

Y

**EazY
Tower**



USER GUIDE

MOBILE ALUMINIUM TOWER

1350 STAIRWAY

THROUGH THE STAIRWAY METHOD

www.ymfg.co.in

Contents

1 Safety First

1.1	Introduction	3
1.2	Tower Designation	4

2 Building the Tower

2.1	Pre-Assembly Checks	5
2.2	Component Diagram	7
2.3	Quantity Schedule	9
2.4	Stabilisers	10
2.5	Assembly	11
	2.5.1 Assembly for EazY Towers	12
2.6	Dismantling	24

3 Using the Tower

3.1	Pre-Use Checklist	25
3.2	Use	26
3.3	Movement of the Assembled Prefabricated Tower Scaffold	27

1 Safety First

1.1 Introduction

Please read this instruction manual carefully.

This instruction manual must be available at the location where the mobile access tower is used. Instruction manuals can also be downloaded from www.ymfg.co.in.

This product must be used in accordance with this manual without any modification



FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO DEATH OR SERIOUS INJURY.

Mobile access towers must always be used in accordance with the national regulations. If any aspect of these instructions' conflicts with local regulations, please contact Y-Group for advice.

Please note that diagrams are for illustrative purposes only

User training courses are available but must not be considered a substitute for familiarity with this manual.

EazY towers are light-weight scaffold towers used throughout the building and construction industry for both indoor and outdoor access solutions where a stable and secure platform is required. Ideal for maintenance and installation work or short-term access, the highly versatile towers provide a strong working platform for a variety of heights.

Verification and assessment documentation is held by Y-Group.

Compliances



TÜVNORDGROUP

The EazY tower system has been designed, tested, approved and certified to EN 1004-1:2020.

This instruction manual is in Compliance with EN 1004-1:2020

1 Safety First

1.2 Tower Designation

EN 1004 3 8/10 XXXD H2

Design Code (EN 1004-1:2020)

Load class (3)

Max platform Height Outdoor (8m)

Max platform Height Indoor (10m)

Access Method

A-Big stairway, B-Stair Ladder, C-Inclined Ladder, D-Vertical Ladder

Clear Height (H1- 1.85 m, H2 - 1.90 m)

*UDL =Uniformly distributed load

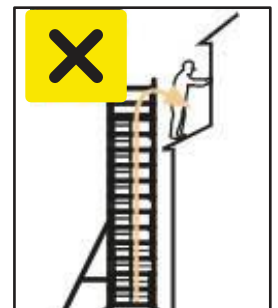
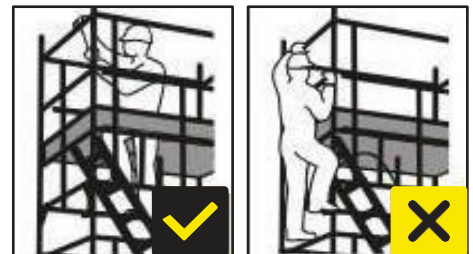
1.2 Tower Designation

- The EazY Tower system is robust and requires little maintenance.
- All components and their parts should be regularly inspected to identify damage, particularly to joints.
- Refer to the Inspection Guidance for detailed inspection and maintenance advice, the guidance is available to download at: www.ymfg.co.in.
- Threads, hinges, and brace latches may be lubricated with light oil. Ensure oil does not contaminate climbing or walking surfaces, etc.
- Safety labels should be kept legible. Replacement labels are available from Y-Access Manufacturing Pvt. Ltd.
- Surfaces should be kept reasonably free of dried paint, plaster .
- The use of solvents on wooden platform surfaces & plastic components should be avoided.
- Components should be stored in clean, dry conditions with due care to prevent damage.
- During transportation ensure components are not damaged by excessive strapping forces

2 Building the Tower

2.1 Pre-Assembly Checks

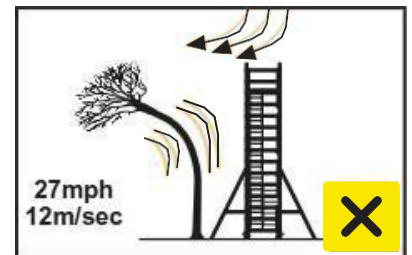
- Check overhead that the area into which the structure is to be erected contains no obstructions, particularly electrical or radio radiation hazards. The structure is conductive.
 - Ensure the ground on which the mobile access tower is to be erected is capable of supporting the tower in use.
 - Check the surface is level within the 100mm range of the adjustable legs.
 - Only components specified in this manual shall be used with EazY towers. Check all required components are onsite and in a suitable working condition.
 - Damaged components shall not be used and must be put beyond use and disposed of according to local regulations.
 - Adjustable legs should only be used for levelling purposes and never to gain extra height.
 - When the base is levelled, ensure that the distance from the ground to the first stairway landing is less than 400mm.
 - Only climb the tower from the inside using the access method provided.
- This tower provides a work platform. It must not be used to access other structures.



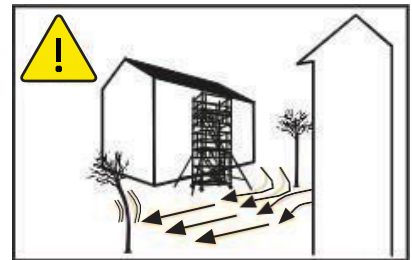
2 Building the Tower

- Tower scaffolds are not designed to be lifted or suspended.
- Ensure the safe working load on the structure is not exceeded.
- Tools and materials should be lifted using a reliable lifting material (e.g. a strong rope) employing a reliable knot (e.g. clove hitch) to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers).
- Check this manual is available and its contents familiar to all those involved.
- If assembling outdoors, check the forecast wind speed.

- The assembled tower is certified to wind forces equating to 27mph, but handling components under those conditions would be hazardous.



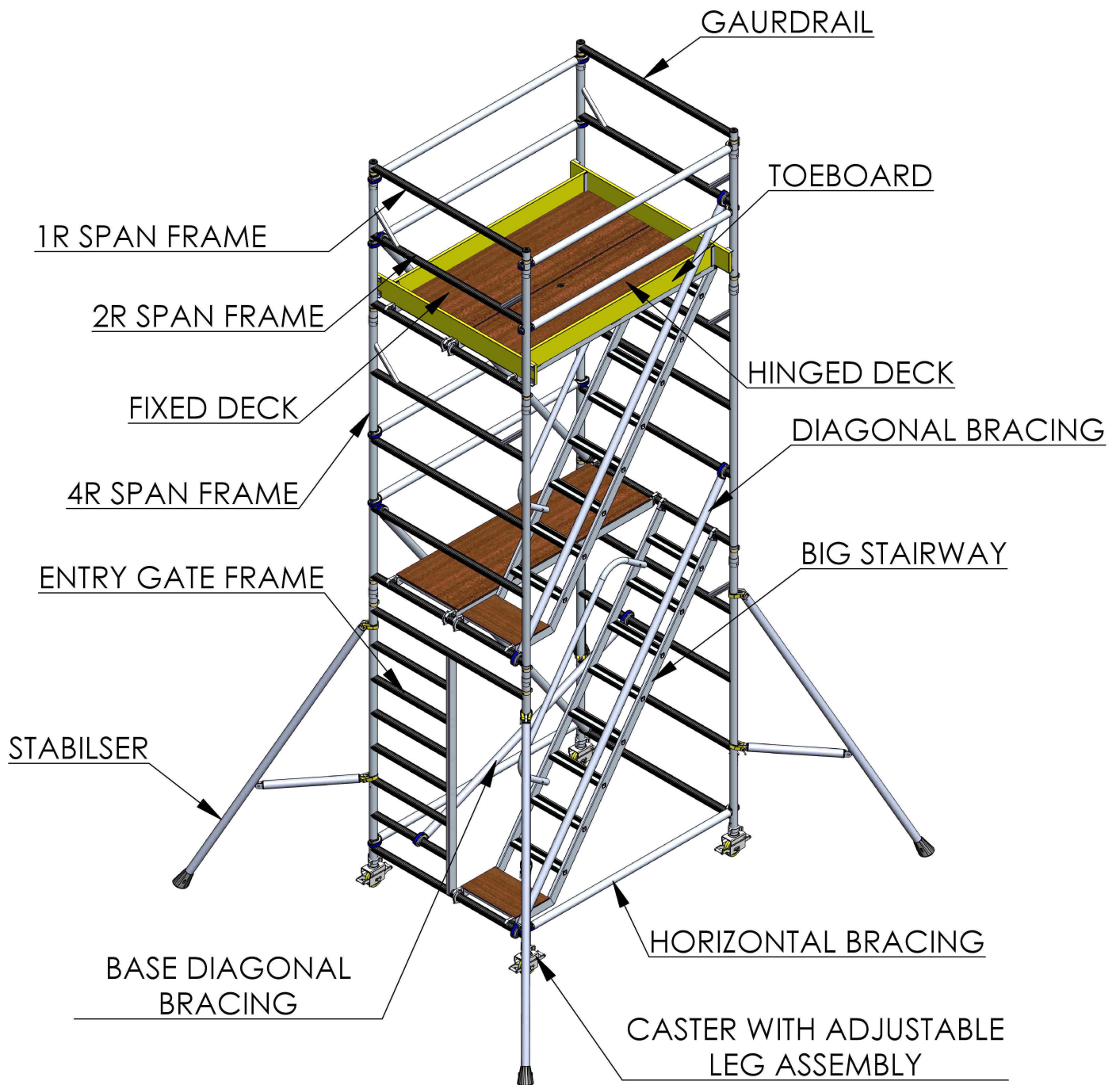
- Also consider the wind funneling effect of nearby buildings.



- Towers greater than 8mer platform height are for indoor use only. This structure is designed to be self-supporting under the loading condition requirements of EN 1004-1:2020 and does not require tying in. Consideration should be given to potential wind conditions if the tower is left unattended.

2 Building the Tower

2.2 Component Diagram



2 Building the Tower

Component Lists with weight:

Sr. No.	Component Name	Weight
1	Caster With Adjustable Leg Assembly	3.5 Kg
2	4R Span Frame	6.6 Kg
3	Entry Gate Frame	8.5 Kg
4	2R Span Frame	3.4 Kg
5	1R Span Frame	1.1 Kg
6	3R Span Frame	4.9 Kg
7	Horizontal Bracing	1.5 Kg
8	Diagonal Bracing	2.5 Kg
9	Base diagonal Bracing	1.6 Kg
10	Fixed Deck	3.9 Kg
11	Hinged Deck	4.1 Kg
12	Toeboard	3.8 Kg
13	Big stairway	11 Kg
14	Small Stairway	8 Kg
15	SP 7 Stabiliser	3.75 Kg
16	SP 10 Stabiliser	8.75 Kg
17	SP 15 Stabiliser	12.77 Kg

2 Building the Tower

2.2 Quantity Schedule

1350 Stairway to EN 1004-1:2020

Component	Working Height	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
	Platform Height	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Name	Tower Height	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11
Caster With Adjustable Leg Assembly		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4R span frame		1	1	3	1	3	3	5	3	5	5	7	5	7	7	9	7
Entry gate frame		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2R Span Frame		2	–	–	2	2	–	–	2	2	–	–	2	2	–	–	2
1R Span Frame		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3R Span Frame		–	2	–	2	–	2	–	2	–	2	–	2	–	2	–	2
Horizontal Bracing		6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14
Diagonal Bracing		2	2	2	4	4	4	4	6	6	6	6	8	8	8	8	10
Base Diagonal Bracing		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fixed deck		1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
Hinged Deck		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Toeboard		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Big stairway		1	–	–	1	2	1	1	2	3	2	2	3	4	3	3	4
Small Stairway		–	2	2	1	–	2	2	1	–	2	2	1	–	2	2	1
SP 7 Stabilizer		4	4	4	4	4	4	4	–	–	–	–	–	–	–	–	–
SP 10 Stabilizer		–	–	–	–	–	–	–	4	4	4	4	4	4	4	4	–
SP 15 Stabilizer		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4

2 Building the Tower

Assembly Variations

This section lists the permitted component variation from the Quantity Schedule.

Note: These substitutions must be made before assembly.

Stabilisers

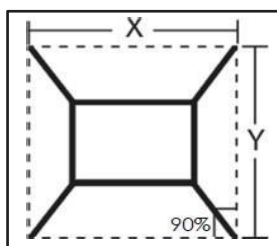
Stabilisers with Universal Clamps may be substituted:

Description	Weight (KG)
SP7	3.75
SP10	8.75
SP15	12.75

Casters

The casters used are of 150 mm diameter (non-tyred)

2.4 Component Diagram



SP10 and SP15 stabilisers must always be fully extended.

Position the lower clamp so that the arm is as close to horizontal as possible. Adjust the position of the top clamp to ensure the stabilizer foot is in firm contact with the ground. Ensure the clamps are secure.

Double Width 1350 Tower 1.83M		
	X (mm)	Y (mm)
SP7	3242	3266
SP10	4832	4732
SP15	5510	5410

2 Building the Tower

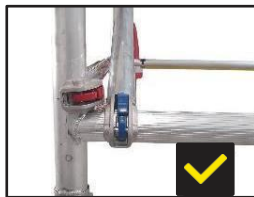
2.5 Assembly

This tower structure must be assembled, and components oriented, in accordance with this instruction manual. Deviation from this instruction manual is not permitted.



FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO DEATH OR SERIOUS INJURY.

- No tools are required for assembly
- The assembly uses the Advanced Handrail method that provides collective fall protection.
 - Fit braces in the locations described & ensure claws are placed in right manner (Refer to the images below).



- DO NOT stand on an unprotected platform



- The tower may be assembled by a single person, but it is recommended that two or more are used to pass up components on the taller assemblies.
- Components must be lifted within the footprint of the tower using a reliable method such as a strong rope with a clove hitch knot.
- Caster brakes should be locked as soon as the tower base is in position.
- The tower base should be levelled to within 0.6° before continuing the assembly.
- The adjustable legs are for levelling the tower only and not to be used to gain extra height.
- Ensure when the base is levelled the distance from the ground to the first big stairway landing is less than 400mm.
- Stabilisers of the size specified in the quantity schedule should be fitted at the earliest opportunity.

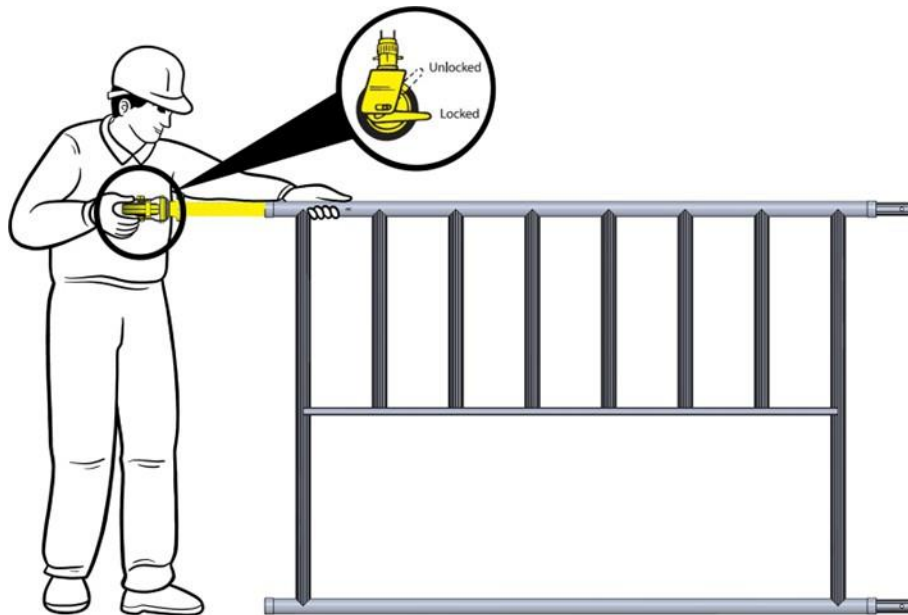
2 Building the Tower

2.5.1 Assembly for EAZY Tower

The procedure illustrated shows a 1350 tower 4.5m platform height starting with a pair of entry gate frame and 4R span frame. All tower heights start with this arrangement.

Important Note: The blue colour in the bracings shows that, it is diagonal bracing and red colour in the bracings shows that, it is horizontal bracing, see figure in step 3 for the reference. Also, the bracings are self-locking.

1. Fit an entry gate frame with 150/200 mm non-tyred caster with adjustable leg. Now tighten the thumb screws and lock casters.



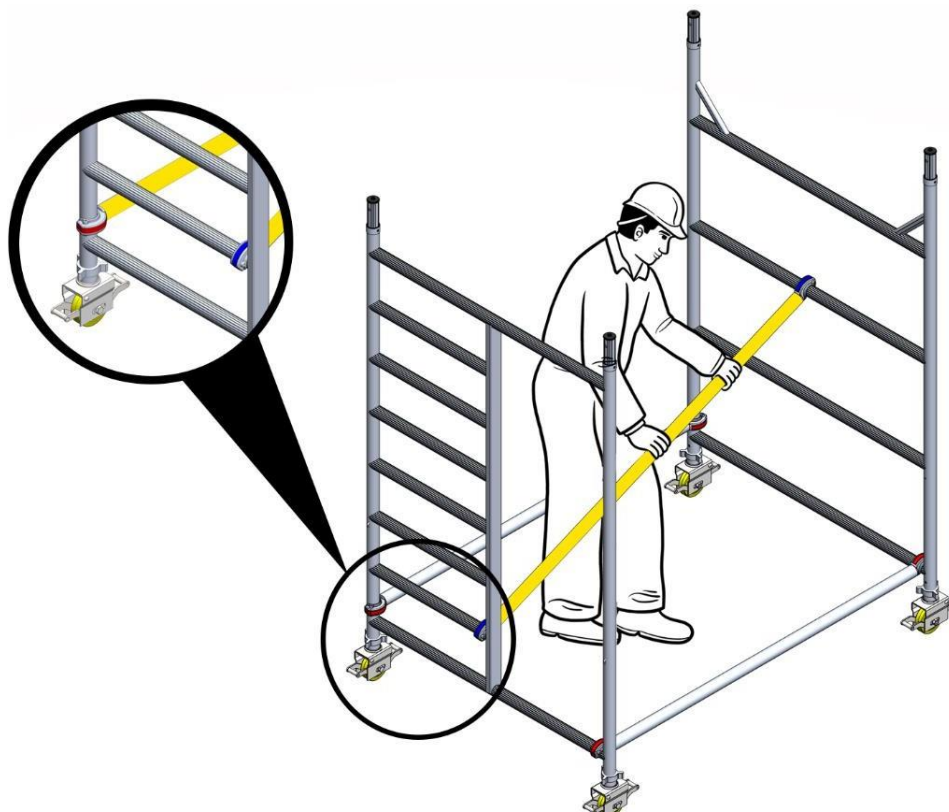
Repeat procedure for another end of entry gate frame and 4R span frame. It is recommended that for ease of levelling a gap of 50mm is left between the bottom of the leg and the adjustable nut.

2. Fit a horizontal bracing on the uprights of both of the frames and another horizontal bracing on the first rungs from the bottom of both of the frames, see figure below:

2 Building the Tower

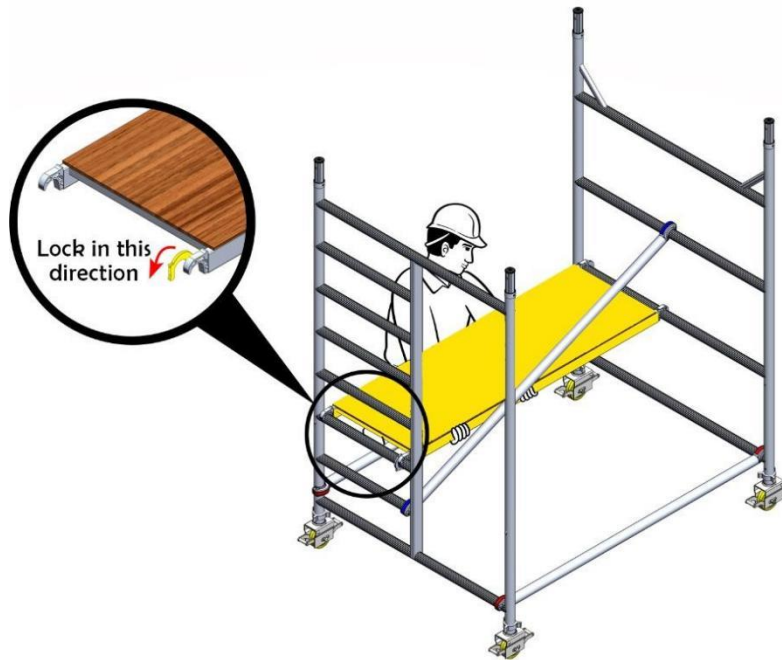


3. Snap-fit one end of the base diagonal bracing on the second rung from the bottom of the entry gate frame, with the claw facing ground, see figure below. Similarly, snap-fit another end of the base diagonal bracing on the third rung from the bottom of the 4R span frame, see figure below. The frame will now be self-supporting.

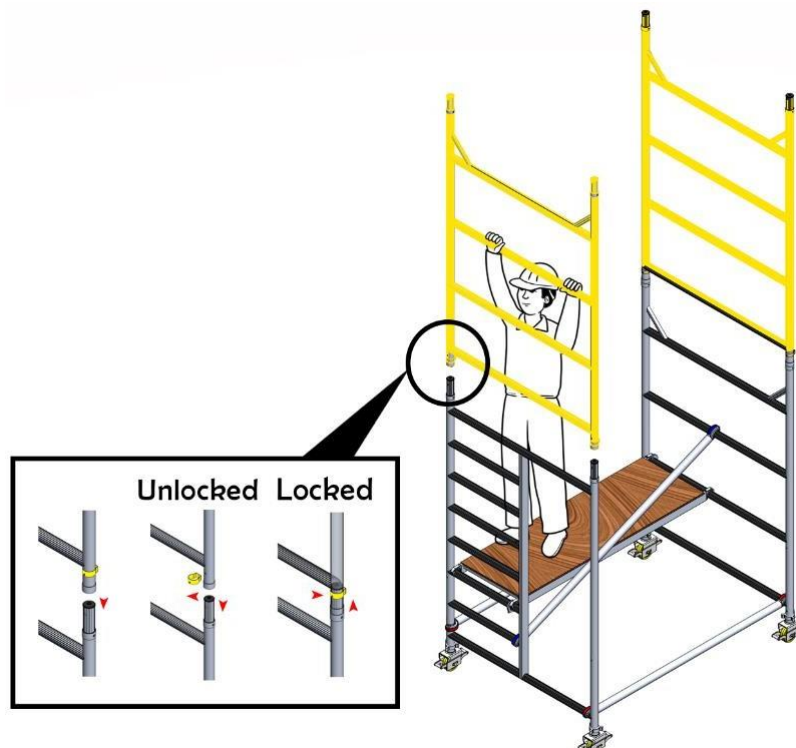


2 Building the Tower

4. Install a temporary deck by placing it on the third rung from the bottom of the entry gate frame and the second rung from the bottom of the 4R span frame, as shown in the figure. Ensure the locking clips are fully engaged to secure the deck. This deck is temporary and must be removed later.

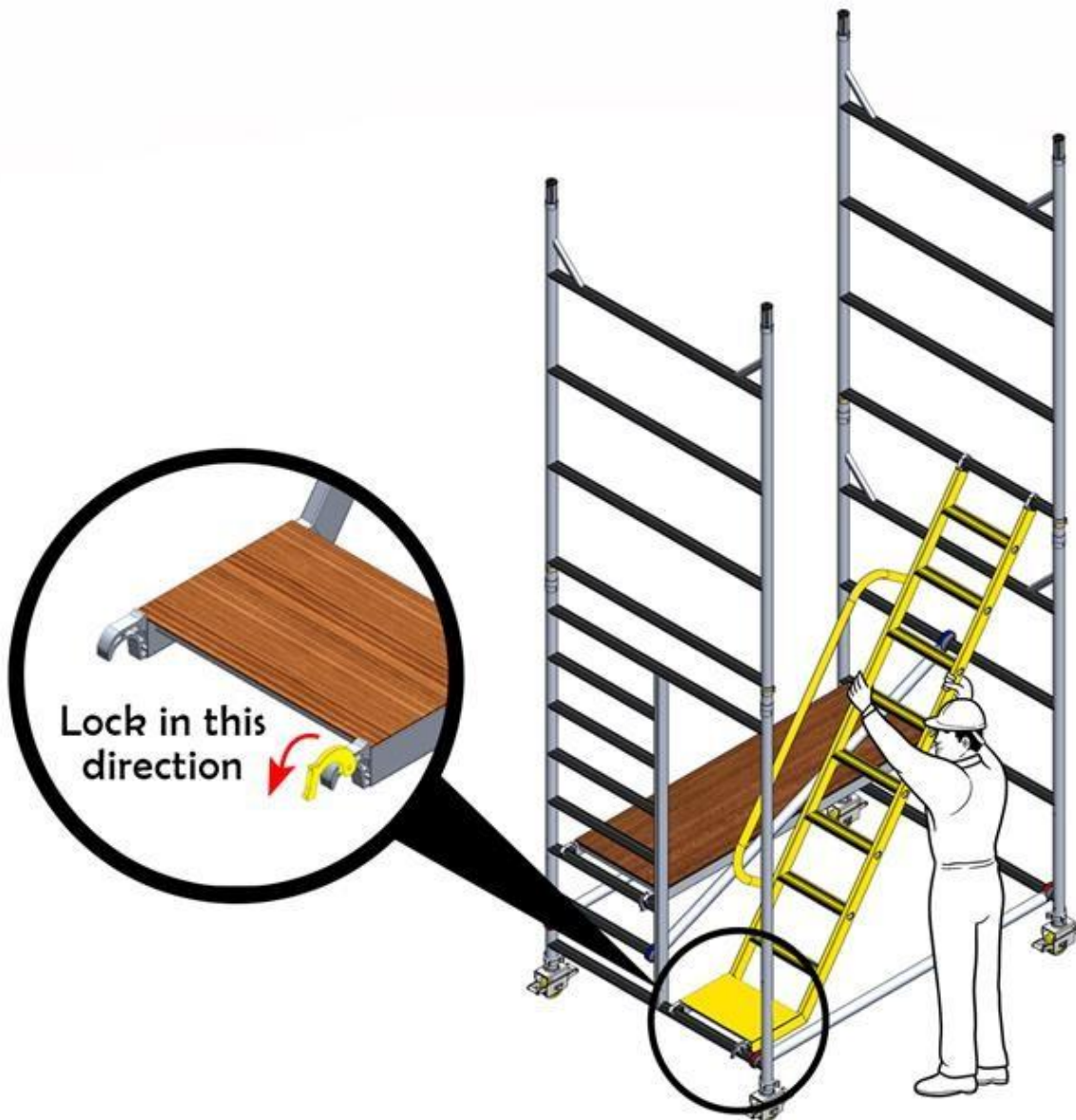


5. Position two 4R span frames on top of the base-level 4R span frame and the entry gate frame, standing on the temporary deck installed in Step 3. Ensure that the frame interlock clips are properly engaged and secured.



2 Building the Tower

6. Place the big stairway on the tower at first rung of the entry gate frame, and fifth rung of the adjacent side. After fitting, lock the big stairway.



Note: Assemble the stairway such that handrail of the stairway lies inside.

2 Building the Tower

7. Install one diagonal brace behind the deck (as shown in the figure) by connecting the first rung of the 4R span frame to the second rung above the entry gate frame, also assemble another diagonal brace in front of the stairway by connecting the first rung of the entry gate frame to the sixth rung of the adjacent frame. Ensure that all bracings are properly locked and secured.



8. Assemble and attach all four stabilisers to the tower as shown in the figure. Ensure each stabiliser is securely fixed and properly positioned to provide maximum stability.



2 Building the Tower

9. Now, install the fixed deck next to the stairway on the same level of stairway. Make sure to lock the locking clips of the deck, see figure below.



2 Building the Tower

10. Next, remove temporary deck assembled in step 4, see figure below.



2 Building the Tower

11. Next, fit two pairs of horizontal bracing as guardrails to the 6th and 7th rungs of frames, See figure below.



2 Building the Tower

12. Assemble the 1R span frames with the 2R span frames to form a sub-assembly. Position this sub-assembly onto the 4R span frames on both sides of the tower, as shown in the figure, and ensure all interlock clips are securely engaged.



2 Building the Tower

13. Now, install second stairway and two diagonal bracing in the same manner as shown in the figure.



2 Building the Tower

14. Now, install fixed deck, hinged deck above the upper stairway and four horizontal bracing, as shown in the figure below. Make sure that when the door of the hinged deck gets opened it should be lies outside the tower, refer to the image below.



2 Building the Tower

15. Now, install the toe-board, as shown in the figure below.



2.6 Dismantling

- To dismantle tower, reverse the sequence.

3 Using the Tower

3.1 Pre-Use Checklist

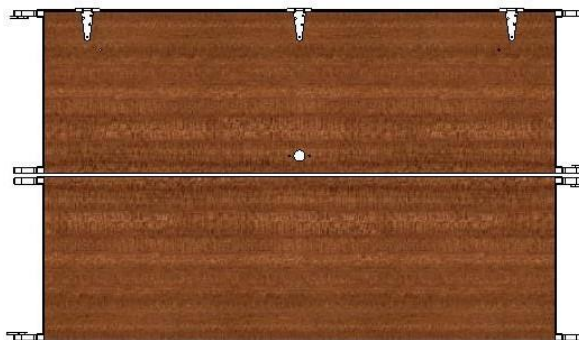
Tower upright and level to within 0.6°	
Caster brakes locked and all wheels in ground contact	
All interlock clips engaged	
Braces/Guardrails correctly positioned	
All claws latched	
All platform wind-locks engaged	
All Stairway wind-locks engaged	
Correct stabilizer size fitted and positioned	
Toeboards fitted to working platform	
Instruction manual available to user	
No environment changes affecting safe use have occurred or are likely	
Tower is the correct height for intended use	

3 Using the Tower

3.2 Use

- This tower must never be used as an anchor point for personal fall arrest equipment.
- Raising and lowering tools and materials must only be conducted within the tower footprint
- Only one platform at a time can be used as a working platform. Toeboards must be fitted to that platform.
- Ensure the safe working load on the structure is not exceeded. The number of people permitted on the tower at any time is limited by the safe working load.
- The safe working loads for the entire platform area are shown below:

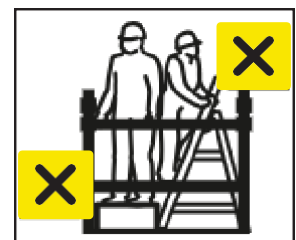
S.W.L = 275kg U.D.L



- If there is any doubt about the safety of the move, the tower must be dismantled and reassembled in the new location.

Do not use boxes, stepladders or other objects to gain extra height.

- Beware of horizontal forces that might cause instability. Maximum horizontal force can be 30kg.



3 Using the Tower

3.3 Movement of the Assembled Prefabricated Tower

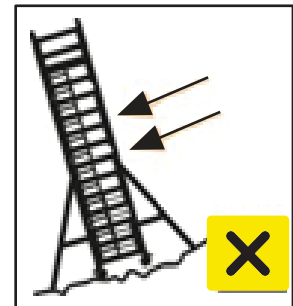


FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO DEATH OR SERIOUS INJURY.

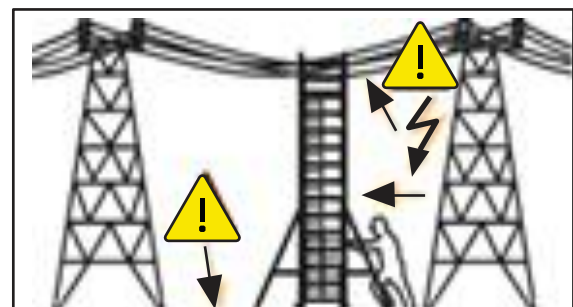
- If there is any doubt about the safety of the move, the tower must be dismantled and reassembled in the new location.
- This tower is not designed to be lifted or suspended.
- Ensure gloves or other suitable hand protection are worn.

Before:

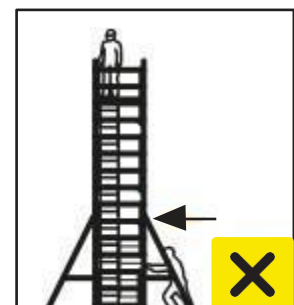
- Beware of rough, sloping ground and high winds. Tower stability is improved by reducing height. Reduce the height of the tower prior to moving in accordance with any applicable and relevant risk assessment, safe system of work or method statement.



- Survey the route to be taken. Assess the ground condition/slope and any overhead obstructions or hazards and wind conditions.



- Ensure there are no persons, tools, or materials on the tower
- Release the Caster brakes.
- Release the stabilizer top clamp to allow the feet to be raised a maximum of 25mm. Tighten the clamp



3 Using the Tower

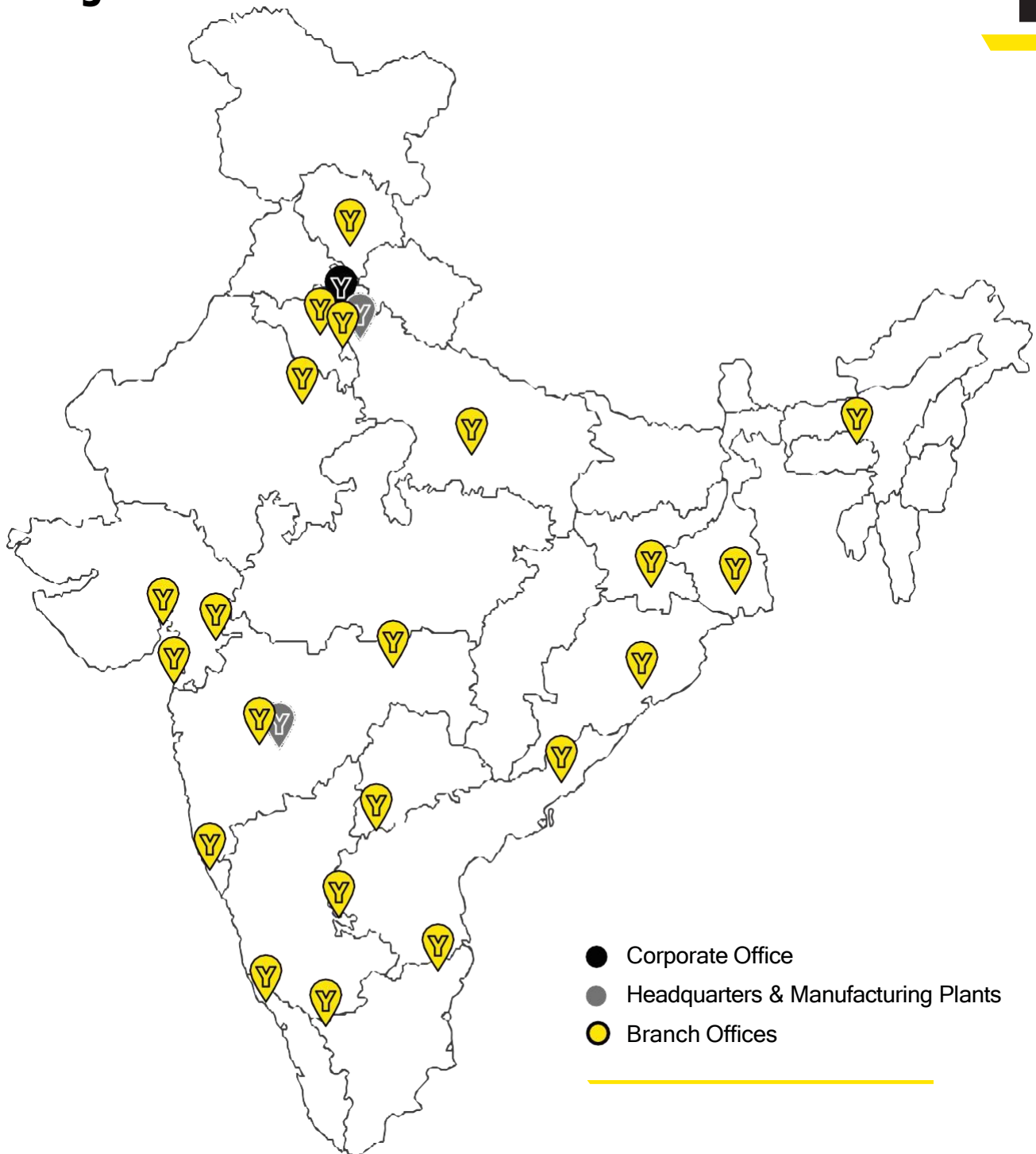
During:

- The tower must be moved only by manual effort, pushing at the base of the tower
- The tower should never be moved faster than normal walking speed.
- Constant attention must be given to the position of the casters, stabilizer feet and the top of the tower.
- If there is any resistance to movement, stop and investigate the reason before continuing.

After:

- As soon as the move is complete; lock the Caster brakes, level the tower, lower the stabilizer feet, and perform the pre-use inspection.

3 Using the Tower



Headquarter & Manufacturing plant Y-Access Manufacturing Pvt. Ltd.

Plot 14 Ecotech 1 Ext Greater Noida, Uttar Pradesh, India, 201310

+91-9015964626 | +91-9205586056 | sales@ymfg.co.in | www.ymfg.co.in