

### When building a TAS aluminium tower:

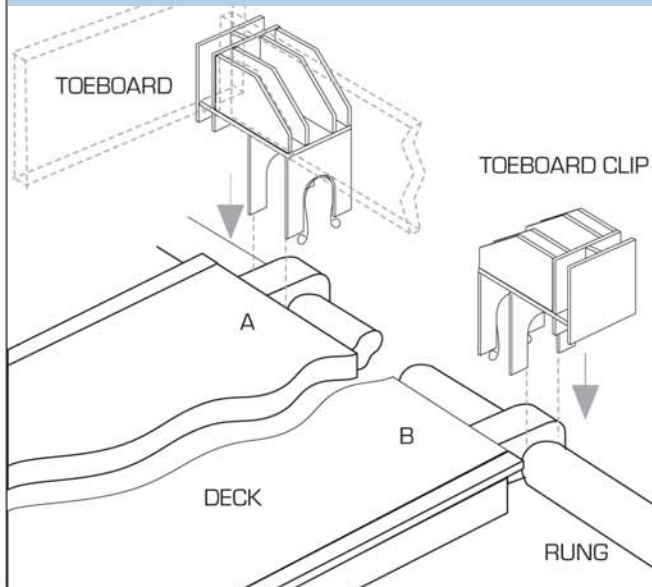
- To comply with the work at height regulations we show assembly procedures with platforms every 2 metres in height and the locating of guardrails in advance of climbing onto a platform to reduce the risk of a fall.
- All platforms features double guardrails on both faces of either individual platform to reduce the risk of a fall.
- All guardrails should be 1 and 2 rungs (0.5m and 1.0m) above platform.
- 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.

### Stabilisers / Ballast

Stabilisers or outriggers and ballast weights shall always be fitted when specified. In circumstances where there is restricted ground clearance for stabilisers/outriggers, contact your supplier for advice.

Ballast must be of solid materials (i.e. not water or loose sand) and should not be positioned to overload individual legs. Ballast should be secured against accidental removal where practicable, and be supported on the lowest rung of the bottom frame.

### FITTING TOEBOARDS



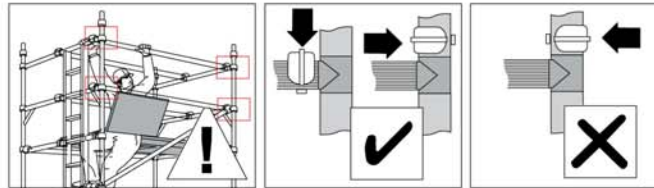
### To dismantle a TAS tower

- Remove toeboards, and pass down the tower.
- Unclip farthest end of braces and immediately go to protected trapdoor position on a ladder to complete removal.
- Remove upper platforms from protected platform levels below.
- Pass removed components out of the tower to a colleague.

### Safety Checklist

- Ensure all brace claw operate & lock correctly prior to erection
- Inspect components prior to erection
- Inspect tower prior to use
- Tower upright and level
- Castor locked and legs correctly adjusted
- Diagonal braces fitted
- Stabiliser/outrigger fitted as specified
- Platforms located and windlocks on
- Toeboards located
- Check guardrails are fitted correctly.

Refer to this checklist before using each time.



Ensure horizon braces and guardrails are fitted correctly. Always fit as shown. Refer to this checklist before using each time.

### TAS Head Office Dubai

P.O. Box 127463, U Bora Tower, Business Bay, Dubai, UAE  
T: +971 4 439 1500 F: +971 4 452 3330

### TAS Abu Dhabi Office

P.O. Box 92765, Al Fahim Building, Mercedes Benz Showroom  
L3 - Office No. 325-326, Musaffah, Abu Dhabi, UAE  
T: +971 2 555 5166 F: +971 2 555 5156

### TAS Sharjah Office

P.O. Box 68087, Sharjah, UAE  
T: +971 6 748 7050

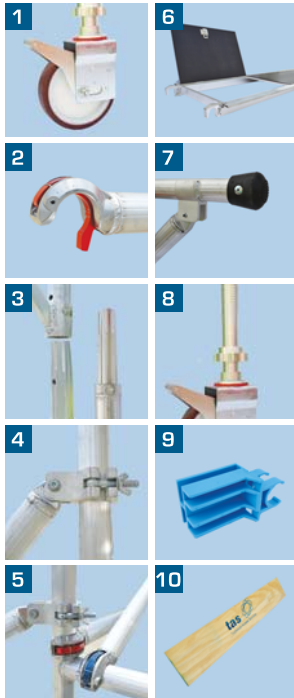
E-mail: info@tasuae.com Web: www.tasuae.com



## TAS ALUMINIUM TOWER

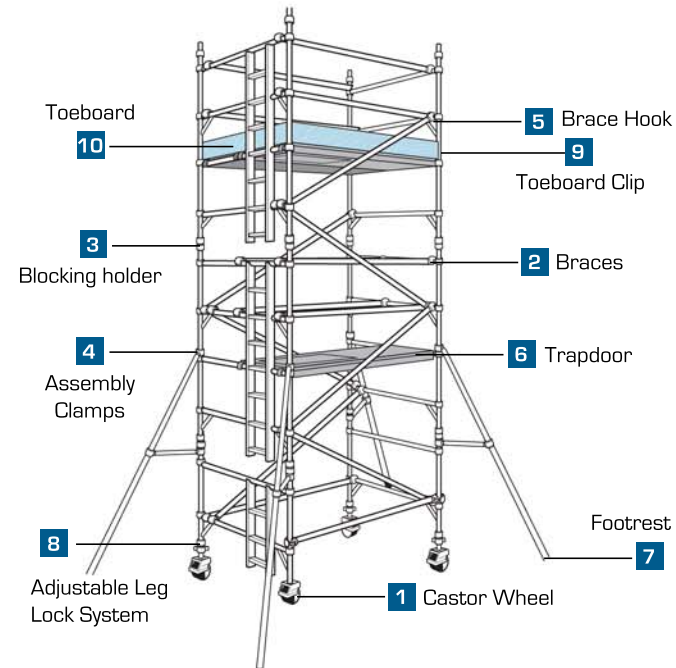
Operating and Safety Guide  
EN 1004 European Standard

## COMPONENTS OVERVIEW

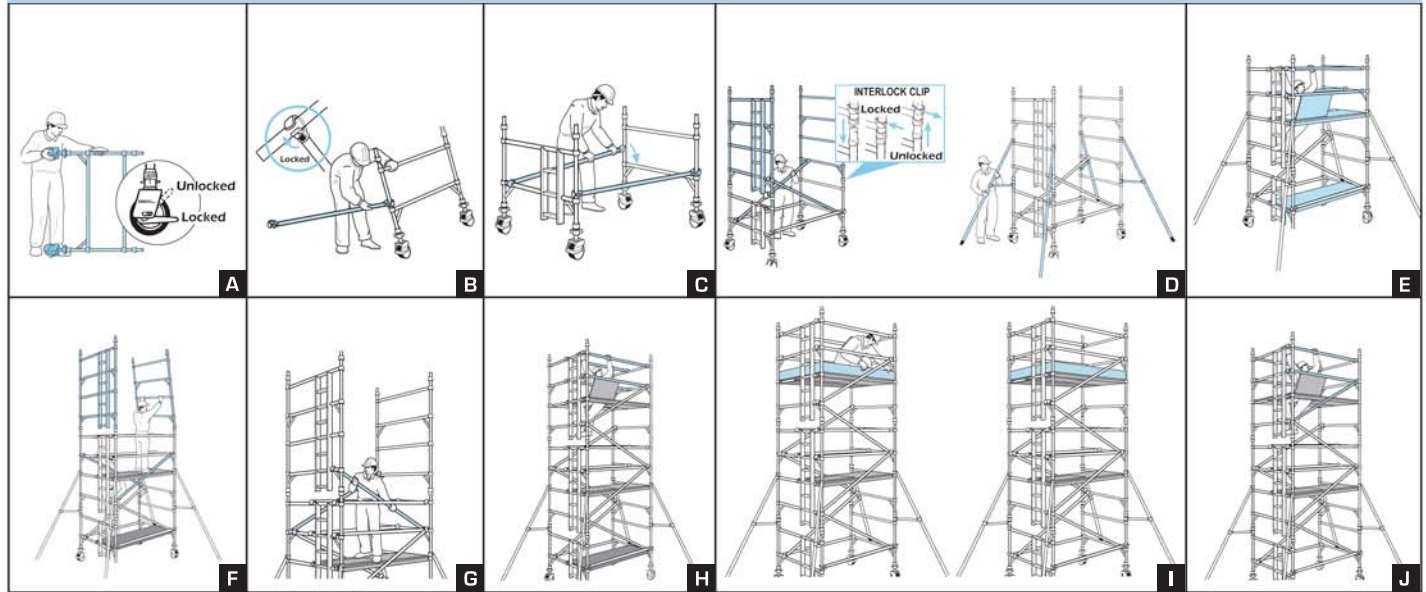


### TAS Aluminium Tower 850/1450

4 rung span frame 0.85 x 2.0m
4 rung ladder frame 0.85 x 2.0m
3 rung span frame 0.85 x 1.5m
3 rung ladder frame 0.85 x 1.5m
2 rung span frame 0.85 x 1.0m
4 rung span frame 1.45 x 2.0m
4 rung ladder frame 1.45 x 2.0m
3 rung span frame 1.45 x 1.5m
3 rung ladder frame 1.45 x 1.5m
2 rung span frame 1.45 x 1.0m
Horizontal brace 1.8m
Horizontal brace 2.50m
Diagonal brace 2.1m
Diagonal brace 2.7m
Standard stabiliser
Trapdoor platform 1.8m
Trapdoor platform 2.5m
Plain trapdoor 1.8m
Plain trapdoor 2.5m



## TAS ALUMINIUM TOWER ASSEMBLY GUIDE



**A** Push castor into adjustable leg. Push adjustable leg assemblies into 2 rung span frame and look castors. Repeat procedures with 2 rung ladder frame. It is recommended that for ease of levelling a gap of 50mm is left between the bottom of the leg and the adjustable nut. Adjustable legs are for levelling only. You must not adjust all four to gain extra height. **Note: Base plates can be fitted to adjustable legs in lieu of castors if it is not necessary to move the tower.**

**B** Fit one horizontal brace (red) onto the vertical of a span frame, just above the bottom rung, with the claw facing outwards. The frame will now be self-supporting. **Note: All locking claws must be opened before fitting.**

**C** Position the ladder frame as shown and fit the other end of the horizontal brace on to the vertical, just above the bottom rung. Fit a second horizontal brace between the bottom rungs on the other side of the frames to square the tower.

**D** Fit additional end frames ensuring the frame interlock clips are engaged. Fit 2 diagonal braces (blue) in opposing directions, between the 1st and the 3rd rungs. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required. Fit stabilisers. **Note: Important, Only use the adjustable legs to level the tower and not to gain extra height.**

**E** Fit temporary deck on the lowest rungs. Fit a trapdoor deck on the 4th rung (2.0m) with the trapdoor next to the ladder. Ensure the trapdoor is positioned with the hinges towards the outside of the tower shown. Climb the ladder & from the protected trapdoor position, fit guardrails on the 5th and 6th rungs (in that order) on both sides of the platform. **Note: Do not climb onto the deck until it is fully guardrailed.** When horizontal braces are fitted as guardrails, they should be 0.5m and 1.0m (1 and 2 rungs) above the platform level in all cases. Removed the temporary deck from the lowest rung.

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

**G** Add two more diagonal braces between the 5th and 7th rungs. If finishing at this height (4.2m platforms) reposition the fixed deck to the 8th rung on the tower. Fit a trapdoor deck alongside it, with the hinges towards the outside of the tower and trapdoor next to the ladder. Add a single diagonal between the 7th and 9th rung as shown. Climb up the ladder and from the protected trapdoor position, fit the guardrails on the 9th and 10th rungs, in that order on both sides of the tower.

**H** Continue to add pairs of end frames, diagonal braces and fit trapdoor deck 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.

**Note: Do not climb onto the deck 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 a single diagonal at the top of the tower as shown in stage 7. Fit the final guardrails as shown in stage 7.

**I** Fit toe board, the tower is now complete.

**J Dismantling procedure.** To take down the tower reverse the building sequence. When removing guardrails braces, unlock the 4 claws furthest from the trapdoor and then return immediately to the protected position within the trapdoor. You may then unlock the claws at the other ends of the guardrails to remove them from the tower.