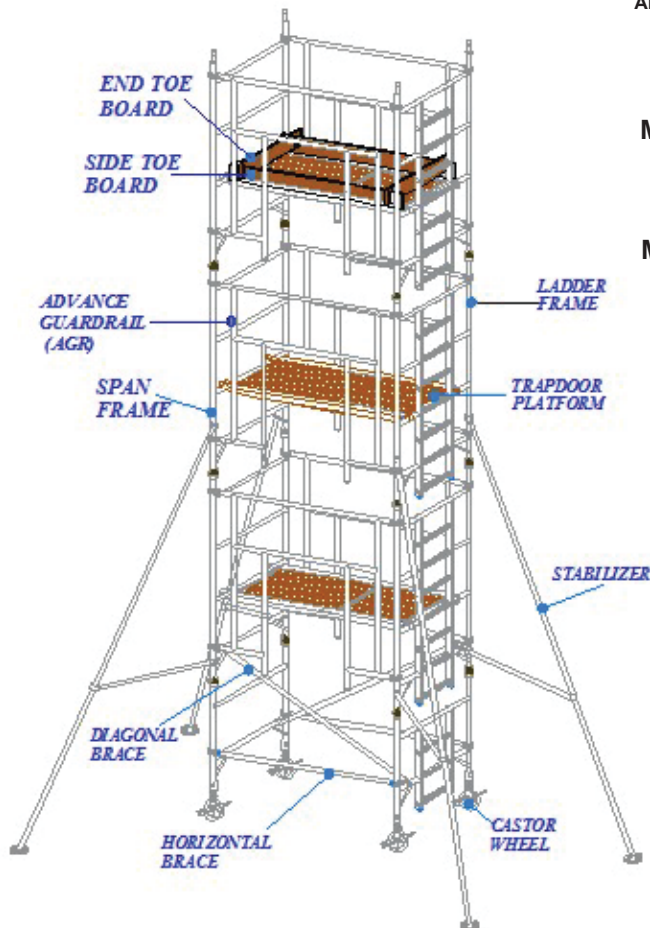




## SINGLE WIDTH TOWER ASSEMBLY INSTRUCTION AGR METHOD

ALWAYS READ THE INSTRUCTION MANUAL  
FOR SAFER ASSEMBLY OF SCAFFOLD



**MAX SAFE WORKING LOAD  
STRUCTURE 500 KG**

**MAX SAFE WORKING LOAD  
PLATFORM 250 KG**

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

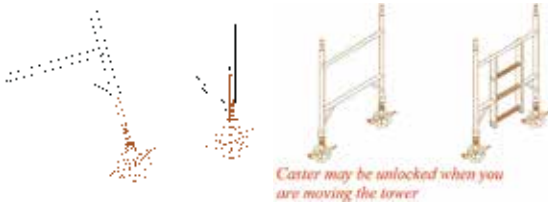
Tel : +971 4 885 5001  
Email : sales@ascenduae.com  
Website : www.ascenduae.com

# SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD

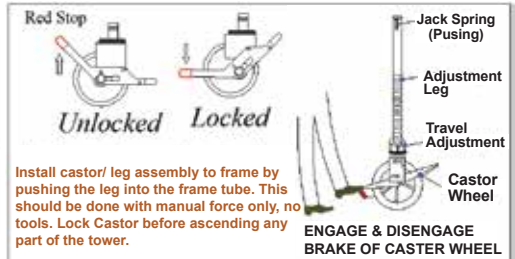
## (Platform HT: 2.2, 4.3, 6.3, 8.3 Mtr)

### Step 1

Insert adjustable leg /castor into the 1 mtr span frame and ladder frame. Apply brake by pushing the lever down, repeat with the remaining legs and castors, adjustable legs should only be used for leveling.



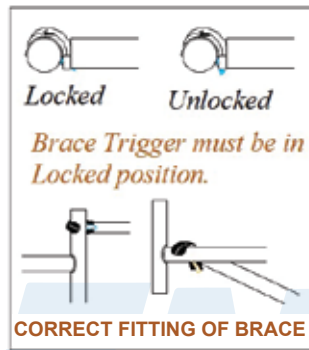
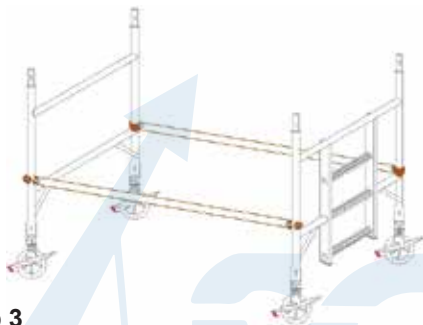
*Castor may be unlocked when you are moving the tower*



Install castor/ leg assembly to the frame by pushing the leg into the frame tube. This should be done with manual force only, no tools. Lock Castor before ascending any part of the tower.

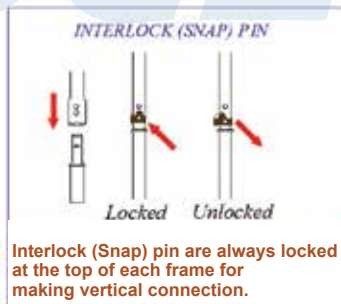
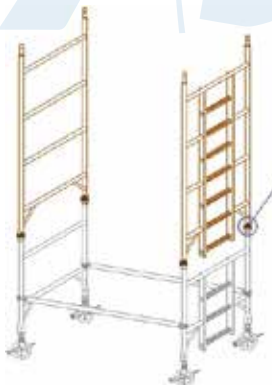
### Step 2

Fit two horizontal braces, BLUE color coded to the vertical member of the frame as low as possible. Both brace hook line must face from inside the tower towards outside. Check the brace is correctly locked on the frame at the both ends.



### Step 3

Fit 2 mtr span and ladder frame from on the lower frames. Ladder frame must be in one line as shown in the diagram below; ensure the frame interlock (snap) pin is engaged.



### Step 4

Fit two diagonal braces, YELLOW color coded. Fit leaving 5 cm gap from vertical tube, diagonal brace between the 1st and 3rd rungs of the tower, as show below. Check the base unit is square and level using spirit level. Adjustable legs are only to level the tower and not gain extra height

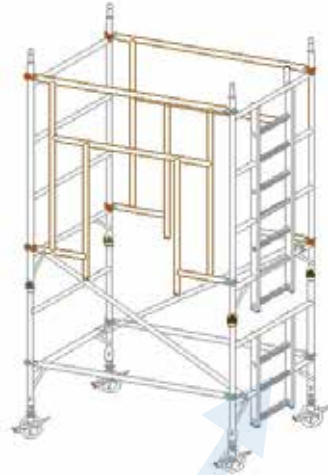


# SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD

(Platform HT: 2.7, 4.8, 6.8, Mtr)

## Step 5

Fit an AGR on each side of the tower. The top of the AGR to top rungs & bottom of the AGR must be to the 4th rungs of the tower from the top, as shown in the diagram.



## Step 6

Fit trapdoor platform on the 3rd rungs from top. Make sure the trapdoor opens to the ladder side, engage wind lock.



A Wind lock clip is installed on the platform at the hook. This must in be locked position on the platform.

## Step 7

Standing on the guarded platform fit 2 mtr span and ladder frame from on the lower frames. Ladder frame must be in one line as shown in the diagram below; ensure the frame interlock (snap) pin is engaged. Fit an AGR on each side of the tower. The top of the AGR to top rungs & bottom of the AGR must be to the 4th rungs of the tower from the top, as shown in the diagram.



## Step 8

Fit four stabilizers to the structure at the earliest opportunity. Position the stabilizer so that the footpads are approximately equidistant from the other at 45° for maximum stability, ensure lower arm is horizontal as possible.



### Step 9

Fit trapdoor platform on the 8th rungs. Make sure the trapdoor opens to the ladder side, engage wind lock.



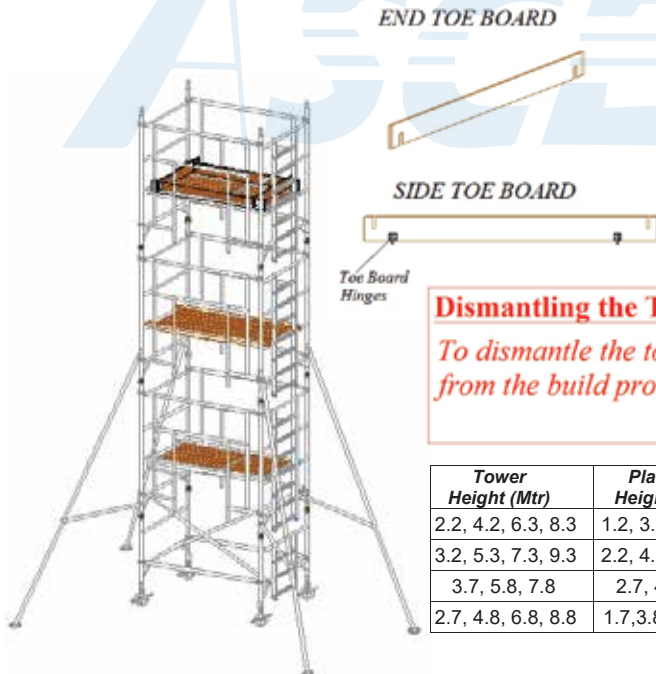
### Step 10

Continue to build the tower using AGR method step 7 & 9. Till the desired height is achieved



### Step 11

Fit the toe board. Slide the side board into the correct slot in the end board. Ensuring the object can't fall and trap door opens fully



### Dismantling the Tower

*To dismantle the tower please reverse from the build process.*

Tower Height (Mtr)	Platform Height (Mtr)	Frame at Base	1st Platform (Deck)
2.2, 4.2, 6.3, 8.3	1.2, 3.2, 5.3, 7.3	4 Rungs	2nd Rungs
3.2, 5.3, 7.3, 9.3	2.2, 4.3, 6.3, 8.3	2 Rungs	4th Rungs
3.7, 5.8, 7.8	2.7, 4.7, 6.8,	3 Rungs	1st Rungs
2.7, 4.8, 6.8, 8.8	1.7,3.8, 5.8, 7.8	2 & 3 Rungs	3rd Rungs

## SAFETY CHECKLIST

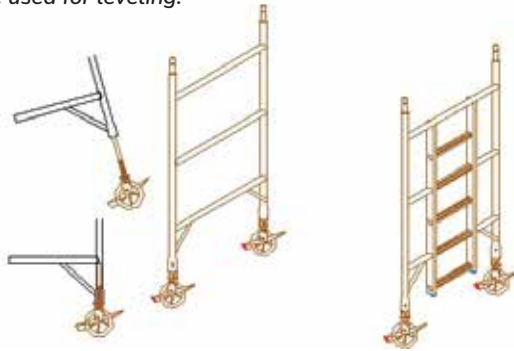
### Mobile Tower - AGR method Checklist

DESCRIPTION	Yes
Tower structure upright and level	√
Castor Lock and adjustable leg correctly adjusted	√
Castor must be locked position , unlocked when you are moving the tower	√
Horizontal and diagonal brace locked position	√
Ensure AGR claws lock are in good condition prior to erection	√
Interlock (Snap) pin are always locked at the top of each frame for making vertical connection	√
Wind lock must be locked position on the platform	√
Inspect components prior to erection	√
Stabilizer clamps fitted as specified	√
Side Toe board into the correct slot in the end board	√

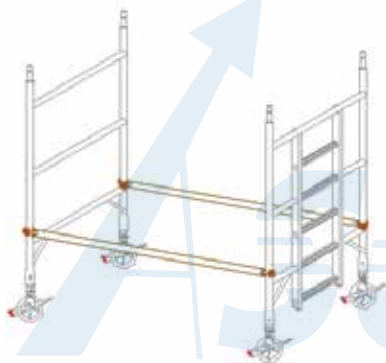
Working Height (Mtr)		3.2	3.7	4.2	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10
Tower Height (Mtr)		2.2	2.7	3.2	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3
Platform Height (Mtr)		1.2	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3
COMONETS (80*178)	UNIT WEIGHT (kg)	INTERNAL OR EXTERANAL USE														
15 CM WHEEL WITH 60 CM ADJUSATBLE JACK & NUT	<b>3.80</b>	4	4	4	4	4										
20 CM WHEEL WITH 60 CM ADJUSATBLE JACK & NUT	<b>5.67</b>						4	4	4	4	4	4	4	4	4	4
2 RUNGS LADDER FRAME (1.0 M HIGH X 0.8 M WIDTH)	<b>4.50</b>		1	1			1	1			1	1			1	1
RUNGS SPAN FRAME (1.0 M HIGH X 0.8 M WIDTH)	<b>3.15</b>		1	1			1	1			1	1			1	1
3 RUNGS LADDER FRAME (1.5 M HIGH X 0.8 M WIDTH)	<b>6.70</b>		1		1		1		1	0	1	0	1		1	
3 RUNGS SPAN FRAME (1.5 M HIGH X 0.8 M WIDTH)	<b>4.52</b>		1		1		1		1	0	1	0	1		1	
4 RUNGS LADDER FRAME (2.0 M HIGH X 0.8 M WIDTH)	<b>8.50</b>	1	0	1	1	2	1	2	2	3	2	3	3	4	3	4
4 RUNGS SPAN FRAME (2.0 M HIGH X 0.8 M WIDTH)	<b>5.78</b>	1	0	1	1	2	1	2	2	3	2	3	3	4	3	4
TRAPDOOR PLATFORM	<b>11.20</b>	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
ADVANCE GUARDRAIL	<b>6.80</b>	2	2	2	2	4	4	4	4	6	6	6	6	8	8	8
HORIZONTAL BRACE	<b>1.70</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DIAGONAL BRACE	<b>1.90</b>			2	2		2	2	2	2	2	2	2	2	2	2
SIDE TOE BOARD	<b>1.66</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
END TOE BOARD	<b>0.98</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3.0 MTR LONG STABILIZER	<b>4.50</b>			4	4	4	4	4	4	4	4					
4.5 MTR LONG STABILIZER	<b>5.78</b>											4	4	4	4	
6.0 MTR LONG STABILIZER	<b>7.00</b>															4
INTER LOCK (SNAP) PINS	<b>0.05</b>		4	4	4	4	8	8	8	8	12	12	12	12	16	16
TOTAL WEIGHT (KG)		<b>63.00</b>	<b>67.75</b>	<b>92.61</b>	<b>107.4</b>	<b>120.2</b>	<b>136.3</b>	<b>139.4</b>	<b>154.1</b>	<b>167</b>	<b>175.6</b>	<b>183.8</b>	<b>198.5</b>	<b>211.4</b>	<b>220</b>	<b>227.9</b>

## SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD (Platform HT: 3.8, 5.8, 5.8, Mtr)

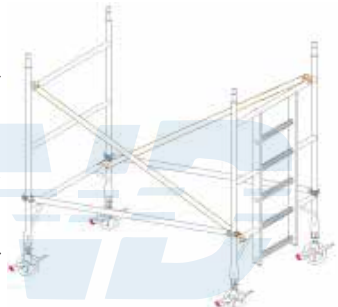
**STEP 1:** Insert adjustable leg /castor into the 1.5 mtr span frame and ladder frame. Apply brake by pushing the lever down, repeat with the remaining legs and castors, adjustable legs should only be used for leveling.



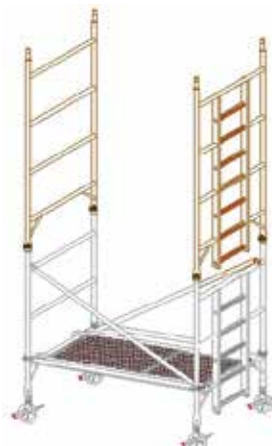
**STEP 2 :** Fit two horizontal braces, BLUE color coded to the vertical member of the frame as low as possible. Both brace hook line must face from inside the tower towards outside. Check the brace is correctly locked on the frame at the both ends.



**STEP 3:** Fit two diagonal braces, YELLOW color coded. Fit leaving 5 cm gap from vertical tube, diagonal brace between the 1st and 3rd rungs of the tower, as show below. Check the base unit is square and level using spirit level. Adjustable legs are only to level the tower and not gain extra height



**STEP 4:** Fit Standard platform on the 1st rungs, engage wind lock.



**STEP 5:** Fit 2 mtr span and ladder frame from on the lower frames. Ladder frame must be in one line as shown in the diagram below; ensure the frame interlock (snap) pin is engaged.

## SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD (Platform HT: 3.8, 5.8, 5.8, Mtr)

**STEP 6 :** Standing on the guarded platform fit an AGR on each side of the tower. The top of the AGR to top rungs & bottom of the AGR must be to the 4th rungs of the tower from the top,, as shown in the diagram.



**STEP 7 :** Fit Trapdoor platform on the 5th rungs. Make sure the trapdoor opens to the ladder side, engage wind lock.



**STEP 8 :** Fit four stabilizers to the structure at the earliest opportunity. Position the stabilizer so that the footpads are approximately equidistant from the other at 45° for maximum stability, ensure lower arm as horizontal as possible.



**STEP 9:** Continue to build the tower using AGR method step 5, 6 & 7. Till the desired height is achieved.



**STEP 10:** Fit the toe board. Slide the side board into the correct slot in the end board. Ensuring the object can't fall and trap door opens fully

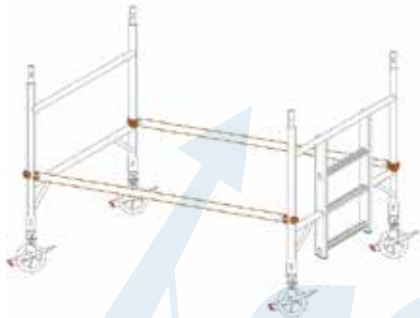


# SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD (Platform HT: 2.7, 4.8, 6.8, Mtr)

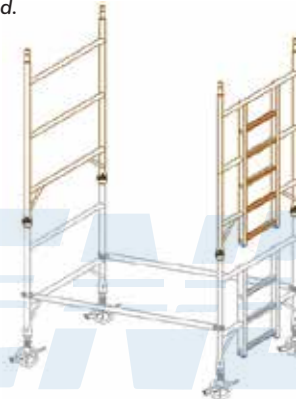
**STEP 1:** Insert adjustable leg /castor into the 1.0 mtr span frame and ladder frame. Apply brake by pushing the lever down, repeat with the remaining legs and castors, adjustable legs should only be used for leveling.



**STEP 2 :** Fit two horizontal braces, BLUE color coded to the vertical member of the frame as low as possible. Both brace hook line must face from inside the tower towards outside. Check the brace is correctly locked on the frame at the both ends



**STEP 3 :** Fit 1.5 mtr span and ladder frame from on the lower frames. Ladder frame must be in one line as shown in the diagram below; ensure the frame interlock (snap pin) is engaged.



**STEP 4 :** Fit two diagonal braces, YELLOW color coded. Fit leaving 5 cm gap from vertical tube, diagonal brace between the 1st and 3rd rungs of the tower, as show below. Check the base unit is square and level using spirit level. Adjustable legs are only to level the tower and not gain extra height



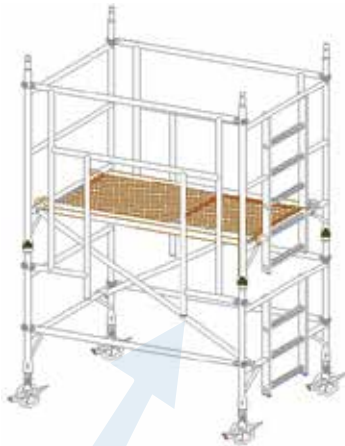
**STEP 5 :** Fit an AGR on each side of the tower. The top of the AGR top rungs & bottom of the AGR must be to the 4th rungs of the tower from the top,, as shown in the diagram.





## SINGLE WIDTH TOWER INSTRUCTION MANUAL AGR METHOD (Platform HT: 2.7, 4.8, 6.8, Mtr)

**STEP 6 :** Fit Trapdoor platform on the 3rd rungs. Make sure the trapdoor opens to the ladder side, engage wind lock.



**STEP 7 :** Fit four stabilizers to the structure at the earliest opportunity. Position the stabilizer so that the footpads are approximately equidistant from the other at 45° for maximum stability, ensure lower arm as horizontal as possible.



**STEP 8 :** Standing on the guarded platform fit 2.0 mtr spans and ladder frame from on the lower frames. Ladder frame must be in one line as shown in the diagram below; ensure the frame interlock (snap) pin is engaged.



**STEP 9:** Fit the toe board. Slide the side board into the correct slot in the end board. Ensuring the object can't fall and trap door opens fully



# GENERAL SAFETY RULES

1. A Risk assessment has been done and safety equipment 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 prevent hazard, during erection & dismantling, moving and while working on the tower. Level & slope, obstruction and wind condition should be checked.
4. Minimum 2, 3 persons are required to safely erect and dismantle the tower.
5. Check instruction 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 adjustable legs are engaged. Check that you have taken all necessary precaution to prevent the tower being moved, or rolling away. Always apply all castor brakes or use base plates
9. Ensure that all frames, braces & platform are firmly in place and that all locking hooks are functioning correctly.
10. Ensure that all frame inter locking pin are engaged. If any missing replace them.
11. Never mix part or components from other manufactures.
12. It is recommended that the vertical distance between two platform level is 2 mtr . Maximum vertical distance between platform levels must not exceed 4mtr.
13. Ensure that the scaffold tower is within the maximum platform height stated, and that the appropriate stabilizers are fitted.
14. Outdoor scaffold tower should, wherever possible, be secured to a building or other structure. It is good practice to tie in all scaffold tower of any height, especially when they are left unattended, or in exposed or windy condition.
15. Do not use sheeted towers.
16. Do not erect or use a scaffold tower near un-insulated, live or energized electrical machinery or circuits, or near machinery in operation.
17. If an overhead hazard exists, head protection should be worn.
18. 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.
19. Never climb on horizontal or diagonal braces
20. Do not gain access or descend from the working platform other than by the intended access system.
21. Do not work from ladders or stairway, they are a means of access only.
22. When lifting materials or components always use reliable lifting materials to ensure there is no possibility of it falling.
23. Always tie the tower when it is left unattended.
24. Guardrails and toe board must be fitted to the working platform.
25. Never jump on to or off platform
26. Never place the working platform on the guardrails frame, always keep double height guardrails at each platform levels, never stand on an unguarded platform.
27. Do not exceed the safe working load of the platform or structure by accumulating debris, material tools on platform as these can be a significant additional load.
28. The tower should be always accessed from the inside using the ladder frame, never climb up from outside. Ensure that the locking hooks on the platform are functioning correctly.
29. Beware of horizontal forces (e.g. when using power tools) which could generate instability or overturning of the tower. Maximum horizontal force 20 kg.
30. Should you require additional platform height, add further frames. NEVER extend your adjustable legs to achieve extra height, these are for leveling only. NEVER use a ladder or other objects on the platform to achieve additional height.
31. Do not throw the scaffold parts; always lower them to the ground.
32. Mobile towers are not designed to be lifted or suspended, permissible load according to scaffold load is 2.0 kN/m<sup>2</sup> (200 kg/m<sup>2</sup>).
33. The max working load on the ascend span 50 is 600 kg for overall structure (including tower self weight) and 200 kg evenly distributed on the platform.
34. The tower must not exceed 8 meter platform height for indoor and outdoor.

## MAINTENANCE RULES

- Ensure that the scaffold tower is kept clean.
- Grease all moving parts with commercial oil. Wipe off excess oil. Position the stabilizer symmetrically to obtain the MAXIMUM BASE.
- Spigot and sockets should fit together with ease and be secured an interlock clip.
- Check frames and braces, adjustable legs and board for paint, grit, burr etc. Remove any foreign substance with a light wire.
- Where brace, ladder and platform hooks attach the frame, 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 is in to the position and should fit easily into frame.
- The inside diameter of all hooks should be kept clean to ensure they fit to other components without being forced.
- If any doubt about the proper use and maintenance of the scaffold tower equipments, consult the manufacturer.
- Does 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 circumstance damage or incorrect component shall be used, either repair it or get replacement.

- Check the location is firm and free from pot holes.
- Raise the stabilizer feet only enough (25 mm) to clear the obstructions.
- wind speed should not exceed 29km/h (Beau fort force 4)
- Check that there is no power line or obstruction overhead.
- Before each use check that the MAT is vertical or need readjustment.
- Whether the structure assembly is still correct and complete.
- That no environmental changes influence safe use of the MAT.

## USE OF STABILIZERS

- Stabilizer 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 rungs on each corner post. Position the lower clamp above the bottom rungs. Ensure the lower arm is as horizontal as possible. Position the stabilizers so that the footpads are approximately equidistant from each other, as in Fig1. 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

- If you must move a ladder, remove all materials and personal. When moving a scaffold tower, force must always be applied from the base. The tower should only be moved manually on firm, level ground which is free from obstacle . 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.
- Check the location is firm and free from pot holes.
- Raise the stabilizer feet only enough (25 mm) to clear the obstructions.
- wind speed should not exceed 29km/h (Beau fort force 4)
- Check that there is no power line or obstruction overhead.



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