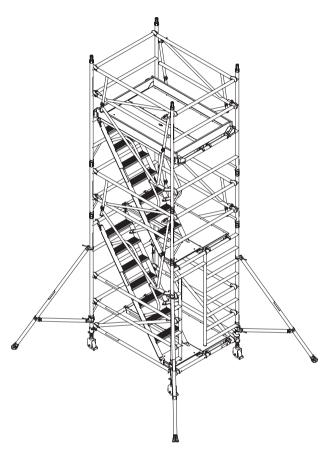


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Staircase AGR

BoSS Camlock Advance Guardrail Mobile Aluminium Tower 1450 Frames

> Instruction Manual EN 1004-2 en

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BoSS Staircase AGR Instruction Manual

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1 Safety First

1.1 Introduction

Please read this instruction manual carefully.

This instruction manual shall be available at the location of use of this mobile access tower. Instruction manuals are also available to download at www.bossaccesstowers.com.



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 Werner UK Sales & Distribution Limited for advice.

Please note that diagrams are for illustrative purposes only.

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

BoSS mobile aluminium 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.

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Verification and assessment documentation is held by Werner UK Sales & Distribution Limited.

Compliances



The BoSS Staircase AGR mobile tower system has been designed, tested, approved and certified to EN 1004-1:2020.

This instruction manual is in compliance with EN 1004-2-en.

1 Safety First

1.2 Tower Designation

EN 1004 3 8/12 AXXX H2

Design Code

Load Class (2 = 153kg/m² UDL, 3 = 204kg/m² UDL*)

Max. Platform Height Outdoors (m)

Max. Platform Height Indoors (m)

Access Method A = Stairway, B = Stair Ladder, C = Inclined Ladder, D = Vertical Ladder

Clear Height Class (H1 = 1.85m, H2 = 1.90m)

*UDL = Uniformly distributed load

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1.3 Maintenance - Storage - Transport

- The BoSS mobile 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 BoSS Inspection Guidance for detailed inspection and maintenance advice, the guidance is available to download at: www.bossaccesstowers.com.
- Threads, hinges, and brace latches may be lubricated with light oil. Ensure oil does not contaminate climbing or walking surfaces.
- Safety labels should be kept legible. Replacement labels are available from Werner UK Sales & Distribution Limited.
- Surfaces should be kept reasonably free of dried paint, plaster etc.
- Use of solvents on wooden platform surfaces and 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.

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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 210mm range of the adjustable legs.
- Only components specified in this manual shall be used with BoSS 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.
- Ensure when the base is levelled the distance from the ground to the first stairway landing is less than 600mm.
- Only climb the tower from the inside using the access method provided.



• Tower scaffolds are not designed to be lifted or suspended.

This tower provides a work platform. It must not be used

• Ensure the safe working load on the structure is not exceeded.

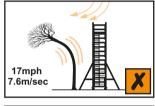
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to access other structures.

- Tools and materials should be lifted using a reliable lifting material (e.g. a strong rope) employing a secure and reliable knot to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers). When raising or lowering components be aware of the potential for falling objects.
- Alternatively, components may be passed up by hand. See guidance on page 10.
- Check this manual is available and its contents familiar to all those involved.
- If assembling outdoors; check the forecast windspeed.
 - If the wind speed reaches 17 mph (7.6 m/s) you should cease work and dismantle the tower.

mph	km/h	m/s	Action
17	27	7.6	Stop work & dismantle the tower

• Also consider the wind funnelling effect of nearby buildings.



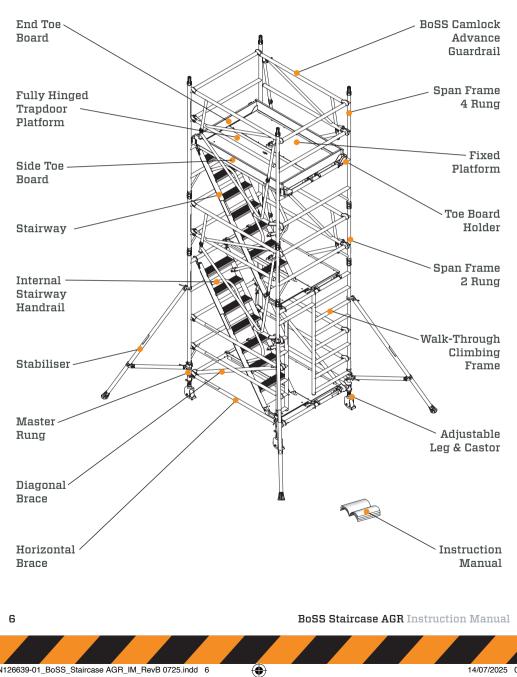


- Towers greater than 8.2m platform height are for indoor use only.
- This structure is designed to be self-supporting under the loading condition requirements of EN 1004-1:2020 and does not require tying in. Consideration should be given to potential wind conditions if the tower is left unattended.

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2.2 Component Diagram

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Component Weights

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Component				
Code	Name	Weight (kgs)		
32842300	Castor 150mm	3.3		
33551300	Adjustable Leg	1.1		
33451300	Master Rung 1450	2.2		
60551300	Span Frame 1450 2 Rung	4.0		
60351300	Span Frame 1450 4 Rung	7.1		
33151700	Walk-Through Climbing Frame 1450	10.8		
36361500	Camlock Advance Guardrail 1.8m	8.4		
36361600	Camlock Advance Guardrail 2.5m	10.0		
30151100	Fixed Platform 1.8m	11.8		
30251100	Fixed Platform 2.5m	16.0		
30751100	Fully Hinged Trapdoor Platform 1.8m	12.1		
30851100	Fully Hinged Trapdoor Platform 2.5m	16.6		
31251300	Horizontal Brace 1.8m (red)	2.0		
34851300	Horizontal Brace 2.5m (red)	2.4		
31351300	Diagonal Brace 2.1m (blue)	2.1		
31451300	Diagonal Brace 2.7m (blue)	2.5		
33651300	Stairway 1.8m	14.1		
33951300	Stairway 2.5m	18.0		
33751300	Internal Stairway Handrail	1.0		
30450900	Side Toe Board 1.8m	3.2		
30550900	Side Toe Board 2.5m	4.4		
30350900	End Toe Board 1.45m	2.1		
30150900	Toe Board Holder	0.3		
31751300	SP7 Fixed Stabiliser	3.8		
31851300	SP10 Telescopic Stabiliser	8.8		
31951300	SP15 Telescopic Stabiliser	12.8		

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2.3 Quantity Schedule

BoSS 1450 Staircase to EN 1004: Available in 2 lengths - 1.8m and 2.5m

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			Intern	al or Ext	ernal Us	e	Intern	al Use
Com	ponent	Working Height (m)	4.4	6.4	8.4	10.4	12.4	14.4
Code	Name Platform Height (m)		2.4	4.4	6.4	8.4	10.4	12.4
33551300	Adjustable Leg		4	4	4	4	4	4
32842300	Castor 150mm		4	4	4	4	4	4
33451300	Master Rung 1450		2	2	2	2	2	2
33151700	Walk-Through Climbing Fra	me 1450	1	1	1	1	1	1
60551300	Span Frame 1450 2 Rung		2	2	2	2	2	2
60351300	Span Frame 1450 4 Rung		1	3	5	7	9	11
31251300 / 34851300	Horizontal Brace 1.8m and 2	2.5m (red)	6	6	6	6	6	6
31351300 / 31451300	Diagonal Brace 2.1m and 2.	7m (blue)	2	2	2	2	2	2
36361500 / 36361600	Camlock AGR 1.8m and 2.5	m	2	4	6	8	10	12
33651300 / 33951300	Stairway 1.8m and 2.5m		1	2	3	4	5	6
33751300	Internal Stairway Handrail			4	6	8	10	12
30751100 / 30851100	Fully Hinged Trapdoor Platform 1.8m and 2.5m			1	1	1	1	1
30151100 / 30251100	Fixed Platform 1.8m and 2.5	2	3	4	5	6	7	
31751300	SP7 Fixed Stabiliser		4	4	-	-	-	-
31851300	SP10 Telescopic Stabiliser		-	-	4	-	4	4
31951300	SP15 Telescopic Stabiliser		-	-	-	4	-	-
30150900	Toe Board Holder		4	4	4	4	4	4
30350900	End Toe Board 1.45m		2	2	2	2	2	2
30450900 / 30550900	Side Toe Board 1.8m and 2.5m		2	2	2	2	2	2
126639-01	Instruction Manual	1	1	1	1	1	1	
	Tower Tot	al Self-weight 1.8m (kgs)	159	218	297	373	415	474
	Tower Tot	al Self-weight 2.5m (kgs)	185	255	346	433	486	556
	Max. Exe	rted Leg Load 1.8m (kgs)	120	140	170	190	250	269
	Max. Exe	rted Leg Load 2.5m (kgs)	200	210	210	239	350	374

BoSS Staircase AGR Instruction Manual

Assembly Variations

This section lists the permitted component variation from the Quantity Schedule. Note: These substitutions must be made before assembly.

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Stabilisers Stabilisers with Universal	Component Code	Description	Weight (kg)
Clamps may be substituted:	31751400	SP7	4.0
	31851400	SP10	9.0
	31951400	SP15	13.1

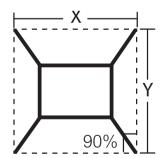
Castors Other Castor sizes and types	Component Code	Description	Weight (kg)
may be substituted:	31842300	Diameter 150mm (Tyred)	3.2
	32942300	Diameter 200mm	3.9
	31942300	Diameter 200mm (Tyred)	3.9

2.4 Stabilisers

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 stabiliser foot is in firm contact with the ground. Ensure the clamps are secure.

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	Double Width 1450 Tower				
	1.8	3m	2.5	ōm	
	X (mm)	Y (mm)	X (mm)	Y (mm)	
SP7	3242	3366	3544	3544	
SP10	4832	4832	5100	5100	
SP15	5510	5510	5218	6160	

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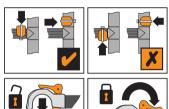
2.5 Assembly

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



THIS TOWER MUST NOT BE USED AS AN ANCHOR POINT FOR PERSONAL FALL PROTECTION EQUIPMENT.

- No tools are required for assembly.
- The assembly uses the AGR (Advanced Guardrail) method that provides collective fall protection.
 - Fit braces and AGR's in the locations described and ensure claws +are locked.



• DO NOT stand on an unprotected platform.



- It is recommended that a minimum of 2 persons assemble/disassemble the tower. Only 2 persons are permitted on the tower during assembly/dismantling, and they must not be on the same platform. Additional persons can help from ground level.
- Components must be lifted within the footprint of the tower using a reliable method such as a strong rope with a clove hitch knot.
- Castor 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 stairway landing is less than 600mm.
- Stabilisers of the size specified in the quantity schedule should be fitted at the earliest opportunity.

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BoSS Staircase AGR Instruction Manual

2.5.1 Assembly for 1450 Tower

The procedure illustrated shows a 1450 tower 4.4m platform height starting with a pair of master rungs, 4 rung span frame and 8 rung walk-through frame. All tower heights start with this arrangement.

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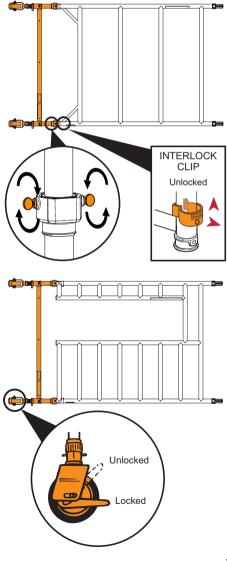
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1 Fit a master rung frame to a 4 rung span frame. Do not tighten the thumb screws.

Unlock the frame interlock clips and push castor/adjustable leg assemblies into frame assembly. Now tighten the thumb screws and lock castors.

Repeat procedure using second master rung frame and 8 rung walk-through frame. Ensure locating rivets of master rung are located below the walk-through aperture.

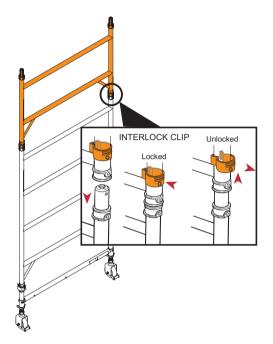
It is recommended that for ease of levelling a gap of 50mm is left between the bottom of the leg and the adjustable nut.



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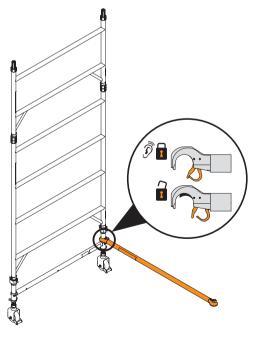
2 Fit a 2 rung span frame onto the master rung and 4 rung span frame assembly. Ensure the frame interlock clips are engaged.

Repeat procedure with the master rung and 8 rung walk-through frame assembly.



3 Fit one horizontal brace (red) onto the vertical of a master rung frame as shown, with the claw facing outwards. The frame will now be self-supporting.

All locking claws must be opened before fitting and positively locked after fitting.



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4 Position the second frame assembly as shown and fit the other end of the horizontal brace on to the vertical.

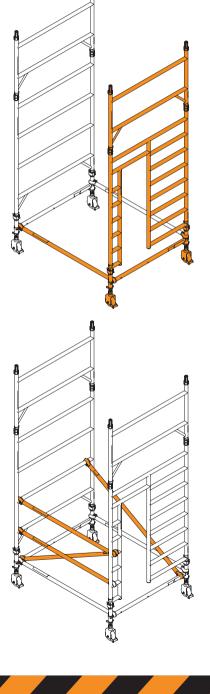
Fit a second horizontal brace between the 1st rung of the master rung frame on the other side of the frames to square the tower.

5 Fit two diagonal braces (blue) in opposite directions, from the 1st rung as shown. Diagonal braces should be positioned 70/80mm inboard of the frame verticals.

Fit two horizontal braces as shown.

Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.

Only use the adjustable legs to level the tower and not to gain extra height.



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6 Position a fixed platform on the 1st rung, next to the diagonal brace as shown.

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Fit the stairway unit between the 1st rung and 5th rung as shown.

Ensure that the stairway hooks are positioned outside of the locating rivets on the master rung as shown and the stairway is aligned with the aperture of the walk-through frame.

Ensure the stairway wind-locks and platform wind-locks are engaged.

Do not stand on a stairway tread unless all handrails and guardrails are in place.



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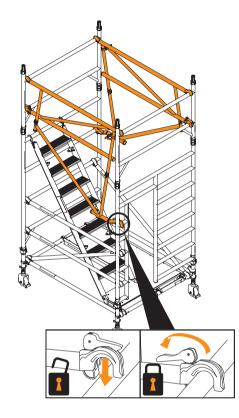
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7 Fit two camlock AGR frames, one on each side of the tower in the positions shown.

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The uppermost and lowest AGR claws should be positioned 10/15mm inboard of the end frame verticals.

Secure each AGR frame by pulling the locking handle of the lowest claw firmly down.



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Camlock Advance Guardrail (AGR) Frame Assembly Installation

Note: stairway omitted for clarity.

7.1 Once AGR is secured in the unfolded position, place the AGR as shown, resting on the rung of the end frame.

Hold Here Hold Here

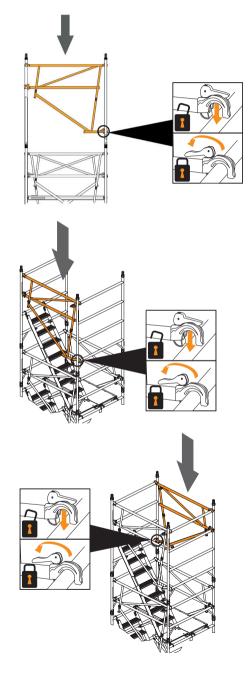
7.2 With AGR resting on the rung of the end frame, rotate AGR upwards into position shown.

7.3 Lift AGR to ensure claw latch clears rung of end frame and move AGR across so both top hooks are above top rungs of end frames, as shown.

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7.4 Place AGR onto rungs of both end frames, ensuring both hooks and both claws are correctly positioned as shown. Engage locking handle of lowest claw.

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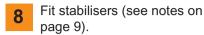
7.5 First AGR now in place with lower claw locked.

7.6 Repeat AGR installation steps for the second AGR on the opposite side of the tower, before fitting platforms.

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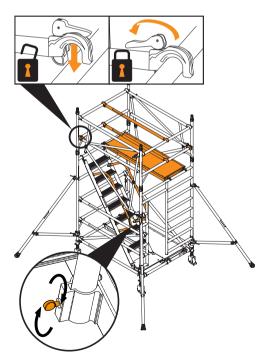
9 Fit a fixed platform in position, as shown.

Fit a pair of internal stairway handrails to the stairway and tighten the thumb screws.

Climb the stairway and lock the Camlock AGR claw above the stairway, sit on the platform above and fit two temporary horizontal braces in position, as shown.

Climb onto platform above and lock the remaining camlock AGR claw.

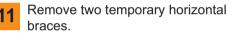
Do not climb onto a platform unless all guardrails are in place.



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10 Fit two additional end frames. Ensure frame interlock clips are engaged.

Position a stairway above the previous lower stairway, as shown. Ensure stairway wind-locks are engaged.



Do not stand on any stairway tread unless all handrails and guardrails are in place.

From standing on either the platform or stairway landing; fit two camlock AGR's, one on each side of the tower in the positions shown (see steps 7.1 to 7.6).

The uppermost and lowest AGR claws should be positioned 10/15mm inboard of the end frame verticals.

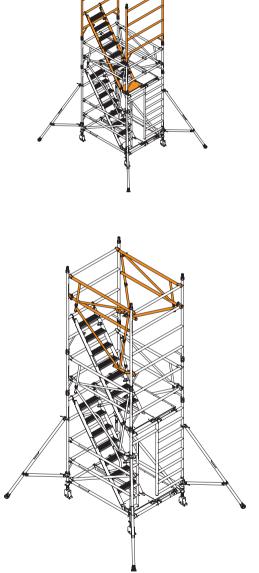
Secure each AGR frame by pulling the locking handle of the lowest claw firmly down.

Continue the procedure until the required height is reached, adding additional internal stairway handrails, fixed platforms with two temporary horizontal braces, pairs of end frames, stairway's and AGR's as shown on previous steps 9 to 11.

For every platform level, add AGR's from the platform below as guardrails (as shown on page 16 and 17).

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12 Fit fully hinged trapdoor platform above stairway, as shown. Ensure the trapdoor is positioned with the hinges towards the outside of the tower, as shown.

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Fit a fixed platform in position, as shown.

Ensure platform wind-locks are engaged.

Fit a pair of internal stairway handrails to the stairway.

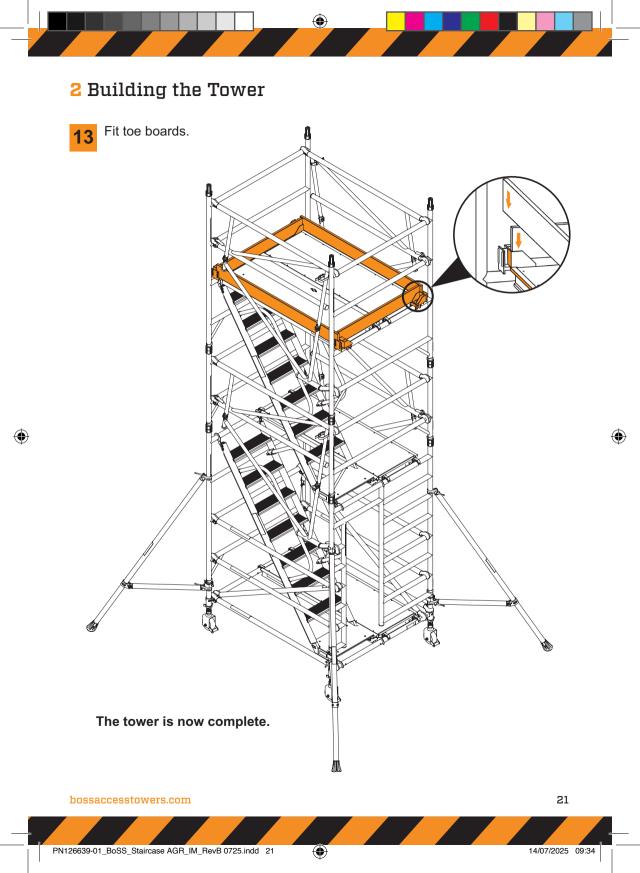
Climb onto platform above and lock each remaining AGR camlock claw.

Do not climb onto a platform unless all guardrails are in place.

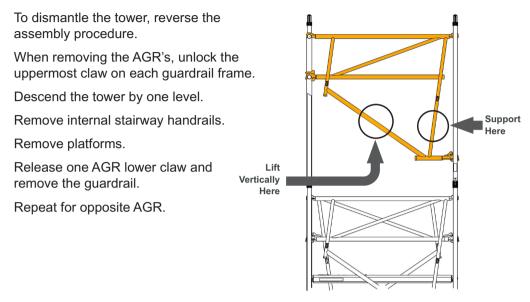
Fit two horizontal braces at the base of the tower in position shown.



BoSS Staircase AGR Instruction Manual



2.6 Dismantling



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Note: stairway omitted for clarity.

Tools and materials should be lowered using a secure and reliable lifting material (e.g. a strong rope) employing a secure and reliable knot to ensure safe fastening and always lower within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers). When raising or lowering components be aware of the potential for falling objects.

Alternatively, components may be passed down by hand. See guidance on page 10.

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BoSS Staircase AGR Instruction Manual

3.1 Safety Checklist

This inspection must be carried out before initial use, after moving the tower, if any environmental condition change that may affect the tower and at regular intervals determined by local regulations.

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Local regulations may also specify other information to be supplied to the user or attached to the structure. These regulations must be followed.

3.2 Pre-Use Checklist

Tower upright and level to within 0.6°	1
Castor brakes locked and all wheels in ground contact	
All interlock clips engaged	
Braces/Guardrails correctly positioned	1
All claws latched	1
All platform wind-locks engaged	
All stairway wind-locks engaged	
Correct stabiliser size fitted and positioned	
Toe boards 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	

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3.3 Use

• This tower must not be used as an anchor point for personal fall arrest equipment.

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- The tower must only be climbed on the inside, using the access method specified.
- This tower provides a work platform. It must not be used to access other structures.
- 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. Toe boards must be fitted to that platform. Other platforms are for access only.
- Ensure the safe working load on the structure is not exceeded.

The safe working loads for the working platform are shown below.



The adjustable legs are for levelling the tower only. They must not be used to gain

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BoSS Staircase AGR Instruction Manual





extra height.

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

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 Beware of horizontal forces that might cause instability. Maximum horizontal force = 30kg.

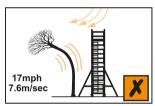




- Beware of high winds.
 - If assembling outdoors; check the forecast windspeed.
 - If the wind speed reaches 17 mph (7.6 m/s) you should cease work and dismantle the tower.

mph	km/h	m/s	Action
17	27	7.6	Stop work & dismantle the tower

 Also consider the wind funnelling effect of nearby buildings and other open areas, which could be present when the tower is used internally.





• Sheets, tarpaulins, or signage must not be attached to this tower outdoors.

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• Towers above 8.2m platform height are for indoor use only.

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3.4 Movement of the Assembled Prefabricated Tower Scaffold

MOVING A FULLY ASSEMBLED TOWER CAN BE EXTREMELY HAZARDOUS.

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 is 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.





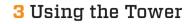


- Release the castor brakes.
- Release the stabiliser top clamp to allow the feet to be raised a maximum of 25mm. Re-tighten the clamps.

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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 castors, stabiliser 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 castor brakes, level the tower, lower the stabiliser feet, and perform the pre-use inspection.

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For further information and support for the Staircase or any other products, design advice and services, please contact:

> Werner UK Sales & Distribution Ltd. Blackwater Trading Estate, The Causeway, Maldon, Essex, CM9 4LJ, United Kingdom

> > Hungary Kft. 6000 Kecskemét, Szt. Istvan Krt. 19.

\$ +44 (0)1621 745900
\$ uk.customercare@prodrivenbrands.com
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