

# UTS SALES AND REPAIRS

A SAFER WAY TO REACH NEW HEIGHTS

## UTS 500 LADDER 1450/850 COMPATIBILITY

**Instruction Manual**  
Hybrid Mobile Access Tower  
3T - Through the trap method



### Instruction Manual

This Assembly Guide is intended to provide you with step-by-step instructions on how to erect your Mobile Access Tower (MAT) with ease and safety, using the 3T (through the trap) method.

You should read and understand all notes and diagrams, including the parts list for each height, before commencing assembly. Personnel should be qualified or competent to erect this tower. Please consult the PASMA's code of practice for full information on the use of Mobile Access Towers.

Remember to do a risk assessment of the area where the tower is to be used before commencing erection.

This instruction manual shall be available on the location of use of the mobile access and working tower.

This mobile access and working tower shall only be used according to this manual without any modification.

Mobile access and working towers must only be used in accordance with national regulations.



UTS SALES & REPAIRS LTD

Manufactured to: BSEN1004-1:2020 CLASS 3 8/12 XXXD H2

Instruction Manual EN 1004-2 en

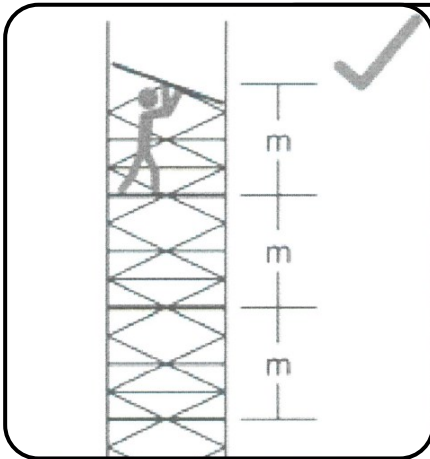


KM 617169

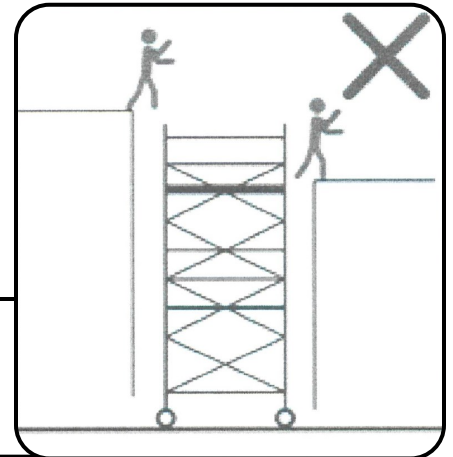
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info@towersandpodiums.co.uk



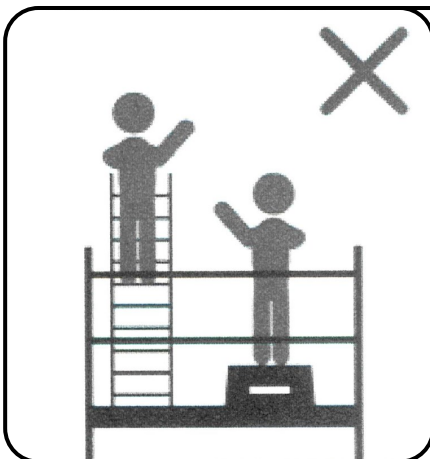
# HEALTH AND SAFETY WARNINGS



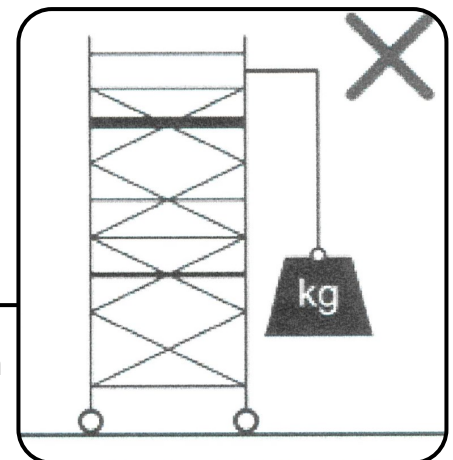
Maximum height between platforms of 2.2m



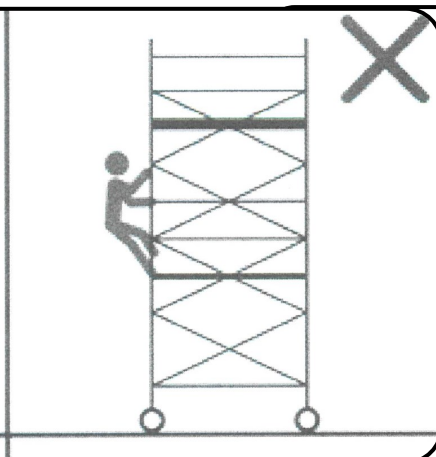
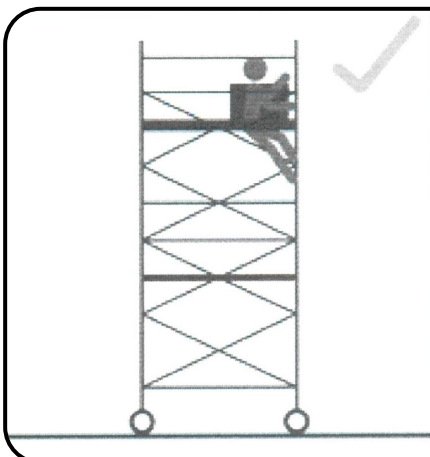
Do not use the tower as a form of access or exit



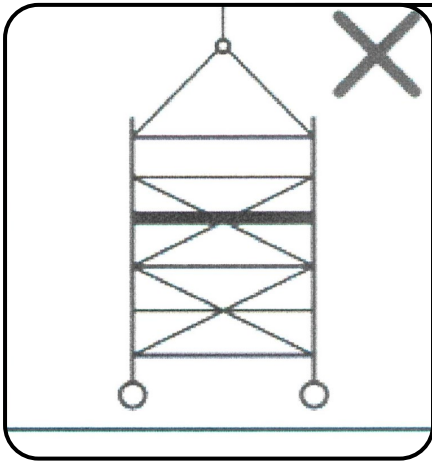
Do not use ladders, boxes or and other objects to gain additional height.



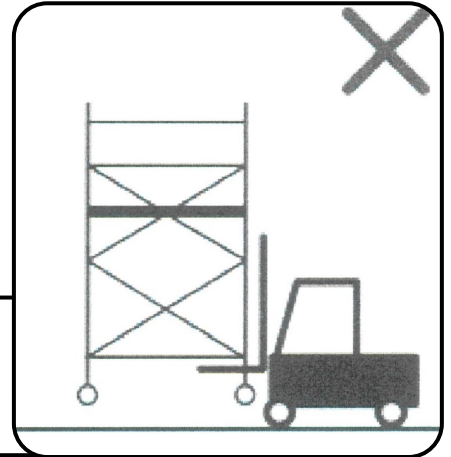
Do not lift heavy objects from the tower



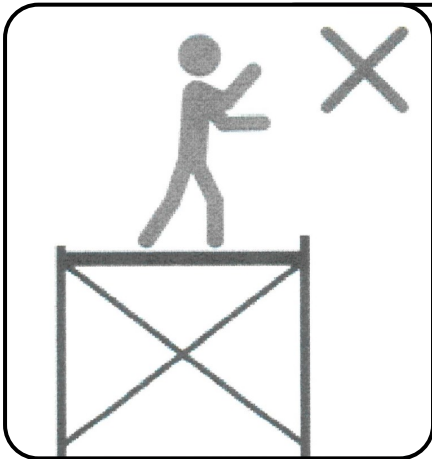
Do not climb outside of the tower, only climb up inside the tower.



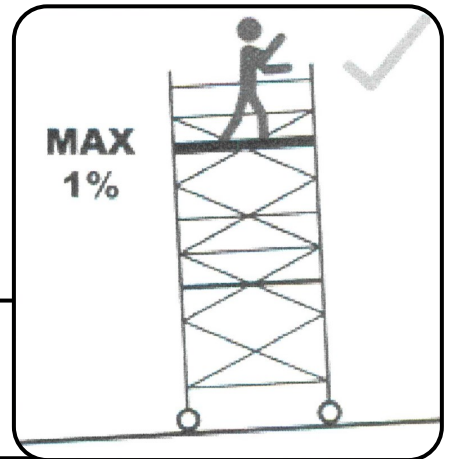
Do not suspend or lift the tower



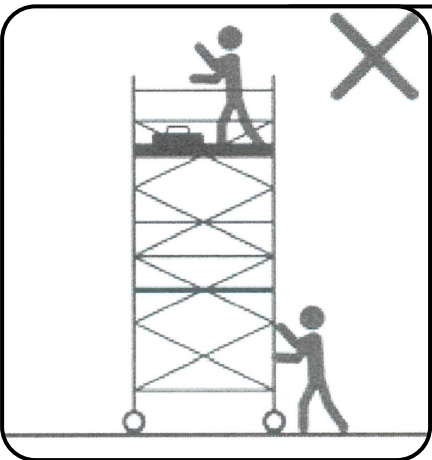
Do not lift the tower with mechanical equipment



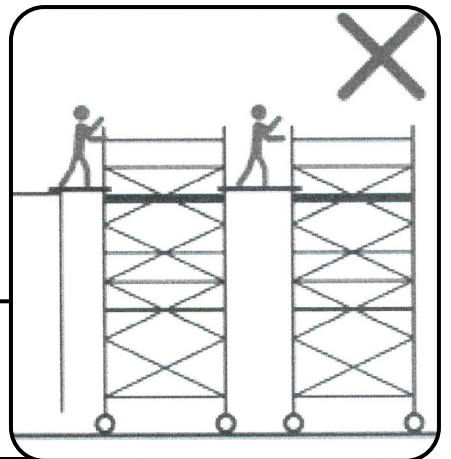
Do not stand up on an unguarded platform



Maximum inclination for working = 1%



Do not move the tower with material or people on it



Do not bridge between towers or other structures

# UTS COMPATIBILITY 500 LADDER 1450/850

## Instruction Manual Mobile Access Tower

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**When building a hybrid compatible tower the user must use this manual.**

### Foreword on Compatibility:

Compatible Towers:

**UTS 500 Ladder 1450/850**, manufactured to BSEN1004-1:2020 CLASS 3 8/12 XXXD H2, **BSI KM 617169**.

**BOSS Ladderspan 3T**, manufactured to BSEN1004-1:2020 CLASS 3 8/12 XXXD H2, **TUV Z1 094925 0014**.

We are claiming compatibility of the **UTS 500 Ladder 1450/850** tower with the **BOSS Ladderspan 3T** tower.

Independent testing has been carried out by **The Test and Research Centre** under the **PASMA** Compatibility Protocol 2023, to award the PASMA Safe and Sure Mark and a Certificate of Conformity to confirm conformance with the Compatibility Protocol.

This means that the **UTS 500 Ladder 1450/850** tower can provide either a partial or dominant system when used in conjunction with the **BOSS Ladderspan 3T** tower, and that all components from the 2 different towers can be interchanged and used where instructed.

The purpose of this manual is to show the user how to safely erect a hybrid tower composing of any combination of components by showing how to erect a **UTS 500 Ladder 1450/850** tower while also showing the equivalent **BOSS Ladderspan 3T** tower components that can be used instead.

Copies of all certification are available from UTS upon request.

# Description, Safety Notes & Fittings

## Description

The UTS 500 Ladder 1450/850 tower is manufactured to BSEN1004-1:2020 CLASS 3 8/12 XXXD H2 and KITEMARKED. The KITE MARK is the universal symbol that reassures the user that the product is certified to BSI stated standards.

The UTS 500 Ladder 1450/850 tower is a lightweight aluminium industrial tower designed for use in a variety of commercial and domestic environments. It gives a safe and secure and robust work area at a range of heights indoors and outdoors to enable maintenance, installation work and short term access, ensuring that working at height is as safe as possible.

- Instructions for erection and use to be followed carefully.
- A risk assessment should always be carried out before erecting your MAT (Mobile Access Tower).
- You will find a standard risk assessment form at the back of this instruction manual.
- The UTS 500 Ladder 1450/850 has a maximum working platform height of 8.2 meters outdoors and 12.2 meters indoors.
- The UTS 500 Ladder 1450/850 tower is a Class 3 tower, the safe working load is 2kN/m<sup>2</sup>.
- SWL per platform; 1.8m platform = 208kg U.D.L (Uniformly Distributed Load), 2.5m platform = 293kg U.D.L.

**Note: Working levels with 2 platforms next to each other, e.g. top of a 1450 tower, there are 2 platforms so for example a 1.8m 1450 tower would have a working platform SWL of 416kg, but the load still needs to be spread out evenly across the whole working platform, so each platform will still not have more than 208kg. These calculations need to include the user and any equipment/materials etc.**

- Maximum of 1 working platform per tower.
- Maximum of people per working platform must not exceed the SWL.
- Damaged or incorrect components shall not be used.

## Risk analysis

Proper risk analysis of our towers reveals that all components are integral to the safety of the tower once assembled, and while assembling is the greatest period of risk. If the user follows the instructions set out in this manual it will contribute to the reduction of risk of injury, this along with the PASMA training recommended in the manual should be enough to significantly reduce the risk possibility down to improbable if not impossible.

The components have been designed in such a way that they can be assembled in an order that allows for minimal risk to occur, such as making locking parts easy to lock but harder to unlock to ensure easy assembly but prevent accidental removal during use, and colour coding parts that are harder to distinguish between. Instructions in the manual and training courses are very clear about how to access the tower and the correct method is displayed on the tower as a reminder, but ensuring all components and materials are of the highest standard, means we can be confident that even if misuse was to occur, we can be confident that the components would be able to still prevent injury.

It is important to limit the risk of all tasks especially when working at height. It is the user's responsibility to complete a risk assessment then use that to reduce the risk associated with the task (a blank one can be found at the back of this manual). Once the full risk assessment is completed and all hazards have been identified and controlled it is down to the user to decide if there is still too much risk in which case do not erect or use tower and look for alternative access arrangements.

## Safety Notes

### ERECTION & DISMANTLING - THE 3T(through the trap) METHOD

Towers should be erected following a safe method of work, there are two approved methods recommended by 'Prefabricated Access Suppliers & Manufacturers Association' (PASMA) in co-operation with the Health and Safety Executive (HSE) & the "working at height regulations 2005"

The method used for erecting and dismantling the UTS 500 Ladder 1450/850 tower is the 3T METHOD (through the trap). This method ensures the operators erecting the tower position themselves in the trapdoor of the platform to add or remove horizontal guardrail braces for the level above the platform.

**NEVER STAND ON AN UNGUARDED PLATFORM.**

Before assembly or erection of this Mobile Access Tower (MAT) please ensure that:

- A risk assessment has been done and all safety equipment is on site.
- The ground conditions will take the working loads of MAT as specified.
- Always check that the MAT is vertical, (Level, slope, uneven ground etc.) if levelling is required make sure you adjust legs, in line with instructions (use spirit level).
- Beware of (overhead) obstructions – live wires, electrical apparatus or moving parts of machinery or other.
- Wind conditions are within limits as specified. (Refer to page 7)
- Do not use boxes, ladders, or other devices on the platform to gain additional height.
- If in doubt DO NOT ERECT.
- Check that all components are on site and that they are in good working order before use (refer to the components and quantities shown at each stage). Auxiliary equipment and safety equipment. (ropes, etc)
- All platforms MUST have horizontal guardrails fitted.
- The tower should always be accessed from the inside using the rungs of the end frames.
- Never climb up the outside.
- Use of Scaffolding tags or similar is required during use to ensure all correct safety information is on display; MUST INCLUDE:
  - The name and contact details of the responsible person.
  - If the tower is ready for application or not.
  - The load class and the uniformly distributed load.
  - If the mobile access and working tower is intended for indoors use only.
  - The date of assembly.
- Do not use the guardrail braces as a rung or step.
- It is recommended that 2 persons erect this tower.
- The assembled tower should not be used as a means to enter or exit other structures, e.g. as a stair tower.
- Beware of horizontal forces (e.g., when using power tools on an adjacent structure), which could generate instability or overturning of the tower.
- Maximum distance between platforms is 2.25m, maximum distance to the first platform is 3.4m.
- Maximum horizontal force 20kgs.
- Mobile access and working towers are not designed to be sheeted
- The tower height used should be appropriate for the working height, e.g. within 2 meters above the platform
- User training courses cannot be a substitute for instruction manuals but only complement them.
- Only the original UTS or BoSS components specified in the manual shall be used.
- Mobile access and working towers designed in accordance with BS EN 1004-1:2020 are not anchor points for personal fall arrest equipment.
- Working is only permitted on a platform with a complete side protection including guardrails and toe boards.
- Mobile access and working towers are not designed to be used as edge protection.

## MOVING THE TOWER AND LEAVING IT UNATTENDED

- Adjust the stabilisers to provide ground clearance.
- Unlock the castor wheels.
- Move with manual force only, and only from the base.
- Beware of (overhead) obstructions – live wires, hanging apparatus or other objects.
- Do not move with people or material on the tower.
- Do not move the assembled MAT if wind speeds exceed a moderate breeze.
- When moving the tower over uneven or sloping ground remove all tools.
- Do not move the assembled tower if over 4 meters high.
- Mobile access and working towers shall only be moved on a flat and solid ground without obstacles and not on a slope of more than 10mm/1m
- It is recommended that towers should be tied to a solid structure, when left unattended.
- Recheck that the MAT is vertical or needs readjustment of legs before ascending. (Using spirit level)
- Relock Caster brakes and readjust the stabilisers once in the new position before ascending.
- Check to make sure all components are there before using after moving or leaving unattended.
- Recheck environment before using tower after it has been moved or left unattended.

## LIFTING OF EQUIPMENT

Tools and other equipment should be hauled up by a person on the platform using rope or similar, through the trapdoor of the platform or within the tower footprint.

Please see footprint guide on page 21.

Safe working loads of platform and tower not to be exceeded.

## LIFTING OF INDIVIDUAL TOWER COMPONENTS

Raising and lowering components, tools and/or materials by rope should be conducted within the tower base (i.e. within the area bounded by the stabilisers). Ensure that the safe working load of the supporting decks and the tower structure is not exceeded.

Check for environmental changes before every use. (i.e.: all weather conditions)

## TIES

When ties are required, they should be in accordance with table 17 of BS 5973:1990 and table 24 of BS 5975:1982. Always tie to a solid structure.

The tie frequency should be at 4 meter intervals or less vertically.

## CHECK LIST, INSPECTION CARE AND MAINTENANCE FOR MOBILE ACCESS TOWERS

- All components should be inspected before use to ensure that they are not damaged or broken, particularly the welds.
- ANY damage to ANY part particularly tubular members, castors, platform decking **MUST** be replaced.
- Adjustable leg threads should be cleaned and lightly oiled.
- All locking claws should be cleaned, and the locking mechanism checked for operation.
- When storing your MAT, please ensure that all components are neatly stored and not left lying around where they could be stood on or damaged.
- When transporting the MAT always tie the components down so that they do not move around and get damaged.
- Should the tower be left unattended it should be tied to a suitable structure and on reuse **ALWAYS** check that the tower is vertical and safe before ascending correct and complete structure.
- The MAT is not designed to be lifted or suspended as a complete structure.
- Always keep this instruction manual safe.
- Broken, damaged or incorrect components must never be used. The equipment shall be quarantined and assessed for replacement repair or destruction.

## Tools

- The use of a spirit level is required when levelling the tower
- Rope may be required to hoist components or tools to higher work platforms.

## WIND EFFECTS

- Beware of high, gusty, or moderate breeze conditions in exposed areas. It is recommended that in wind speeds over a Moderate Breeze (see Beaufort Scale below) that work on the tower is stopped and reassessed. If the wind becomes a Strong Breeze, (see Beaufort Scale below) the tower should be tied to a rigid structure. If the wind is likely to reach Gale Force (see Beaufort Scale below) or over, work should be stopped, and the tower should be dismantled.
- Beware of tunnelling effect caused by open ended buildings, uncladded buildings and building corners.

Wind	Beaufort Scale 10 Meters above ground	Force	Speed in m.p.h.	Speed in knots
Moderate Breeze	Raises dust and loose paper, small branches move.	4	13–18	11–16
Strong Breeze	Large branches in motion, telegraph wires whistle.	6	25–31	22–27
Gale Force	Walking is difficult, twigs break off trees.	8	39–46	34–40

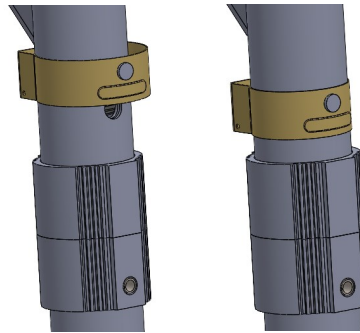
## FITTING ADJUSTABLE LEGS

Take the adjustable leg assembly complete with its castors, make sure that all the adjusting nuts are positioned down at the castor and slide them into the vertical tube, turn the base unit the right way up and with the aid of a spirit level placed on the platform, the adjusting nuts can be used to level the structure. (and not to gain additional height).



## LOCKING CLIPS

Fit the locking clips as shown in the diagram opposite.

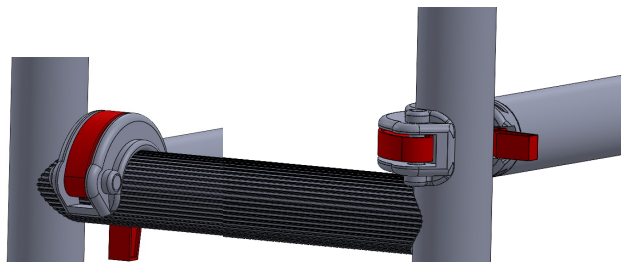


## CORRECT FITTING OF HORIZONTAL BRACING

THE CORRECT FITTING OF HORIZONTAL BRACING IS IMPORTANT.

The diagrams opposite illustrate the CORRECT brace positions.

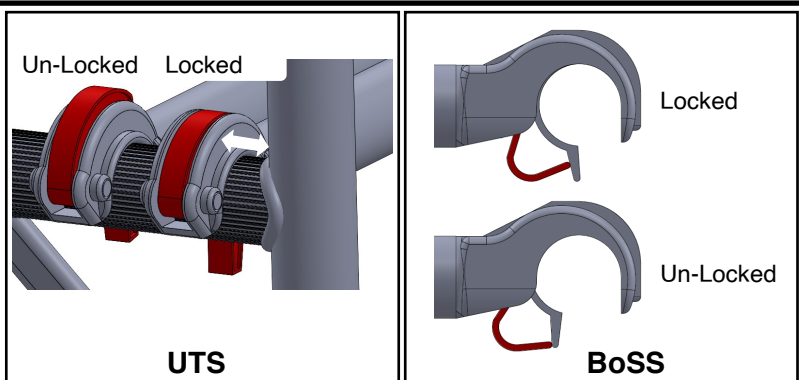
REMEMBER: Always fit braces DOWNWARD or from the inside facing OUTWARD – BUT NEVER INWARD



## BRACE CLAMP LOCKING

Ensure that the brace clamp is locked as shown.

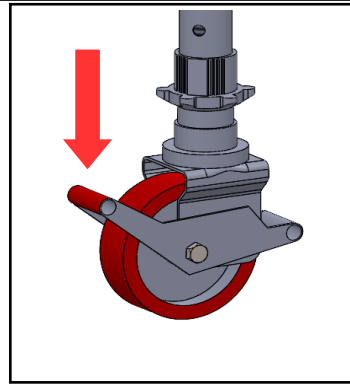
Always make sure the brace is not clamped too close to the weld as indicated by the white arrow on the drawing.





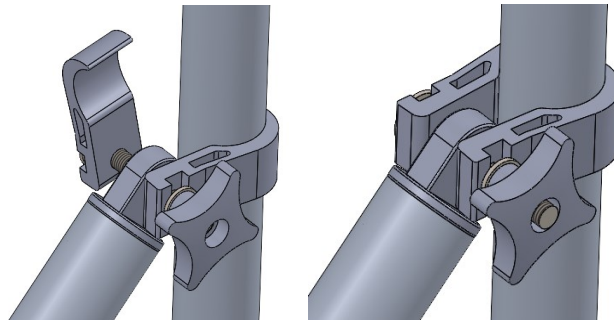
## LOCKING CASTORS

Castor wheels should be pointed outwards at approximately 45 degrees and locks engaged as shown opposite.



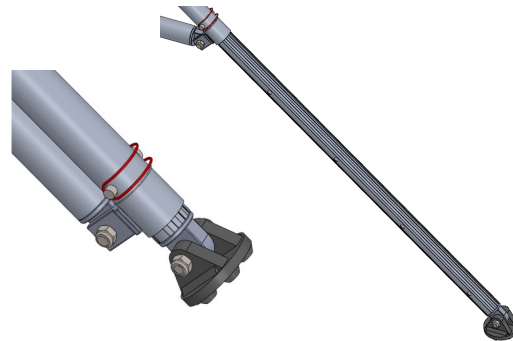
## FITTING STABILISERS

To attach stabiliser clamps, undo palm wheel all the way, fit one side of clamp to vertical frame, then rotate second side of clamp to fit vertical frame and tighten palm wheel.



## EXENDING STABILISERS

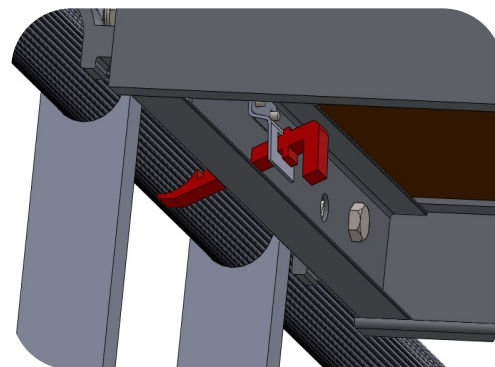
On the S10/S15/SP10/SP15 stabiliser use the telescopic leg for adjustment on uneven ground. Flex retaining clip, displayed in red, to then be able to remove retaining pin. Leg can now extend, line up desired hole on inner leg with outer holes, reinsert retaining pin and rehook retaining clip to ensure it cannot come undone. Make sure that all stabilisers are firmly in contact with the ground when using the structure.



## PLATFORM WINDLOCK LOCKING

Make sure wind locks are pushed forward until they sit securely under the rung.

They should not be able to fall out and should require a reasonable pull to disengage them.



# Toeboard Selection

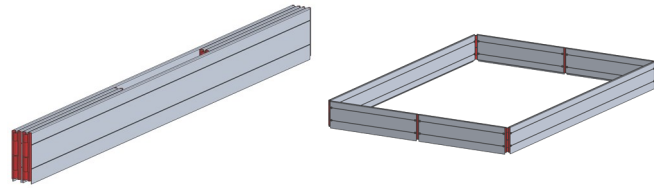
Aluminium folding Toeboards can be used on any platform height tower.

Toeboard wooden planks and clips can only be used on platform height towers that end in .2, e.g. 2.2m

See table below for complete list of heights and which type of toeboard can be used.

Toeboard Type	Platform Height																						
	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2
Wooden Planks and Clips	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓	x	✓
Aluminium Folding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

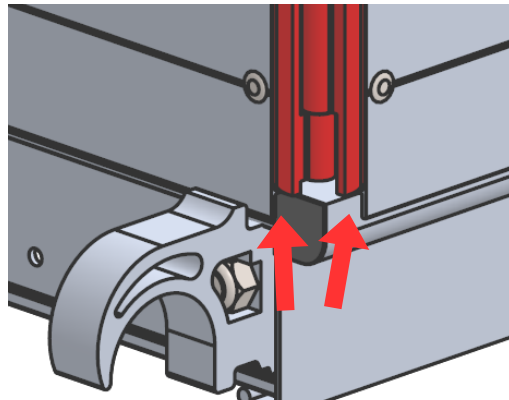
## FITTING TOE-BOARDS



### 1 piece folding aluminium toe board.

Unfold out over platform, hook bottom edges over sides of platform.

Ensure short ends of toe boards have hooked over both ends of the platform, hook bottom edge down between platform hook and frame.

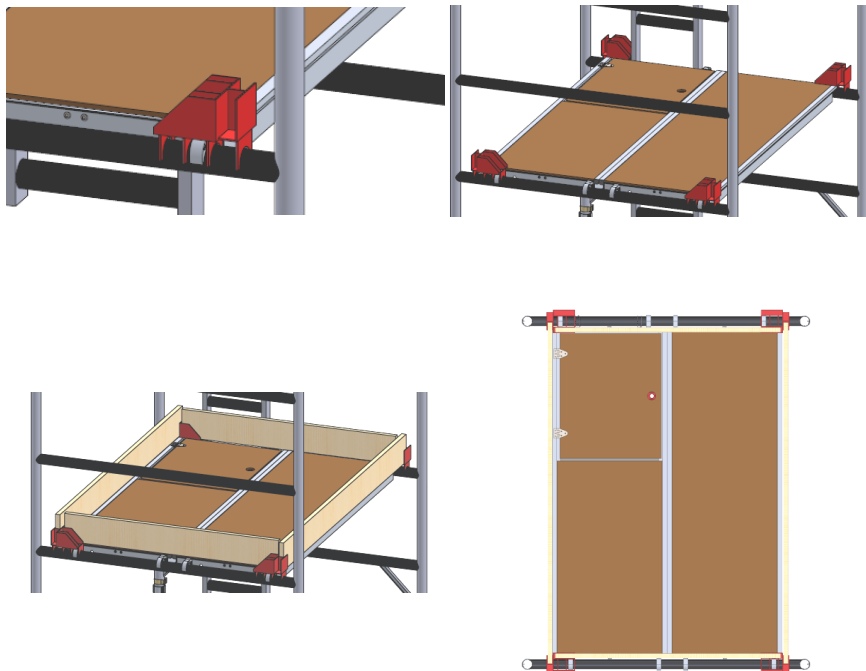


## FITTING TOE-BOARDS

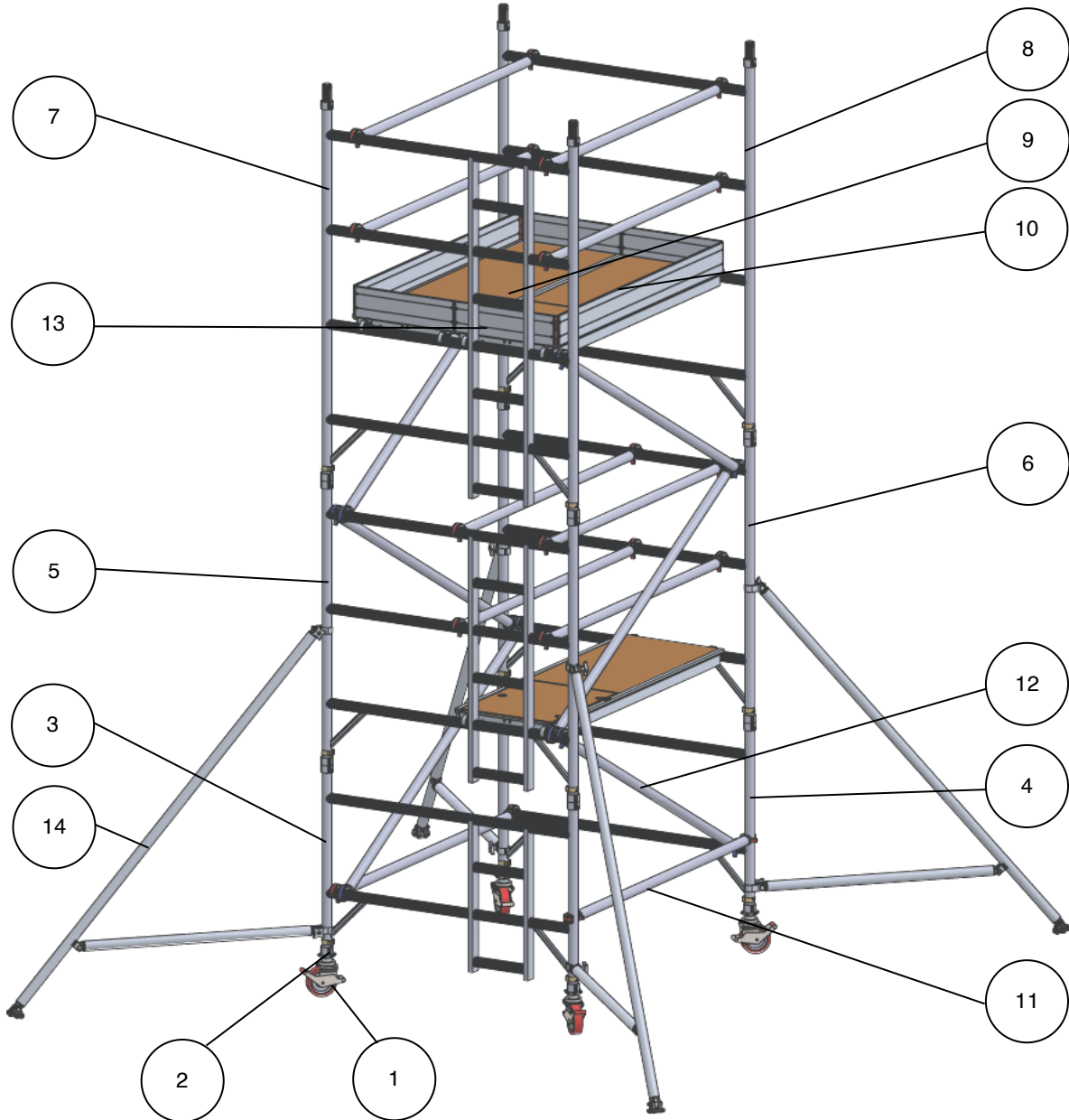
### 4 piece wooden planks and clips.

Fit toeboard clip to each corner of the platform(s). Ensure clip straddle platform hooks and line up correctly with outside edge of platform.

Fit planks to inside slot at ends of platform and into the back slot for the edges.



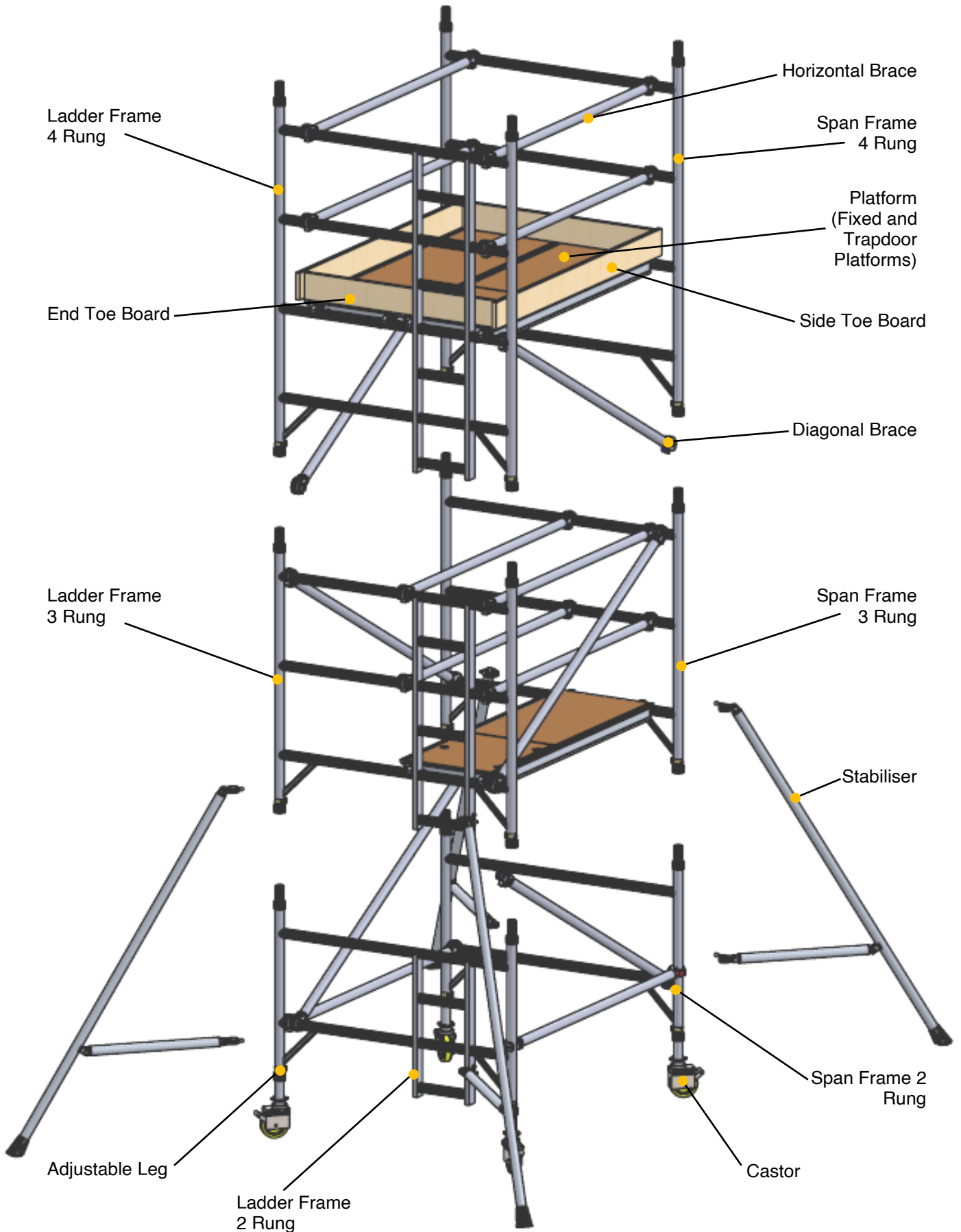
# Identifying Components (UTS)



## Tower Components and Approx. Weights

Item	Description	Weight (Kg)	Item	Description	Weight (Kg)
1	150mm Locking Caster	3.4	9	1.8m Trapdoor Platform	12.7
2	Adjustable Leg 500mm	1.1	10	1.8m Fixed Platform	11.8
3	1m Ladder Frame	5.4	11	1.8m Horizontal Brace	2.1
4	1m Span Frame	4	12	2.1m Diagonal Brace	2.2
5	1.5m Ladder Frame	8	13	Complete Toe Board Set	8
6	1.5m Span Frame	5.6	14	S7 Stabiliser	4.1
7	2m Ladder Frame	10.4	15	S10 Large Stabiliser	5.9
8	2m Span Frame	7.1	16	S15 Extra Large Stabiliser	8.9

# Identifying Components (BOSS)



# UTS & BOSS Components with Weights

UTS components with equivalent BOSS components on the same line. These components are then interchangeable with each other.

For example any time the instructions call for a 850 x 2m Ladder Frame (SW4RLF) you could use the BOSS Ladder Frame 850 4 Rung (60651300) instead, or vice versa.

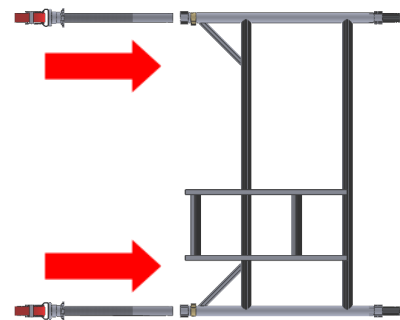
UTS COMPONENTS			BOSS COMPONENTS		
Code	Name	Weight (kgs)	Code	Name	Weight (kgs)
150 CAS	150MM CASTOR	3.4	32842300	Castor 150mm	3.3
ADJ	ADJUSTABLE LEGS	1.1	33551300	Adjustable Leg	1.1
SW2RLF	850 X 1M LADDER FRAME	4.9	60851300	Ladder Frame 850 2 Rung	4.7
SW2RSF	850 X 1M SPAN FRAME	3.7	60251300	Span Frame 850 2 Rung	2.7
SW3RLF	850 X 1.5M LADDER FRAME	7.7	60751300	Ladder Frame 850 3 Rung	6.7
SW3RSF	850 X 1.5M SPAN FRAME	7.0	60151300	Span Frame 850 3 Rung	3.4
SW4RLF	850 X 2M LADDER FRAME	9.5	60651300	Ladder Frame 850 4 Rung	8.7
SW4RSF	850 X 2M SPAN FRAME	9.0	60051300	Span Frame 850 4 Rung	4.1
DW2RLF	1450 X 1M LADDER FRAME	5.4	61151300	Ladder Frame 1450 2 Rung	5.4
DW2RSF	1450 X 1M SPAN FRAME	4.0	60551300	Span Frame 1450 2 Rung	4.0
DW3RLF	1450 X 1.5M LADDER FRAME	8.0	61051300	Ladder Frame 1450 3 Rung	8.0
DW3RSF	1450 X 1.5M SPAN FRAME	5.6	60451300	Span Frame 1450 3 Rung	5.6
DW4RLF	1450 X 2M LADDER FRAME	10.4	60951300	Ladder Frame 1450 4 Rung	10.4
DW4RSF	1450 X 2M SPAN FRAME	7.1	60351300	Span Frame 1450 4 Rung	7.1
18FP	1.8M FIXED PLATFORM	11.8	30151100	Fixed Platform 1.8m	11.8
25FP	2.5M FIXED PLATFORM	16.0	30251100	Fixed Platform 2.5m	16.0
18TP	1.8M TRAP PLATFORM	12.7	30451100	Trapdoor Platform 1.8m	12.7
25TP	2.5M TRAP PLATFORM	16.3	30551100	Trapdoor Platform 2.5m	16.3
18HB	1.8M HORIZONTAL BRACE (RED)	2.1	31251300	Horizontal Brace 1.8m (red)	2.0
25HB	2.5M HORIZONTAL BRACE (RED)	2.3	34851300	Horizontal Brace 2.5m (red)	2.4
21DB	2.1M DIAGONAL BRACE (BLUE)	2.2	31351300	Diagonal Brace 2.1m (blue)	2.1
27DB	2.7M DIAGONAL BRACE (BLUE)	2.4	31451300	Diagonal Brace 2.7m (blue)	2.5
S7	MEDIUM STABILISER (S7)	4.1	31751300	SP7 Fixed Stabiliser	3.8
S10	LARGE STABILISER (S10)	5.9	31851300	SP10 Telescopic Stabiliser	8.8
S15	EXTRA LARGE STABILISER (S15)	8.9	31951300	SP15 Telescopic Stabiliser	12.8
18TBS	TOEBOARD 1.8M SIDE	4.5	30450900	Side Toe Board 1.8m	3.2
25TBS	TOEBOARD 2.5M SIDE	6.1	30550900	Side Toe Board 2.5m	4.4
SWTBE	TOEBOARD SINGLE END	1.5	30250900	End Toe Board 0.85m	1.0
DWTBE	TOEBOARD DOUBLE END	3.0	30350900	End Toe Board 1.45m	2.1
TBC	TOEBOARD CLIP	0.3	30150900	Toe Board Holder	0.3
SWFAT1.8	850 X 1.8M FOLDING TOEBOARD SET (ALU)	8.5			
SWFAT2.5	850 X 2.5M FOLDING TOEBOARD SET (ALU)	11.0			
DWFAT1.8	1450 X 1.8M FOLDING TOEBOARD SET (ALU)	10.5			
DWFAT2.5	1450 X 2.5M FOLDING TOEBOARD SET (ALU)	12.5			

# Assembly Procedure

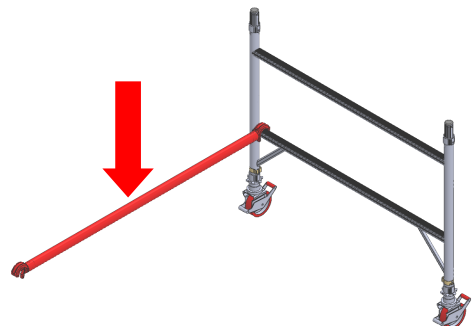
UTS recommends that a minimum of two people is required for the assembly of the UTS 500 LADDER 1450/850 tower. Only climb the tower from the inside using the ladder section.

Platform Heights in Meters	1st Frame	2nd Frame
1.2, 3.2, 5.2, 7.2, 9.2, 11.2	4 Rung	4 Rung
1.7, 3.7, 5.7, 7.7, 9.7, 11.7	2 Rung	3 Rung
2.2, 4.2, 6.2, 8.2, 10.2, 12.2	2 Rung	4 Rung
2.7, 4.7, 6.7, 8.7, 10.7	3 Rung	4 Rung

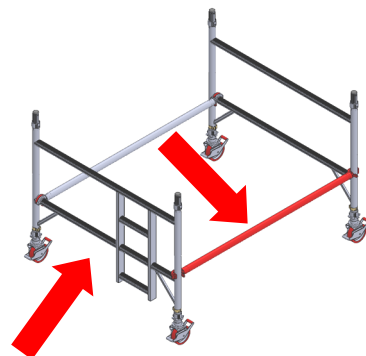
1. Insert adjustable leg assembly (with castors or base plates) into the base of ladder frame, repeat this with the span frame. Lock all castor wheels



2. Attach one horizontal brace to the bottom rung of the span frame, claws facing downwards. This frame will now be self-supporting.



3. Position the ladder frame as shown. Connect the other end of the horizontal brace to the ladder frame. Now connect the frames using a second horizontal brace on the opposite side, attach from the inside of the frame just above the bottom rung, claws facing outwards, this will square the tower.



Check tower is vertical (Using spirit level)

## PLEASE TAKE NOTE

**Never place the platform on the guardrail frame**

**Always climb from the inside of the frame – never the outside. When working on the platform never overreach**

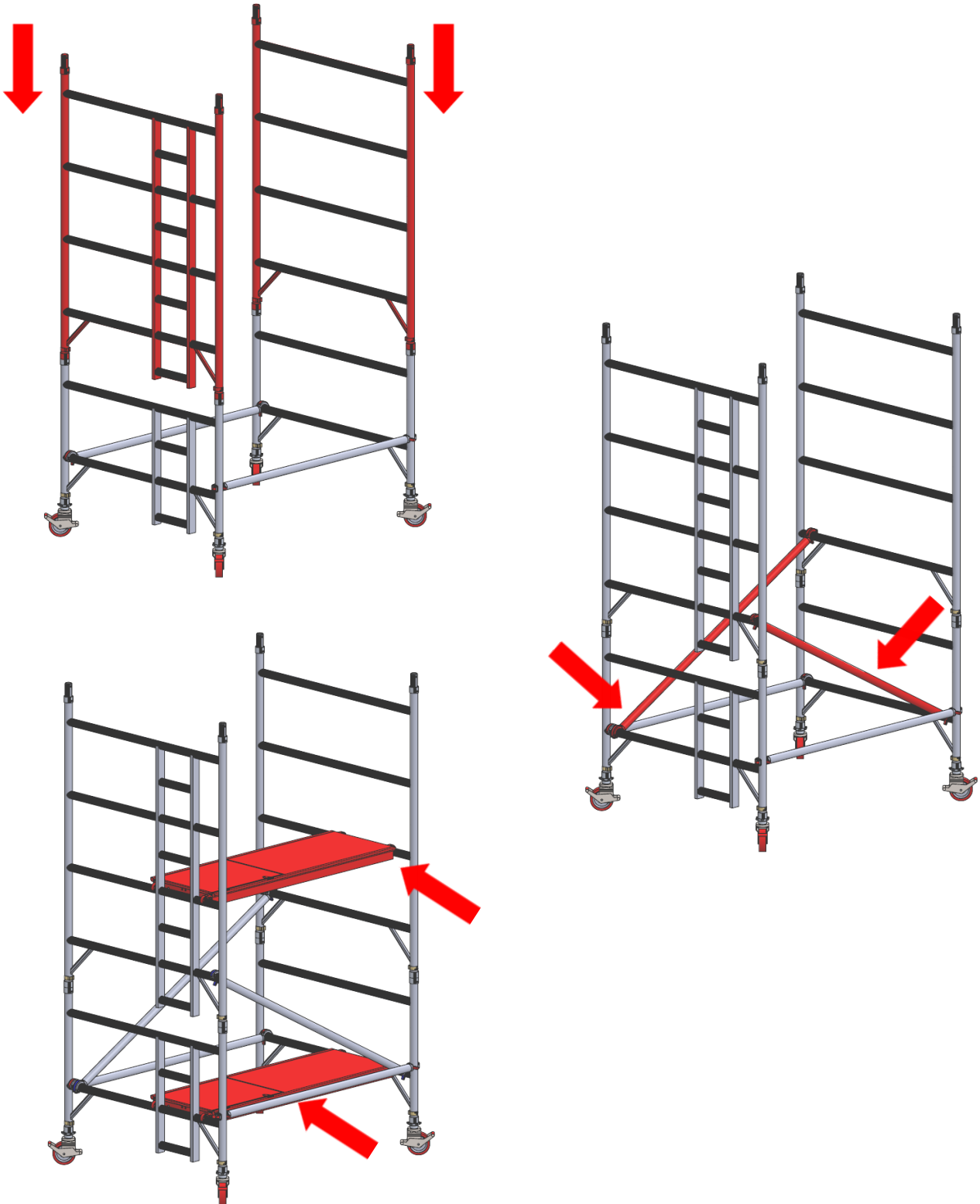
**The end frames should provide a firm hand hold.**

Insert 4 rung frames to correspond with the 2 rung frames (fig. 3) and lock the locking clips (refer to page 8).

4.

Attach diagonal braces on both sides from the 1st rung to the 3rd rung of the structure, in opposing directions.

Place a trap door platform on the 1st rung and a trap door platform on the 4th rung, both on the ladder side of the structure. Attach wind locks.

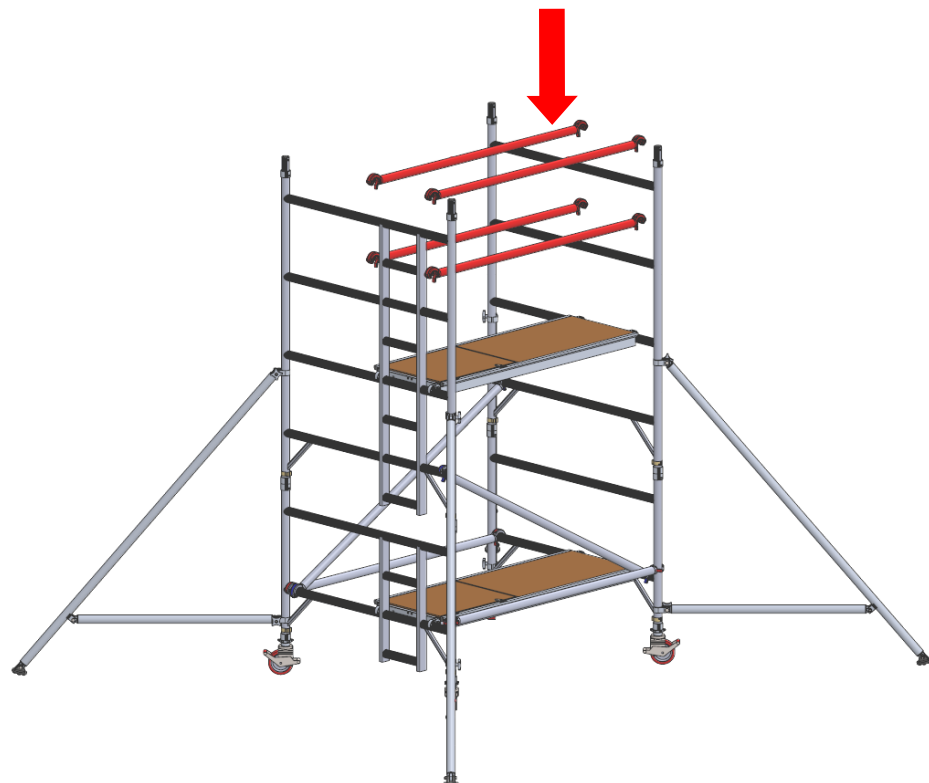
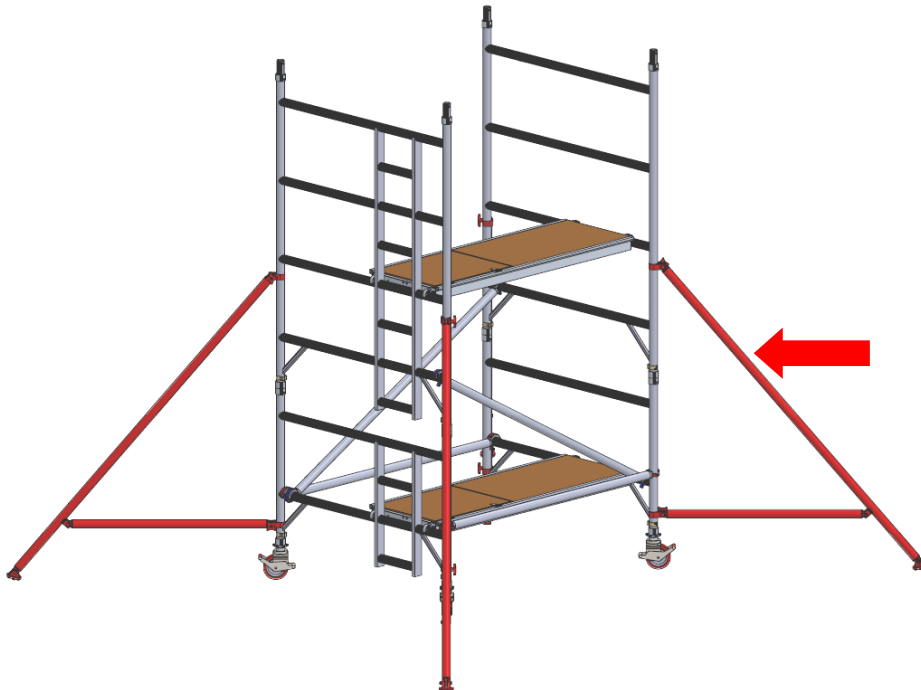


Attach stabilisers as required for working height (see component tables pages 23-24).

5.

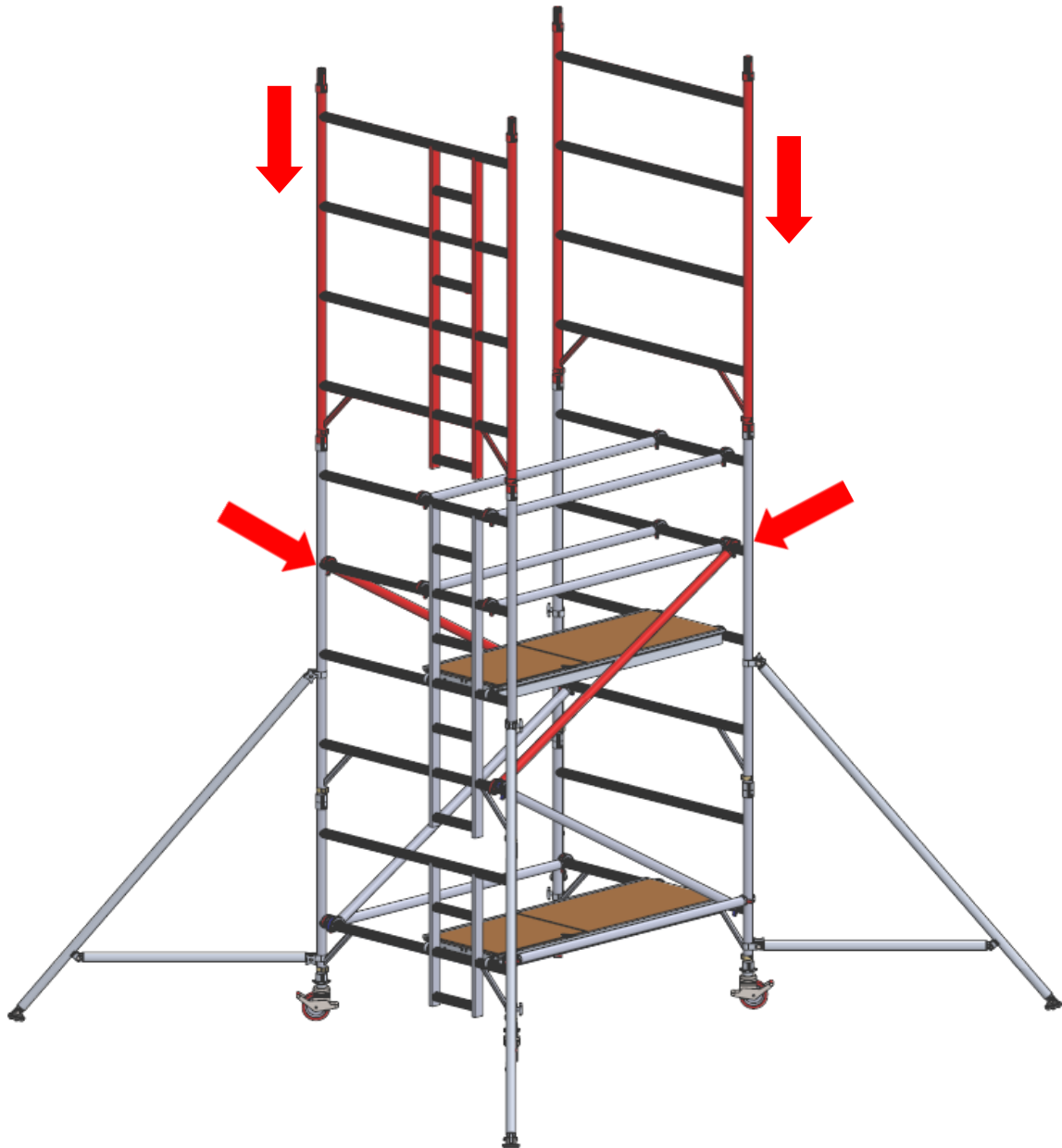
Climb the ladder and from a protected through the trapdoor position, attach horizontal guardrail braces to the 5th and then 6th rungs, on both sides of the platform.

Never climb onto a platform that is not fully guarded. Guardrails should be 1 and 2 rungs above platforms in all cases.

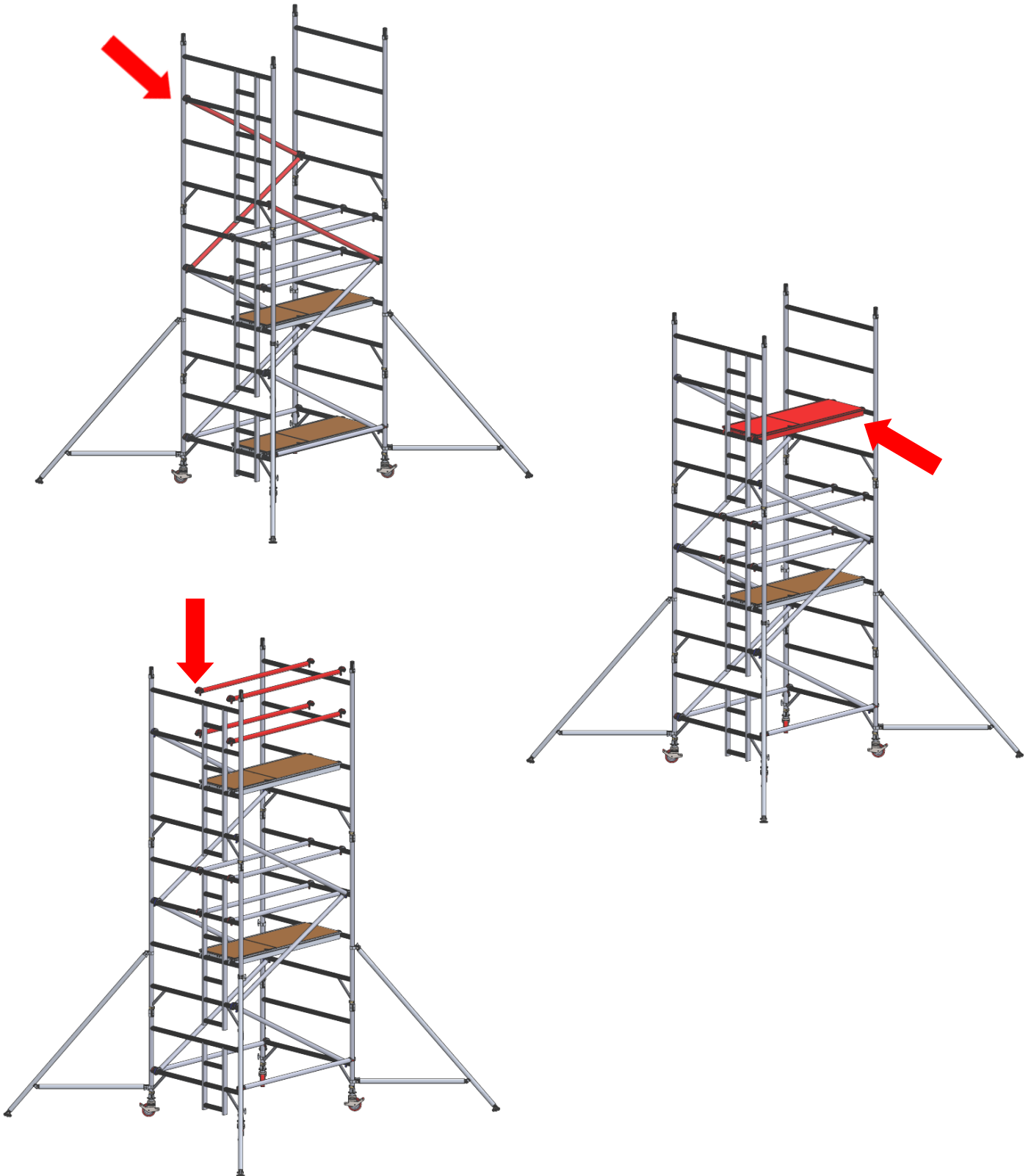




6. Attach 2nd pair of diagonal braces following on from the previous ones. Attach the next 4 rung frames and lock clips (as per fig. 6).



7. If completing the tower at this height (4m), continue with step 8. When building beyond this level, repeat steps 4, 5 and 6 until desired level is achieved, then complete the tower with steps 8 and 9. Reuse the trap door platform from 1st rung on the final height.

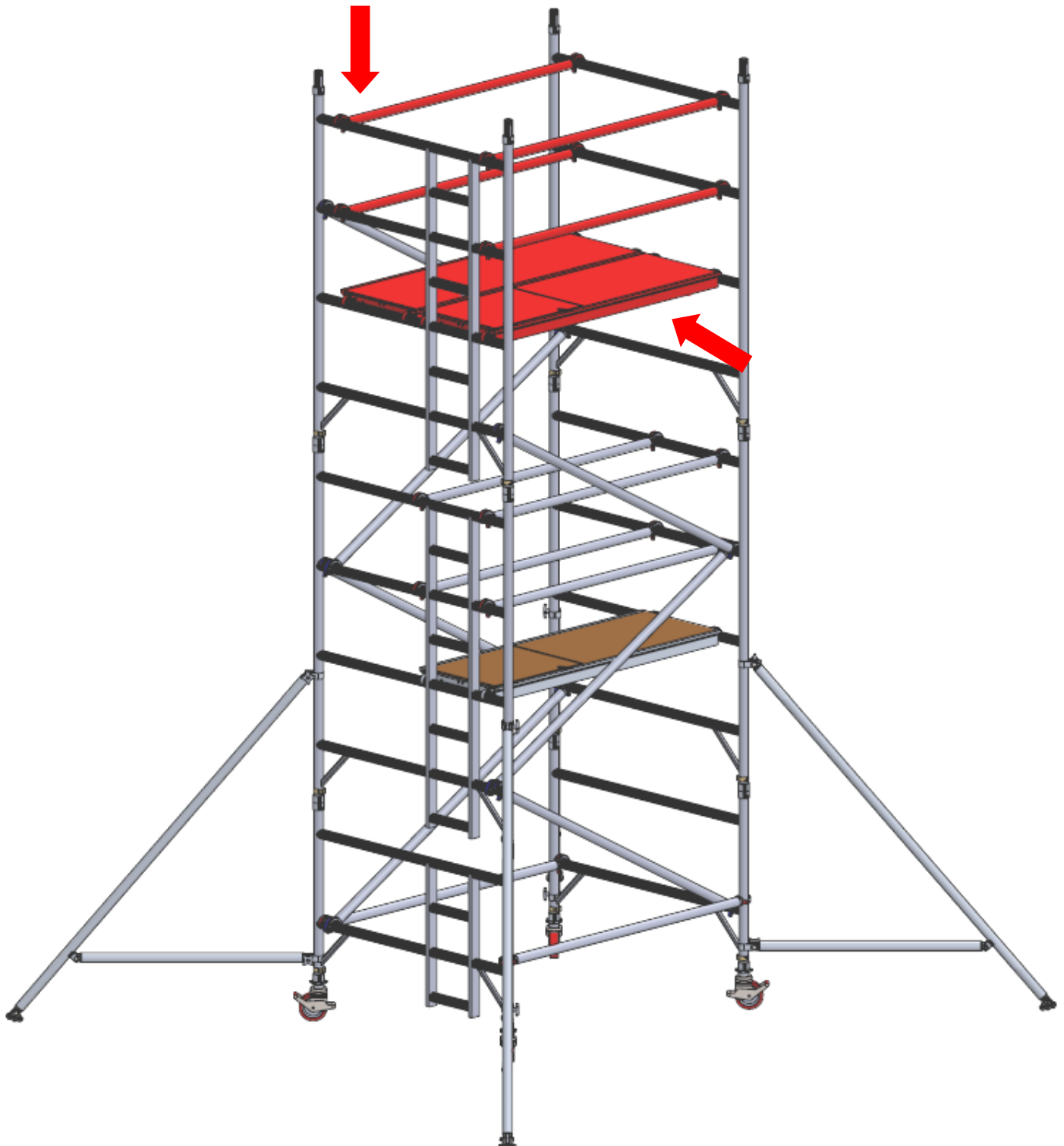


8.

Fit the final diagonal braces as shown. This stage will provide a platform height of 4m. Attach diagonal braces as per fig. 7. The 1st rung trap door platform should be moved up to the 8th rung, the fixed platform can now be fitted alongside it.

LOCK WIND LOCKS.

Climb up the ladder and from a protected 'through the trapdoor' position, fit horizontal guardrail braces to the 9th and then the 10th rungs on both sides of the tower. Complete the tower assembly by following step 9.



9.

Fit toe boards to all working platforms either folding aluminium or toeboard clips and planks.  
(see instructions on page 10)

**Toeboard clips and Planks to only be used on some platform heights, refer to component configurations on pages 23 and 24 .**



**Maximum distance between platforms should not exceed 2.25m.  
Maximum distance to first platform should not exceed 3.2m**

## STABILISERS

Attach one stabiliser to each corner of tower at approx. 45 degrees. The bottom clamp should be fitted as low as possible, refer to the diagram opposite. Ensure that all four rubber feet are in contact with the ground and that the clamps are secured. Bottom arm of the stabiliser should be as close to horizontal as possible.

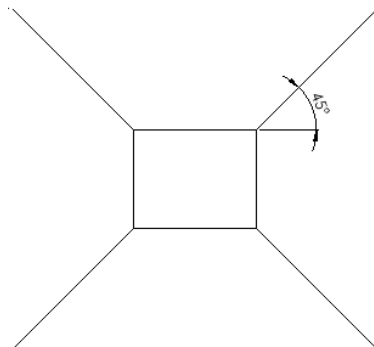
When using the S7 & S10 stabilisers, always extend the telescopic legs to their maximum position and lock into position with the interlock clip.

When moving the tower lock each leg just clear of the ground, unlock castors ensuring area is firm and clear of all obstructions both on the ground and above.

After moving check all castors are firmly on the ground and locked, and that the tower is vertical. Re-position stabilisers as above.

## STABILISERS & BALLAST

Stabilisers or outriggers and ballast shall always be fitted when specified. When using the MAT externally stabilisers must be fitted. Should ballast be required, a platform should be positioned on the lowest rung and the weights should be firmly attached to it and evenly distributed. For advice on ballast contact your supplier.

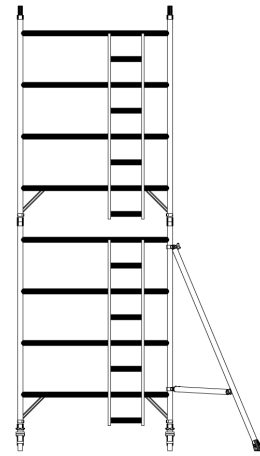


### STABILISERS—S7

S7 Stabiliser maximum platform heights

Single Width 850  
Indoors 4.2m, Outdoors 4.2m

Double Width 1450  
Indoors 4.2m, Outdoors 4.2m

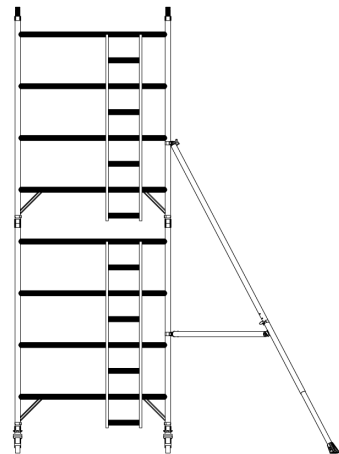


### STABILISERS—S10

S10 Stabiliser maximum platform heights

Single Width 850  
Indoors 12.2m, Outdoors 7.2m

Double Width 1450  
Indoors 12.2m, Outdoors 7.2m

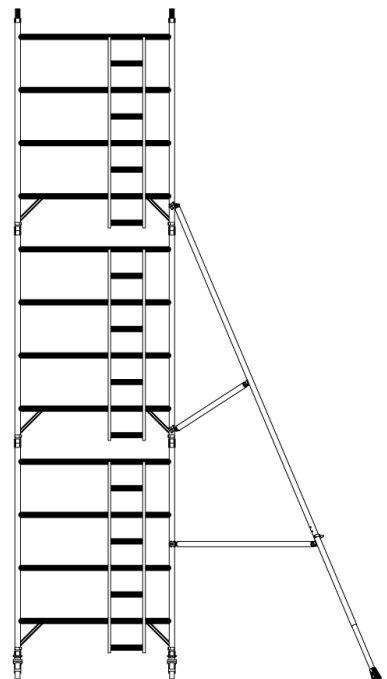


### STABILISERS—S15

S15 Stabiliser maximum platform heights

Single Width 850  
Indoors 12.2m, Outdoors 8.2m

Double Width 1450  
Indoors 12.2m, Outdoors 8.2m



# Dismantling

The dismantling procedure should follow the assembly steps in reverse order, take particular attention about the removal of guardrails and platforms.

You should ensure that you are standing in a safe position and always protected by guardrails NEVER remove diagonal braces or stabilisers prematurely.

After removing the toe-boards the operator disengages the horizontal guardrail brace clamps furthest from the trap door, horizontal guardrail braces are then removed with the operator positioned through the trap door before descending to the lower level, from where the upper platform and extensions/guardrail frames can be removed.

## NOTES:

DO NOT OVER-REACH and NEVER DROP COMPONENTS when dismantling always lower them to the ground.

## Pre-Use checklist

- Check Tower is level using spirit level
- All castors are locked and facing in at 45°
- All castors are in contact with the ground
- All frame clips are engaged
- All braces in position
- All platforms guarded by handrails as required
- All brace claws engaged fully and locked on
- All platform windlocks engaged
- Stabilisers fitted and secured
- Toeboards present on working platform
- Instruction manual available for reference
- Tower is correct height for intended use.
- Check environment before using tower, especially after it has been moved or left unattended.

# 850 Single Width

Configurations to BSEN 1004:-1:2020  
Available in two lengths: 1.8m & 2.5m

**Note:** When calculating Compatible tower shelf weight, the user needs to use the table on pg13 to compare weights of any exchanged components and adjust total tower weight accordingly.  
If you need further advice or help please contact the manufacturer.

Component		Working Height (M)	Internal and External Use																Internal Use Only							
Approx Kgs	Description	Platform Height (M)	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.8	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	
3.4	Castors	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	Adjustable Leg Unit	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
4.9	850 x 2 Rung Ladder Frame	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.7	850 x 2 Rung Span Frame	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.7	850 x 3 Rung Ladder Frame	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	850 x 3 Rung Span Frame	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.5	850 x 4 Rung Ladder Frame	1	1	1	1	1	1	2	2	3	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6
9.0	850 x 4 Rung Span Frame	1	1	1	1	1	1	2	2	3	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5	6
11.8	1.8m or 2.5m Fixed Platform																									
16.0																										
12.7	1.8m or 2.5m Trap Door Platform	1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	5	4	5	5	6	5	6	
16.3																										
2.1	1.8m or 2.5m Horizontal Brace	6	6	6	6	6	6	10	10	10	14	14	14	14	18	18	18	18	22	22	22	22	26	26	26	
2.3																										
2.2	2.1m or 2.7m Diagonal Brace	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	18	19	20	21	22	23	
2.4																										
4.1	S7 Stabiliser	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
5.9	S10 Stabiliser																									
8.9	S15 Stabiliser																									
0.3	Toe Board Clips	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
0.9	Single End Plank	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
2.8	1.8m or 2.5m Side Plank	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
3.9																										
8.5	1.8m or 2.5m Aluminium Folding Toeboard	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0																										
74.6	Approx. Tower Shelf weight (Kgs) Toeboard Clips and Planks 1.8m	74.6	81.6	101.8	21.9	137.2	144.2	150.2	158.5	185.6	192.6	198.6	206.9	234	241	247	262.5	289.6	296.6	302.6	310.9	338	345	351		
74.7	Approx. Tower Shelf weight (Kgs) Aluminium Folding Toeboard 1.8m	74.7	817	101.9	122	137.3	144.3	150.3	158.6	185.7	192.7	198.7	207	234.1	241.1	247.1	262.6	289.7	296.7	302.7	311	338.1	345.1	351.1		
82	Approx. Tower Shelf weight (Kgs) Toeboard Clips and Planks 2.5m	82	83.8	104	124.1	139.4	146.4	152.4	160.7	187.8	194.8	200.8	209.1	236.2	243.2	249.2	264.7	291.8	298.8	304.8	313.1	340.2	347.2	353.2		
82.8	Approx. Tower Shelf weight (Kgs) Aluminium Folding Toeboard 2.5m	82.8	84.6	104.8	124.9	140.2	147.2	153.2	161.5	188.6	195.6	201.6	209.9	237	244	250	265.5	292.6	299.6	305.6	313.9	341	348	354		

# 1450 Double Width

Configurations to BSEN 1004:-1:2020

Available in two lengths: 1.8m & 2.5m

**Note:** When calculating Compatible tower shelf weight, the user needs to use the table on pg13 to compare weights of any exchanged components and adjust total tower weight accordingly.

If you need further advice or help please contact the manufacturer.

Component	Working Height (M)	Internal and External Use																			Internal Use Only									
		Approx. Kg	Description	Platform Height (M)	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2			
3.4	Castors		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	Adjustable Leg Unit		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			
5.4	1450 x 2 Rung Ladder Frame		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			
4.0	1450 x 2 Rung Span Frame		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			
8.0	1450 x 3 Rung Ladder Frame		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			
5.6	1450 x 3 Rung Span Frame		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			
10.4	1450 x 4 Rung Ladder Frame		1	1	1	1	1	2	1	2	2	3	2	3	3	4	4	3	4	4	4	4	4	4	4	4	4			
7.1	1450 x 4 Rung Span Frame		1	1	1	1	1	2	1	2	2	3	2	3	3	4	4	3	4	4	4	4	4	4	4	4	4			
11.8	1.8m or 2.5m Fixed Platform		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			
16.0	1.8m or 2.5m Trap Door Platform		1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4			
12.7	1.8m or 2.5m Horizontal Brace		6	6	6	6	10	10	10	10	10	14	14	14	14	18	18	18	18	18	18	18	18	18	18	18	18			
2.1	2.1m or 2.7m Diagonal Brace		2	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	15	15	15	15	15	15	15	15	15			
2.2	S7 Stabiliser		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			
5.9	S10 Stabiliser										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
8.9	S15 Stabiliser																													
0.3	Toe Board Clips		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			
1.8	Double End Plank		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
2.8	1.8m or 2.5m Side Plank		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
3.9	1.8m or 2.5m Aluminium Folding Toeboard		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			
10.5	1.8m or 2.5m Aluminium Folding Toeboard		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			
Approx. Tower Shelf weight (Kgs) Toeboard Clips and Planks 1.8m			87.2	94.9	115.2	121.6	148.8	156.5	162.6	169.0	196.2	203.9	210.0	216.4	243.6	251.3	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4			
Approx. Tower Shelf weight (Kgs) Aluminium Folding Toeboard 1.8m			87.5	95.2	115.5	121.9	149.1	156.8	162.9	169.3	196.5	204.2	210.3	216.7	243.9	251.6	257.7	257.7	257.7	257.7	257.7	257.7	257.7	257.7	257.7	257.7	257.7			
Approx. Tower Shelf weight (Kgs) Toeboard Clips and Planks 2.5m			97.2	105.4	125.7	132.6	164.7	172.9	179.5	186.4	218.5	226.7	233.3	240.2	272.3	280.5	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1			
Approx. Tower Shelf weight (Kgs) Aluminium Folding Toeboard 2.5m			99.5	107.7	128.0	134.9	167.0	175.2	181.8	188.7	220.8	229.0	235.6	242.5	274.6	282.8	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4			





# RISK ASSESSMENT COMPLETION FORM

NO	DATE
Site & Location	
Assessment carried out by:	
Signed _____	
MAIN ACTIVITY/SITUATION	

NOTE		<b>A – Personnel at Risk</b>	<b>B – Severity</b>	<b>C – Probability</b>	
		Employee [E] Contractor [C] Public [F]	Negligible [1] Minor Injury [2] Serious Injury [3] Major Injury [4]	Impossible [1] Improbable [2] Remote [3] Occasional [4]	Probable [5] Frequent [6]

NO	Activity/Location Materials/Tools etc.	Hazards Identified	Risk Rating (B x C)		Equipment to be used to minimise risk		Risk Rating (B x C)		Action By
			A	B	C	B	C		

Risk value key: 1 – 4 = Acceptable, 5 – 9 = Medium – Investigate and where practicable reduce the risk, 10 – 14 = High – Action must be taken to reduce the risk  
**15 – 24 = VERY HIGH – RISK IS TOO HIGH TO START WORK OR CONTINUE, WORK MUST BE STOPPED**

# Notes:

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