

# TOWER ERECTION PROCEDURES

This procedure is for assembly of towers with decks typically at 2m intervals, up to 4m high. Only certificated scaffolders are allowed to assemble towers over 4m high and must comply with local statutory regulations, which may differ from State to State.

1. For mobile Scaffolds, insert castors into two base frames (nominally 2m high) and secure castors to frame leg and lock wheel brakes (castors may be adjustable). For non-mobile scaffold, insert adjustable bases into two base end frames.



Fig.1

2. Attach at least one horizontal brace (yellow) to the frame upright just above the first rung with the snap hook facing outwards. The frame is now self-supporting-See Fig.1.



Fig.2

3. Add another horizontal brace (yellow) stand up the opposite base end frame and attach the other end of the two horizontal braces (yellow).

4. Install a plan brace (red) to diagonally opposite uprights below the first rung.



Fig.3

5. Check that the scaffold base is square-See Fig. 2.

6. Level the base in both the horizontal and vertical directions by adjusting the castors or base plates with a spirit level.

7. Install two diagonal braces to stabilise the base frames.

8. Install the next end frames on top of each of the two base frames and install the diagonal brace (blue) above and below the joining point of the base end frames. See Fig. 3.

9. Install one platform as a temporary platform approximately 0.5m from the ground between both end frames. Install a ladder access platform approx 2m from the ground. See Fig. 3.

10. Relocate and stagger the temporary platform to nominally 1m above the ground. This platform will act as fall prevention. Install an access ladder through the opening section of platform – See Fig.4



Fig.4

11. Erect horizontal braces (yellow) as guardrails and mid rails for the working platform whilst standing on the temporary platform. See Fig.4

12. Remove the temporary platform and place it above to complete the working platform. The working platform should now include the ladder access platform and the access ladder – See Fig 5.



Fig.5

13. If working height is expected to exceed 3 times the least base dimension, outriggers must be fitted. For all 0.7m wide towers outrigger must be fitted where height exceed 2 times the least base dimension. If Outriggers are not used then tower is to be stabilised by installing ties to a suitable structure.

14. Access the first working platform via the internal ladder.

15. Repeat the above process installing working platforms at nominally 2.0m intervals – see Fig 5.

16. Install Toeboards at all working platforms.

17. Tower is now complete with top working platform at 4m height, as shown in Fig 6.

18. Before using the scaffold, the scaffold must be checked to make sure that it is built correctly and stands vertical and castor brakes are applied.



Fig.6