

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.
- 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 BoSS StairMAX⁷⁰⁰ tower system MUST NOT be moved once erected.
- Always dismantle it and rebuild at the new location.
- The pre-use safety checklist should be used before tower use after moving.

Ties

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

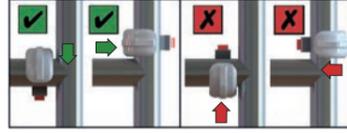
Maintenance - storage - transport

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

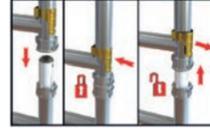
Refer to this checklist before using each time.

| Description | Yes |
|---|-----|
| Tower structure upright and level | |
| Base plates 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 | |

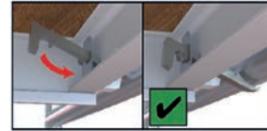


Ensure horizontal braces and guardrails are fitted correctly.

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.



Ensure camlocks are engaged.

BOSS[®]



STAIRMAX⁷⁰⁰

Camlock Guardrail
Aluminium Tower
3T - Through the Trapdoor

QUICK GUIDE

PN3303900

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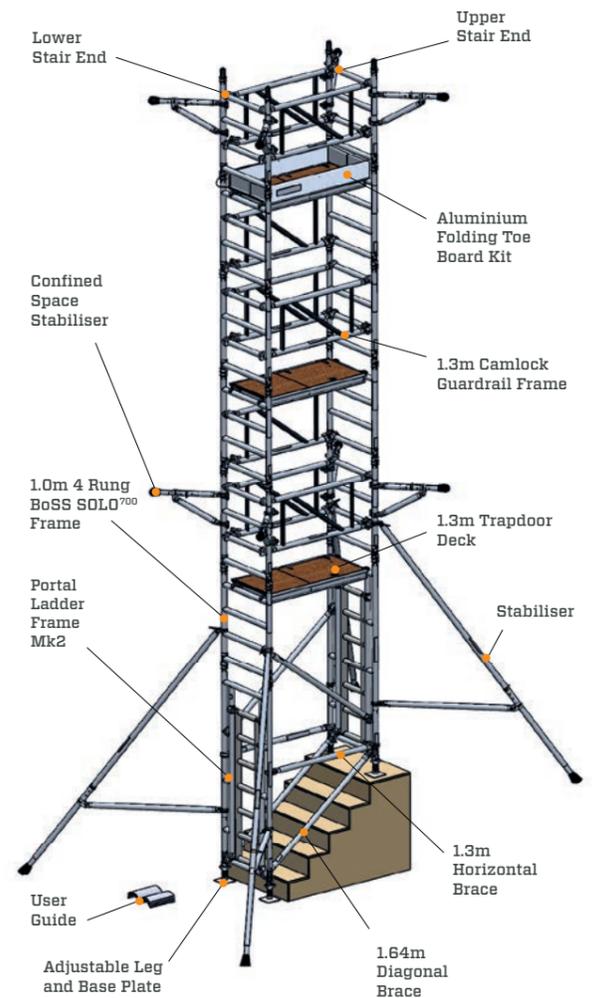
QUANTITY SCHEDULE 1.3 X 0.7m

| Component code | Component | Composite code | Internal or external use | | Internal use only | | | | |
|---------------------------------|-----------------------------------|----------------|--------------------------|---------------------|-------------------|----------|----------|----------|----------|
| | | | Working height (m) | Platform height (m) | 61430300 | 61435000 | 61430700 | 61430900 | 61431100 |
| | | | 5.0 | 7.0 | 9.0 | 11.0 | 13.0 | | |
| 33041300 | Base Plate | 1.7kg | 4 | 4 | 4 | 4 | 4 | 4 | |
| 33551300 | Adjustable Leg | 1.1kg | 4 | 4 | 4 | 4 | 4 | | |
| 67011000 | 1.0m 4 Rung 700 BoSS Solo Frame | 3.9kg | 3 | 7 | 11 | 15 | 19 | | |
| 33052600 | Portal Ladder Frame Mk 2 | 12.8kg | 2 | 2 | 2 | 2 | 2 | | |
| 35651300 | 1.3m Horizontal Brace | 1.6kg | 2 | 2 | 2 | 2 | 2 | | |
| 35751300 | 1.64m Diagonal Brace | 1.9kg | 4 | 4 | 4 | 4 | 4 | | |
| 67030100 | 1.3m Camlock Guardrail Frame | 5.0kg | 2 | 5 | 8 | 11 | 14 | | |
| 67070100 | 1.3m Trapdoor Deck | 9.8kg | 1 | 2 | 3 | 4 | 5 | | |
| 67040100 | SP4 Stabiliser | 4.4kg | 4 | 0 | 0 | 0 | 0 | | |
| 31851300 | SP10 Stabiliser | 8.8kg | 0 | 4 | 4 | 4 | 4 | | |
| 31651400 | Confined Space Stabiliser | 2.9kg | 0 | 0 | 8 | 8 | 12 | | |
| 67050100 | Aluminium Folding Toe Board Kit | 4.4kg | 1 | 1 | 1 | 1 | 1 | | |
| 10879100 | User Guide | - | 1 | 1 | 1 | 1 | 1 | | |
| 30001900 | Tower Designation Information Kit | - | 1 | 1 | 1 | 1 | 1 | | |
| Total Self-Weight of Tower (kg) | | | 101 | 159 | 223 | 263 | 315 | | |
| Max. Exerted Leg Load (kg) | | | 150 | 160 | 180 | 190 | 214 | | |
| Max. Exerted Prop Load | | | - | - | 16 | 16 | 16 | | |

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

The safety data specified within the schedule above which relates to the specific tower to be assembled must be transferred into the pre-defined boxes on the Tower Designation Information insert found in the Tower Designation Information Kit.

COMPONENTS



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.

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

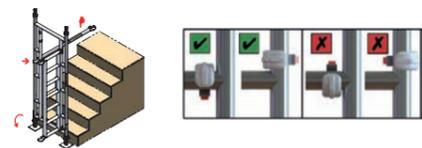
- 1** Insert two base plates into adjustable legs and fit the leg and base plate assemblies into one of the two portal ladder frames. Repeat with the remaining legs and base plates. It is recommended, for ease of levelling, that a gap of 50mm is left between the bottom of the leg and the adjustable nut.

Note: Adjustable legs are for levelling only. They are not to be used to gain extra height at the working level.

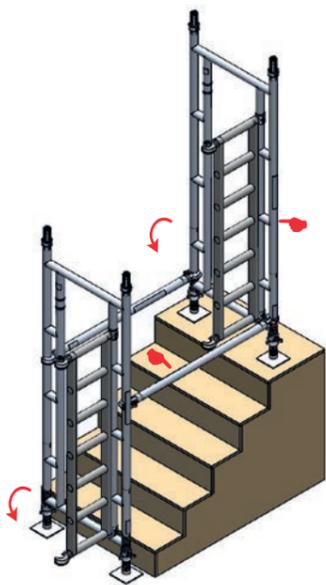


- 2** Fit one horizontal brace (red catch) onto the vertical of end frame on the climbing side in position indicated with an arrow, with the claw facing outwards. Ensure the gate opens as shown.

Note: All locking claws must be opened before fitting and positively locked into position.

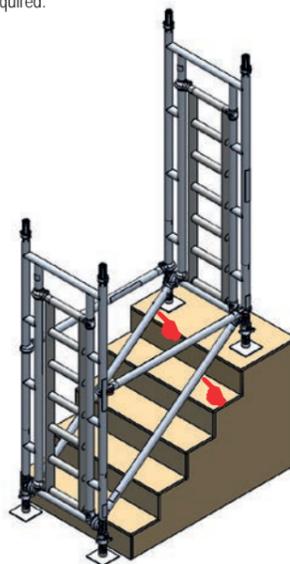


- 3** Position a second portal ladder frame higher on stairs as shown and fit other end of horizontal brace just above the bottom rung. Fit another horizontal brace as shown. This will become the higher 'upstair' end of the tower. Ensure both gates open the same direction as shown.

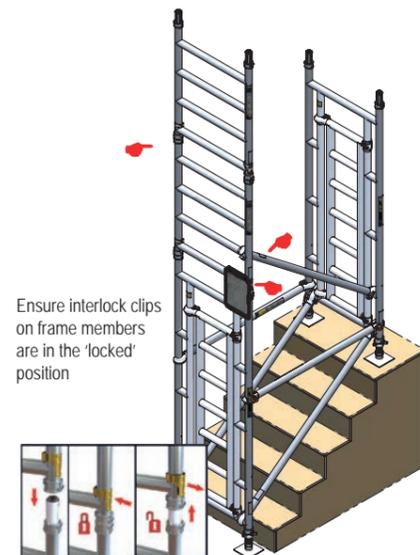


- 4** Fit two diagonal braces (blue catch) between bottom rungs of both portal ladder frames, one on each side of the tower. Claws must face downwards. The structure must be vertical to within 1cm per metre.

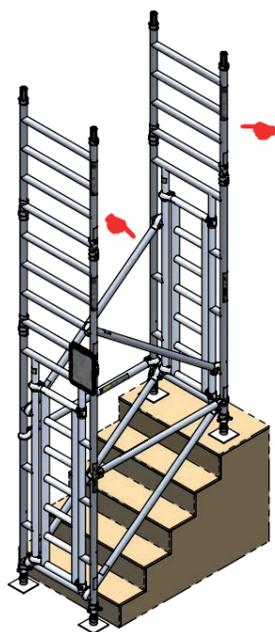
Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.



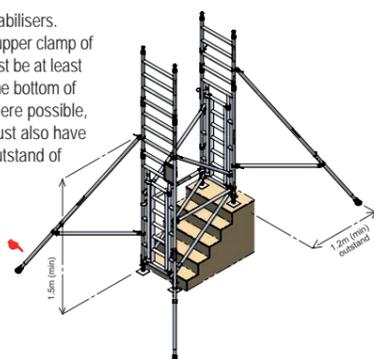
- 5** Connect two 4 rung frames together and fit onto portal ladder frame as shown. Engage interlock clips. Fit one diagonal brace in position shown. Record 'Tower Designation & Safety Data' within the 'Tower Designation Information Assembly' and attach to the tower in position shown. Refer to safety data schedule for content.



- 6** Fit one 4 rung frame onto the portal ladder frame at the higher level by standing on the stairs. Engage interlock clips. Fit one more diagonal brace as shown.



- 7** Fit stabilisers. The upper clamp of stabilisers must be at least 1.5m above the bottom of the frame. Where possible, stabilisers must also have a minimum outstand of 1.2m.



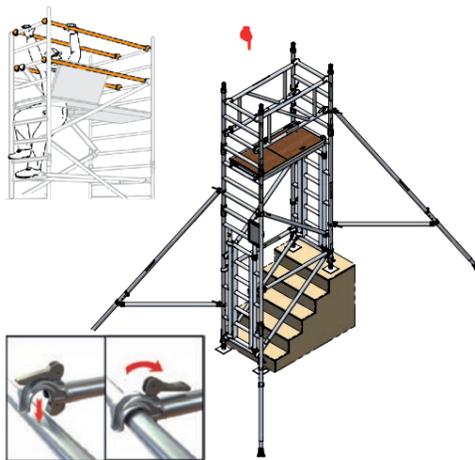
- 8** Fit one 1.3m trapdoor deck onto the top rung of the 'upstair' portal ladder frame as shown. Ensure the trapdoor opens towards the rear of the tower.

Ensure all wind-locks are engaged.



- 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. As before, 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.

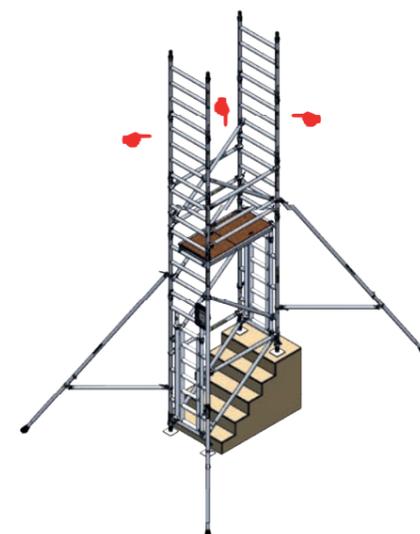


Ensure all claws are positively locked into position.

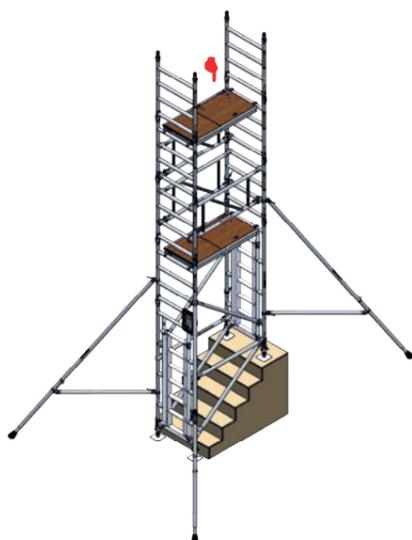
- 10** Connect two 4 rung frames together to create two sub-assemblies. Engage interlock clips. Whilst standing on the protected platform deck, fit one sub-assembly onto the 'downstair' end of the tower. Again, engage interlock clips. Repeat for the 'upstair' end of the tower.

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

Ensure all claws are positively locked into position.



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



- 12** 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.

As before, engage camlock to lock guardrail units in position.

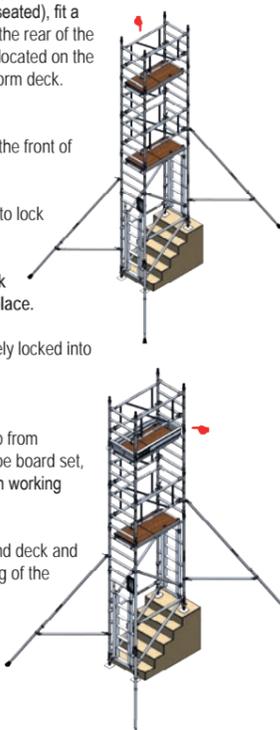
Do not climb onto the deck until all guardrails are in place.

Ensure all claws are positively locked into position.

- 13** 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.



ASSEMBLY PROCEDURE

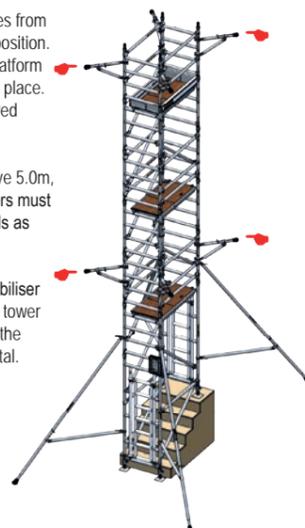
When building beyond a 5.0m platform height

Continue to add two pairs of assembled 4 rung frames, camlock guardrail frames, one trapdoor deck and four confined space stabilisers as shown in previous steps. At every platform level add guardrails between second and fourth rungs above the platform.

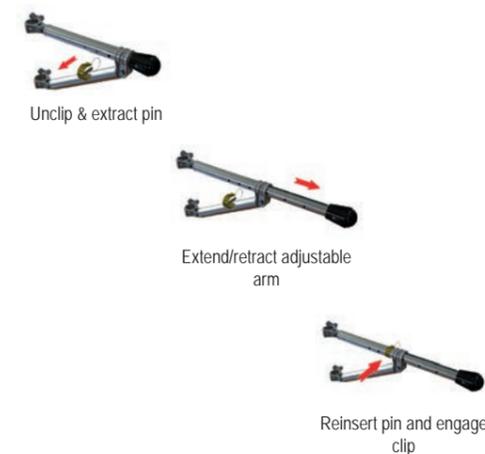
Fit these guardrail frames from the protected trapdoor position. Do not climb onto the platform until all guardrails are in place. Continue until the required height is reached.

At platform heights above 5.0m, confined space stabilisers must be fitted at 4.0m intervals as instructed right.

Fit a confined space stabiliser to all four corners of the tower as shown ensuring that the stabiliser arm is horizontal.



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:



DISMANTLING PROCEDURE

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