

SAFETY FIRST

This document is to be used in conjunction with the full user guide available from the manufacturer or to download at bossacesstowers.com/literature.

Safe use

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

- Check that all components are onsite, undamaged and that they are functioning correctly - (refer to Checklist and Quantity Schedules in the user guide). Damaged or incorrect components should not be used.
- Check ground on which tower is to be erected and moved is capable of supporting the tower.
- The safe working load is 275kgs (606lbs), per platform level, uniformly distributed up to a maximum of 950kgs (2100lbs), per tower (including self-weight).
- Beware of horizontal forces (e.g. power tools) which could generate instability.
- Maximum horizontal force equals 30kg.
- Towers must only ever be climbed from the inside and using the rungs directly below the trapdoor.
- It is recommended that towers should be tied to a solid structure when left unattended.
- Only use the adjustable legs to level the tower and not to gain extra height. Adjustable legs should only ever be extended to minimum amount required to level the tower.

Lifting of equipment

- Tower components should be lifted using a reliable lifting material (e.g. strong rope), employing a reliable knot (e.g. clove hitch), to ensure safe fastening and always lift within the footprint of the tower.
- Assembled mobile towers should not be lifted with a crane or other lifting device.
- Ensure the safe working load of the supporting decks and the tower structure is not exceeded.

Movement

- The tower should only be moved by manual effort, and only from the base.
- No person or materials should be on the tower during movement.
- Caution should be exercised when wheeling a tower over rough, uneven or sloping ground, taking care to unlock and lock castors. If stabilisers are fitted, they should only be lifted a maximum of 25mm above the ground to clear ground obstructions.
- The overall height of the tower when being moved, should not exceed 2.5 times the minimum base dimensions, or 4 metres overall height with stabilisers fitted in the correct position (whichever is the smallest). If stabilisers are not fitted in the standard position, the overall height of the tower should not exceed 2m.
- Before use, check the tower is still correct and complete.
- After every movement of the tower use a spirit level to check that it is vertical and level to within 10mm/m and set the adjustable legs as required.
- Do not move the tower in wind speeds over 7.7 metres per second (17 mph).
- Mobile access towers are not designed to be lifted or suspended.

NOTE: If the tower is moved, you MUST inspect prior to use.

Ties

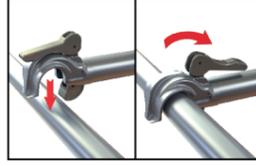
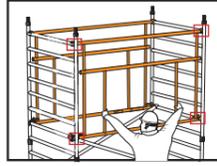
For further information on tying-in a tower please contact your supplier or the manufacturer.

Maintenance - storage - transport

All components and their parts should be regularly inspected to identify damage, particularly to joints. Lost or broken parts should be replaced, and any tubing with indentation greater than 5mm must not be used.

PRE-USE SAFETY CHECKLIST

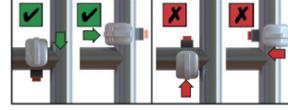
Description	Yes
Tower structure upright and level	
Castors locked and legs correctly adjusted	
Diagonal braces fitted	
Stabilisers fitted as specified	
Platforms located and wind-locks engaged	
Interlock clips engaged	
Toe boards located	
Guardrails fitted correctly and positively locked. See illustration below	



Ensure camlocks are engaged.

Ensure horizontal braces and guardrails are fitted correctly. Always fit as shown.

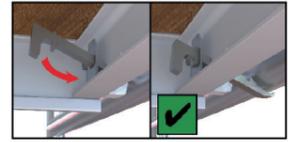
Refer to this checklist before using each time.



Ensure horizontal braces and guardrails are fitted correctly.



Ensure interlock clips on frame members are in the 'locked' position.



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

BOSS®



LADDERSPAN AGR

**BoSS Camlock Advance Guardrail
Mobile Aluminium Tower
850/1450 Frames**

QUICK GUIDE

PN03300400

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QUANTITY SCHEDULE 850 WIDTH TOWERS

BoSS Ladderspan incorporating BoSS Camlock Advance Guardrail - 850mm wide x 1.8 & 2.5m long

AGR build	Internal or external use										Internal use only					
	4.2 2.2	4.7 2.7	5.7 3.7	6.2 4.2	6.7 4.7	7.7 5.7	8.2 6.2	8.7 6.7	9.7 7.7	10.2 8.2	10.7 8.7	11.7 9.7	12.2 10.2	12.7 10.7	13.7 11.7	14.2 12.2
125mm/150mm/200mm Castor	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Adjustable Leg	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2 Rung Ladder Frame (1.0m high x 0.85m wide)	1		1	1		1	1		1	1		1	1		1	1
2 Rung Span Frame (1.0m high x 0.85m wide)	1		1	1		1	1		1	1		1	1		1	1
3 Rung Ladder Frame (1.5m high x 0.85m wide)		1	1		1	1		1	1		1	1		1	1	
3 Rung Span Frame (1.5m high x 0.85m wide)		1	1		1	1		1	1		1	1		1	1	
4 Rung Ladder Frame (2.0m high x 0.85m wide)	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6
4 Rung Span Frame (2.0m high x 0.85m wide)	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6
1.8m/2.5m Trapdoor Deck	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6
1.8m/2.5m Horizontal Brace	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.1m/2.7m Diagonal Brace	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.8m/2.5m Side Toe Board	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.6m End Toe Board	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Toe Board Holder	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.8m/2.5m Camlock AGR	2	2	4	4	4	6	6	6	8	8	8	10	10	10	12	12
SP7	4	4	4	4	4											
SP10						4	4	4	4		4	4	4	4	4	4
SP15										4						
Total Self-Weight of Tower (kg) - 1.8m	113	131	155	159	177	213	217	235	259	278	281	305	309	327	351	355
Total Self-Weight of Tower (kg) - 2.5m	124	147	174	178	200	240	244	266	293	311	320	347	350	350	400	404

Always use stabilisers where specified.

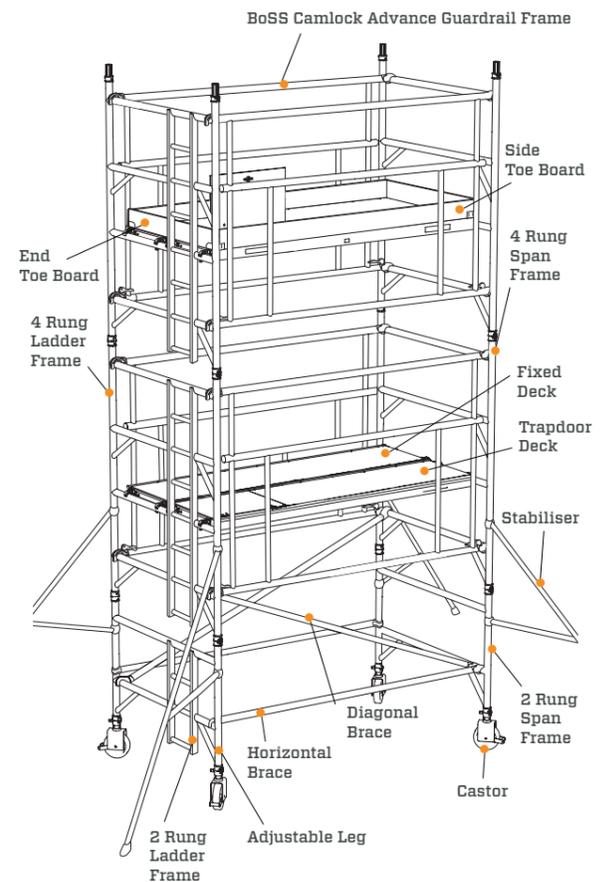
QUANTITY SCHEDULE 1450 WIDTH TOWERS

BoSS Ladderspan incorporating BoSS Camlock Advance Guardrail - 1450mm wide x 1.8 and 2.5m long

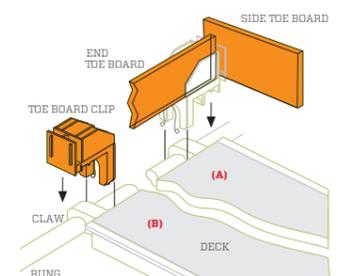
AGR build	Internal or external use										Internal use only					
	4.2 2.2	4.7 2.7	5.7 3.7	6.2 4.2	6.7 4.7	7.7 5.7	8.2 6.2	8.7 6.7	9.7 7.7	10.2 8.2	10.7 8.7	11.7 9.7	12.2 10.2	12.7 10.7	13.7 11.7	14.2 12.2
125mm/150mm/200mm Castor	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Adjustable Leg	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2 Rung Ladder Frame (1.0m high x 1.45m wide)	1		1	1		1	1		1	1		1	1		1	1
2 Rung Span Frame (1.0m high x 1.45m wide)	1		1	1		1	1		1	1		1	1		1	1
3 Rung Ladder Frame (1.5m high x 1.45m wide)		1	1		1	1		1	1		1	1		1	1	
3 Rung Span Frame (1.5m high x 1.45m wide)	1	1	1		1	1		1	1		1	1		1	1	
4 Rung Ladder Frame (2.0m high x 1.45m wide)	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6
4 Rung Span Frame (2.0m high x 1.45m wide)	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6
1.8m/2.5m Trapdoor Deck	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6
1.8m/2.5m Fixed Deck	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6
1.8m/2.5m Horizontal Brace	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.1m/2.7m Diagonal Brace	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.8m/2.5m Side Toe Board	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.2m End Toe Board	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Toe Board Holder	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.8m/2.5m Camlock AGR	2	2	4	4	4	6	6	6	8	8	8	10	10	10	12	12
SP7		4	4	4	4											
SP10						4	4	4	4	4	4	4	4	4	4	4
Total Self-Weight of Tower (kg) - 2.5m	150	173	221	226	248	296	313	336	384	389	411	459	464	487	534	539
Total Self-Weight of Tower (kg) - 1.8m	133	151	192	196	214	254	271	289	329	334	351	392	396	414	454	459

Always use stabilisers where specified.

COMPONENTS



FITTING TOE BOARDS



ASSEMBLY PRINCIPLES

The manufacturer recommends that two persons are used to build BoSS Towers. Above 4m height, it is essential that at least two persons are used. Only climb the tower from the inside.

Always start building with the smallest height frames at the base of the tower:

Platform heights in metres	Frame at base	1st deck	1st AGR
2.2, 4.2, 6.2, 8.2, 10.2, 12.2	2 rung	4th rung	3rd rung
2.7, 4.7, 6.7, 8.7, 10.7	3 rung	1st rung	4th rung
3.7, 5.7, 7.7, 9.7, 11.7	2 + 3 rung	3rd rung	2nd rung

Where all three frame heights are used in a tower, start with 2 rung frames at the base, with the 3 rung frames next and the 4 rung frames on the top. Refer to the Quantity Schedules for detail. The procedure illustrated shows a 1450 tower starting with a 2 rung frame and a platform height of 4.2m. If building an 850 tower, the following method can be used with single decks at all levels.

During use

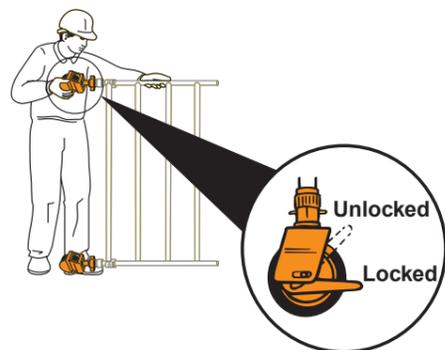
Beware of high winds in exposed, gusty or medium breeze conditions. We recommend that in wind speeds over 7.7 metres per second (17mph), cease working on the tower and do not attempt to move it. If the wind becomes a strong breeze, (expected to reach 11.3 metres per second - 25 mph) tie the tower to a rigid structure. If the wind is likely to reach gale force, (over 18 metres per second - 40 mph) the tower should be dismantled.

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

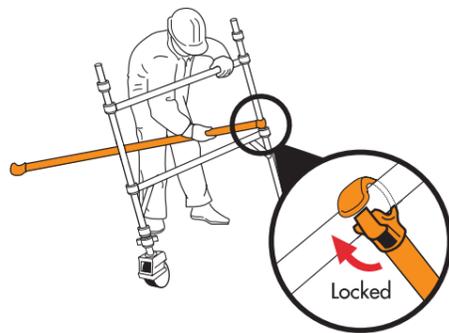
- Beware of open-ended buildings, which can cause a funnelling effect.
- Raising and lowering components, tools, and/or materials by rope should be conducted within the tower base. Ensure that the safe working load of the supporting decks and the tower structure is not exceeded.
- The assembled tower is a working platform and should not be used as a means of access or egress to other structures.
- Beware of horizontal forces (e.g. power tools) which could generate instability. **Maximum horizontal force 30kg.**
- The stairway towers, featuring an inclined staircase access, are for frequent use by personnel carrying tools and/or materials.
- Do not use boxes or stepladders or other objects on the platform to gain extra height.

ASSEMBLY PROCEDURE

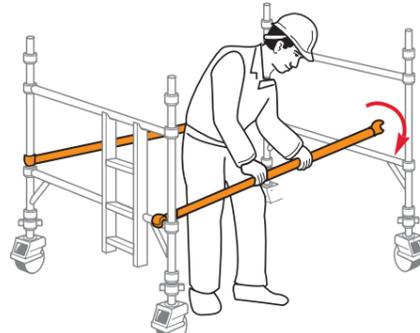
- 1** Push four castors into four adjustable legs. Adjust leg so that not more than 50mm of thread is visible below the nut. Insert adjustable legs into two end frames (one ladder and one span frame) as shown. Lock castor brakes. Base plates can be fitted to adjustable legs if it is not necessary to move the tower.



- 2** Fit one horizontal brace (red) onto the vertical of an end frame, just above the bottom rung, with the claw facing outwards.
Note: Check all claws are primed (unlocked) before fitting.

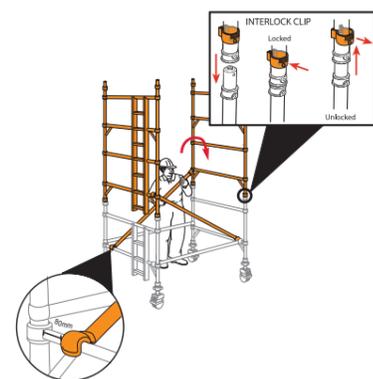


- 3** Position the second end frame as shown and fit the other end of the horizontal brace on to the vertical, just above the bottom rung. Fit a second horizontal brace on the bottom rungs on the other side of the frames to square the tower. **Note: Check all brace claws are positively locked after fitting.**

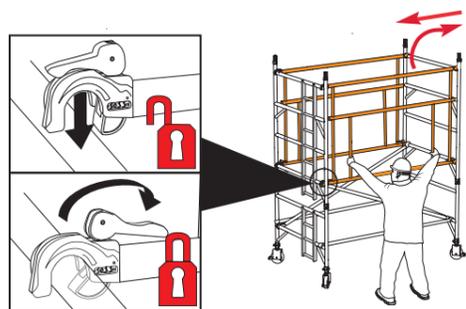


- 4** Fit two additional end frames ensuring ladder sections line up and check the frame interlock clips are engaged. Fit two diagonal braces (blue) in opposing directions, from the 1st rung to the 3rd rung on the opposing side. Diagonal braces should be positioned approx. 80mm inboard of the frame verticals. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.

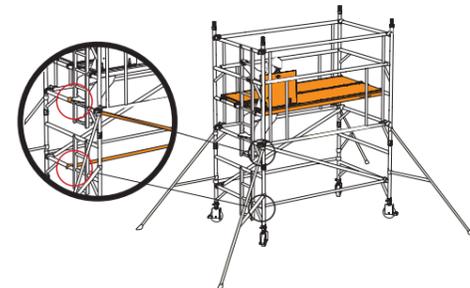
IMPORTANT - Only use the adjustable legs to level the tower and not to gain extra height. Adjustable legs should only ever be extended to minimum amount required to level the tower.



- 5** Fit a camlock AGR on each side of the tower. The bottom of the AGR must be fitted to the 3rd rung of the tower, as shown. The AGR should be placed up against the end frame verticals. Secure AGR frame by pulling the locking handle firmly down onto the lower horizontal tube of the AGR (locked position).



- 6** Fit the stabilisers if building higher - or on single width (850mm) towers. If required, fit a temporary deck on the lowest rungs of the tower. Fit a trapdoor deck on the 4th rung with trapdoor adjacent to the ladder. Ensure the trapdoor is positioned with the hinges towards the outside of the tower as shown. Fit a fixed deck next to the trapdoor deck on the 4th rung. (If fitted, remove the temporary deck from the lowest rungs.) The platform is now complete. Always climb the ladder below the trapdoor and always on the inside of the tower.



If clear access to the ladder is required, braces may be repositioned as shown. Reposition braces to original location before moving tower.

- 7** Fit two additional end frames, ensuring the ladder sections line up. Check interlock clips are engaged.



- 8** Fit two more AGRs to the end frames, with the top claws on the 10th rungs, lock the AGRs in place as in Step 5. Fit a trapdoor deck on the 8th rung, with the trapdoor in line with the one below. Place a fixed deck on the 8th rung next to the trapdoor deck. The tower now has a platform height of 4.2m. If finishing at this height, move on to Step 10. If greater platform height is required, repeat Steps 7 and 8 until desired height is achieved.



- 9** Continue to add pairs of end frames, AGRs and decks as shown in previous steps, until the required height is reached.



- 10** Fit the toe boards - see the components section for guidance on how to fit.
The tower is now complete.



DISMANTLING PROCEDURE

To dismantle the tower reverse the building sequence, i.e. remove decks, then AGRs, then end frames - always from the safety of the platform below.



For a detailed user guide, please go to bossacesstowers.com/literature