LYTE
LADDERS | TOWERS

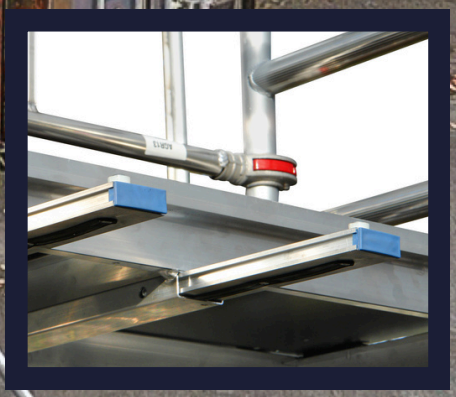
OneLyte Industrial Tower
Instructions for Use

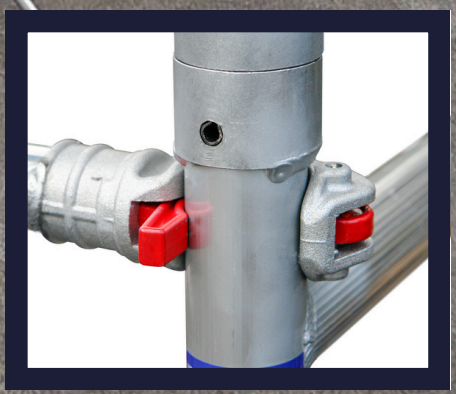












MADE IN BRITAIN®

01792 796 666 sales@lyteladders.co.uk lyteladders.co.uk

OneLyte Industrial Tower Instructions for Use

Please Read This Carefully

OneLyte Industrial Towers are lightweight, mobile scaffold towers for use indoor and outdoor. They are **certified to BSEN1004-1:2020 by BSI**, designation 3 8/12 D H2.

These instructions take into account the latest regulations, guidance and product standards, and is intended to give guidance on the best practice for for the assembly and dismantling of mobile access towers. These instructions should always be used in conjunction with a suitable and sufficient Risk Assessment relative to the project.

NOTE: The maximum safe working load for the tower is **950kg**. This is to include the weight of the tower and the ballast. The maximum capacity of each working level is **275kg**, regardless of the number of decks. The individual decks have a maximum capacity of **275kg**.

These **Instructions for Use** provide a step by step guide to ensure the product is assembled correctly and to the latest standard for use when working at height.

The law requires that anyone assembling and using a tower be competent to do so, and should also have a correct copy of the manufacturer's instructions.

For full information on the correct assembly and use of mobile access towers, consult the **PASMA Operators Code of Conduct** or contact PASMA at info@pasma.co.uk or 0345 230 4041.

Safety Notes

Before Assembly

- Ensure the Instructions for Use have been read and understood by anyone using the equipment.
- Only competent users should build and access the tower.
- Always ensure that the necessary components are available and inspected for damage and wear prior to assembly. **DAMAGED OR INCORRECT COMPONENTS SHALL NOT BE USED**.
- Ensure the ground level is suitably firm and clear of obstruction.
- All tower frames must be lifted and lowered using the extendable hangers underneath the deck to enable one-person assembly, however tools and materials should be lifted in the 3T method within the permitted load and stability limit.
- The life of the tower components will be increased if proper care is taken of them during handling, assembling, transportation and storage. All components should be inspected after storage and transport.
- Stabilisers shall always be fitted.
- Mobile access towers are not designed to be lifted, suspended or fitted with weather sheeting.
- Tie all towers securely where possible
- The location of the mobile access tower shall be checked to prevent hazards during assembly, dismantling, moving and safe working with respect to:
  - Ground conditions
  - Level and slope
  - Obstructions (including electrical hazards)
  - Wind conditions
- All parts, auxiliary tools and safety equipment, for assembling the mobile access tower should be checked and available on site.

OneLyte Industrial Tower Instructions for Use

LADDERS | TOWERS

Whilst Assembling a Tower

- **OneLyte** towers must not exceed a platform height of **6.2m**. To ensure maximum stability is achieved, stabiliser outriggers must be fitted at the first available opportunity, usually after the first module is complete.
- Always take into account the ground conditions e.g. are they capable of withstanding the loads imposed by the tower.
- Ensure the tower is level and vertical.
- Do not overload the tower and ensure that working loads are adhered to.
- The Work at Height Regulations 2005 state that all platforms - from which a person is possible to fall a distance liable to cause personal injury - must be fitted with guardrails at a minimum height of 950mm above the platform itself. In addition to this, current regulations require intermediate guardrails be fitted to leave a gap no more than 470mm.
- Toe boards are mandatory at all places of work from which it is possible that tools, equipment or other material may fall and is liable to cause personal injury. Their use on intermediate or rest platforms is not compulsory unless a risk assessment identifies a risk.

Whilst Using the Tower

- Do not exceed the safe working load of the tower.
- Ensure that castors are locked and that the tower is level.
- Environmental changes must influence safe use of the mobile access tower.
- The platform height of the tower must not be extended using ladders, boxes, or other devices.
- If a tower is left unattended, it must be secured against unauthorised usage or adverse weather conditions
- Adjustable legs are intended only to level the tower and never to gain additional tower height.
- For linking towers or special applications, always consult your supplier.
- Care must be taken when working on the tower as there can be many factors that can contribute to overturning of the mobile access tower, such as:
  - Using power tools, jet washers, or other tools that impose side loads.
  - Horizontal loads cause by use e.g. as a result of work on an adjacent structure.
  - Additional wind loads (tunnelling effect of open-ended buildings, uncladded buildings, and buildings on corners).
  - The maximum side load on a freestanding tower with stabilisers is 20kgs.
- It is not permissible to attach bridging between a tower and a building.
- Never jump onto platforms.
- Towers used outdoors shall, wherever possible, be secured to a building or other structure.
- Mobile access and working towers designed in accordance with EN 1004-1 are not anchor points for personal fall arrest equipment.

The Beaufort Scale

Beaufort Scale	Description	Airspeed	Action
0	Calm, smoke rises easily	1mph	None required
<3	Leaves & small twigs in constant motion, wind extends light flag	12mph	No immediate action required
4	Moderate breeze, small branches move	17mph	Cease work
5	Strong breeze, large branches bend	25mph	Tie tower to rigid structure
>6	Walking progess impeded	40mph	Dismantle tower if such conditions are expected

OneLyte Industrial Tower Instructions for Use

LYTE LADDERS | TOWERS

Before Moving the Tower

- Towers should only be moved with the utmost caution. Before moving, ensure the route is clear of any obstructions, both at ground level and overhead (particularly overhead cables).
- **Never** attempt to move a tower with people or materials still on it.
- Ensure the tower height is reduced to **4m** when stabilisers are in the correct positions; Reduce tower to **2m** when stabilisers are in the incorrect position before moving.
- Stabilisers should be left fitted in position, though raised no more than **25mm** from the ground.
- Move the tower only by applying manual effort, pushing at the base of the tower.
  NEVER MOVE A TOWER IF WIND LEVELS ARE ABOVE 3 ON THE BEAUFORT SCALE.

After Moving the Tower

- **Always inspect the tower after moving and before use.**
- **Ensure the tower is square and level with use of a spirit level.**
- **Always refer to the instructions in this guide.**
- **Never throw equipment from the tower, you must lower it with rope or by hand.**

Stabilisers

- Stabilisers or outriggers shall always be fitted to the **OneLyte** tower.
- When fitting stabilisers ensure they are as low as possible whilst providing the largest available footprint.
- Fit the longer stabiliser leg to the frame, tighten enough so it won't detach but can still be adjusted. Loosely attached shorter stabiliser leg to the frame, underneath the longer leg.
- Remove the locking pin on the telescopic leg of the stabiliser and extend the inner tube to the desired length, then secure the locking pin in place.
- Adjust top and bottom stabiliser leg height placements ensuring the stabiliser foot is in firm contact with the ground. Once these are in the correct position, fully tighten. If you need to reposition the stabilisers always loosen top and bottom clamps.
- Ensure that clamps are loosened before the tower is moved. Failure to do so could result in damage.

Assembly Checklist

Always inspect components before assembling the tower. Any damaged components should not be used, refer to supplier or scrap depending on damage. The following checks must be completed directly after the tower has been built and before each consecutive use:

- ☐ Always inspect tower before use
- ☐ The tower is upright and square
- ☐ Castors are locked
- ☐ Legs are correctly adjusted
- ☐ All horizontal braces and platforms are level
- ☐ Stabilisers are fitted as specified
- ☐ Platforms are correctly located and anti-lift locks are on
- ☐ All guardrails are in place
- ☐ Toe boards are correctly fitted
- ☐ The structure assembly is correct and complete
- ☐ Environmental changes have been noted and have influenced the safe use of the tower
- ☐ The height of the platform has **NOT** been extended by use of ladders, boxes or other devices

Always refer to this checklist before and after assembly of the tower.
If in doubt about any application, consult your supplier for advice.
REMEMBER: A thorough risk assessment must be carried out prior to any work being carried out at height.

OneLyte Industrial Tower Instructions for Use

Using Your OneLyte Tower Correctly

✅ **Do:**

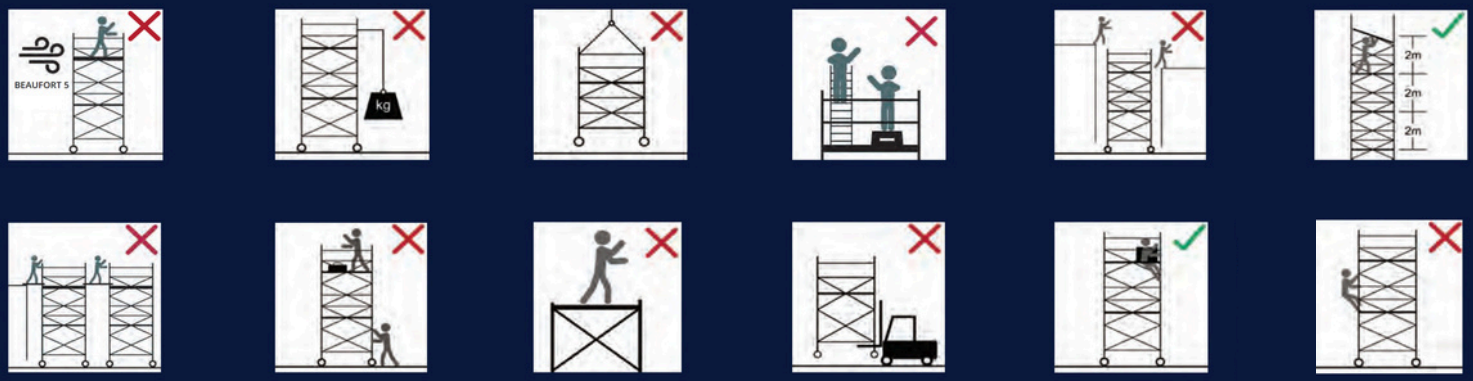
- Ensure that all safety requirements are met.
- Ensure that the mobile access tower is the most applicable access solution for the task at hand.
- Read and understand this guide before assembling and using the **OneLyte**.
- Ensure the tower is being assembled and dismantled by a qualified, physically able, and competent person.
- Block off the work area with a radius that is one metre greater than the total assembled height of the tower.
- Wear the correct personal protective equipment for the task being performed. Gloves, a hard hat, stee toe-cap boots, and appropriate clothing must be worn by all users.
- Perform a risk assessment before assembling or using the tower and abide by your findings.
- Tie back long hair and remove loose items of jewellery.
- Prevent access to unauthorised persons if you have no other option but to leave the tower unattended. If this is not possible, then the tower must be dismantled.
- Make sure tools and materials required for the assembly and use of the tower are made available on-site.
- Always abide by risk assessment if tools and / or materials are hoisted to the platform via a rope.
- Access platforms from within the tower and via the 4-rung frames positioned at the platform's trapdoor end.
- When climbing the tower, keep your feet in the middle of the rungs and grip the upper rungs securely with your hands.
- Erect the tower on a smooth surface, capable of supporting the weight of the tower and the user.
- Follow the instructions in this assembly guide.
- Remove persons and loose materials from the tower before attempting to move it.
- Select the correct platform height in relation to the required working height.
- Use your tower as per **PASMA** guidance and **UK Regulations**.

❌**Don't:**

- Use the tower if you do not understand an element of this guide. Contact the Lyte team for advice.
- Assemble, use, or move the tower if you are tired, unwell, or under the influence of drugs or alcohol.
- Use the tower in adverse weather conditions or wind conditions of Beaufort Scale 5 or above.
- Assemble or use the tower near overhead hazards that are in reach of the tower or user.
- Ascend or descend the tower if both hands are not free.
- Use the tower if contaminated by chemicals or paint.
- Add banners or notice boards to the tower, or suspend weights from the tower.
- Overload the platforms or exceed the 275kg limit on a working platform (including **maximum of 2 people**).
- Suspend the tower from another structure or lift the tower with mechanical machinery.
- Stand on the toe boards, guardrails or boxes to gain extra height.
- Lean from the tower or apply undue side force.
- Use more than one working platform in the tower.
- Climb on the outside of the tower.
- Use damaged components in your tower assembly.
- Use the tower as a means to enter or exit another structure, or as edge protection.
- Use as a bridge between other towers or structures.
- Move the tower with people or materials on it.
- Stand on an unguarded platform.
- Exceed a distance of 2m between platforms, except for the first platform which can be 3.4m from the ground.

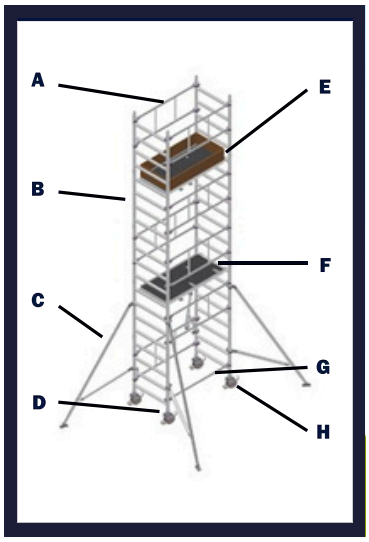
OneLyte Industrial Tower Instructions for Use

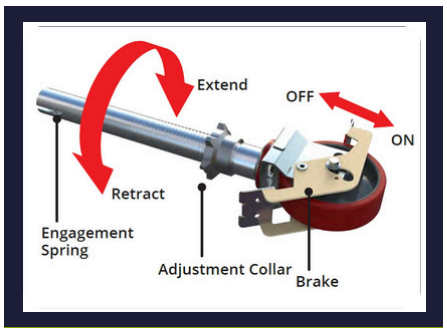
Mobile Access Tower Safety

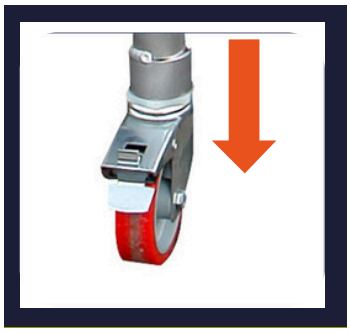


OneLyte Industrial Tower Components

A - AGR Frame
B - 4 Rung Frame
C - Stabiliser
D - Adjustable Leg
E - Toe Board Set
F - Hatch Deck
G - Horizontal Brace
H - Castor







The **Adjustable Leg and Castor** allows the user to accurately position their tower. The leg can also be retracted or extended to level the tower (check with a spirit level horizontal and vertical alignment **within 1%**). The brake must be applied (pointing downward) to prevent movement.

CODE	COMPONETS	WEIGHT KG	1.2m PLATFOR	2.2m PLATFOR	3.2m PLATFOR	4.2m PLATFOR	5.2m PLATFOR	6.2m PLATFOR
ALU	ADJUSTABLE LEG	1kg	4	4	4	4	4	4
DLC	DUAL LOCKING CASTOR	3.5kg	4	4	4	4	4	4
HB13R	1.3 HORIZONTAL BRACE	1.5kg	1	1	1	1	1	1
STGRF/ALU	4 RUNG FRAME	4kg	4	6	8	10	12	14
AGR13	GUARD RAIL FRAME	3kg	3	4	6	7	9	10
TSU	TELESCOPIC STABILISERS	8kg	4	4	4	4	4	4
HD13	HATCH DECK	10kg	1	1	2	2	3	3
TBL13/SW	TOE BOARD SET	3kg	1	1	1	1	1	1

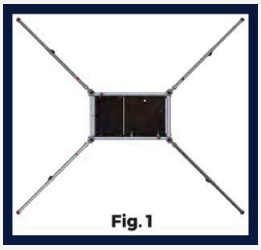
OneLyte Industrial Tower Instructions for Use

Getting Started



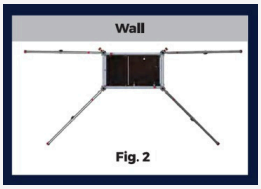
The **OneLyte Tower** requires only one person to assemble and dismantle it. Your **OneLyte** is supplied with uniform 1m high rung frames which can be used at any stage of the assembly. During erection, the frames may be connected to create 2m high frames which makes assembly both quicker and easier.

Positioning of Stabilisers



Attachable stabilisers are supplied and must be used for all **OneLyte Tower** heights. For maximum effect, arrange the stabilisers by positioning them at an angle of 45 degrees to give a footprint as close to square as possible, as shown in Fig.1.

If the tower is to be positioned against a wall, the stabiliser footprint can be changed as shown in Fig.2. This can only occur when the height of the wall is a minimum of two-thirds the height of the top working platform.



Ensure that all four stabilisers' feet are in contact with the ground and that the ground can support the weight of the **OneLyte Tower** and its load.

Moving Your Tower

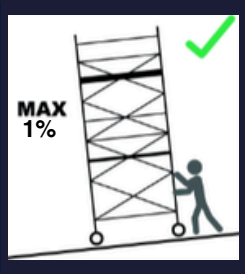
If the task at hand requires you to move your tower a small distance, this can be achieved as long as the stabilisers can remain in pattern. All tools, materials and users must be removed from the tower.

Assess the route of travel, avoiding overhead obstacles such as power lines before moving your tower.

You will need to raise the stabilisers so that they are no more than 25mm above the floor and properly locked. However, if the stabiliser has to be repositioned and this reduces the footprint, your tower must be reduced in height to 2m.

You must only move the tower by manual effort, at a slow pace and only after fully assessing the risk. Once moved, always check the tower before using it, ensuring it is level within the inclination of 1% before using it.









Your tower is only to be moved on flat, obstacle-free solid ground. If the tower is to be moved to a new location, a new ground level, or over rough terrain, it must be fully dismantled and rebuilt once it has been moved to the new location.

Damaged Components

Regularly inspect all **OneLyte Tower** components for damage. Damaged components must be quarantined so that they cannot be used. When safe to do so, the component can be repaired but only by a qualified repairer. If in doubt, contact your **OneLyte Tower** supplier for advice.

OneLyte Industrial Tower Instructions for Use

Preparation

The floor area **must** be clear of any obstructions including materials and debris. Check that you have all the components necessary to construct the **OneLyte Tower** height needed for the task at hand.

Check each component for condition and correct function. If any part is missing or damaged, it must be replaced before assembly begins.

3T (Through The Trapdoor) system

The 3T method of construction has been developed to reduce the risk of an erector falling from a tower during construction.

The erector **must** sit on the platform with legs through the hatch and feet on the frame rungs when attaching the guardrail brace panels above the platform. This ensures the erector is always protected by a set of guardrail brace panels.

Assembly Guide

These instructions **must** always be made available to the tower user. If replacement copies are required, please contact your supplier, or download them from *www.lyteladders.co.uk*.

Tying In

You should consider tying in your tower to add stability, but this may only be done by a suitably trained person.

Ballast

Where shown in the component list, ballast **must** be used to stabilise against overturning. Only use solid materials as a ballast (i.e. no loose materials) and position to avoid overloading individuals components. Ballast should be supported by the base of your tower and securely fastened to prevent removal.

Dismantling the Tower

The tower is easily dismantled by reversing the tower erection procedure. Make sure that the components hangers are evening loaded to ensure your tower remains balanced. You must, however, be protected by guardrail brace panels when standing on any platform and ensure that you use the 3T method when removing guardrail brace panels.

Do not climb on the outside of the tower whilst dismantling it. Only climb through the tower during the dismantling process.





After Assembly

After the OneLyte Tower has been assembled, the following information must be displayed on the access tower and should be clearly visible from the ground.

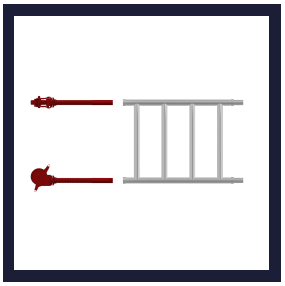
- The date of assembly
- If the tower is ready for application or not.
- The load class and Uniformly Distributed Load
- If the access tower is intended for indoor use only.
- The name and contact details of the responsible person.

OneLyte Industrial Tower Instructions for Use

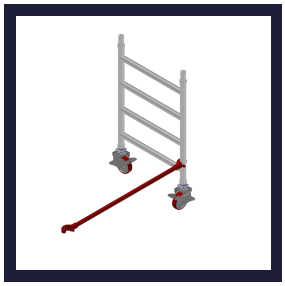
LYTE LADDERS | TOWERS

Stage 1: Base Build - Applies to All Heights of Tower

STEP 1: Insert adjustable legs with castor assembly into the 4 rung frames used for the base level.



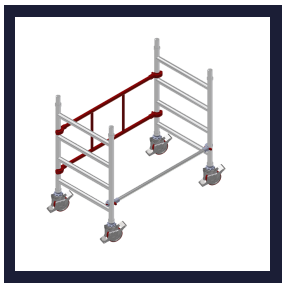
STEP 2: Attach one horizontal brace (red spring-loaded claw) to the first rung of the end frame facing down (frame will now be self-supporting).



STEP 3: Position other frame as shown. Connect the other end of the horizontal brace to the end frame bottom rung.



STEP 4: Attach the guard rail frame with the lower claw positioned above the 1st rung and with the claws facing outwards.



STEP 5: Lock all four castors and using a spirit level square and level the base adjusting the legs accordingly.

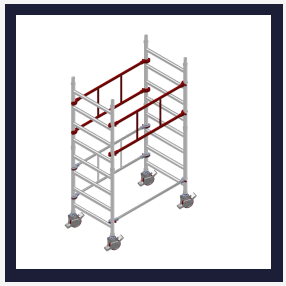


Stage 2: First Level Build - Applies to 1.2m, 3.2m and 5.2m Towers

STEP 6: Fit another frame on each of the ends and secure with the frame clips, this will give a 2m section.



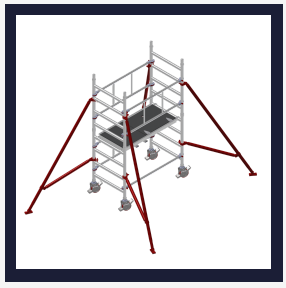
STEP 7: Attach the guard rail frames above the 6th and 8th rung with the claws facing out.



STEP 8: Locate the Hatch Deck on the 4 rung on both sides securing the wind clips into position.



STEP 9: Fit the stabilisers to each corner. Position the lower horizontal arm to just above the 2nd rung and secure with the clamp. Secure the top stabiliser to just above the 6th rung and secure, adjust the stabilisers so they create a square and then adjust the length stabiliser length so they are touching the ground.



OneLyte Industrial Tower Instructions for Use

Stage 3: Final Build

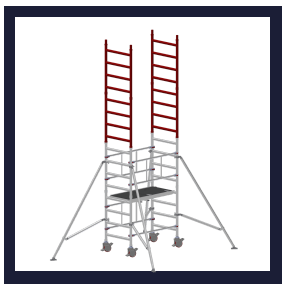
1.2m Tower

STEP 10: Enter the tower from the inside and climb through the hatch deck, take the toe board from the hanger and unfold so they sit around the outer edge of the platform, now the tower is ready for use.



3.2m Tower

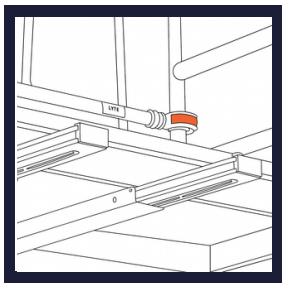
STEP 10: Construct 2 sets of joined frames Enter the tower and climb using the 3T method. Lift end frames and locate on the end frames securing in position with the frame clips.



STEP 11: Locate the next hatch deck on the 12th rung and secure the wind clips.



STEP 12: Locate 1 guard frame on the 9th and 11th rung with claws facing out.
Extend the hangers located on the side of the hatch deck. Descend the tower and transfer the guard rails and toe board so they hang from the hatch deck hangers.



STEP 13: Enter the tower and climb using the 3T method until you are halfway thought the trap door. Manoeuvre and sit on the deck with legs through the trapdoor and in contact with the rungs below. From this position take the guard rails from the hanger and place above the 12th and 14th rung with claws facing out on and secure both in position.



STEP 14: With both guard rails in position you can now fully climb on to the deck, take the toe board from the hanger and unfold so the sit around the outer edge of the deck, now the tower is ready for use.



OneLyte Industrial Tower Instructions for Use

Stage 3: Final Build

5.2m Tower

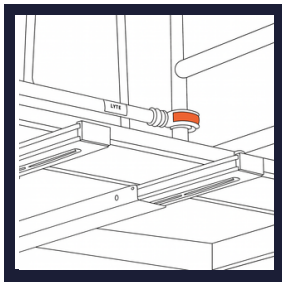
STEP 10: Construct 2 sets of joined frames Enter the tower and climb using the 3T method. Lift end frames and locate on the end frames securing in position with the frame clips.



STEP 11: Locate the next hatch deck on the 12th rung and secure the wind clips.



STEP 12: Locate guard frames on the 9th and 11th rung with claws facing out.
Extend the hangers located on the side of the hatch deck. Descend the tower and from the transfer the guard rails and toe board so they hang from the deck hangers.



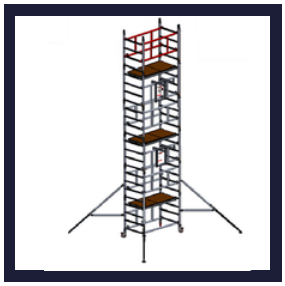
STEP 13: Enter the tower and climb using the 3T method until you are halfway thought the trapdoor. Manoeuvre and sit on the platform with legs through the trap door and in contact with the rungs below. From this position take the guard rails from the hanger and place above the 12th and 14th rung with claws facing out on and secure both in position.



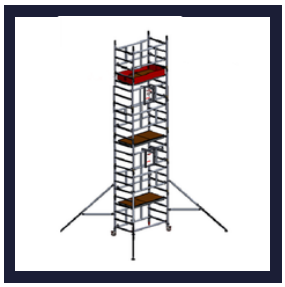
STEP 14: Descend the tower. Construct 2 sets of conjoined end frames. Extend the hangers located on the side of the hatch deck. Transfer the end frames to the deck hangers on one side, and the next deck to the other side deck hangers. Enter the tower and climb using the 3T method. Fit both sets of the conjoined frames to each of the end sections locking the frame into position with the frame clips.



STEP 15: Locate the next deck on the 20th rung and secure the wind clips.
Climb using the 3T method in STEP 13. From this position take the guard rails from the deck hanger and secure the top of the guard rail above the 22nd and 24th rung.



STEP 16: With both guard rails in position you can now fully climb on to the platform, take the toe board from the deck hanger and unfold so the sit around the outer edge of the deck, now the tower is ready for use.



OneLyte Industrial Tower Instructions for Use

Stage 2: First Level Build - Applies to 2.2m, 4.2m and 6.2m Towers

STEP 6: Fit two sets of joined end frames together and secure with the frame clips, this will give two 2m sections allowing for a quicker assembly process.
Fit a set of the joined frames to each of the base sections locking the frame into position with the frame clips.



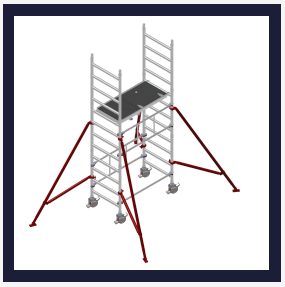
STEP 7: On the opposite side to the first guard rail attach a new guard rail frame above the 5th and 7th rung with the claws facing out.



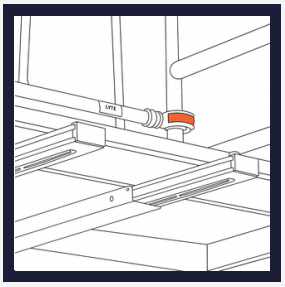
STEP 8: Stand on the inside of the tower and fit the hatch deck to the 8th rung making sure the wind clips are secured.



STEP 9: Fit the stabilisers to each corner. Position the lower horizontal arm to just above the 2nd rung and secure with the clamp. Secure the top stabiliser to just above the 6th rung and secure, adjust the stabilisers so they create a square and then adjust the length stabiliser length so they are touching the ground.



STEP 10: Extend the hangers located on the side of the hatch deck. Transfer the guard rails and toe boards so they hang from the deck hangers.



STEP 11: Enter the tower and climb using the 3T method until you are halfway thought the trapdoor. Manoeuvre and sit on the platform with legs through the trap door and in contact with the rungs below. From this position take the guard rails from the hanger and place above the 10th and 12th rung with claws facing out on and secure both in position.



OneLyte Industrial Tower Instructions for Use

Stage 3: Final Build

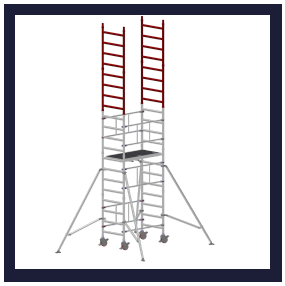
2.2m Tower

STEP 12: With both guard rails in position you can now fully climb on to the deck, take the toe board from the hanger and unfold so the sit around the outer edge of the deck, now the tower is ready for use.

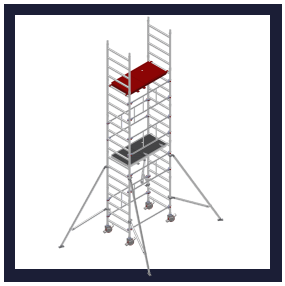


4.2m Tower

STEP 12: Descend the tower. Construct 2 sets of conjoined end frames. Extend the hangers located on the side of the hatch deck. Transfer the end frames to the deck hangers on one side, and the next deck to the other side deck hangers. Enter the tower and climb using the 3T method. Fit both sets of the conjoined frames to each of the end sections locking the frame into position with the frame clips.



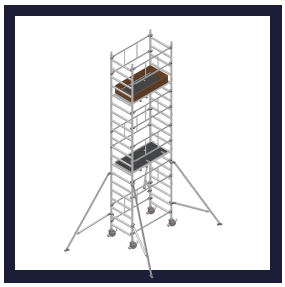
STEP 13: Secure the deck on the 16th rung making sure the wind clips are secured. Extend the hangers located on the side of the hatch deck. Transfer the guard rails and toe board set to the new deck hangers.



STEP 14: Climb using the 3T method used in STEP 11. From this position take the guard rails from the hanger and secure the top of the guard rail above the 18th and the 20th rung.



STEP 15: With both guard rails in position you can now fully climb on to the platform, take the toe board from the hanger and unfold so the sit around the outer edge of the platform, now the tower is ready for use.

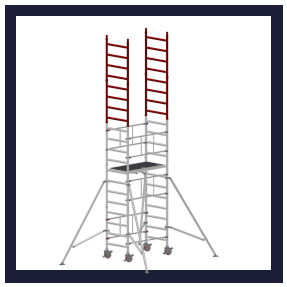


OneLyte Industrial Tower Instructions for Use

Stage 3: Final Build

6.2m Tower

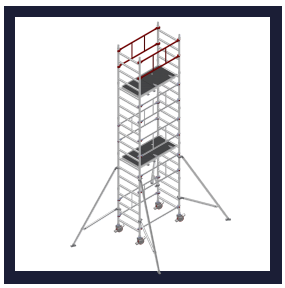
STEP 12: Descend the tower. Construct 2 sets of conjoined end frames. Extend the hangers located on the side of the hatch deck. Transfer the end frames to the deck hangers on one side, and the platform to the other side deck hangers. Enter the tower and climb using the 3T method. Fit both sets of the conjoined frames to each of the end sections locking the frame into position with the frame clips.



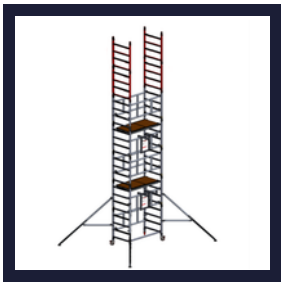
STEP 13: Secure the platform on the 16th rung making sure the wind clips are secured. Extend the hangers located on the side of the hatch deck. Transfer the guard rails and toe board set to the new platform hangers.



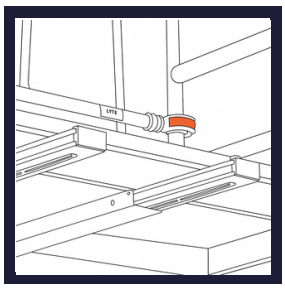
STEP 14: Climb using the 3T method used in STEP 11. From this position take the guard rails from the hanger and secure the top of the guard rail above the 18th and the 20th rung.



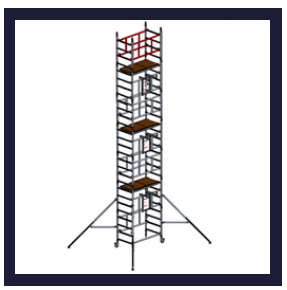
STEP 15: Descend the tower. Construct 2 sets of conjoined end frames. Extend the hangers located on the side of the hatch deck. Transfer the end frames to the deck hangers on one side, and the platform to the other side deck hangers. Enter the tower and climb using the 3T method. Fit both sets of the conjoined frames to each of the end sections locking the frame into position with the frame clips.



STEP 16: Secure the deck on the 24th rung making sure the wind clips are secured. Extend the hangers located on the side of the hatch deck. Transfer the guard rails and toe board set to the new platform hangers.



STEP 17: Climb using the 3T method in STEP 11. From this position take the guard rails from the hanger and secure the top of the guard rail above the 26th and 28th rung.



STEP 18: With both guard rails in position you can now fully climb on to the platform, take the toe board from the hanger and unfold so the sit around the outer edge of the platform, now the tower is ready for use.

