The tie frequency may vary depending on the application, but they should, at a minimum, be at every 4 metres height.

Maintenance

- All components and their parts should be regularly inspected to identify damage, particularly to welds. Lost or broken parts should be replaced, and any tubing with indentations greater than 5mm should be put to one side for manufacture repair. Adjustable leg threads should be cleaned and lightly lubricated to keep them free running.

Assembly and dismantling procedures

THE 3T METHOD

When building a BOSS tower:

- 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 reduce the risk of a fall.
- All platforms feature double guardrails on both faces of either individual platforms or fully decked levels.

  All guardrails should be 1 and 2 rungs (0.5m and 1.0m) above platforms.
- 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.
- **Always start building with the smallest height frames at the base of the tower:**

Platform Heights in Metres	Frame at Base
1.7 2.2 3.7 4.2 5.7 6.2 7.7 8.2 9.7 10.2 11.7 12.2	2 rung
2.7 4.7 6.7 8.7 10.7	3 rung
1.2 3.2 5.2 7.2 9.2 11.2	4 rung

Where all 3 frame heights are used in a tower, start with 2 rung frames at the base, with the 3 rung frames nexts and the 4 rung frames on the top.

Refer to the quantity schedules for detail.

To dismantle a BOSS tower:

- Remove toeboards, and pass down the tower.
- Unclip farthest end of braces and immediately go to protected trapdoor position on ladder to complete removal.

  Remove upper platforms from protected platform levels below.
- Pass removed components out of the tower to a colleague.

Checklist

- Inspect components prior to erection ☐
- Inspect tower prior to use ☐
- Tower upright and level ☐
- Castors locked/legs correctly adjusted ☐
- Guardrails fitted ☐
- Diagonal braces fitted ☐
- Stabilisers/outriggers fitted as specified ☐
- Platforms located and windlocks on ☐
- Toeboards located ☐

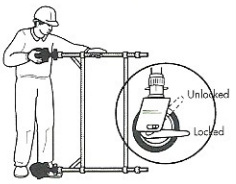
Refer to this checklist before using each time.

Assembly Procedure 1450 Tower - 3T

Where all 3 frame heights are used in a tower, start with 2 rung frames at the base, with the 3 rung frames next and the 4 rung frames on the top. Refer to the quantity schedules for detail. The procedure illustrated shows a tower starting with a 2 rung frame.

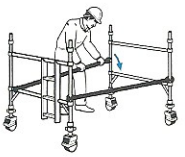
SGB recommend two persons are used to build BOSS towers. Above 4m height it is essential that at least two persons are used. Only climb the tower from the inside.

1 Push castor onto adjustable leg. Insert adjustable leg/castor assemblies into 2 rung span frame. Lock castors. Repeat with ladder frame. Base plates can be fitted to adjustable legs if it is not necessary to move the tower.

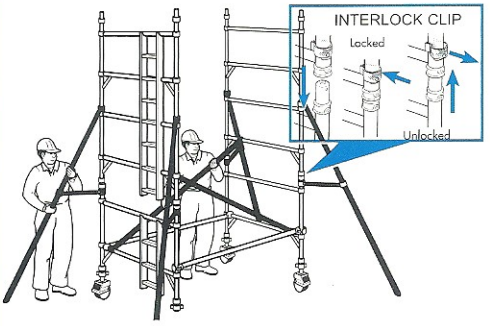


2 Fit a horizontal brace (red) onto the vertical of the span frame, facing claws outwards. The frame will now be self-supporting.
Note: All locking claws must be opened before fitting.

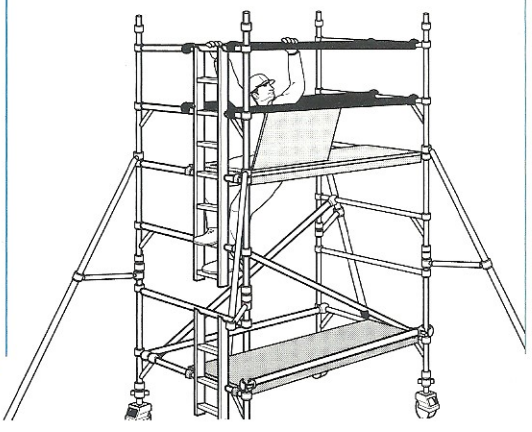
3 Position ladder frame as shown. Fit the other end of the horizontal brace onto the ladder frame vertical. Fit another horizontal brace between the rungs of both frames to square the tower.



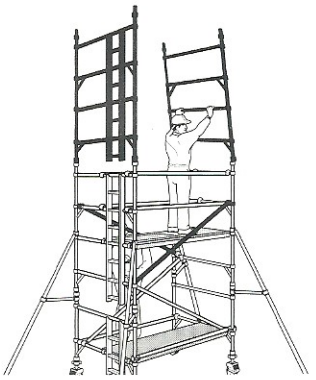
4 Fit 2 additional end frames and check the frame interlock clips are engaged. Fit 2 diagonals, in opposing directions, between the 1st and 3rd rungs. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required. Fit stabilisers (see notes on page 30).



5 Fit a fixed deck on lowest rung. Fit a trapdoor deck on 4th rung (2.0m) with the trapdoor next to the ladder.
Climb ladder and, from a protected trapdoor position, fit guardrails on 5th and 6th rungs, in that order, on both sides of the platform.
Do not climb onto the platform until fully guardrailed.
Guardrails should be 0.5m and 1.0m (1 and 2 rungs) above platform in all cases.

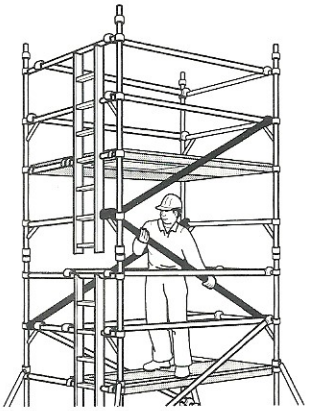


6 Fit the next pair of diagonal braces in opposing directions between the 3rd and 5th rungs. Add 2 additional end frames.



7 If finishing at this height, (4.2m platform), the fixed deck should first be repositioned to the 8th rung of the tower. Fit a trapdoor deck alongside it, with the trapdoor next to the ladder.

Climb ladder and, from a protected trapdoor position, fix guardrails on 9th and 10th rungs, in that order, on both sides of the tower. Add a diagonal brace.



8 **When building beyond a 4.2m platform height.**

Continue to add end frames, diagonals and trapdoor platforms as shown in the previous steps. Add guardrails at 0.5m and 1.0m (in that order) above the platform from the protected trapdoor position. **Do not climb onto the platform until it is fully guardrailed.**

Continue until the required height is reached. Reposition the fixed deck to the required platform height and fit a trapdoor deck alongside it as shown in stage 7. Fit the final guardrails as shown in stage 7.