

SAFETY FIRST

This document is to be used in conjunction with the full user guide available from the manufacturer or to download at bossaccessowers.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.
- 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 ladder 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

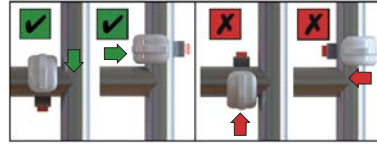
For further information on tying-in a tower please contact your supplier or the manufacturer.

Maintenance - storage - transport

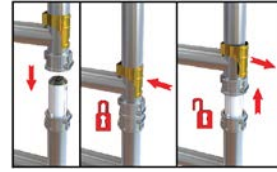
All components and their parts should be regularly inspected to identify damage, particularly to joints. Lost or broken parts should be replaced, and any tubing with indentation greater than 5mm must not be used.

PRE-USE SAFETY CHECKLIST

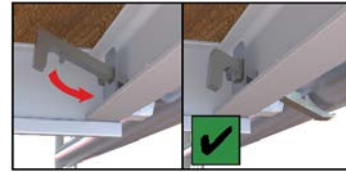
Description	Yes
Tower structure upright and level	
Base plates and legs correctly adjusted	
Diagonal braces fitted	
Stabilisers fitted as specified	
Platforms located and wind-locks engaged	
Interlock clips engaged	
Toe boards located	
Guardrails fitted correctly and positively locked.	



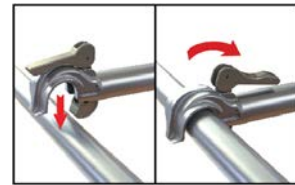
Ensure horizontal braces and guardrails are fitted correctly.



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



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



Ensure camlocks are engaged.

BOSS®



LIFTSHAFT⁷⁰⁰

Camlock Guardrail
Aluminium Tower
3T - Through the Trapdoor Method

QUICK GUIDE

PN003303700

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QUANTITY SCHEDULE

BoSS Liftshaft⁷⁰⁰ 1.3m (l) x 0.7m (w) Camlock Guardrail

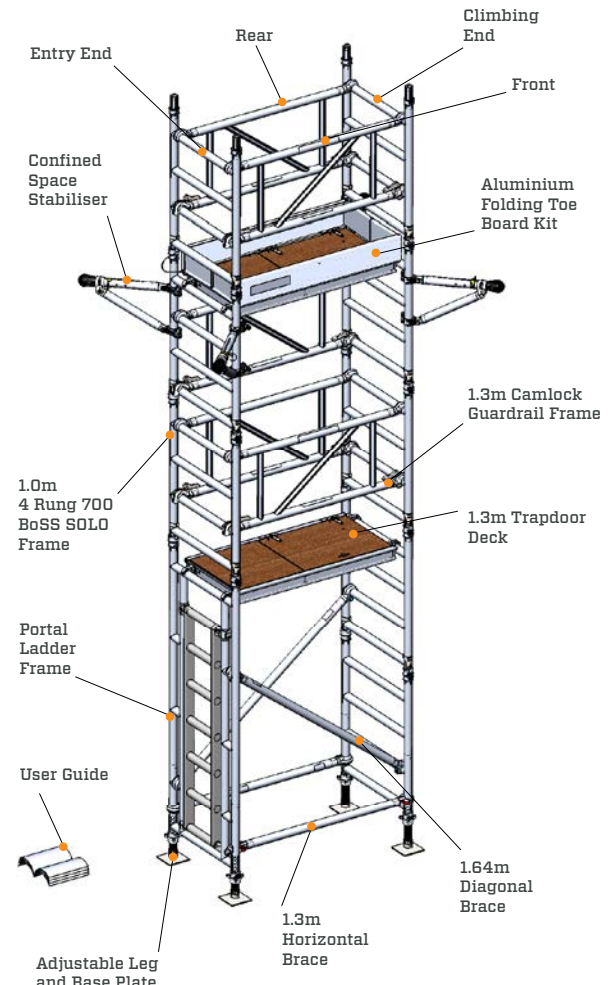
Component code	Component	Composite code	Internal use only									
			67113022	67113042	67113062	67113082	67113102	67113122	67113142	67113162	67113182	67113202
			Platform height (m)	4.2	6.2	8.2	10.2	12.2	14.2	16.2	18.2	20.2
		Working height (m)	2.2	4.2	6.2	8.2	10.2	12.2	14.2	16.2	18.2	20.2
33041300	Base Plate	1.7kg	4	4	4	4	4	4	4	4	4	4
33551300	Adjustable Leg	1.1kg	4	4	4	4	4	4	4	4	4	4
67011000	1.0m 4 Rung 700 BoSS SOLO Frame	3.9kg	4	8	12	16	20	24	28	32	36	40
33052600	Mk 2 Portal Ladder Frame	12.8kg	1	1	1	1	1	1	1	1	1	1
35651300	1.3m Horizontal Brace	1.6kg	2	2	2	2	2	2	2	2	2	2
35751700	1.64m Diagonal Brace	1.9kg	2	2	2	2	2	2	2	2	2	2
67030100	1.3 Camlock Guardrail Frame	5.0kg	2	5	8	11	14	17	20	23	26	29
67070100	1.3m Trapdoor Deck	9.8kg	1	2	3	4	5	6	7	8	9	10
31651400	Confined Space Stabiliser	2.9kg	0	4	4	8	8	12	12	16	16	20
67050100	Aluminium Folding Toe Board Kit	4.4kg	1	1	1	1	1	1	1	1	1	1
108792	User Guide	-	1	1	1	1	1	1	1	1	1	1
Total Self-Weight of Tower (kg)			71	123	163	215	256	308	348	400	440	492
Max. Exerted Leg Load (kg)			143	156	166	179	189	202	212	225	235	248
Max. Exerted Prop Load			-	16	16	16	16	16	16	16	16	16

(Working and Platform heights are measured from underside of lowest base plate.)

During assembly, use and dismantling

- The structure has been assessed for wind loads equating to 27mph (43 kph, 12 m/s).
- The effect of onsite 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 funneling effects around buildings.

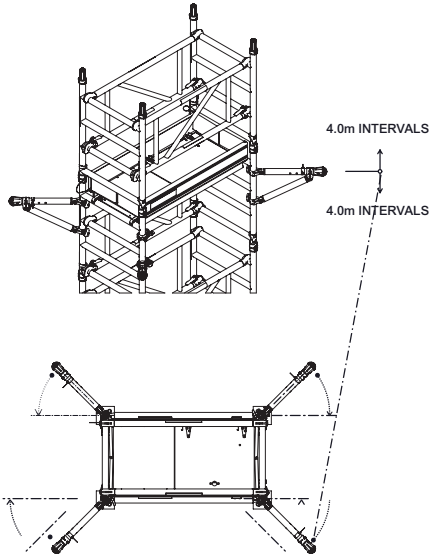
COMPONENTS



PROPS

The BoSS LiftShaft700 tower should be adequately propped or tied to prevent lateral movement. They must be fitted at regular 4.0m intervals. To improve stability, additional props or ties can also be fitted at lower levels.

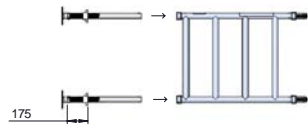
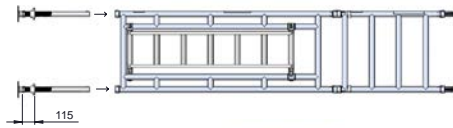
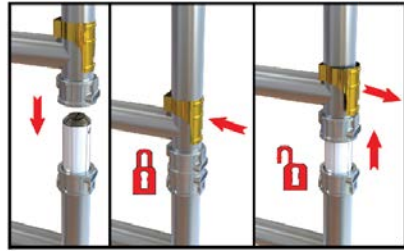
The method shown below illustrates the use of BoSS Confined Space Stabilisers.



Attach one confined space stabiliser to each corner of the tower as shown. Ensure stabiliser feet are touching the lift shaft walls - adjust confined space stabilisers as necessary to achieve this. If you require further advice, please contact please contact the manufacturer on +44 (0)1621 745900.

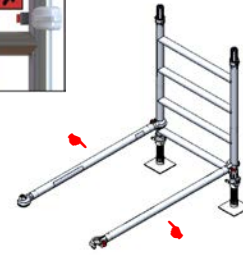
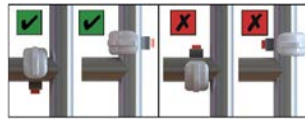
ASSEMBLY PROCEDURE

1 Connect the 4 rung frame together with the portal ladder frame. Ensure interlock clips are engaged. Insert base plates into adjustable legs and fit them into the frame subassembly. Insert two more base plates into adjustable legs and fit them into the 4 rung frame. Note the difference in gaps between the bottom of the leg and the adjustable nut.
Note: Adjustable legs are for levelling only. They are not to be used to gain extra height at the working level.



2 Fit two horizontal braces (red catch) onto verticals of the 4 rung frame above the bottom rung as shown, with the claws facing outwards. These frames will form the climbing end of the tower and should be positioned at the far end of the Liftshaft⁷⁰⁰.

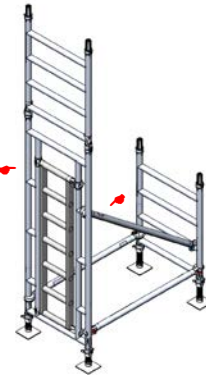
Note: All locking claws must be opened before fitting.



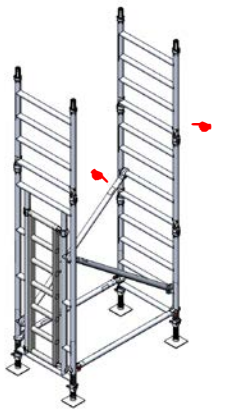
3 Position portal ladder frame sub-assembly at entry end of tower and fit other end of horizontal braces just above the bottom rung. The structure will now be self-supporting.

Fit one diagonal brace (blue catch) from the bottom rung of the portal ladder frame to the fourth rung of the end frame on the front of the tower as shown. Claws must face downwards.

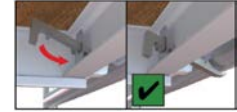
The structure must be vertical to within 1cm per metre. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.



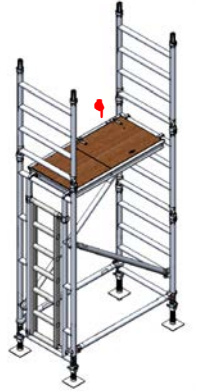
4 Connect two more 4 rung frames and fit them onto the climbing end of the tower. Ensure interlock clips are engaged. Fit one more diagonal brace as shown.



5 Fit one 1.3m trapdoor deck onto the top rung of the portal ladder frame as shown. Ensure the trapdoor opens towards the rear of the tower.



Ensure all wind-locks are engaged.

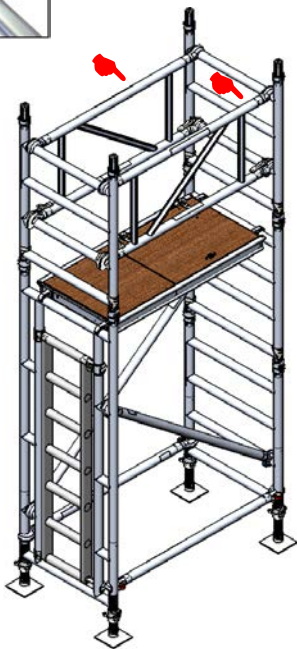
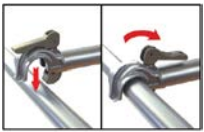


6 From the protected position of the trapdoor deck (i.e. seated), fit a camlock guardrail frame on the rear of the tower, with the upper claws located on the 4th rungs above the platform deck.

Repeat with a second camlock guardrail frame on the front of the tower.

Engage camlocks to lock guardrail units in position.

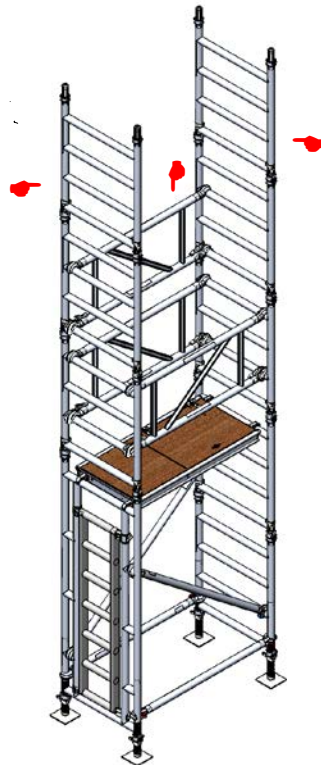
Do not climb onto the deck until all guardrails are in place. Ensure the gate is fully engaged before climbing.



7 Connect two 4 rung frames together to create two sub-assemblies. Engage interlock clips. Whilst standing on the protected platform deck, fit one subassembly onto the entry end of the tower. Again, engage interlock clips. Repeat for the climbing end of the tower.

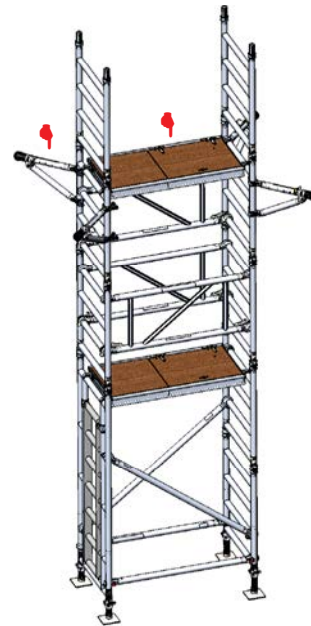
Fit a camlock guardrail frame to the rear of the tower, with the upper claws located on the 7th rung above the platform deck.

Engage camlocks to lock the guardrail unit in position.



8 Fit one 1.3m trapdoor deck onto the 8th rung above the platform deck as shown. Ensure wind-locks are engaged.

Fit a confined space stabiliser (or prop/tie) to all four corners of the tower as shown. See instructions below.



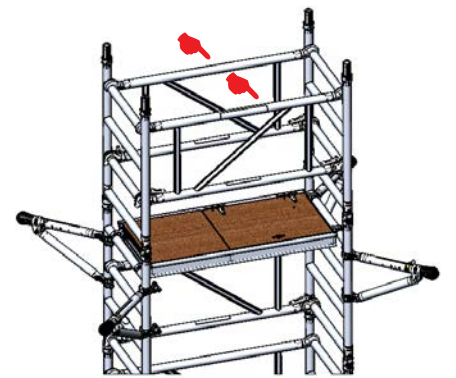
Ensure the end of the stabiliser arm contacts the wall. If it does not, adjust by unclipping and extracting the locking pin, sliding the arm until correct length and hole alignment is achieved. Reinsert the locking pin, ensuring clip is engaged. See images below.



9 From the protected position of the trapdoor deck (i.e. seated), fit a camlock guardrail frame on the rear of the tower, with the upper claws located on the fourth rungs above the platform deck. Repeat with a second camlock guardrail frame on the front of the tower.

Engage camlocks to lock guardrail units in position.

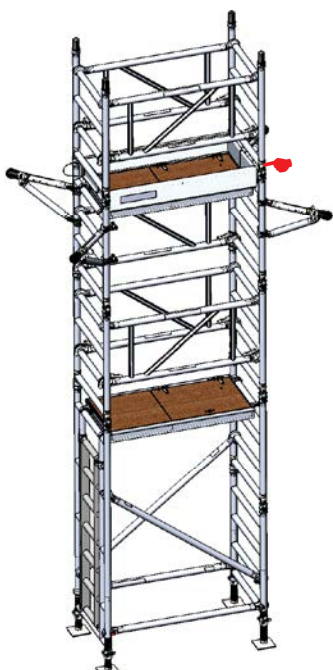
Do not climb onto the deck until all guardrails are in place.



10 Unclip storage strap from aluminium folding toe board set, unfold and fit into position on working platform.

Ensure it sits squarely around deck and does not impede the opening of the trapdoor in the deck.

The tower is now complete.



When building beyond 4.0m platform height

Continue to add two pairs of assembled 4 rung frames, three camlock guardrail frames, one trapdoor deck and four confined space stabilisers as shown in previous steps. At every platform level add guardrails between 2nd and 4th rungs above the platform. Confined space stabilisers (or props/ties) must be added at 4.0m intervals.

Fit these guardrail frames from the protected trapdoor position. Do not climb onto the platform until all guardrails are in place. Continue until the required height is reached.

When building 2.0m platform height only

Erect by following Steps 1 - 6 & 10 only.

DISMANTLING PROCEDURE

To dismantle a BoSS tower simply follow the assembly steps in reverse, ensuring that the 3T method is followed.