

# SOLO TOWER KIT LIST

## 70 CM ONE MAN NARROW TOWER (WELDED) SIZE 70 CM x 120 CM ; SAFETY WORKING LOAD:225 KGS/DECK

COMPONENTS	WEIGHT	TOWER HEIGHT (PLATFORM HEIGHT) MTR	
		4.3 (3.0)	5.3 (4.0)
20 CM WHEEL WITH 60 CM ADJUSTABLE JACK & NUT	5.78	4	4
70 CM WIDE 4 RUNG SPAN FRAME 100 CM HIGH	3.62	8	10
120 CM LONG TRAPDOOR PLATFORM	8.00	2	2
COMPONENT HOLDER FOR ONE MAN TOWER	2.77	2	2
BRACING FRAME FOR ONE MAN TOWER	3.90	6	7
ALUMINIUM TOE BOARD SET FOLDABLE	3.97	1	1
200 CM LONG STABILIZER	3.65	4	4
SNAP PINS	0.04	12	16
<b>TOTAL</b>		<b>116.07</b>	<b>127.37</b>

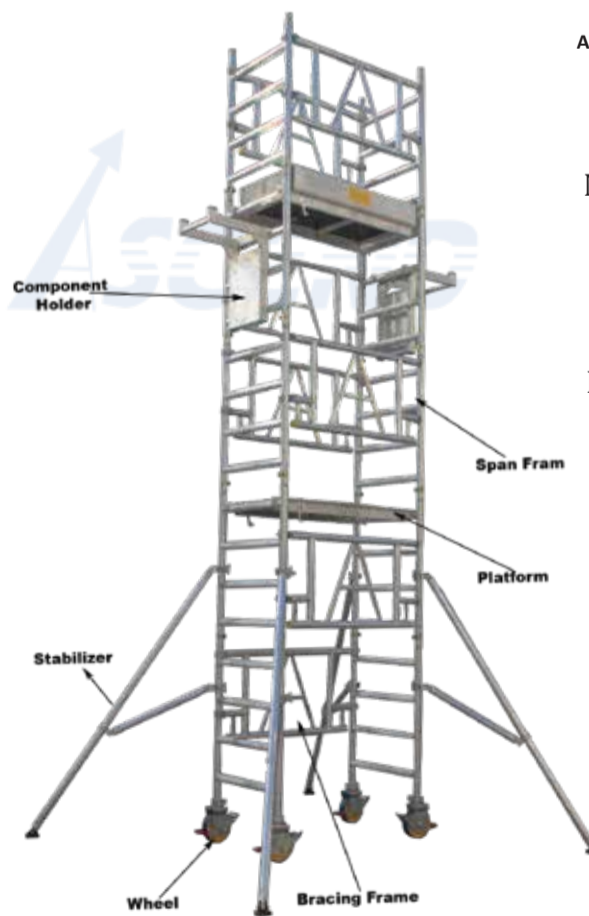
### GENERAL SAFETY RULES

1. A risk assessment has been done and safety equipment (Rope etc) and auxiliary tools are available on site for erection and dismantling the tower.
2. The ground condition will take the working load as specified .
3. The location of tower should be checked to prevent hazards during erection & dismantling, moving and while working on the tower. Level and slope, obstruction and wind condition should be checked.
4. Minimum 2,3 persons are required to safely erect and dismantle the tower.
5. Check instructions before use. Mobile access working towers may only be erected and dismantled by person competent for working on aluminium movable tower.
6. Do not use any scaffold tower which is damaged, which has not been properly erected, which is not firm and stable, and which has any missing or damaged parts.
7. Do not erect a scaffold tower on unstable ground, slopes or objects such as loose bricks, boxes or blocks. Only a sound rigid footing must be used.
8. Ensure that the scaffold tower is always level and the adjustable legs are engaged. Check that you have taken all necessary precautions to prevent the tower being moved, or rolling away. Always apply all castor brakes or use base plates.
9. Ensure that all frames, braces and platforms are firmly in place and that all locking hooks are functioning correctly. Ensure that all frame locking clips are engaged. If any missing, replace them. Never mix parts or components from other manufacturers. Damaged components should be replaced with the new components.
10. It is recommended that the vertical distance between two platform level is 2mtr. Maximum vertical distance between platform level must not exceed 4 mtr.
11. Ensure that the scaffold tower is within the maximum platform height stated, and that the appropriate stabilizers are fitted.
12. Outdoor scaffold towers should, wherever possible, be secured to a building or other structure. It is good practice to tie in all scaffold towers of any height, especially when they are left unattended, or in exposed or windy conditions.
13. A free standing scaffold tower must not be used in winds stronger than 17mph/27kph/Beaufort scale 4. Be cautious if erecting or using the tower in open places, such as hangers or un-clad buildings. In such circumstances the wind forces can be increased, as a result of the funnelling effect.
14. Do not use sheeted towers.
15. Do not erect or use a scaffold tower near un-insulated, live or energised electrical machinery or circuits, or near machinery in operation.
16. If an overhead hazard exists, head protection should be worn.
17. Do not lean ladders against the tower, or climb outside of tower. Whatever your intended access system, it should only be used inside the tower.
18. When lifting materials or components always use reliable lifting materials to ensure there is no possibility of it falling.
19. Guardrails and toe boards must be fitted to the working platforms.
20. Never jump on to or off platforms.
21. Never place the working platform on the guardrail frame. Always keep double height guardrail at each platform levels, never stand on an unguarded platform.
22. DO NOT exceed the safe working load of the platform or structure by accumulating debris, material tools on platforms as these can be a significant additional load.
23. The tower should always be accessed from the inside using the ladder frame, never climb up from outside. Ensure that the locking hooks on the platform are functioning correctly.
24. Beware of horizontal forces (e.g. when using power tools), which could generate instability or overturning of the tower. Maximum horizontal force 20kg.
25. Should you require additional platform height, add further frames. NEVER extend your adjustable legs to achieve extra height, these are for levelling only. NEVER use a ladder or other objects on the platform to achieve additional height.
26. Do not throw the scaffold parts , always lower them to the ground.
27. Always take care of Aluminium scaffold tower equipment. Remember your safety depends on the safe erection and use of the equipment.

### MANUFACTURER OF ALUMINIUM & FIBER GLASS SCAFFOLD TOWERS AND LADDERS



### "SOLO" TOWER INSTRUCTION MANUAL



ALWAYS READ THE INSTRUCTION MANUAL FOR SAFER ASSEMBLY OF SCAFFOLD

MAX SAFE WORKING LOAD STRUCTURE 250 KG

MAX SAFE WORKING LOAD PLATFORM 250 KG

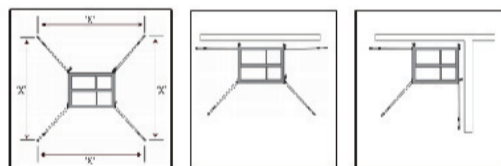


### MAINTENANCE RULES

- Ensure that the scaffold tower is kept clean.
- Grease all moving parts with commercial oil. Wipe off excess oil. Position the stabilizers symmetrically to obtain the MAXIMUM BASE
- Spigots and sockets should fit together with ease and be secured by an interlock clip.
- Check frames and braces, adjustable legs and boards for paint, grit, burrs etc. Remove any foreign substance with a light wire
- Where brace, ladder and platform hooks attach the frames, ensure that the frame rungs are kept clean.
- Ensure that all locking hooks function correctly. If necessary lubricate with light oil.
- Please check that spigot are in to the position and should fit easily into frames.
- The inside diameter of all hooks should be kept clean to ensure they fit to other components without being forced.
- If in any doubt about the proper use and maintenance of the scaffold tower equipment, consult the manufacturer.
- Do not misuse or abuse the scaffold tower with heavy objects, hammers etc. Do not throw components in and out of vehicles or to the ground when the tower is being dismantled. Such abuse may reduce the structural integrity of the scaffold tower. Adjustable leg's thread should be clean and lightly oiled. Under no circumstances damage or incorrect components shall be used , Either repair it or get replacement.

### USE OF STABILIZERS

Stabilizers are to be used, when specified, to guarantee the structural stability of the tower



ALWAYS ENSURE STABILIZER SIZE IS CORRECT AND ABLE TO SUPPORT TOWER

Lightly tighten the upper clamps above the third rung on each corner post. Position the lower clamp above the bottom rung. Ensure the lower arm is as horizontal as possible. Position the stabilizers so that the footpads are approximately equidistant from each other, as shown in Fig 1. Adjust the stabilizer and reposition the clamps as required to make firm contact with the ground. Ensure the clips with locking pin are in place. When in the correct position, tighten the clamps firmly.

To position the tower against a wall, do not remove the stabilizer; move parallel with the wall. (Fig 2)

To position the tower in a corner, remove the inside stabilizer and place the outside two parallel with the wall. (Fig 3)

### MOVING A TOWER :

1. If you must move a tower, remove all materials and personnel. When moving a scaffold tower, force must always be moved from the base. The tower should only be moved manually on firm, level ground which is free from obstacles. Normal walking speed should not be exceeded during relocation. The ground over which a tower is moved should be capable of supporting the weight of the structure. Make sure tower height is not above 4 mtr while moving the tower. Recheck the tower level and reposition stabilizer before use .
2. Check the location is firm and free from pot holes.
3. Raise the stabilizer feet only enough (25mm) to clear the Obstructions.
4. Wind speed should not exceed 29km/h(Beaufort force 4).
5. Check that there are no power lines or obstruction overhead.
6. Before each use check that the MAT is vertical or need readjustment.
7. Whether the structure assembly is still correct and complete.
8. That no environmental changes influenc safe use of the MAT.

### ASCEND ACCESS SYSTEMS SCAFFOLDING L.L.C.

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# SOLO TOWER ASSEMBLY INSTRUCTION MANUAL

The law requires that the personnel erecting ,dismantling Or altering the tower must be competent. Any person erecting Ascend Mobile Tower must have a copy of this guide.



**STEP-1**  
Press STOP. Lock brakes on all caster wheels insert caster and adjustable leg in to the base frame and fit one bracing frame on the lowest rung from inside towards outside.



**STEP-2**  
Fit two one meter high 4 rungs frame on both the lower frame and engage snap pin. See illustration 2



**STEP-3**  
Fit one bracing frame on one side of the frame opposite to the lower bracing frame as per the picture.



**STEP-4**  
Fit platform on 8th rung and engage wind lock. See illustration 3



**STEP-5**  
Fit one component holder on bracing frame and another component holder on platform level. As Shown in this picture.



**STEP-6**  
Hang all bracing frames on one component holder and extension frames on other component holder.



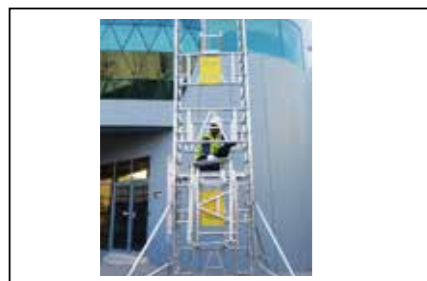
**STEP-7**  
Hang platform on the frame with the support of platform hook.



**STEP-8**  
Fit stabilizer ASAP to increase the base dimension, position the stabilizer so that the foot pads area approximately equidistant from other at 45 degree for maximum stability.



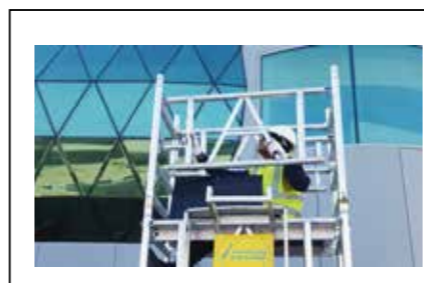
**STEP-9**  
Sitting on the trapdoor opening of the platform fit two bracing frame on both the open side of the platform.



**STEP-10**  
Standing on the guarded platform fit two one meter high frame on both the lower frame.



**STEP-11**  
Fit bracing frame on one side of the tower as per this picture.



**STEP-12**  
Fit platform on the fifth rung from the top level. Engage wind lock.



**STEP-13**  
Shift lower component holder and fit on the bracing frame on this level of platform.

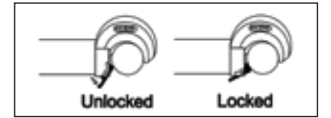
**STEP-14**  
Bring all bracing frame up on this component holder from lower component holder.

**STEP-15**  
Sitting on the platform fix bracing frame on both the open side of the platform.

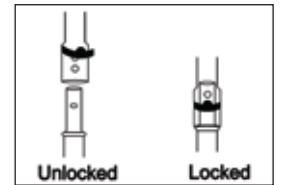
**STEP-16**  
Fit the toe board aluminum foldable.

## ILLUSTRATION

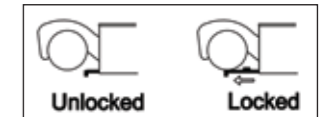
### Assembly Process



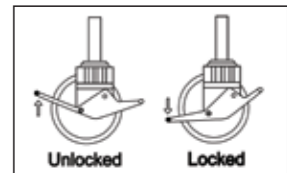
1)Brace lock - Sort the braces into horizontal and diagonal braces, the diagonal braces are slightly longer in size.



2)Snap pins - Unlock the interlock Clips on all frames. When installed, always move the interlock clip to the "Locked" Position.



3)Windlock - A windlock clip is installed on the platform at the hook. This is locked as shown here.



4)Wheel lock - Install castor / leg assembly to frame by pushing the leg into the frame tube. This Should be done with manual force only, no tools. Lock Castors before ascending any part of the tower.

**Dismantling- Please Dismantle the Tower reverse from build process.**