

STEP 6...  
Add the final lift, securing it as shown with interlock clips and diagonal braces – three braces if using 4-rung frames, and one brace if using 2-rung frames.

STEP 6A... (walkthrough guard frames)  
If the link is to be placed at the top of the towers, replace the inner facing frames/guard frames with the 2 part walkthrough guard rails.

NOTE; If the last frames are 2-rung simply replace the inner frames with walkthrough guard frames. If the last frames are 4-rung, replace the inner frames with a 2-rung frame and then the walkthrough guard frame.

The walkthrough guard frame MUST be in position BEFORE the platform is fitted!

To fit the frame, insert it onto the frame below, swing it into position ensuring the claw is located against the lower frames upper horizontal bar, then engage the interlock clip.

To complete the tower, simply construct a platform three rungs down from the very top (see box).

TOWER SAFETY

Never overload the tower. The work platform's maximum load is 225kg, with no more than 150kg on a deck. The MAXIMUM SAFE WORKING LOAD for the tower structure is 950kg.

Never lean anything against the tower and never use it for jobs that exert repetitive or excessive force. Lateral forces over 198N – equivalent to a 20kg weight – make it unstable.

Never use boxes, steps etc, to gain extra height and never reach too far out to one side.

If the tower is to be used at another location DO NOT attempt to move it. The entire structure must be carefully aligned – always dismantle it and rebuild in the new location.

FINISHING OFF

To dismantle the tower, start at the top and work down, reversing the erection procedure, working through the steps in strict sequence.

Organise the team so only two are removing components.

Use temporary platforms, in the same way as when building the tower, to ensure you always have a firm footing and a reliable handhold.

Most important of all, never stand on unbraced frames and never unlock a component until someone has a firm grip on it to stop it falling.

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

Keep children, animals and bystanders away from the work area.

Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs. Never work on the tower if you suffer from vertigo.

This equipment should only be used by a competent person who has read and understood these instructions.

Wear sensible, protective clothing and footwear offering good grip, plus workgloves and a hard hat. Tie back long hair and avoid loose garments and jewellery that could get in your way.

It is the Hirers responsibility to ensure all necessary precautions have been taken to safeguard any person using the tower.

Keep the tower on firm, level ground, DO NOT use on slopes or soft ground or where there is a risk of subsidence.

Never suspend the tower from another structure.

Once complete, climb only the towers ladder frames. During erection, climb span rungs only if necessary.

Always climb the inside of the tower, keeping your feet in the middle of the rungs and grip ladder sides firmly with both hands.

Never carry anything when climbing, unless you can do so leaving both hands free. Haul things up after you, ideally within the tower, using a stout rope and secure knots, or using specialist lifting equipment available from HSS Lift & Shift.

Always check the condition of components before use – and at regular intervals thereafter. If any show signs of damage or excessive wear, do not use them. Return them to your local HSS Hire Shop.

Always ensure the tower is correctly built and level before use – and check regularly thereafter.

Don't use the tower in windy weather, allow for the fact that in blustery weather, on exposed sites or near tall buildings gusts can be surprisingly strong.

If the wind speed exceeds 17mph (a moderate breeze, strong enough to blow dust and paper about) then evacuate the tower.

If the wind speed is due to exceed 25mph (a breeze strong enough to move large tree branches) the tower should not be erected or used. Allow the wind strength to subside before erecting or using. If erected,

If components jam, persevere. Wiggle and pull them until they are free. Don't damage the components by using a hammer or otherwise forcing the joints apart.

Always lower components to the ground on a rope when dismantling the tower. Never simply drop them. As damage or serious personal injury may occur.

EQUIPMENT CARE

Never use the tower for anything other than its intended purpose – as a light-duty work platform. If it won't do what you want contact your local HSS Hire Shop for advice.

Keep the tower clean, paying special attention to the decks. You will find this easier if you clean up regularly.

When not in use, store everything somewhere clean, dry and safe from thieves.

...any problems

Contact your local

**HSS Hire**

0845 728 2828

We are here to help!

... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so. Training is available at HSS Training 0845 766 7799

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below e-mail: [safety@hss.com](mailto:safety@hss.com)

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3005/01

Operating & Safety Guide 3005

**HSS Hire**



**Tower Bridging Beams**

Linking a pair or more of BOSS alloy towers providing the ideal platform for light work.



Code 88238 / 39 / 40 / 41 / 42 / 43

dismantle the tower or if this is not possible, make it secure by tying it in and/or use sandbags at its base.

Erect the tower away from overhead power cables and similar hazards.

Stabilisers are supplied with ALL towers and MUST be used.

Towers with a Platform Height of 8.2m external or 12.2m internal, must be tied in every 4m. However, it is advised that ALL towers, regardless of height, are tied in every 4m.

GETTING STARTED

Erecting a tower requires a team of able-bodied workers – 2 assemblers backed up by one or more helpers to pass up components. Make sure everyone understands these instructions and is familiar with the components.

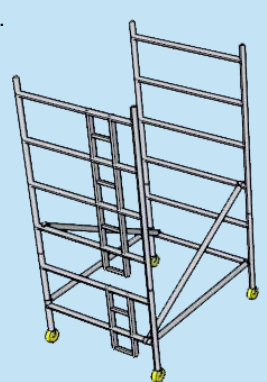
Make sure, too that you have everything you need to hand, ticking off the components against the table and refer to diagrams for construction.

**Building Safely**

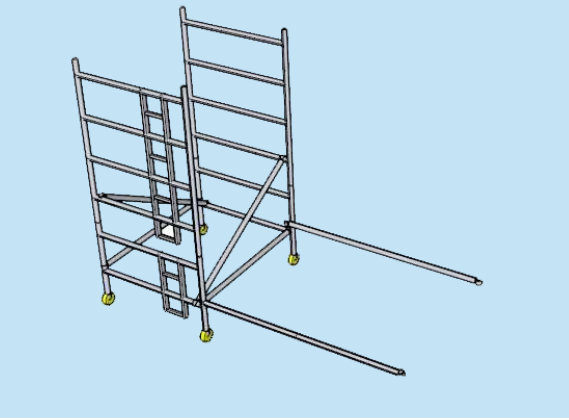
Always work from temporary platforms comprising a single deck with a horizontal brace clamped to each side of the tower, 1 m above it. During construction, most towers need two such platforms. Set them roughly half-way up a lift and move them up with you, leapfrog fashion, as the tower progresses. With the final lift in place, the decks and braces form the permanent top platform.

METHOD FOR ASSEMBLY

1 Start by assembling the base of the first tower exactly as described in the current BoSS user guide, ensure this structure is level and square, the ladder side of the tower is on the side the beams will be fitted.

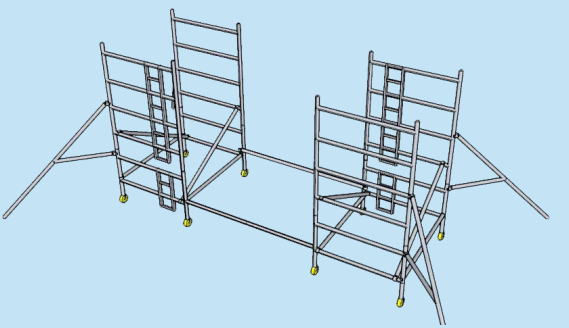


2 Temporarily attach 2 no beam unit handrail braces on the uprights resting on the first rung in line with these frames. These braces to be the same length as the beam units, this will correctly space the towers to enable fitting of the beams at working platform level.



3 Assemble the base of the second tower as Step 1 again the ladder side of the tower should be on the inside of the beam and attach to the opposite ends of the beam unit handrail braces, now forming 3 rectangles linked in parallel with one another. At this stage it is very important that the two tower base units are exactly level with each other by using a level on the spacing braces.

It is well worth spending a little extra time carrying out the levelling operation to ensure that the whole structure is perfectly level and square as this will save time later in the build.

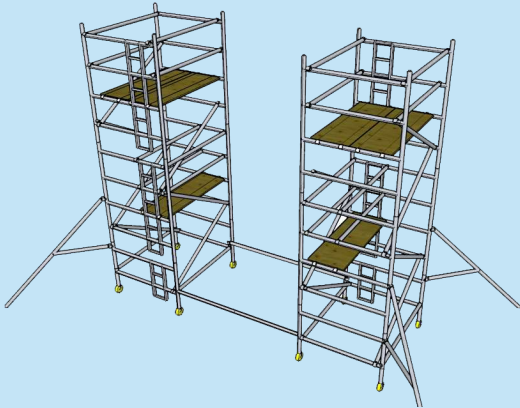




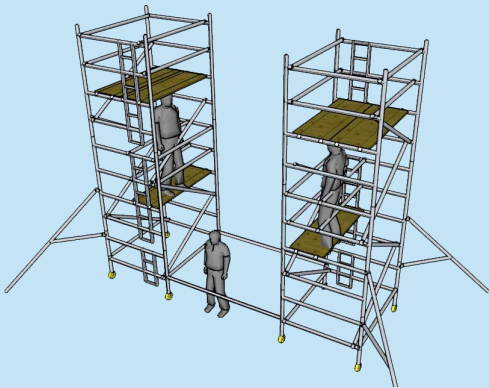
**4** Once the base is level continue building the two towers to the required platform height using the 3T method, following the BoSS user guide taking care to fit the appropriate stabilizers when required.

The ladder side of each tower should be on the inside of the structure, this will allow the operatives to in-stall the beam units from the intermediate deck level below the work platform in the next stage.

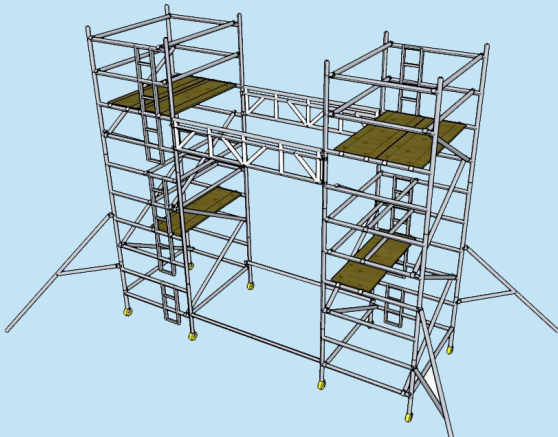
Do not fit the toe boards yet.



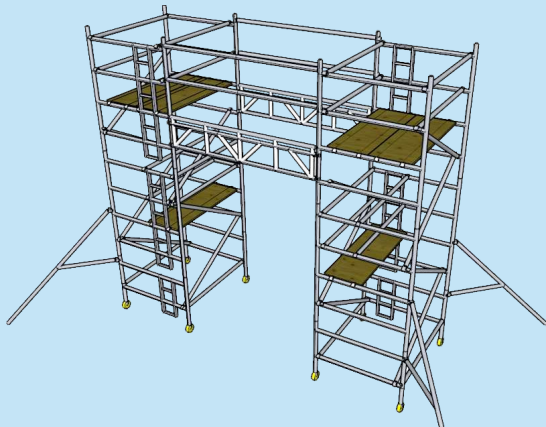
**5** At this stage of the assembly a minimum of 3 operatives will be required, one on each tower and one at ground level. The operatives on the towers should position themselves on the trap deck below the working platform level.



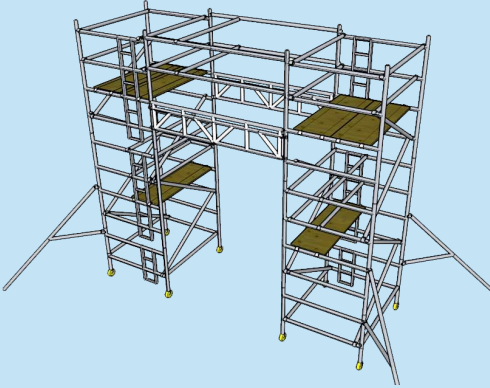
**6** The beam units should be passed up and fitted one each side between the two towers resting on the rung below the working platform level. Brace locking devices to face outwards. Ensure that the top tube of the beam unit is at the same level as the frame rung on which the working platforms are fitted.



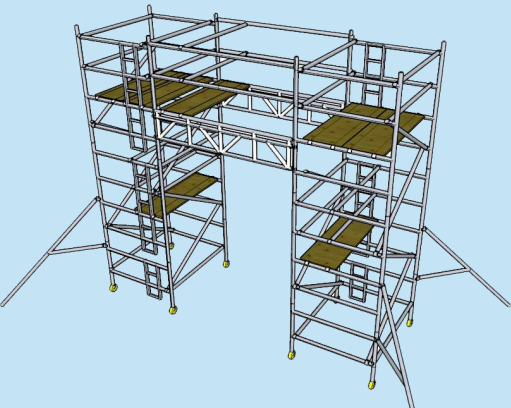
**7** Fit two beam unit handrail braces on rungs one and two above the beams on one side, and move the two beam unit handrail braces from the base and re-position on the opposite side of the structure to the brace's just fitted.



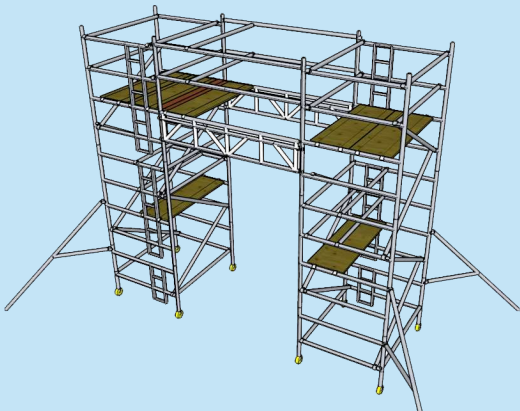
**8** Working from 1 tower fit an extra pair of horizontal braces to suit the size of tower being used, position on the upper and lower beam unit handrail braces to the offside of the deck resting on the beams. This will provide double handrail protection on the beam unit platform as decks are positioned



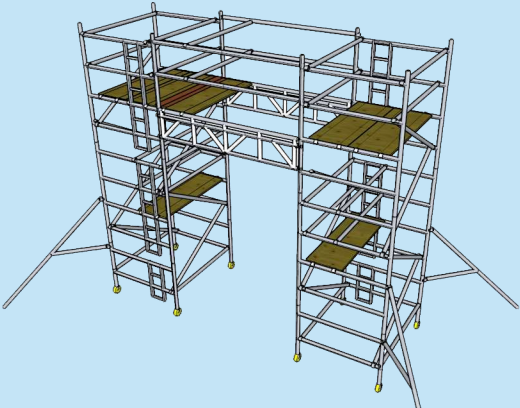
**9** Working from one tower slide an appropriate length fixed platform under the tower side handrail to rest on the beam units, approx 150mm gap between the tower deck and the deck on the beams



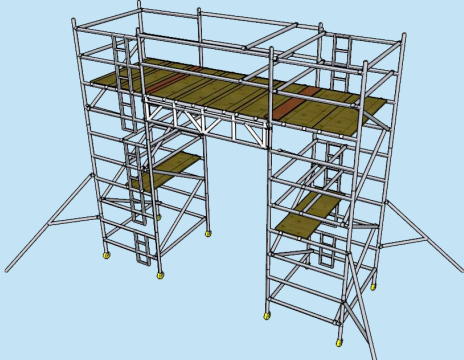
**10** Fit a beam unit infill deck to bridge the gap between the tower deck and the beam unit deck, some slight adjustment may be necessary to ensure a snug fit.



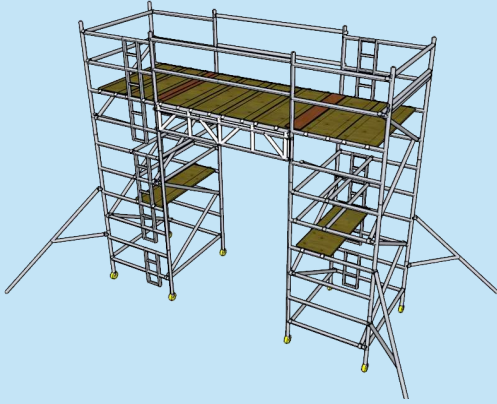
**11** Repeat Step 9 for either three, four or five decks depending on the length of beam unit used.



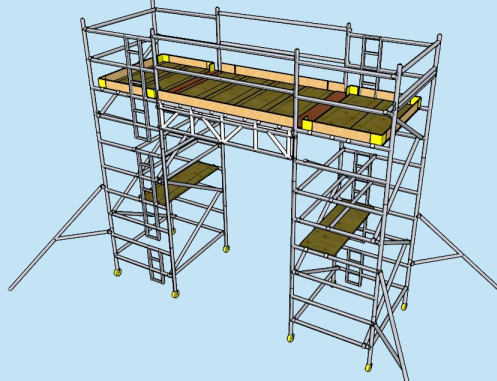
**12** When all the decks are positioned on the beams fit the second beam unit infill deck to close the gap between the beam decks and the tower deck, some slight adjustment may be necessary to ensure a snug fit.



**13** Remove the inside handrail braces from the second tower to form an uninterrupted platform area.



**14** Fit the supplied toe board kit to completely surround the platform area to comply with legal requirement. The lower beam unit handrail braces can be removed if required

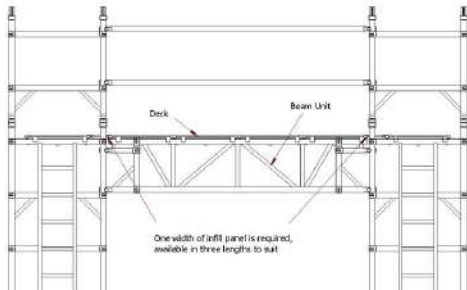


**Notes**

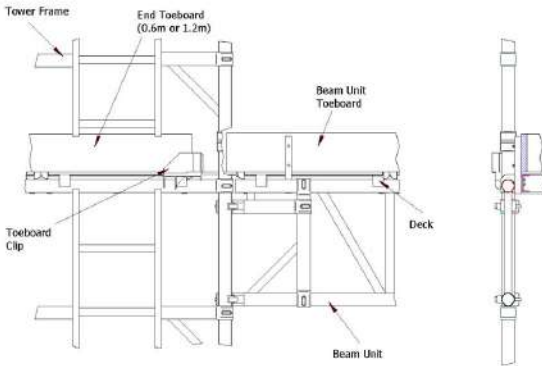
This type of structure must be erected by operatives with a PASMA certificate & Product Specific Training

Never stand or work on an unprotected platform  
Do not exceed the SWL of any platform or tower structure as a whole (Max. SWL on Beam unit structure 150kg)

**BOSS Beam Unit & Decking Layouts**



**BOSS Detail of Fitting for Beam Unit Toeboard**



# Know Your Symbols

HSS have created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

## General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,



Correct PPE must be worn



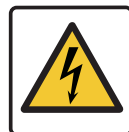
HAV Hand Arm Vibration



Danger Rotating blade



Danger Hot exhaust



Danger Electric shock



Caution Abrasive Wheel



Caution Finger trap

## Fuel and Supply Types



**Pe**  
Petrol



**Di**  
Diesel



**2t**  
2 - Stroke Petrol



**EI**  
Electric

## Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.



**Ro**  
Read OPS Guide



**Ou**  
Outdoor Use only



**HI**  
Heavy Lifting



**Cd**  
Check Oil daily



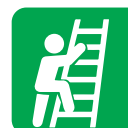
**Cf**  
Check Fuel daily



**Cw**  
Check Water daily



**Bc**  
Battery Care



**Sh**  
Safe Height Working



**Swl**  
Refer to Data Plate



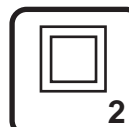
**V**  
Check Power Voltage Data Plate

## Electrical Safety

Safe wiring procedures.



**Ea**  
Must be Earthed Class 1



**Doi**  
Double Insulated Class 2



**Enl**  
Earth Live Neutral Wire Coding

## Return Responsibility

Charges apply to equipment returned dirty and damaged.



**Cc**  
Cleaning Charge



**Rc**  
Repair Charge