LYTESTAIRLYTEUSERGUIDE

Lyte Ladders and Towers Limited

LYTE
LADDERS | TOWERS

Stairlyte Tower

STAIRLYTE INDUSTRIAL TOWER

The maximum safe working load for the tower is 950kg.
This is to include the tower self weight and ballast.

All our user guides are compiled in order to give the user step by step instructions to ensure the product is assembled correctly and to the latest safety 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 copy of the correct manufacturer's instructions.

If you require further information on this call us on ***01792 796666***.

www.lyteladders.co.uk

'Have you been trained to use this product?' We offer Ladder Association and PASMA courses.
For more information please contact us at ***training@lyteladders.co.uk*** or ***01792 765968.***

PLEASE READ THIS SECTION CAREFULLY

The Stairlyte is a lightweight scaffold tower and is used for indoor and outdoor use.
The Stairlyte is manufactured and tested to BS EN 1004, BS 1139-6 Standard.
These instructions take into account the latest regulations, guidance and all product standards and is intended to give guidance on the best practice for the assembly and dismantling of access towers. These instructions must always be used in conjunction with a suitable and sufficient Risk Assessment relative to the project. Current regulations require that any person assembling towers must be competent and qualified to do so. For full information on the correct assembly and use of mobile access towers, consult the PASMA Operators Code of Practice (Revision 12.6). Contact: PASMA at: Head Office & Administration Centre, PO Box 26969, Glasgow G3 9DR.

Safety Notes

This instruction guide aims to provide the user with step by step instructions to ensure the product is assembled safely and correctly using the 3T method, Through The Trap. This method allows the operative to position themselves through the trap of the platform and place horizontal braces ahead of them so that collective fall prevention measures are in place before they stand on the platform.

Before assembly

Ensure that the instruction guide has been read and understood by anyone using the equipment. If in doubt contact your supplier.

1. Lyte Ladders & Towers recommend two competent persons are used to build the range of Lyte Towers. On towers above 4mtrs it is an ESSENTIAL requirement that at least two persons are used.
2. 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.
3. Ensure the ground is suitably firm and clear of obstruction.
4. All tower frames must be lifted and lowered from the inside of the tower footprint. It is acceptable to lift frames with the aid of a rope, secured with a reliable knot.
5. The life of tower components will be increased if proper care is taken of them during handling, assembly, transportation and storage. All components should be inspected after storage and transport.
6. Stabilisers shall always be fitted at the earliest opportunity.
7. Mobile access towers are not designed to be lifted or suspended.
8. The location of the mobile access tower shall be checked to prevent hazards during assembly, dismantling, moving and safe working with respect to:
   a) Ground conditions;
   b) Level and slope;
   c) Obstructions;
   d) Wind conditions.
9. All parts, auxiliary tools and safety equipment (ropes, etc.), for assembling the mobile access tower should be checked and available on site.

Whilst assembling a tower

1. Outdoor freestanding Tower must not exceed a platform height of 6.1M. Please use stabilisers, ties or Buttress. These must be secured at the earliest opportunity. The quantity schedule overleaf illustrates the correct stabiliser units required for each platform height.
2. Always take into account the ground conditions i.e. are they capable of withstanding the loads imposed by the scaffolding.
3. Ensure the tower is level and vertical.
4. Ensure that the tower is not overloaded and that safe working loads are adhered to.
5. The Work at Height Regulations 2005 state that all platforms – from which a person or object 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.
6. 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

1. Do not exceed the safe working load of the tower.
2. Ensure that castors are locked and that the Tower is both level and vertical.
3. Ensure that environmental changes influence safe use of the mobile access tower.
4. The platform height of the tower must not be extended using ladders, boxes or other devices.
5. If a tower is left unattended, it must be secured against unauthorised usage or adverse weather conditions.
6. Adjustable legs are intended only to level the tower and never to gain additional tower height.
7. For linking towers or special applications, always consult your supplier.
8. 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 caused by use; for example, as a result of work on an adjacent structure;
    - Additional wind loads (tunnelling effect of open-ended buildings, uncladded buildings and on building corners).

The maximum side load on a freestanding tower with stabilisers is 20Kgs.

9. It is not permissible to attach bridging between a tower and a building.
10. Never jump onto platforms.
11. Towers used outdoors shall, wherever possible, be secured to a building or other structure.

Beaufort Scale	Description	Air Speed	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 a rigid structure
>6	Walking progress impeded	40mph	Dismantle tower if such conditions are expected

Stabilisers

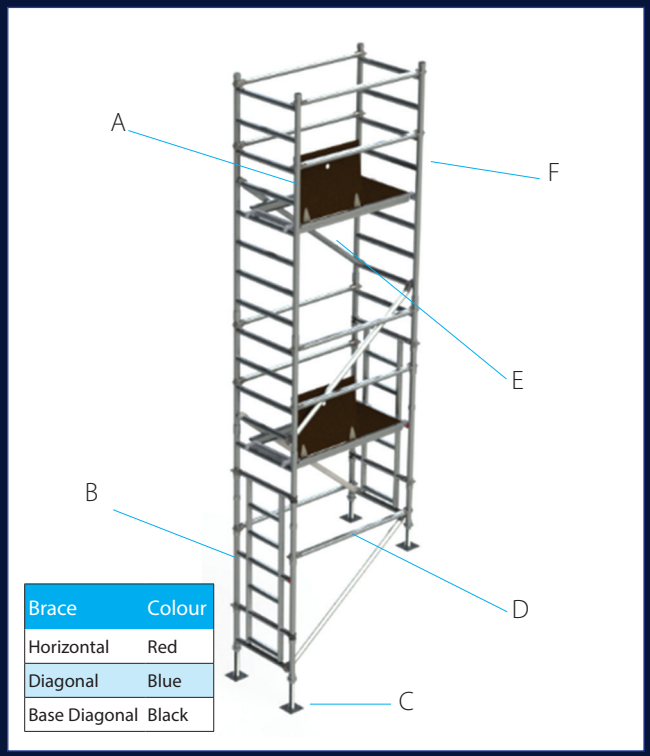
STABILISERS OR OUTRIGGERS SHALL ALWAYS BE FITTED WHEN SPECIFIED.

- When fitting stabilisers ensure they're as low as possible while providing the largest available footprint.
- Fit top boom to the frame, tighten enough so it won't detach but can still be adjusted.
- Now fit the bottom boom similar to the top one.
- Adjust top and bottom booms ensuring the stabiliser foot is in firm contact with the ground.
- For telescopic stabilisers, remove locking pin and extend the inner tube to desired length then secure the locking pin in place. It can now be fitted in the same manner as the standard stabiliser.

Maximum Safe Working Loads

The maximum safe working load for the tower is 950kg.
This is to include the tower self weight and 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.

Code	Description	2.2m - 1.2m	3.2m - 2.2m	4.2m - 3.2m	5.2m - 4.2m	6.2m - 5.2m
ALU	Adjustable Leg Unit	4	4	4	4	4
Base Plates	Swivel Base Plates	4	4	4	4	4
STGF	Gate Stair Frame	2	2	2	2	2
STGRF/ALU	1.0m 4 Rung Single Width Frame	1	1	1	1	1
STSF/8/ALU	2.0m 8 Rung Single Width Frame	0	1	2	3	4
HB13R	1.3m Horizontal Brace	6	6	10	10	14
DB16B	1.64m Diagonal Brace	1	2	3	4	5
DBR17B	1.7m Base Diagonal Brace	1	1	1	1	1
HD13	1.3m Hatch Deck	1	1	2	2	3
TBL13/ALU/SW	Stairlyte Alloy Toeboard	1	1	1	1	1
TSU	Telescopic Stabiliser Unit	-	2	2	2	2



Brace	Colour
Horizontal	Red
Diagonal	Blue
Base Diagonal	Black

A - Hatch Deck
B - Gate Frame
C - Base Plates
D - Horizontal Brace
E - Diagonal Brace
F - 4 + 8 Rung Span Frames

Assembly Checklist

1. Always inspect components before assembling the tower. Any damaged components should not be used, refer to supplier or scrap depending on the damage. ☐
2. Always inspect the tower before using. ☐
3. Ensure that the tower is level and square. ☐
4. Ensure base plates are fitted correctly and are in contact with the ground. ☐
5. Ensure legs are correctly adjusted. ☐
6. Ensure all horizontal braces and platforms are positioned as per assembly guide. ☐
7. Ensure stabilisers are fitted as specified in the instruction manual. ☐
8. Ensure platforms are correctly located and wind locks are on. ☐
9. Ensure Toeboards are correctly fitted as described in the instruction manual. ☐

Always refer to this checklist before and after erection of the tower.

If in doubt about any application consult your supplier for advice.

PLEASE REMEMBER:
A thorough risk assessment must be carried out prior to any work being carried out at height.

3m Tower Build

1: Attach base plates to the bottom of both gate frames

2: Ensure both gate frames are locked in place before moving forward...

3: Attach the 1st horizontal brace with red trigger to the upright above the bottom rung of the top gate frame. Fit to the collars of the adjacent frame and repeat with second brace

4: Attach 1 diagonal brace with blue trigger to the bottom rungs of each gate frame. At this point, ensure the tower is level with the use of a spirit level

5: Attach an 8 rung span frame to the bottom frame

6: Attach a 4 rung span frame to the top frame and a diagonal brace with black trigger from the 1st rung of the top frame to the 9th rung of the bottom frame

7: Attach a diagonal brace with blue trigger from the 9th rung of the bottom frame to the 9th rung of the top frame. Attach the platform to the 8th rung of the top frame and the 12th rung of the bottom frame. Ensure the platform is secure and level and then lock the wind clips. If using stabilisers fit at this point, if not tie or buttress to the stairwell

8: Using the 3T method of assembly, attach two horizontal braces with red triggers at 2nd and 4th rungs above the platform. Fit toeboards and give tower final inspection before use

*If you have any questions or need help assembling your tower please call us on **01792 796666***

4m Tower Build

1: Attach base plates to the bottom of both gate frames

2: Ensure both gate frames are locked in place before moving forward...

3: Attach the 1st horizontal brace with red trigger to the upright above the bottom rung of the top gate frame. Fit to the collars of the adjacent frame and repeat with second brace

4: Attach 1 diagonal brace with blue trigger to the bottom rungs of each gate frame. At this point, ensure the tower is level with the use of a spirit level

5: Attach a 4 rung span frame to the bottom gate frame

6: Place platform at the 8th rung of the bottom gate frame and 4th rung of the top gate frame. Ensure windclips are locked. Attach base diagonal with black trigger from the bottom rung of the top gate frame to the 9th rung of the bottom gate frame. If using stabilisers fit at this point, if not tie or buttress to the stairwell

7: Using the 3T method attach horizontal braces with red trigger, 2 at the 2nd rung above the platform and 2 at the 4th one above the platform. Attach a 4 rung span frame to the top frame and a diagonal brace from the 1st rung of the top frame to the 9th rung of the bottom frame

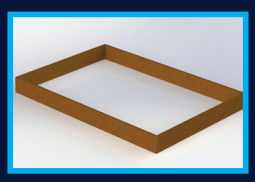
8: Fit 2 8 rung span frames as shown in illustration

9: Attach diagonal brace with blue trigger from 9th rung of the bottom frame to the 9th rung of the top frame. Attach a second diagonal brace with blue trigger from the 9th rung of the top frame to the 17th rung on the bottom frame

10: Place platform at the 16th rung of the bottom frame and the 12th rung of the top frame. Using the 3T method attach horizontal braces with red triggers to the 2nd and 4th rung above the platforms. Fit folding toeboards and give tower final inspection before use

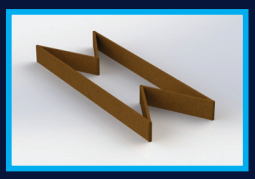
Toeboard Fitting

1: Deployed



2: Folded

Toeboards fitted as illustrated



When fitting stabilisers ensure telescopic leg is adjusted to correct length. Attach top boom but leave loose enough to allow adjustment. Now attach bottom boom, again leave loose enough for adjustment. Ensure stabiliser is providing maximum footprint and firmly in contact with the ground. Once this is achieved tighten up top and bottom booms.

If stabilisers can't be fitted it is recommended that the tower be tied in or made secure by the use of buttressing.
For more information please contact manufacturer.

LYTE

LADDERS | TOWERS

www.lyteladders.co.uk

STAIRLYT/AG/MAR22/ISSUE1