

# EURO TOWERS LTD

UK Manufacturer of Aluminium Access Equipment

## STAIR ACCESS TOWER

Manufactured By Euro Towers Ltd

Certified to BS 1139-6:2022 Load Class 3 Wind Class 1 up to 8.4m. Instruction Manual EN 1004-2-en

Prefabricated tower scaffolds towers may only be assembled and dismantled by persons familiar with these instructions

**MAX SAFE WORKING LOAD FOR PLATFORM 250KG | STRUCTURE 750KG**

MAXIMUM IMPOSED POINT (LEG) LOADS PER LEG 400Kg



For more information or any questions please contact Euro Towers LTD

Phone: 01604 644 774 Email: [enquiries@eurotowers.co.uk](mailto:enquiries@eurotowers.co.uk) Web: [www.eurotowers.co.uk](http://www.eurotowers.co.uk)

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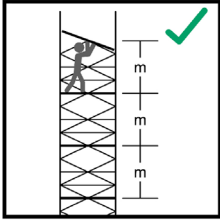
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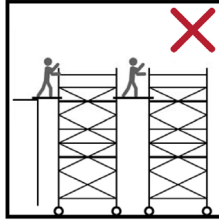
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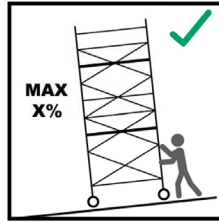
# SAFETY DO'S AND DONT'S



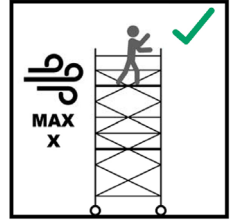
Platforms shall be installed with vertical distances between them not exceeding 2.1 m when assembling and dismantling except the distance to the first platform max 3.40m



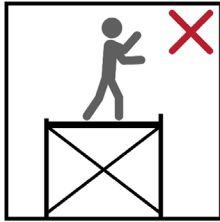
Do not bridge between towers or other structures Please contact Euro Towers for information on the correct equipment for Bridging Towers



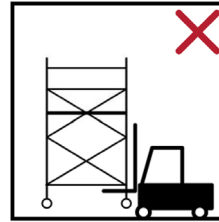
Maximum inclination for **movement**. Note the maximum angle allowed is 1%.



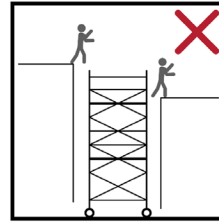
Do not build, dismantle or attempt to work on an access tower if the wind speed exceeds 17MPH



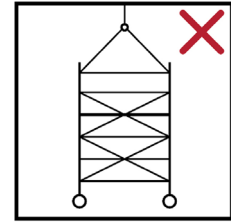
Do not stand on an unguarded platform



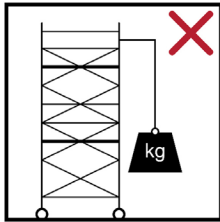
Do not lift the tower with mechanical equipment



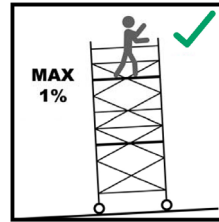
Do not use the tower for access and egress to other structures



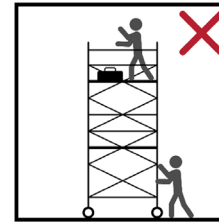
Do not suspend the tower



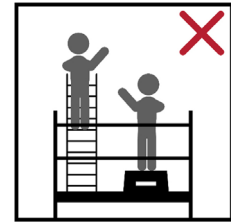
Do not lift heavy objects from the tower



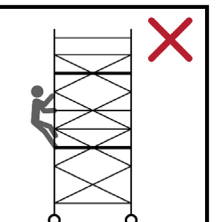
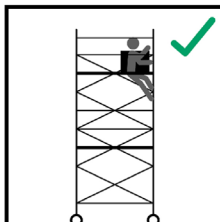
Maximum inclination for working. Note the maximum angle allowed is defined by the manufacturer.



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

# GENERAL SAFETY RULES

**Prefabricated tower scaffolds are for the purpose of working at height safely.**

## **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 complement them. Although training is not a specific legal requirement, it is one of the most recognised methods of proving competency.
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 information shall be available at the location of use of the prefabricated tower scaffold.
7. This prefabricated tower scaffold shall only be used according to this information.
8. Prefabricated tower scaffolds shall only be used in accordance with national regulations
9. You will require the following PPE to help avoid personal injury, Hard Hat, Safety Gloves, Safety Shoes and Hi Vis vest or jacket
10. Tools required for safe erection of a tower are: Spirit level.
11. As part of your risk assessment, do not begin to erect, move or dismantle your tower in excessive weather conditions including heavy rain, sleet/snow or weather that can affect your anti slip surfaces. Also avoid working in extreme heat and high winds. When working outdoors, the weather forecast shall be taken into account before assembly, use and dismantling.
12. 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.
13. 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.
14. 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.
15. Erect an exclusion zone and place warning signs if applicable to your location of work.
16. 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, Care, Maintenance and transport**

17. 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.
18. Inspect all tubes 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.
19. Inspect Brace Hooks, check the clicker is functioning correctly and the hook is not distorted from abuse. Check the brace is not bent out of shape.
20. Inspect Platform for damage to the decking and fixings and that (if fitted) the trapdoor opens and closes 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.
21. Inspect Stabiliser couplers tighten and can be loosened freely. Ensure rubber foot is securely fitted and not worn out. Check for adjusting pins on telescopic stabilisers are fitted and secured
22. 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 suitable SWL and is correctly marked.
23. 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.
24. Light oil or lubricating spray may be used to free up jammed, clickers, castors, adjustable leg nuts, stabiliser couplers, trap door hinges and latches.
25. Do not put excessive loads on the components during storage.
26. 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.
27. 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
28. Ensure the 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.
29. Check for obstructions that could prevent safe erection, moving and dismantling of the tower.
30. Ensure the Tower is level. Castor wheels should always 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 or boxes should never be used to gain additional height.
31. 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.
32. 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.
33. 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.
34. 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.

35. Never climb on Diagonal or Horizontal braces. Never jump on to or off platforms
36. Working is only permitted on a platform with a complete side protection including guardrails and toe boards
37. After assembly or alteration, the following minimum information should be displayed on the prefabricated tower scaffold and be clearly visible from the ground (e.g. on a tag):
  - a) The name and contact details of the responsible person.
  - b) If the tower is ready for application or not.
  - c) The load class and the uniformly distributed load.
  - d) If the prefabricated tower scaffold is intended for indoors use only.
  - e) The date of assembly.
  - f) The maximum number of simultaneous working platforms permitted.
  - g) The maximum number of persons permitted on the working platform(s) during use.
  - h) The maximum number of persons permitted on the tower during assembly and dismantling.
  - i) The maximum number of persons permitted on any one platform.
  - j) The maximum safe working load on working platforms.
  - k) The maximum safe working load on the prefabricated tower scaffold.
  - l) The load class of the prefabricated tower scaffold.
  - m) The maximum horizontal force permitted at the working platform(s).
  - n) The maximum wind limits for working on the prefabricated tower scaffold.
  - o) The maximum wind limits for the prefabricated tower scaffold

#### **Safe Use & Loadings**

38. Before use, check that all components listed in the kit list have been used in the Tower in the correct position. Then repeat all checks if the tower has been moved, modified, left unattended or the environment changes.
39. 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)
40. When lifting components or materials keep within the base of the Tower. Ensure the total weight of the User(s) any debris or 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.
41. Prefabricated tower scaffolds designed in accordance with BS 1139-6 are not anchor points for personal fall arrest equipment.
42. 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.
43. 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
44. You should never stand on an unprotected platform (guardrails must be in place)
45. Consider measures to avoid unauthorised access or tampering when the tower is left unattended.

#### **Stability & Moving**

48. Ensure the Tower is always level and the legs are engaged. Check that you have taken all necessary precautions to prevent the Tower being moved or rolling away. Always use base plates for stair towers.
49. 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
50. A scaffold tower should not be used or moved in wind speeds stronger than 17mph (7.7meters per second) (Beaufort force 4). Wind speeds in excess of this consider tying the tower to a rigid structure or dismantling before it is exposed to the strong winds.
51. Beware of the potential wind factors where there is a possibility for the tunnelling effect of open-ended buildings, unclad buildings and at the corners of buildings
52. NEVER fit sheets or cladding to a Tower. Such items can act as a sail and impose extreme horizontal loads onto a tower causing it to overturn.
53. Stair towers should never be moved. To move your tower fully dismantle and then assembled in the desired location.
54. Prefabricated tower scaffolds in accordance to BS 1139-6 should NEVER be lifted or suspended by a crane or moved by mechanical means
55. Prefabricated tower scaffolds in accordance to BS 1139-6 are not designed to be used as a means to enter or exit other structures, e.g. as a stair tower.
56. Prefabricated tower scaffolds in accordance to BS 1139-6 are not designed to be used as a means of edge protection

#### **Permissible loads and persons on the structure**

- The MAXIMUM number of persons on the Tower Structure during assembly and dismantling is THREE.  
 The MAXIMUM number of simultaneous working platforms is ONE.  
 The MAXIMUM number of persons allowed on a Work Platform is TWO.  
 The MAXIMUM number of persons allowed on a Rest Platform is TWO.

Use of prefabricated scaffold towers for access to adjacent structures: This is not suitable for this application. Contact us for more help with this.

In the event that an alteration to the prefabricated tower scaffold design is required, approval from the supplier and/or designer shall be obtained and a revised instruction manual or assembly, user and dismantling plan created.

**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](http://www.eurotowers.co.uk)**

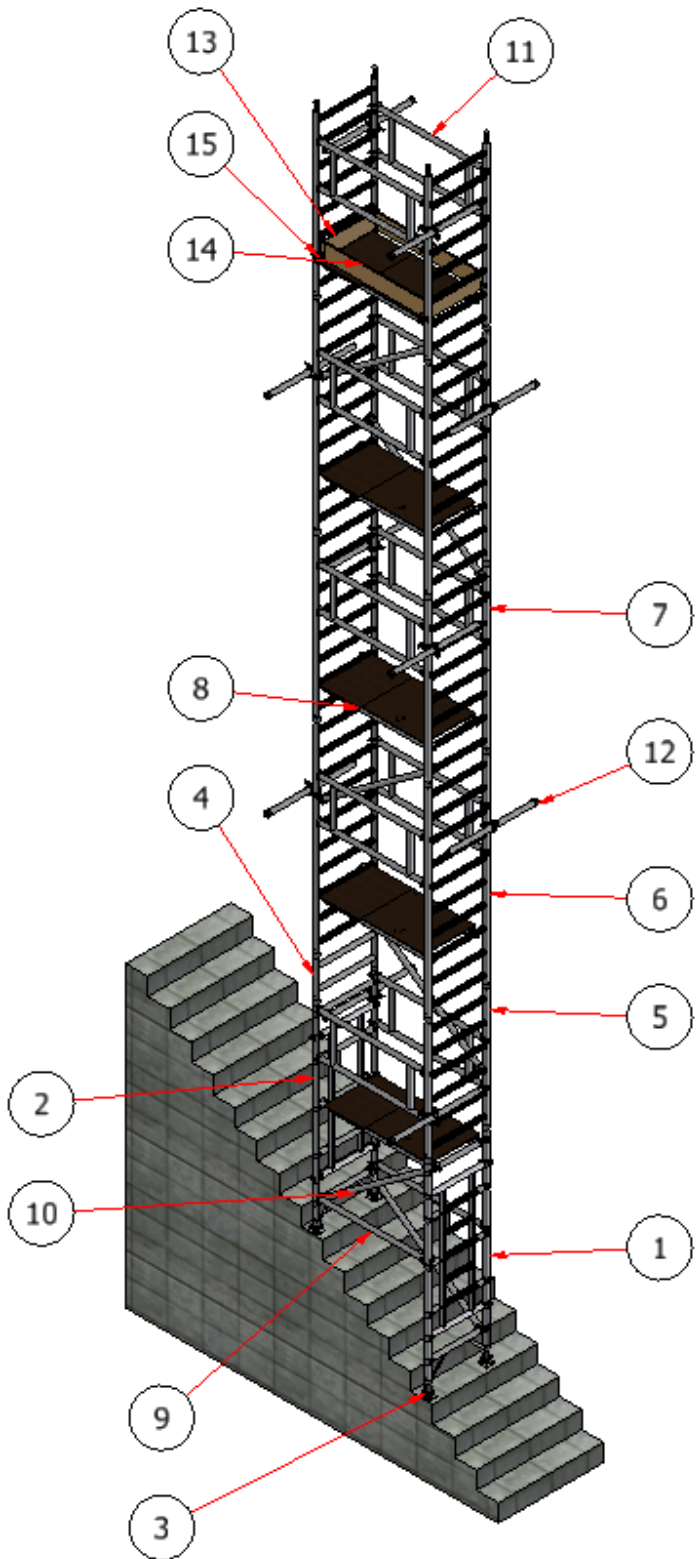
# KIT LIST

		Propped Only				
	Weights (kg)	2.2m	4.2m	6.3m	8.4m	10.5m *
<b>SWAL</b> - Leg & Base Plate	1.3	4	4	4	4	4
<b>PKT4</b> - Trap Platform	10.9	1	2	3	4	5
<b>SPPF-232</b> - Plain Portal Frame	12.1	1	1	1	1	1
<b>SPLF-232</b> - Ladder Portal Frame	13	1	1	1	1	1
<b>FKS1/2</b> - 2 Rung 232 Frame	2.2	1	1	1	1	1
<b>FKS3/6</b> - 6 Rung 232 Frame	5.5	1	1	1	1	1
<b>FKS4/8</b> - 8 Rung 232 Frame	6.4	0	0	2	2	4
<b>FKS5/10</b> - 10 Rung 232 Frame	7.8	0	2	2	4	4
<b>SASF</b> - Side Guardrail Frame	4.1	2	4	6	8	10
<b>BKH4</b> - Horizontal Brace	1.8	2	2	2	2	2
<b>BKD4</b> - Diagonal Brace	2	2	3	4	5	6
Toe-Board Assembly**	1	1	1	1	1	1
<b>SWSP</b> - Side Prop	1.5	2	4	6	8	10
<b>Y250</b> - Telescopic Stabiliser ***	4.02	4	4	4		
Weight With Props <b>KG</b>		68.7	108.4	145.3	185	221.9
Weight With Stabilisers <b>KG</b>		81.78	118.48	152.38		

\*Indoor Use Only

\*\* Toe-board assembly can either be wooden or aluminium folding

\*\*\* Stabiliser option if propping cannot be achieved



- 1 - SPLF-232
- 2 - SPPF-232
- 3 - SWAL
- 4 - FKS1/2
- 5 - FKS3/6
- 6 - FKS5/10
- 7 - FKS4/8
- 8 - PKT4
- 9 - BKH4
- 10 - BKD4
- 11 - SASF
- 12 - SWSP
- 13 - TKSU/B\*
- 14 - TKL4/B\*
- 15 - RTBC\*

\* Can also be a folding toe-board set

# ASSEMBLY STEPS

## How to fit a side prop



## How to fit a brace



## How to remove a brace



## How to fit a stabiliser coupler



For levelling purposes only, the legs can be adjusted by turning the leg nut as shown.





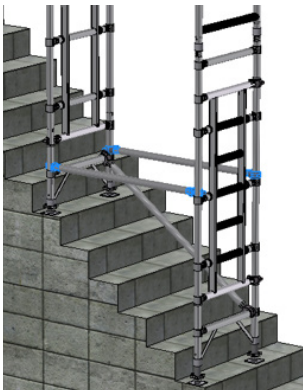
1) Insert 2 adjustable legs into each of the portal frames



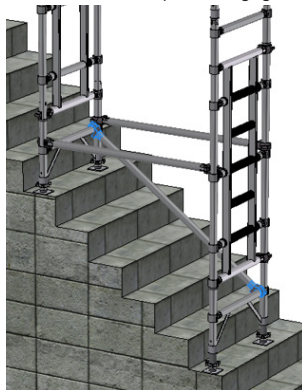
2) Insert a 6 rung SW 232 frame into the 232 gated portal ladder frame and a 2 rung SW 232 frame into the 232 gated portal plain frame. Ensure interlock clips are engaged.



3) Position the plain portal at the top of your stairs then fit the horizontal braces above the 1st rung. The gates should be positioned to open outwards.



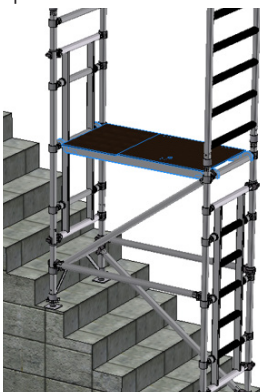
4) Position the ladder portal at the bottom of your stairs and connect the horizontal braces above the 3rd rung. Level the tower by adjusting the legs. The gates should be positioned to open outwards.



5) Fit diagonal brace from bottom rung of ladder portal frame to bottom rung of plain portal frame, on the left hand side. Then level your tower.



6) Fit another diagonal from the bottom rung of the plain portal frame to the top rung of ladder portal frame on the right hand side.



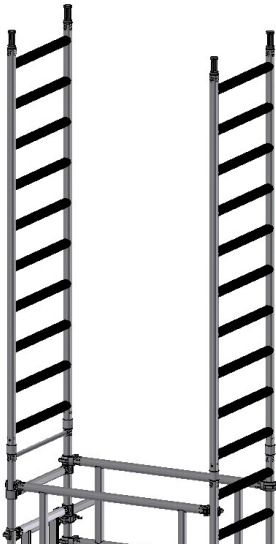
7) Fit a platform to the 3rd rung of the plain portal frame, trapdoor at the ladder frame side.  
**Check the gate is locked and secure before climbing your tower. Ensure when climbing your feet do not make contact with the klicker.**



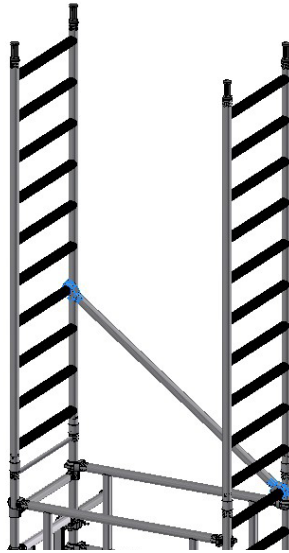
8) Sitting through the platform, fit 2 guardrail frames, one either side or 4 Horizontal braces 2 either side with hooks facing out.  
*Ensure hooks are fully engaged.*



9) Using the method on page 6, fit a side prop to the top of each frame, one either end of the tower above the 3rd rung down. To complete your build go to step 21. If you would like to build higher continue to step 10.



10) Fit a additional frames and engage the interlock clips.



11) Fit a diagonal brace from the top rung of the frame below.



12) Fit a trap platform to the 7th rung down from the top when installing on a FKS5/10.



13) Sitting through the platform, fit 2 guardrail frames, one either side or 4 Horizontal braces 2 either side with hooks facing out.

*Ensure hooks are fully engaged.*



14) Fit 2 side props every 2m, one either end of the tower. If you cannot fit side props, stabilizers shall be fitted to all 4 corners of the tower. They shall be fitted to create the largest footprint possible.



15) Fit a additional frames and engage the interlock clips.



16) Fit a diagonal brace ensuring the top hook lands on the bottom rung of the frame above.



17) Fit a trapdoor platform to the 6th rung down from the top when installing on a FKS4/8. Then from a 3T position install 2 guardrail frames.



18) Fit a side prop to the top of each frame above the 3rd rung down, one either end of the tower.



19) To continue building repeat steps 15-18 until you reach your desired tower size.



20) Then fit your toe-boards. This can either be a folding toe-board or the blank lengths with clips depending on which kit you choose.



**Dismantling is the reverse of assembly.**

