

## SAFETY FIRST

This document is to be used in conjunction with the full user guide available from the manufacturer or to download at [bossaccess Towers.com/literature](http://bossaccess Towers.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 550kgs (1213lbs), 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 on the tower structure is not exceeded.
- Tower components should be lifted using the BoSS SOLO700 assembly bracket.

### 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.

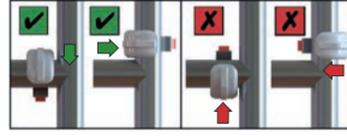
### Maintenance - storage - transport

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

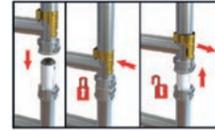
Refer to this checklist before using each time.

Description	Yes
Tower structure upright and level	
Castors locked and legs correctly adjusted	
Horizontal and diagonal braces fitted	
Stabilisers and props fitted as specified	
Platforms located and wind-locks engaged	
Interlock clips engaged	
Toe boards located	
Guardrails fitted correctly and positively locked	
Tower designation information kit fitted	

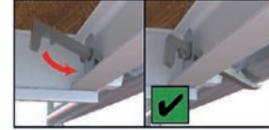


Ensure horizontal braces and guardrails are fitted correctly.

Always fit as shown.



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



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

# BOSS®



## SOLO<sup>700</sup>

One Man Aluminium Tower  
3T - Through the Trapdoor Method

QUICK GUIDE

PN3304100

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## QUANTITY SCHEDULE 1.3 x 0.7m

BoSS Solo 700 - 1.3m x 0.7m

Component	Working height (m)	Internal or external use		
		4.2	5.2	6.2
Component	Platform height (m)	2.2	3.2	4.2
Castor	4	4	4	4
Adjustable Leg	4	4	4	4
4 Rung End Frame (1.0m high x 0.7m wide)	4	6	8	
Folding Base Unit	1	1	1	
1.3m Camlock Guardrail Frame	3	5	6	
1.3m Trapdoor Deck	1	2	2	
1.3m Horizontal Brace	1	1	1	
Aluminium Folding Toe Board	1	1	1	
Assembly Bracket	2	2	2	
SP4 Telescopic Stabiliser	4	4	4	
<b>Total Self-Weight of Tower (kg)</b>		<b>93</b>	<b>121</b>	<b>134</b>

The MAXIMUM SAFE WORKING LOAD (the combined weight of the users, tools and materials) that may be placed on the tower is 550kg.

### Number of working platforms allowed

The MAXIMUM SAFE WORKING LOAD (the combined weight of the users, tools and materials) that may be placed on the tower is 550kg.

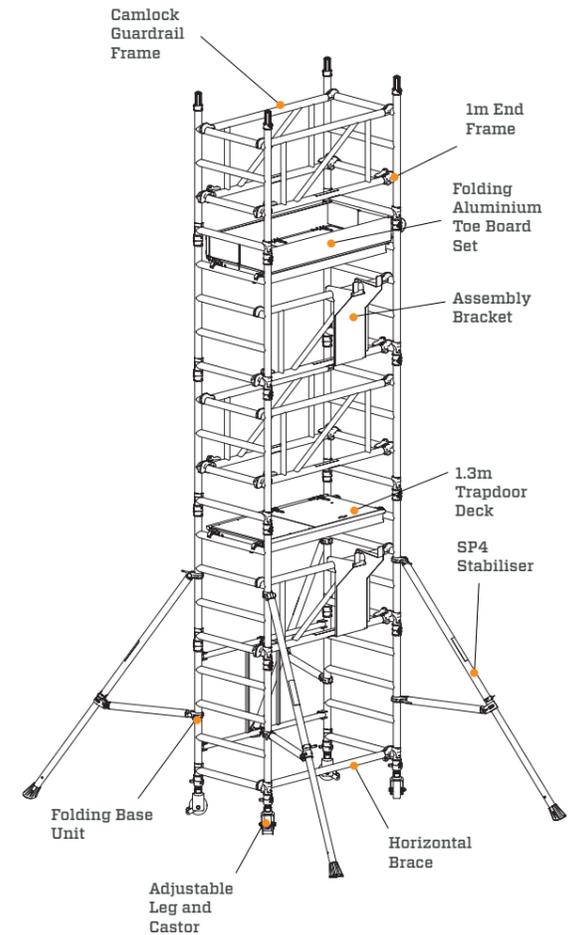
### Platform loading

The maximum safe working load (the combined weight of the users, tools and materials) that may be placed on a platform is 275kg. This must be evenly distributed over the whole platform level.

The quantity schedules shown in this user guide will enable the tower to be built safely and therefore comply with the requirements of the 'Work at Height Regulations'. Folding toe boards will need to be added if any levels are used as working platforms, or for storage of materials.

This tower system has been developed in accordance with EN1004 for single person use. If the tower is to be used with two people, SP10 stabilisers must be fitted in place of SP4 stabilisers.

## COMPONENTS



## 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 funneling 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.

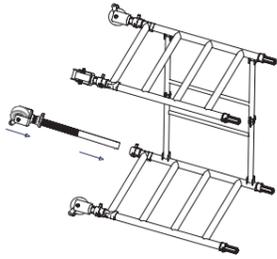
## ASSEMBLY PROCEDURE

The BoSS SOLO<sup>700</sup> system has been developed so that a single person can safely build the tower to a platform height of 4.2m.

- To comply with the '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 add guardrail platforms at this level.

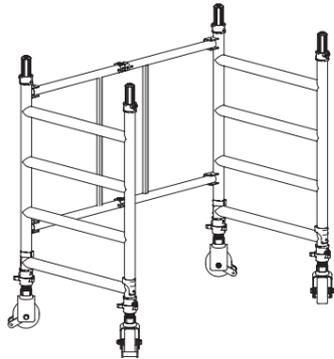
The procedure illustrated shows a 6.2m working height tower.

- 1 Insert castor into adjustable leg. Apply brake by pushing The lever down, release frame interlock clips and fit the leg and castor assembly into a 1m base frame. Repeat with the remaining legs and castors. Adjustable legs should only be used for levelling.

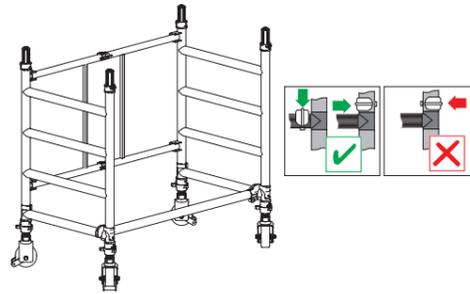


- 2 **FOLDING BASE METHOD:**  
Release brakes on castors at one end frame until the locks engage on the rear folding frame.

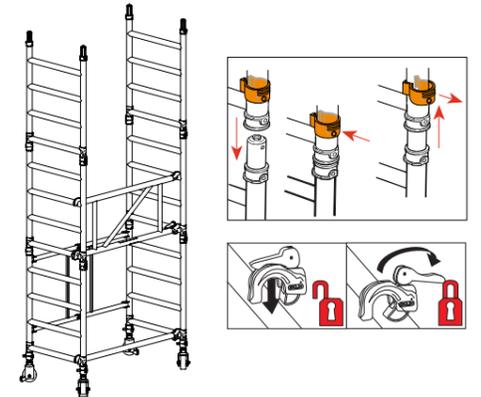
Ensure both hinges positively lock into position. Engage brakes on second frame.



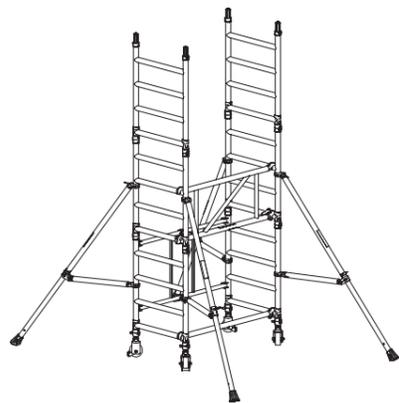
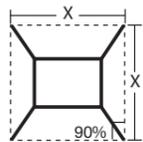
- 3 Locate the horizontal brace on the lowest rung with the hooks facing downwards - check the brace is correctly locked on the tube at both ends. Check the base unit is square and level using a spirit level. Adjust legs only to level and not to gain additional height.



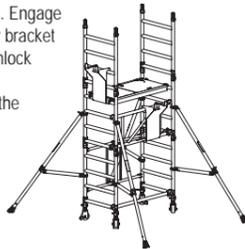
- 4 **STEP 1:** Connect two 4 rung frames together. Check the interlock clips are engaged and add onto the base unit. Repeat for the other side.  
**STEP 2:** Position one camlock guardrail unit. The top hooks should locate on the 7<sup>th</sup> rung from base level.  
**STEP 3:** Engage camlocks as shown to lock guardrail unit in position.



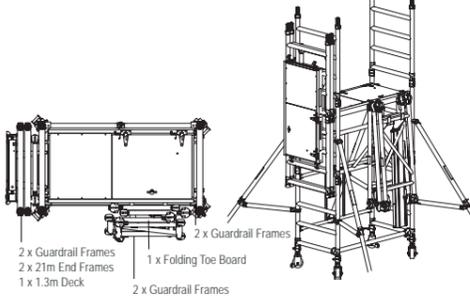
- 5 Fit stabilisers to tower before extending telescopic leg. Position top clamp above rung 6, second clamp locates above rung 2. Extend telescopic leg by removing the interlock clip. Slide the leg out until the leg reaches the ground. Rotate the leg until the interlock clip holes line up. Lock the leg by using the interlock clip and adjust the stabiliser to ensure the stabilisers are engaged.



- 6 From the ground level, position a trapdoor deck on rung 8. Engage the wind-locks. Locate assembly bracket No. 1 on front face of lowest camlock guardrail. Locate the second assembly bracket on rung 10 of the end frames.



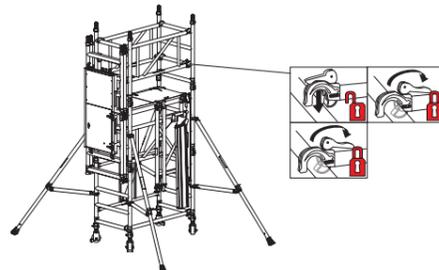
- 7 Hang four camlock guardrail units in order on the front assembly bracket and then 1 x folding toe board. Place the last camlock guardrail on the end frame assembly bracket No 2. Hang two pairs of connected 4 rung frames on the end bracket No 2, then hang the second trapdoor deck on the bracket.



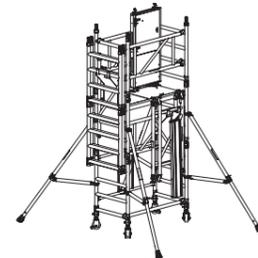
**Warning: Assembly Brackets are designed and intended only to aid assembly and dismantling.**

- 8 Climb the tower from the inside and from a protected position on the trapdoor. Reach to the side bracket and take one camlock guardrail. Position the guardrail on the rear of the tower as shown. All guardrails should fix to the 2<sup>nd</sup> and 4<sup>th</sup> rung above the platform deck. Repeat with second camlock guardrail frame on the front of tower to fully secure platform. Engage and lock camlock claws.

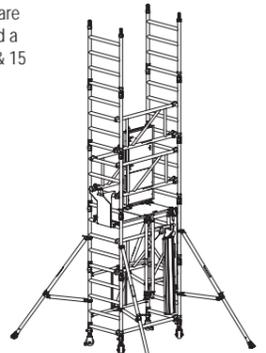
**Do not climb onto the platform until guardrails are in place.**



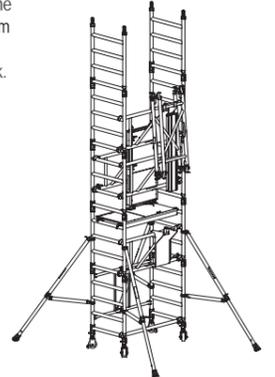
- 9 Standing up on the protected platform, lift the second trapdoor deck onto the platform. Store by the rear guardrail clear of the end frames.



- 10 Add the connected pairs of end frames taking care to engage the locking clips. Add a camlock guardrail to rungs 13 & 15 and lock.

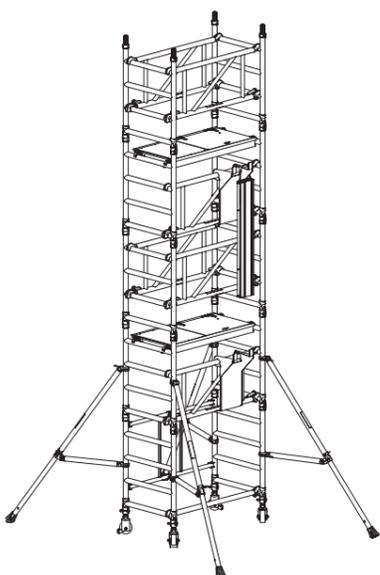


- 11 Remove the end frame assembly bracket from rung 10 of the end frame and re-position on the top camlock. Position the folding toe board set and then the remaining two camlock frames on the uppermost bracket.

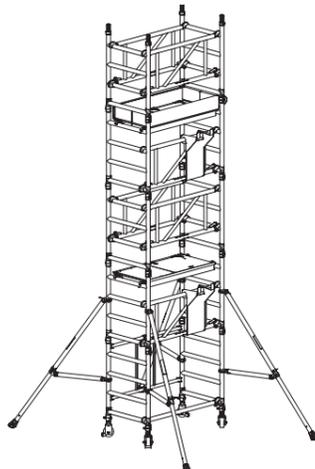


- 12 Place the trapdoor deck onto the 16<sup>th</sup> rung of the tower and engage wind-locks.

Climb the end frame from within and from the protected trapdoor position, fit the camlock guardrails as shown.



- 13 Unclip the storage strap from the folding toe board set, unfold and fit the toe board into position on the working platform. Move assembly brackets to base of the tower and fit to the lowest rungs of the end frames.



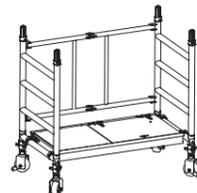
## DISMANTLING PROCEDURE

Simply follow the assembly steps in reverse, ensuring that the 3T method is followed.

## STORAGE TROLLEY ASSEMBLY

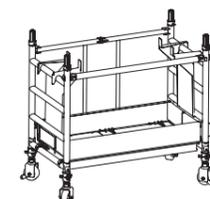
- 1 Assemble the folding base frame with one trapdoor deck placed on the bottom rung forming the base of the trolley.

Lower all adjustable legs as far as possible.

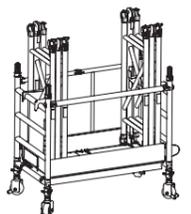


- 2 Fit the folding toe board set to the trapdoor deck. Position the 1.3m horizontal brace on the front upright, just above the 4<sup>th</sup> rung.

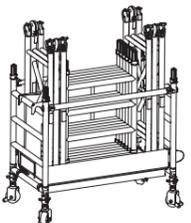
Place the assembly brackets, one at each end on the inside of the folding base unit end frames.



- 3 Place the camlock frames, three at either end within the trolley. Ensure the diagonal struts of the camlock frames fit between the arms of the assembly brackets.



- 4 Place the 1m end frames in the centre of the trolley between the guardrail frames.



- 5 Add the final trapdoor deck in front of the 1m end frames. Fit the four SP4 stabilisers in front of the trapdoor deck. The trolley unit is now complete.

