braces in opposing directions between the 1st and 3rd rungs. Ensure that the frames are vertical and level by checking with a spirit level and setting the adjustable legs as necessary. Fit stabilisers (see notes on **page 9**). Fit the next pair of end frames and check the frame interlock clips are engaged.

Important - Only use the adjustment on the legs to level the tower and not to gain extra height.

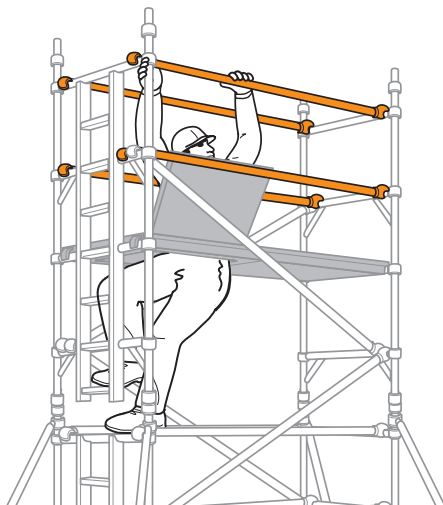


4 Fit two pairs of diagonal braces in opposing directions between the 3rd and 5th rungs and the 5th and 7th rungs. Locate a trapdoor deck on the 6th rung, with the trapdoor next to the ladder.



2 Building the Tower

- 5** Climb up the inside of the tower and from the protected position of the trapdoor, fit guardrails to the 7th and 8th rungs (in that order) on both sides of the tower.



- 6** Continue the procedure until the required working height is reached, adding additional pairs of end frames, diagonal braces and fitting trapdoor platforms, as shown on previous steps. At every platform level, add horizontal braces as guardrails from the protected position within the trapdoor (as shown in Step 5).

Fit two diagonal braces at the top of the tower as shown.

Fit the toe boards.

The tower is now complete.



2.6 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 .










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. These regulations must be followed.

3.2 Pre-Use Checklist

Tower upright and level to within 0.6°	
Castor brakes locked	
All interlock clips engaged	
Braces/Guardrails correctly positioned	
All claws latched	
All platform wind latches engaged	
Correct stabiliser size fitted and positioned	
Toe boards fitted to working platform	
Instruction manual available to user	

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.
- Ensure the safe working load on the structure is not exceeded. See tower designation.
- Do not use boxes, stepladders or other objects to gain extra height.
- The adjustable legs are for levelling the tower only. They must not be used to gain extra height.
- Beware of horizontal forces that might cause instability. Maximum horizontal force = 30kg.
- 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.
- Towers above 8.2m platform height are for indoor use only.

3 Using the Tower

3.4 Movement of the assembled prefabricated tower scaffold

Ensure gloves or other suitable hand protection is worn.

Before

- Survey the route to be taken. Assess the ground condition/slope and any overhead obstructions or hazards.
- Tower stability will be improved by reducing the height before movement.
- 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 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.

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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