

EURO TOWERS LTD

UK Manufacturer of Aluminium Access Equipment

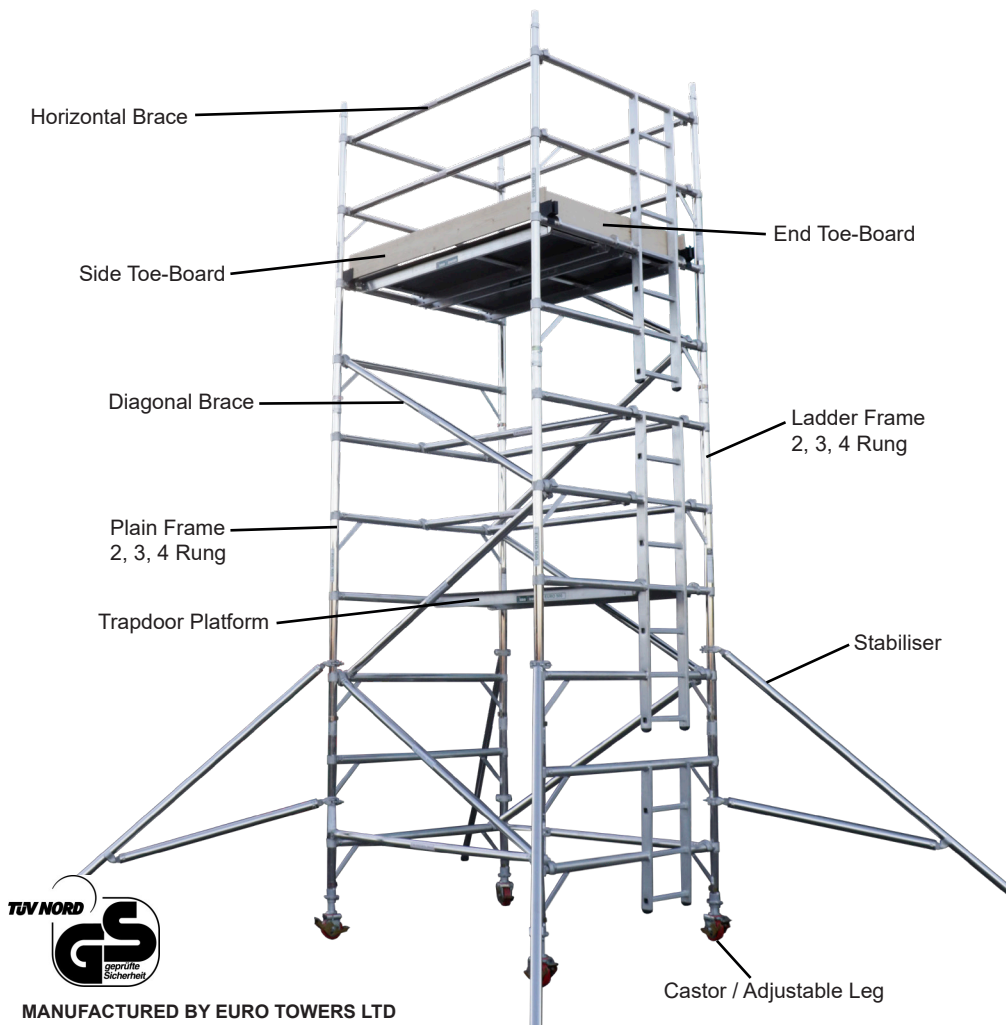
ALEGRO DOUBLE WIDTH TOWER 3T - THROUGH THE TRAPDOOR METHOD

TUV CERTIFIED QUALITY SYSTEM
TO ISO 9001:2015

GS PRODUCT APPROVAL TO
BS.EN.1004 3 8/12 XXXD

INSTRUCTIONS FOR USE TO BE
FOLLOWED CAREFULLY

TOWER MAX SAFE WORKING LOAD 750KG | PLATFORM MAX SAFE WORKING LOAD 250KG



MANUFACTURED BY EURO TOWERS LTD

For more information or any questions please contact Euro Towers LTD

Phone: 01604 644 774 Email: enquiries@eurotowers.co.uk Web: www.eurotowers.co.uk

Address: Euro Towers LTD, Unit 5 Edgemoad Close, Round Spinney, Northampton, NN3 8RG

GENERAL SAFETY RULES

Before You Start

1. Familiarise yourself with these instructions paying attention to these safety notes before you use the equipment supplied.
Towers may only be assembled and dismantled by a COMPETENT person familiar with these instructions.
2. User training courses cannot be a substitute for instruction manuals but only compliment them.
3. This product shall only be used according to the instruction manual.
4. Only original Euro Towers components specified in this manual shall be used.
5. It is recommended that this user manual be used in conjunction with a suitable risk assessment and method statement relative to the project.
6. This instruction manual shall be available to the USER at ALL times. Erection, alteration or dismantle of the tower should not be attempted unless the manual is present.
7. This mobile access and working tower shall only be used according to this manual without any modification.
8. Mobile access and working towers shall only be used in accordance with national regulations.
9. You will require the following PPE and Tools to help avoid personal injury, Hard Hat, Safety Gloves, Safety Shoes/Boots, Hi Vis vest/jacket and spirit level.
10. As part of your risk assessment do not begin to erect, move or dismantle your tower in excessive weather conditions including heavy rain, sleet or snow that can affect your anti slip surfaces. Also avoid working in extreme heat and high winds.
11. Ensure you selected the correct platform height tower in relation to the desired working height (usually 2m) to avoid over-reaching and other unsafe practices.
12. Inspect all individual components before use to ensure quantity, compatibility, any damages and all parts function correctly. Damaged or incorrect components shall NOT be used.
13. Check the quantity of components supplied corresponds correctly to the kitting list of the tower height you are planning to build. Do not start assembly if you do not have the correct number of components. Do not use any tower that has missing or damaged parts or has not been properly assembled.
14. Erect an exclusion zone and place warning signs if applicable to your location of work.
15. It is recommended that a minimum of two person erect, alter and dismantle a tower but during the risk assessment additional person(s) may be required to perform the task safely.

Inspection, Maintenance and transport

16. Regularly inspect the individual components to ensure that they are not damaged and function properly. Damaged components shall be isolated, tagged and removed from use. They should be replaced and sent for repair or scrap.
17. Inspect all tube on frames, stabilisers and braces for dents, cuts and holes, damaged equipment should be isolated, tagged and removed from use. Check all joints for cracked welds and that they are secure.
18. Inspect Brace Hooks, check the clicker is functioning correctly and the hook is not distorted from abuse. Check the brace is not bent/dented.
19. Inspect Platform for damage to the decking and fixings and that (if fitted) trapdoor open and close freely and the hinge is secure. Check the aluminium framework for damage and for cracked welds that may be damaged due to overloading. Check the hooks are not distorted from abuse and the wind lock clips are attached and functioning properly.
20. Inspect Stabiliser couplers can be tightened and loosened freely. Ensure rubber foot is securely fitted and not worn out. Check that adjusting pins on telescopic stabilisers are fitted and secured.
21. Inspect castors, checking that the wheel turns and spins freely, that the brakes engage and stops the castor from spinning. Ensure the castor has no flat spots and has a SWL.
22. Inspect the adjustable leg threads are clear of burrs and the nut runs freely up and down the thread. Check the nut housing for abuse or missing nodules.
23. Light oil or lubricating spray may be used to free up jammed, clickers, castors, adjustable leg nuts, stabiliser couplers, trapdoor hinges and latches.
24. Do not put excessive loads on the components during storage.
25. When transporting the components do not use excessive strapping forces when securing the load, this may distort and damage components if not done with care.

Assembling and Dismantling

26. Check ground conditions are suitable for erecting and moving the tower and the ground can take the loads imposed by the tower including weight of equipment and persons. Do not assemble tower on unstable ground such as drain, manhole covers, compacted fill or any other hazards highlighted during the risk assessment.
27. Check for level and slope of the area where the tower is to be erected, moved and dismantled is within the levelling height of the adjustable legs.
28. Check for obstructions that could prevent erection, moving and dismantling of the tower safely.
29. Check for overhead hazards such as power lines. Do not assemble a tower near uninsulated, live or energised electrical machinery or circuits, or near machinery or plant that is in operation.
30. Ensure the Tower is level. Castor wheels should remain LOCKED unless moving the Tower. Adjustable legs are used for levelling the Tower. NEVER use to gain additional height. Extra height is gained by using additional compatible components. Other items such as ladders, steps, boxes etc should never be used to gain additional height.

GENERAL SAFETY RULES

31. All components should be passed up or down by hand where possible, where this is not possible use a suitable material for lifting (e.g. Heavy corded rope) and sufficient knot ties (e.g. hitch knot or timber hitch) DO NOT use mechanical hoists.
32. Towers MUST always be climbed from the inside for access and egress using the Integrated ladders or designated rungs. NEVER climb the outside of a Tower.
33. Do not lean ladders against a tower or climb the outside. Climb the ladder from the inside as per the supplied access system and use the trapdoor for access and egress.
34. Never climb on Diagonal or Horizontal braces. Never jump on to or off platforms
35. Working is only permitted on a platform with a complete side protection including guardrails and toe boards.
36. After assembly or alteration, the following minimum information shall be displayed on the tower:
 - a. The name and contact details of the person responsible
 - b. If the tower is ready for application or not
 - c. The load class and the uniformly distributed load
 - d. If the mobile access and working tower is intended for indoor use only
 - e. The date of assembly

Safe Use & Loadings

37. Before use, check that all components listed in the kit list have been used in the Tower in the correct position.
38. Care should be taken when using Power Tools or Jet washing or anything specific to your job that could imply side loads and cause the tower to overturn. Maximum permitted side load must not exceed 30kg (300N)
39. When lifting components or materials keep within the base of the Tower. Ensure the total weight of the User(s) any debris, materials being lifted does not exceed the Safe Working Load (SWL) of an individual platform (250kg) or the overall structure (750kg) Loads must be uniformly distributed on the working platform and not block trapdoors.
40. Mobile access and working towers designed in accordance with EN1004-1 are not anchor points for personal fall arrest equipment.
41. Work should only be completed from one Working Platform at any time complete with Guardrails and Toe Boards to prevent persons and materials falling from the tower. Work should not be attempted from any other part of the tower including stairs or braces.
42. The maximum number of person(s) permitted on the working platform at any time should not exceed the SWL (250kg). This should include any tools and or materials
43. You should never stand on an unprotected platform (guardrails must be in place)
44. Consider measures to secure the tower when left unattended.

Stability & Moving

45. Ensure the Tower is 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 brakes or use base plates for static towers or inclined surfaces.
46. Ensure that the scaffold tower is within the maximum platform height as stated and that the appropriate stabilisers are fitted to suit. *Refer to kitting list.
47. A scaffold tower should not be used or moved in wind speeds stronger than 17mph (7.7meters per second) (Beaufort force 4). If wind speeds exceed this, consider tying the tower to a rigid structure or dismantling before it is exposed to the strong winds.
48. Beware of the potential wind factors where there is a possibility for the tunnelling effect of open-ended buildings, unclad building and at the corners of buildings
49. NEVER fit sheets or cladding to a Tower. Such items can act as a sail and impose extreme horizontal load onto a tower causing it to overturn.
50. When moving a tower plan the route, removing any obstructions, ensuring the ground can take the weight of the tower. Beware of soft and uneven ground. Pay attention for overhead hazards and ensure that all materials and persons are removed from the Tower. If there are any doubts about the route, then dismantle and erect in new location.
51. Towers should only be moved manually by pushing at the base of the tower at a usual walking speed. The Tower height should be reduced to 4m if all 4 stabilisers are in place and 2m if less than 4 stabilisers are in place. Stabilisers are raised approximately 25mm clear of the ground and then castors are unlocked and the tower can be moved.
52. When the Tower is repositioned reapply the brakes on castor wheels and the tower shall be levelled using the adjustable legs for both horizontal and vertical alignment. The stabilisers can then be lowered making firm contact with the ground.
53. Towers should NEVER be lifted or suspended by a crane or moved by mechanical means
54. Towers are not designed to be used as a means to enter or exit other structures
55. Towers are not designed to be used as a means of edge protection
56. All towers should be inspected before use.

Further information on inspection and maintenance can be found on Euro Towers inspection posters. For further safety information or downloading instructions call Euro Towers or visit our website. www.eurotowers.co.uk

ALEGRO DOUBLE WIDTH TOWER KIT LIST

Available in three lengths: 2m, 2.5m

PLATFORM HEIGHT	1.2m	1.7m	2.2m	2.7m	3.2m	3.7m	4.2m	4.7m	5.2m	5.7m	
WORKING HEIGHT	3.2m	3.7m	4.2m	4.7m	5.2m	5.7m	6.2m	6.7m	7.2m	7.7m	
OVERALL TOWER HEIGHT											
PARTS LIST											
Castor	4	4	4	4	4	4	4	4	4	4	
Adjustable Leg	4	4	4	4	4	4	4	4	4	4	
2 Rung Plain Frame		1	1			1	1			1	
2 Rung Ladder Frame		1	1			1	1			1	
3 Rung Plain Frame		1		1		1		1		1	
3 Rung Ladder Frame		1		1		1		1		1	
4 Rung Plain Frame	1		1	1	2	1	2	2	3	2	
4 Rung Ladder Frame	1		1	1	2	1	2	2	3	2	
1.8m and 2.5m Plain Platform	1	1	1	1	1	1	1	1	1	1	
1.8m and 2.5m Trap Platform	1	1	1	1**	2	2	2	2*	2*	2*	
1.8m and 2.5m Horizontal Brace	6	6	6	6	10	10	10	10	10	10	
1.8m and 2.5m Diagonal Brace	2	3	3	4	5	6	7	8	9	10	
Standard Stabilizer				4	4	4	4	4	4		
Telescopic Stabilizer										4	
1.8m and 2.5m Toeboard Set	1	1	1	1	1	1	1	1	1	1	
Teal Toeboard Clip	4	4	4	4	4	4	4	4	4	4	
TOWER WEIGHT (KGS)											
TOWER WEIGHT (KGS)	2m	89	97	102	125	152	161	168	174	181	196
	2.5m	101	110	114	137	169	178	185	192	199	208
Temporary Platform*				1**					1 → 5	2 → 10	3 → 11
Total no. of rungs in tower		4	5	6	7	8	9	10	11	12	13

MOVING A TOWER Remove people and materials from the tower, and lower the tower to 4m if all 4 stabilisers are in place. If not then reduce tower height to 2m. Adjust and raise the stabilizers 25mm from the ground, ensure the couplers are tight, and push from at or near the base by manual effort only, never use mechanical means. Recheck level and reposition stabilizers before use.

ALTERNATIVE FRAMES CONFIGURATION: For example where 2 x 4 rung frames are stated making the tower 8 rungs in total, these can be replaced by 1 x 5 rung and 1 x 3 rung, also making 8 rungs in total.

PPE REQUIRED: Hard Hat, Safety Gloves, Safety Boots/Shoes, Hi-Viz Vest/Jacket

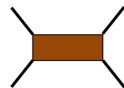
TOOLS REQUIRED: Spirit Level

6.2m 8.2m	6.7m 8.7m	7.2m 9.2m	7.7m 9.7m	8.2m 10.2m	8.7m 10.7m	9.2m 11.2m	9.7m 11.7m	10.2m 12.2m	10.7m 12.7m	11.2m 13.2m	11.7m 13.7m	12.2m 14.2m
4	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4
1			1	1			1	1			1	1
1			1	1			1	1			1	1
	1		1		1		1		1		1	
	1		1		1		1		1		1	
3	3	4	3	4	4	5	4	5	5	6	5	6
3	3	4	3	4	4	5	4	5	5	6	5	6
1	1	1	1	1	1	1	1	1	1	1	1	1
3	3*	3*	3*	4	4*	4*	4*	5	5*	5*	5*	6
14	14	18	14	18	18	18	18	22	22	22	22	26
11	12	13	14	15	16	17	18	19	20	21	22	23
4	4	4	4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4	4	4
Internal use only												
224	231	238	246	274	280	287	296	324	330	337	346	373
247	254	261	270	302	309	316	325	357	364	371	380	413
	1 → 9	2 → 10	3 → 11		1 → 9	2 → 10	3 → 11		1 → 9	2 → 10	3 → 11	
14	15	16	17	18	19	20	21	22	23	24	25	26

STABILIZERS

Stabilizers increase the EFFECTIVE BASE dimensions and improve the STABILITY of the tower. Position the stabilizers symmetrically to obtain the MAXIMUM BASE DIMENSION.

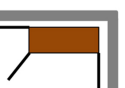
PLATFORM HEIGHTS		MAXIMUM HEIGHT	STABILIZER TYPE
0m	→	2.34m	NONE
2.81m	→	5.13m	STANDARD
5.59m	→	10.23m	TELESCOPIC



Free Standing Tower



Against a Wall



In a Corner

DOUBLE WIDTH LADDER FRAME INSTRUCTION MANUAL FOR ERECTION, ALTERING & DISMANTLING

The tower requires a minimum of 2 people for assembly; do not attempt to assemble a tower by yourself

For a 4.2m build you need to start with a 2 rung frame followed by a 4 rung frame as seen in the step by step instructions above



4 Rung Base Set Up

For Platform Heights:

1.2m; 3.2m; 5.2m; 7.2m; 9.2m; 11.2m



5 Rung Base Set Up

For Platform Heights:

1.7m; 3.7m; 5.7m; 7.7m; 9.7m; 11.7m



7 Rung Base Set Up

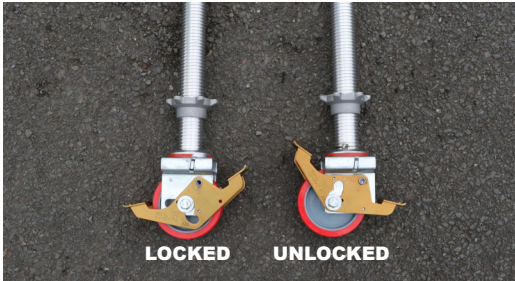
For Platform Heights:
2.7m; 4.7m; 6.7m; 8.7m; 10.7m



1. Insert castor wheels into adjustable legs



2. Insert the castors into the adjustable legs. Insert 2 legs and castors into each 2 rung frame.



3. Lock Brakes and allow 3" thread from bottom of castor for levelling



4. Fit one horizontal brace on the plain side of the frames to the vertical of the frames above the 1st rung connecting the 2 frames together.
(Integral ladder must be on the left hand side)



5. Fit another horizontal brace on the ladder side of the frames face down onto the 1st rung. Note: when standing inside the frames looking at the ladder frame, the ladder should be to the left hand side.



6. Fit the next set of frames onto the base, ladder frames run continuously up the left hand side. Note: see kitting page for frame lists.



7. Add 4 diagonal braces from the 1st to 3rd and 3rd to 5th rungs as shown, level the tower using a spirit level as a guide.



8. Fit the 4 stabilizers supplied with your tower. Note: Always fit 4 stabilizers unless building in a corner, inner stabilizers fit parallel to a wall. See kit list for correct size required to build your tower.



9. Fit a trapdoor platform to the 4th rung, trapdoor to the ladder end. Note: Platforms are positioned every 4 rungs.



10. Climb the ladder inside the tower and sitting through the trapdoor fit 4 horizontal braces face down onto the 1st and 2nd rung above the platform to form your guardrails, as shown.



11. Standing on the platform, add a set of 4 rung frames, ladders run in a continuous pattern.



12. Add diagonal braces continuing the pattern from the previously fitted braces. Note: The odd diagonal brace is fitted to the side nearest the ladder. Repeat steps until working height is achieved.



13. Fit the plain platform followed by the trapdoor platform 4 rungs above the one you are standing on. Note: There must always be 2 rungs clear above any platform so you can fit safe guardrail braces.



14. Climb the ladder inside the tower and sitting through the trapdoor fit 4 horizontal braces face down onto the 1st and 2nd rung above the platforms to form your guardrails as shown.



15. Fit the toeboard clips to the rung next to the corners of the platforms and then fit the toeboards as shown. Note: Any gap between the platform board and toeboard must not exceed 25mm.

DISMANTLE TOWER IN REVERSE EXCEPT WHEN DISMANTLING THE HANDRAILS



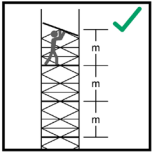
Unclip 4 x Horizontal braces from the far end of the trapdoor platform.



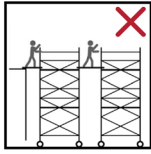
From a seated position remove 4 x guardrails making sure you never stand on an unprotected platform.



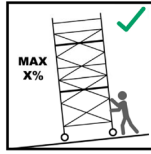
From a seated position descend down the tower to the next platform or ground. Ensure you always have collective protection around you when standing on any platform.



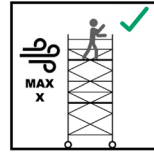
Maximum distance between platforms shall not exceed 2.25m except the distance to the first platform max 3.40m



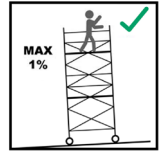
Do not bridge between towers or other structures. Please contact Euro Towers for information on the correct equipment for Bridging Towers



Maximum inclination for **movement**. Note the maximum angle allowed is defined by the manufacturer



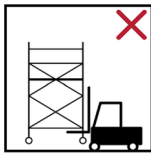
Do not build, dismantle or attempt to work on an access tower if the wind speed exceeds 17MPH



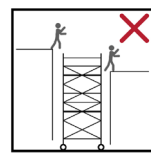
Maximum inclination for **movement**. Note the maximum angle allowed is defined by the manufacturer



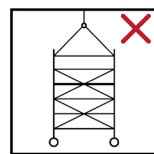
Do not stand on an unguarded platform



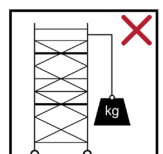
Do not lift the tower with mechanical equipment



Do not use the tower for access and egress to other structures



Do not suspend the tower



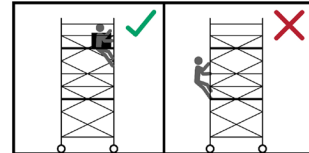
Do not lift heavy objects from the tower



Do not move the tower with people or materials on it



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



Do not climb the outside of the tower

