SIDE CANTILEVER TOWER SCAFFOLD

3T - Through the Trapdoor Method

USER GUIDE
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety First</td>
<td>2</td>
</tr>
<tr>
<td>Component Diagram</td>
<td>12</td>
</tr>
<tr>
<td>Component Quantity &amp; Safety Data Schedule</td>
<td>13</td>
</tr>
<tr>
<td>Build Method</td>
<td>17</td>
</tr>
<tr>
<td>Pre-use Safety Inspection Checklist</td>
<td>30</td>
</tr>
</tbody>
</table>
Safety First

Introduction

Please read this guide carefully. Please note that diagrams are for illustrative purposes only. User guides are also available to download from our website 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.

The law requires that personnel erecting, dismantling, using or altering towers must be competent. Any person erecting or using a BoSS mobile tower must have a copy of this user guide. For further information on the use of mobile access and working towers consult the PASMA operators code of practice.

Verification and assessment documentation is held by Werner Sales & Distribution Ltd.

If you need further information, design advice, additional user guides or any other help with this product, please contact the manufacturer on +44 (0)1621 745900 or email uk.customercare@wernerco.com.
Safety First

Safe use

- 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 highly conductive and must not be used when there is a risk of electrical arcing.

- Ensure the ground on which the mobile access tower is to be erected is capable of supporting the tower in use.

- Before each use:
  - Check that each prefabricated tower scaffold is complete and correctly assembled.
  - Check that the prefabricated tower scaffold is vertical and make any adjustments as required.
  - Check that no environment changes will affect the safe use of the structure.

- Adjustable legs should only be used for levelling purposes and never to gain extra height.

- Do not use ladders, steps, boxes or similar, to gain additional working height.

- Only climb the tower from the inside using the access method provided.

- Tower scaffolds are not designed to be lifted or suspended.

- Beware of horizontal forces (e.g. power tools) which could generate instability.

  **Maximum horizontal force per working bay = 30kg**

- 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).

- Use good manual handling techniques when handling tower components.
Safe use

- Safe working loads, normally expressed in kN/m², are expressed below in kg per defined working area.

### 1.8m long main tower with 0.6m wide cantilever

<table>
<thead>
<tr>
<th>Defined working area</th>
<th>Max. safe working load (uniformly distributed including persons)</th>
<th>Load class</th>
<th>Max. no. of persons*</th>
</tr>
</thead>
<tbody>
<tr>
<td>A x Z</td>
<td>587 kg</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>B x Z</td>
<td>275 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C x Z</td>
<td>312 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Persons are assumed to be 122kg (Reference to HSE - Revision of body size criteria in standards Protecting people who work at Access Classes height - Research report 342)
Safety First

Access classes

The Access Class provided for climbing this tower is: Access Class 'D' (Vertical Ladder).

Lifting of individual tower components

- Raising and lowering components, tools and/or materials by rope should be conducted within the tower base (i.e. within the area bounded by the stabilisers). Ensure that the safe working load of the supporting decks and the tower structure is not exceeded.

Movement of the assembled prefabricated tower scaffold

Ensure gloves or other suitable hand protection is worn.

Before
The safe movement of any prefabricated tower scaffold shall be included in a specific risk assessment and take into account:

- Site Conditions
  - Ground surface (such as potholes, unstable surfaces, inclines).
  - Overhead obstructions (such as live electrical cables or building members).
- Wind conditions.
- Dimensions of the tower structure (a shorter tower will be more stable during movement - see PASMA guidance).
- Consequences of overturning.

If the site conditions are not adequate to permit the safe movement of a mobile tower structure, then it must not be moved.

During
Mobile tower structures shall be moved with the utmost caution:

- Remove cantilever by reversing assembly steps 12, 11 and 10.
- Remove ballast.
- Any stabilisers fitted must remain in position and raised no more than 25mm from the ground.
- Prefabricated tower structures must only be pushed using manual effort at or near the base.
- Movement of a mobile tower structure shall be no faster than 0.25m/s (very slow walking pace) and sufficient number of persons shall be used to ensure the movement is fully under control.
- No persons, tools or materials shall be left on the mobile tower structure during movement.
Safety First

- Ensure all castors are unlocked.
- Beware of ground level and overhead obstructions, uneven or sloping ground, sudden changes of levels (holes, voids, kerbs).

AFTER
- Ensure all castors are locked.
- Reposition stabilisers as per assembly step 6.
- Replace ballast as per assembly step 7.
- Replace cantilever as per assembly steps 10, 11 and 12.
- The pre-use checklist on the final page shall be used to determine tower integrity.

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 shall be replaced. Adjustable leg threads should be cleaned and lightly lubricated to keep them free running.
- Brace claws, frame interlock clips, trapdoor latches, camlocks and platform wind-locks should be regularly checked to ensure they lock correctly.
- Refer to the BoSS Inspection Manual for detailed inspection and maintenance advice: www.bossaccesstowers.com
- Components should be stored in clean, dry conditions with due care to prevent damage.
- Ensure components are not damaged by excessive strapping forces when transported.

Ballast Weights

Ballast should always be fitted when specified. Ballast must be of solid materials (i.e. not sand, water or other liquid or granular materials) and must be securely attached to the tower structure.

Ballast weights placed at the base of the structure will increase tower self-weight, thereby increasing stability. Care must be taken to ensure that the weight of the ballast weights used is known, and that the total safe load on the structure, and particularly on the castors, is not exceeded. Use good manual handling techniques when handling ballast.

See quantity schedule on pages 13 to 16 for ballast information.
Note: Ballast weights should be uniformly distributed to a maximum of 275kg per deck.
Safety First

During assembly, use and dismantling

- As part of the risk assessment, wind conditions must be taken into account and reviewed regularly, depending on the duration the structure is onsite.
- The structure has been assessed for wind loads equating to 27mph (43kph, 12m/s).
- The effect of wind conditions onsite must be considered prior to the assembly of a tower. The tower must not be used in wind speeds beyond 27mph. 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, funnelling effects around buildings and updraughts on stairways.

The maximum allowable side load on a tower is 30kg.

- CAUTION: Excessive side loads due to working from the tower may cause the structure to become unstable. Special consideration should be given to side loads including vibrations.
- Do not abuse equipment. Damaged, incorrect or incompatible components should not be used.
- The structure is highly conductive and must not be used when there is a risk of electrical arcing.
- Exercise caution when touching unprotected metal components in extreme high or low temperatures.
- If the tower is damaged in any way while in service, it must not be used again until the damaged components are replaced.

<table>
<thead>
<tr>
<th>Wind description</th>
<th>Beaufort scale</th>
<th>Beaufort no.</th>
<th>Speed in mph</th>
<th>Speed in m/sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium Breeze</td>
<td>Raises dust and loose paper, twigs snap off</td>
<td>4</td>
<td>8-12</td>
<td>4-6</td>
</tr>
<tr>
<td>Strong Breeze</td>
<td>Large branches in motion, telegraph wires whistle</td>
<td>6</td>
<td>25-31</td>
<td>11-14</td>
</tr>
<tr>
<td>Gale Force</td>
<td>Walking is difficult</td>
<td>8</td>
<td>39-46</td>
<td>17-21</td>
</tr>
</tbody>
</table>
Safety First

Ties

This structure is designed to be self-supporting under the loading condition requirements of BS 1139-6:2014 and does not require tying in. Consideration should be given to potential wind conditions if the tower is left unattended - see ‘During Assembly, Use and Dismantling’ section on page 7.

Tower designation & safety data

In accordance with the prefabricated tower scaffold standards, the ‘Tower Designation & Safety Data’ should be positioned at the base of the prefabricated tower scaffold as shown within the user guide, by means of the ‘Tower Designation Information Assembly’. It must be clearly visible so that users are aware of the conditions of safe use. Refer to safety data schedule on pages 13 to 16 for details.

Stabilisers

Stabilisers should always be fitted when specified. See quantity schedule on pages 13 to 16.
Attach one stabiliser to each corner of the tower as shown.
Position the lower clamp so that the lower arm is as close to horizontal as possible. Adjust the position of the upper clamp to ensure the stabiliser foot is in contact with the ground. Ensure clamps are secure.

| SP7 | 1227 |
| SP10 | 2241 |
| SP15 | 2757 |
Safety First

Assembly Procedure

This tower structure must be assembled, and components oriented, in accordance with this user guide. Deviation from this user guide is not permitted.

A minimum of two persons are recommend for assembly and disassembly of this prefabricated tower structure. The maximum number of persons permitted on the tower during assembly is stated in the safety data schedule.

Platforms must be installed with vertical distances between them not exceeding 2m when assembling and dismantling.

The maximum number of people on a working platform level permitted to simultaneously exert a horizontal load of 30kg is:

- 1 person per bay for bays less than 4m long
- 2 persons per bay for bays greater than 4m in length

Check that all components, tools and safety equipment are onsite (refer to quantity schedule), undamaged and that they are functioning correctly, particularly the brace claw locking mechanism.

Full inspection guidance can be found at www.bossaccessstowers.com.

Damaged or incorrect components should not be used.

Component weights can be found in the quantity schedule and on the corresponding BoSS Product Datasheets.

Check that the ground on which the tower structure is to be erected and moved is capable of supporting the tower in use and within the levelling limits of the tower system.

Check overhead that the area into which the tower structure is to be built contains no obstructions, particularly electrical or radio radiation hazards.

When positioning the tower take into account risk of collision with the tower e.g. from pedestrians, vehicles or doors. Secure doors (not fire exits) and windows where possible in the work area.

Never stand on an unguarded platform positioned above the first rung of a tower structure. If your risk assessment shows it necessary, you may also need to guardrail platforms at this level.
Safety First

Assembly Procedure

Tower components 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 tower structure.

‘Tower Designation & Safety Data’ content for the ‘Tower Designation Information Assembly’ can be found in the ‘Safety Data Schedule’. This assembly must be positioned at the base of the prefabricated tower scaffold and clearly visible for users. Refer to Safety Data Schedule for content.

Adjustable legs should only be used for levelling purposes and never to gain extra height.

Ensure horizontal braces and guardrails are fitted correctly.

Ensure interlock clips on frame members are in the ‘locked’ position.
Safety First

Assembly Procedure

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

2.1m Toe Board

1.8m Toe Board

Toe Board Holder

1.8m Cantilever Infill Deck

Cantilever Frame

2.0m 4 Rung 1450 Span Frame

1.45m Horizontal Brace

1.98m Brace Assembly

2.1m Diagonal Brace

Ballast

Adjustable Leg and Castor

User Guide

1.8m Fixed Deck

1.8m Trapdoor Deck

Tower Designation Information Assembly

1.0m 2 Rung 1450 Ladder Frame

1.0m 2 Rung 1450 Span Frame

1.8m Horizontal Brace

Stabiliser

Ballast

Adjustable Leg and Castor

User Guide
## BoSS Compact Side Cantilever Tower Scaffold

### 1.8m Long Main Tower with 0.6m Wide Cantilever

<table>
<thead>
<tr>
<th>Component code</th>
<th>Component description and weight</th>
<th>Internal or external use</th>
<th>Working height (m)</th>
<th>Platform height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33551300</td>
<td>Adjustable Leg</td>
<td>1.1kg</td>
<td>1.8 1.7 1.6 1.5</td>
<td>1.2 1.1 1.0</td>
</tr>
<tr>
<td>32842300</td>
<td>Ø150mm (6&quot;) Castor</td>
<td>3.3kg</td>
<td>6 6 6 6 6 6 6 6 6</td>
<td>6 6 6 6 6 6 6 6 6</td>
</tr>
<tr>
<td>60551300</td>
<td>Span Frame Mk2 - 1.0m - 2 Rung - 1.45m Wide</td>
<td>4.0kg</td>
<td>1 - 1 - 1 - 1 - 1</td>
<td>1 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>60451300</td>
<td>Span Frame Mk2 - 1.5m - 3 Rung - 1.45m Wide</td>
<td>5.6kg</td>
<td>- 1 - 1 - 1 - 1 - 1</td>
<td>- 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>60351300</td>
<td>Span Frame Mk2 - 2.0m - 4 Rung - 1.45m Wide</td>
<td>7.1kg</td>
<td>3 2 3 3 4 3 4 4 4 4 4 4</td>
<td>5 4 4 4 4 4 4 4 4</td>
</tr>
<tr>
<td>61151300</td>
<td>Ladder Frame Mk3 - 1.0m - 2 Rung - 1.45m Wide</td>
<td>5.4kg</td>
<td>- 1 1 - 1 - 1 - 1 - 1 - 1 - 1</td>
<td>- 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>61051300</td>
<td>Ladder Frame Mk3 - 1.5m - 3 Rung - 1.45m Wide</td>
<td>6.0kg</td>
<td>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</td>
<td>- 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>60951300</td>
<td>Ladder Frame Mk3 - 2.0m - 4 Rung - 1.45m Wide</td>
<td>10.4kg</td>
<td>1 - 1 1 1 2 1 2 2 2 2 2 2 2 2 2</td>
<td>3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td>
</tr>
<tr>
<td>34051300</td>
<td>Cantilever Frame</td>
<td>7.5kg</td>
<td>2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>34651300</td>
<td>1.4m Horizontal Brace</td>
<td>1.7kg</td>
<td>2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>31251300</td>
<td>1.8m Horizontal Brace</td>
<td>2.0kg</td>
<td>10 10 10 10 14 14 14 14 14 14 14 14 18 18 18 18</td>
<td>18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18</td>
</tr>
<tr>
<td>31351300</td>
<td>2.1m Diagonal Brace</td>
<td>2.1kg</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
</tr>
<tr>
<td>3015100</td>
<td>1.8m Fixed Deck</td>
<td>11.8kg</td>
<td>3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5</td>
<td>5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td>
</tr>
<tr>
<td>3045100</td>
<td>1.6m Trapdoor Deck</td>
<td>12.7kg</td>
<td>1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3</td>
<td>- - - - - - - - - - - - - - - -</td>
</tr>
<tr>
<td>31751300</td>
<td>Stabiliser - SP7 - Saddle Blade Clamp</td>
<td>3.8kg</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
<td>- - - - - - - - - - - - - - - -</td>
</tr>
<tr>
<td>31851300</td>
<td>Stabiliser - SP10 - Saddle Blade Clamp</td>
<td>8.8kg</td>
<td>- - - - - - - - - - - - - - - -</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
</tr>
<tr>
<td>34051600</td>
<td>0.8m Brace Assembly</td>
<td>1.8kg</td>
<td>- - - - - - - - - - 2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>34451300</td>
<td>1.98m Brace Assembly</td>
<td>2.4kg</td>
<td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>00214100</td>
<td>Swivel Coupler - Steel</td>
<td>1.7kg</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
</tr>
<tr>
<td>31351100</td>
<td>1.8m Cantilever Infill Deck Mk2</td>
<td>7.9kg</td>
<td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>3051000</td>
<td>Toe Board Holder</td>
<td>0.3kg</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
<td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td>
</tr>
<tr>
<td>3650900</td>
<td>2.1m End Toe Board</td>
<td>3.6kg</td>
<td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>3040900</td>
<td>1.8m Side Toe Board</td>
<td>3.2kg</td>
<td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td>
<td>2 2 2 2 2 2 2 2 2</td>
</tr>
<tr>
<td>30001900</td>
<td>Tower Designation Information Kit</td>
<td>-</td>
<td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>0230200</td>
<td>User Guide</td>
<td>-</td>
<td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1 1 1</td>
</tr>
</tbody>
</table>
NOTE:
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.
## BoSS Side Cantilever Tower Scaffold - 2.5m Long Main Tower with 0.6m Wide Cantilever

<table>
<thead>
<tr>
<th>Component code</th>
<th>Component description and weight</th>
<th>Composite code</th>
<th>Working height (m)</th>
<th>Platform height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33501 300</td>
<td>Adjustible Leg</td>
<td>33501700</td>
<td>3.2</td>
<td>1.2</td>
</tr>
<tr>
<td>33502 300</td>
<td>25mm (0.75&quot;) Castor</td>
<td>33501800</td>
<td>3.7</td>
<td>1.7</td>
</tr>
<tr>
<td>30501 300</td>
<td>Span Frame Mk2 - 1.0m - 2 Rung - 1400 Wide</td>
<td>33501900</td>
<td>4.2</td>
<td>2.2</td>
</tr>
<tr>
<td>30401 300</td>
<td>Span Frame Mk2 - 1.5m - 3 Rung - 1450 Wide</td>
<td>33502000</td>
<td>4.7</td>
<td>2.7</td>
</tr>
<tr>
<td>30301 300</td>
<td>Span Frame Mk2 - 2.0m - 4 Rung - 1500 Wide</td>
<td>33502100</td>
<td>5.2</td>
<td>3.2</td>
</tr>
<tr>
<td>61105 300</td>
<td>Ladder Frame Mk3 - 1.0m - 2 Rung - 1450 Wide</td>
<td>33502200</td>
<td>5.7</td>
<td>3.7</td>
</tr>
<tr>
<td>61005 300</td>
<td>Ladder Frame Mk3 - 1.5m - 3 Rung - 1450 Wide</td>
<td>33502300</td>
<td>6.2</td>
<td>4.7</td>
</tr>
<tr>
<td>30501 300</td>
<td>Ladder Frame Mk3 - 2.0m - 4 Rung - 1450 Wide</td>
<td>33502400</td>
<td>6.7</td>
<td>5.2</td>
</tr>
<tr>
<td>30205 300</td>
<td>2.5m Fixed Deck</td>
<td>33502500</td>
<td>7.2</td>
<td>5.7</td>
</tr>
<tr>
<td>30205 310</td>
<td>2.5m Fixed Deck</td>
<td>33502600</td>
<td>8.2</td>
<td>6.2</td>
</tr>
<tr>
<td>Component Quantity &amp; Safety Data Schedule</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Self-weight Of Tower (kg)</td>
<td>220 231 235 290 310 325 383 387 398 401</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ballast Internal Use (kg)</td>
<td>110 120 130 150 160 160 170 170 170 170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ballast External Use (kg)</td>
<td>120 170 210 250 310 350 400 440 490 530</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Exerted Leg Load Internal Use (kg)</td>
<td>285 300 310 325 335 350 360 370 380 390</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Exerted Leg Load External Use (kg)</td>
<td>285 310 330 350 375 400 420 450 482 500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. No. Of Persons On Any One Platform Unit</td>
<td>2 2 2 2 2 2 2 2 2 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. No. Of Persons Permitted On The Tower During Assembly &amp; Dismantling</td>
<td>2 2 2 2 2 2 2 2 2 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. No. Of Simultaneous Working Platforms Permitted</td>
<td>1 1 1 1 1 1 1 1 1 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highest Working Platform During Use</td>
<td>2 2 2 2 2 2 2 2 2 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd / 3rd / 4th / 5th / 6th Highest Working Platform During Use</td>
<td>- - - - - - - - -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Working Platform Height For Internal Use (m)</td>
<td>1.2 1.7 2.2 2.7 3.2 3.7 4.2 4.7 5.2 5.7 6.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Working Platform Height For External Use (m)</td>
<td>1.2 1.7 2.2 2.7 3.2 3.7 4.2 4.7 5.2 5.7 6.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Class</td>
<td>2 2 2 2 2 2 2 2 2 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access Class</td>
<td>D  D  D  D  D  D  D  D  D  D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear Height Class</td>
<td>- - - H H H H H H H H</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
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.
Build method

3.2m working platform height shown*

Build pattern - type 1
Tower working platform heights:
1.2m, 3.2m, 5.2m

3.7m working platform height shown*

Build pattern - type 2
Tower working platform heights:
1.7m, 3.7m, 5.7m

*Note: Decks and guardrails omitted from views for clarity.
Build method

4.2m working platform height shown*

Build pattern - type 3
Tower working platform heights:
2.2m, 4.2m, 6.2m

2.7m working platform height shown*

Build pattern - type 4
Tower working platform heights:
2.7m, 4.7m

*Note: Decks and guardrails omitted from views for clarity.
Build Method

When building a BoSS tower

- To comply with ‘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 guardrail platforms at this level.

The procedure illustrated shows a 6.2m working height tower build. For alternative tower height build patterns see pages 17 and 18.

The manufacturer recommends two persons are used to build BoSS Towers. Above 4.0m platform height, it is essential that at least two persons are used. Only climb the tower from the inside.

The manufacturer recommends the ‘Tower Designation & Safety Data’ is recorded within the ‘Tower Designation Information Assembly’ before proceeding with the tower assembly. Refer to Safety Data Schedule for content.

1. Push castor into adjustable leg. Push castor/leg assembly into the 2 rung frame and lock the castor. Repeat for the other side of the frame. It is recommended, for ease of levelling, that a maximum gap of 50mm is left between the bottom of the leg and the adjustable nut.

Ensure all castors are locked.

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

2. Fit one horizontal brace (red catch) onto the vertical of the 2 rung span frame, just below the bottom rung with the open section of the claw facing outwards.

![Diagram of the horizontal brace being fitted]

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

3. Repeat step 1 for the 2 rung ladder frame and position it as shown and fit the other end of the horizontal brace onto the vertical, just below the bottom rung of span frame. Fit the second horizontal brace between the bottom rungs on the other side of the frame to square the structure.

Ensure all claws are positively locked into position.

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.

![Completed structure diagram]
Build Method

4 Fit the 4 rung ladder frame and the 4 rung span frame to the structure base. Fit four diagonal braces in positions shown. Ensure all claws are positively locked into position.

Ensure inbuilt ladders are aligned.

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.

For alternative tower height build patterns pages 17 and 18.

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

Fit the trapdoor deck and fixed deck on the fourth rungs of the tower. The trapdoor deck must be oriented such that the trapdoor opens towards the outside of the structure. Ensure the deck wind-locks are engaged.

From the protected trapdoor position, fit guardrails at 0.5m and 1.0m (in that order) above the platform level.

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

Ensure all claws are positively locked into position.

Ensure trapdoor is directly aligned with inbuilt ladder.

3T - Protected Trapdoor Position

Ensure all wind-locks are engaged.
Build Method

6 Fit four stabilisers as shown, see page 8 for details. Telescopic stabilisers must always be fully extended.

Note: Position lower clamps so that the lower 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 clamps are secure.
Build Method

7 Fit two castors with adjustable legs to the outer tubes of two 4 rung span frames and link them to the tower structure using four swivel couplers. The couplers should be fitted below the 1st and above the 4th rungs of the tower structure. Fit one horizontal brace followed by one diagonal brace, as shown. Fit fixed decks to support ballast. Ensure all wind-locks are engaged.

Ensure all claws are positively locked into position.

Note: Ballast weights should be uniformly distributed to a maximum of 275kg per deck.

The tower must be vertical to within 1cm per metre.

For alternative tower height build patterns see pages 17 and 18.

Note: Fit Ballast at this stage. For ballast information, see page 6.
## Build Method

### Quantity of fixed decks to support ballast 1.8m long main tower with 0.6m wide cantilever

<table>
<thead>
<tr>
<th>Composite code</th>
<th>33401200</th>
<th>33401700</th>
<th>33402200</th>
<th>33402700</th>
<th>33403200</th>
<th>33403700</th>
<th>33404200</th>
<th>33404700</th>
<th>33405200</th>
<th>33405700</th>
<th>33406200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working height (m)</td>
<td>3.2</td>
<td>2.7</td>
<td>4.2</td>
<td>4.7</td>
<td>5.2</td>
<td>5.7</td>
<td>6.2</td>
<td>6.7</td>
<td>7.2</td>
<td>7.7</td>
<td>8.2</td>
</tr>
<tr>
<td>Platform height (m)</td>
<td>1.2</td>
<td>1.7</td>
<td>2.2</td>
<td>2.7</td>
<td>3.2</td>
<td>3.7</td>
<td>4.2</td>
<td>4.7</td>
<td>5.2</td>
<td>5.7</td>
<td>6.2</td>
</tr>
<tr>
<td>No. of fixed decks</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### Quantity of fixed decks to support ballast 2.5m long main tower with 0.6m wide cantilever

<table>
<thead>
<tr>
<th>Composite code</th>
<th>33501200</th>
<th>33501700</th>
<th>33502200</th>
<th>33502700</th>
<th>33503200</th>
<th>33503700</th>
<th>33504200</th>
<th>33504700</th>
<th>33505200</th>
<th>33505700</th>
<th>33506200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working height (m)</td>
<td>3.2</td>
<td>2.7</td>
<td>4.2</td>
<td>4.7</td>
<td>5.2</td>
<td>5.7</td>
<td>6.2</td>
<td>6.7</td>
<td>7.2</td>
<td>7.7</td>
<td>8.2</td>
</tr>
<tr>
<td>Platform height (m)</td>
<td>1.2</td>
<td>1.7</td>
<td>2.2</td>
<td>2.7</td>
<td>3.2</td>
<td>3.7</td>
<td>4.2</td>
<td>4.7</td>
<td>5.2</td>
<td>5.7</td>
<td>6.2</td>
</tr>
<tr>
<td>No. of fixed decks</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
Build Method

8. Fit the next level of ladder frame and span frame making sure that interlock clips are engaged. Fit two diagonal braces, as shown. Fit two 1.98m brace assemblies.

Ensure all claws are positively locked into position.

Ensure inbuilt ladders are aligned.

Tie the frames together using the 1.98m brace assemblies, as shown. Ensure clamps are fully tightened. Ensure brace assemblies span end frame joint.
Build Method

9 Fit the fixed deck and trapdoor deck 2.0m above the previous level. Ensure all wind-locks are engaged.

Note the orientation of the trapdoor. From the protected trapdoor position, fit guardrails at 0.5m and 1.0m (in that order) above the platform level. Fit one diagonal brace in positions shown.

Ensure all claws are positively locked into position.

Ensure trapdoor is directly aligned with inbuilt ladder.

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

When building beyond 4.2m platform height: Before fitting cantilever frames ensure end frame joints on opposite tower face are tied together as shown. Ensure clamps are fully tightened. Ensure brace assemblies span the end frame joint.
Build Method

10  Fit two cantilever frames, as shown. Note position of couplers. Fit two 1.45m horizontal braces in positions shown. Fit one 1.8m horizontal brace in position shown. Ensure all claws are positively locked into position. Ensure wing nuts are fully tightened.

11  From the protected position within the main tower, fit one fixed deck and infill deck, as shown. Fit two extra guardrails at the end of the cantilever frames, as shown. Ensure all wind-locks are engaged. Ensure all claws are positively locked into position. Do not walk out onto the cantilever bay until it is fully assembled and all guardrails are in place.
Build Method

Fit toe board holders and toe boards around edges of top decks, as shown.
Temporary Guardrails to be stored in positions shown.
Ensure all claws are positively locked into position.

The tower is now complete.
Build Method

To dismantle a BoSS tower:

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

Pre-Use Safety Inspection Checklist

<table>
<thead>
<tr>
<th>Description</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower structure upright and level</td>
<td></td>
</tr>
<tr>
<td>Castors locked and legs correctly adjusted</td>
<td></td>
</tr>
<tr>
<td>Horizontal and diagonal braces fitted</td>
<td></td>
</tr>
<tr>
<td>Stabilisers fitted as specified</td>
<td></td>
</tr>
<tr>
<td>Platforms located and wind-locks engaged</td>
<td></td>
</tr>
<tr>
<td>0.89m and 1.98m brace assemblies fitted (when specified)</td>
<td></td>
</tr>
<tr>
<td>Interlock clips engaged</td>
<td></td>
</tr>
<tr>
<td>Toe boards located</td>
<td></td>
</tr>
<tr>
<td>Infill decks fitted correctly</td>
<td></td>
</tr>
<tr>
<td>Ballast fitted as specified</td>
<td></td>
</tr>
<tr>
<td>Guardrails fitted correctly and positively locked</td>
<td></td>
</tr>
<tr>
<td>Tower designation information kit fitted</td>
<td></td>
</tr>
</tbody>
</table>

This checklist should be actioned at intervals determined by the manager. This checklist should also be actioned if the tower has been moved or modified, if any damage is suspected or if there are any changes to the local environment that may affect tower stability.
For further information about this product or any other products and services, please contact:

Blackwater Trading Estate,
The Causeway, Maldon,
Essex, CM9 4LJ,
United Kingdom

📞 +44 (0)1621 745900
📠 +44 (0)1621 859845
✉️ uk.customerCare@wernerco.com
🌐 bossaccestowers.com