

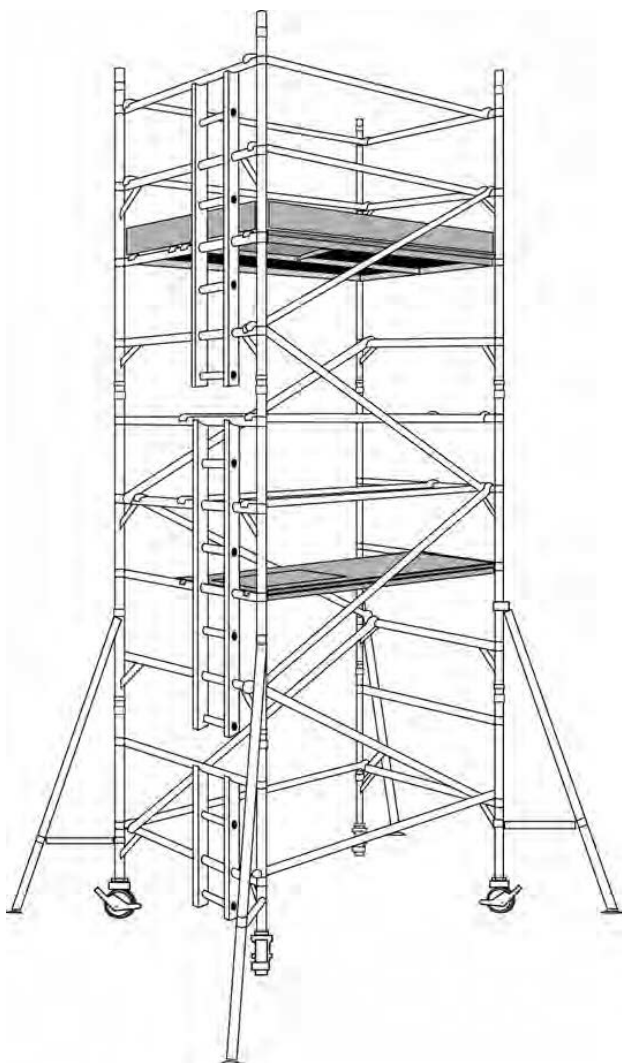
A SAFER WAY TO REACH NEW HEIGHTS

UTS 1450/850

Instruction Manual

Mobile Access Tower

3T - Through the trap method



Introduction

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 Guide 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.



KM 617169

UTS SALES & REPAIR LTD

Manufactured to BS EN 1004:2004 Class 3 8/12 XXXD

Instruction Manual BS: EN: 1298-IM-EN

A SAFER WAY TO REACH NEW HEIGHTS

UTS 1450/850

Instruction Manual Mobile Access Tower

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Description, Safety Notes & Fittings

The UTS 1450/850 tower is manufactured to BS EN 1004:2004 CLASS 3 8/12 XXXD and is KITEMARK MARKED. The KITE MARK is the universal symbol that reassures the user that the product is certified to BSI stated standards.

- 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 1450/850 has a maximum working height of 8 metres outdoors and 12 metres indoors.
- The maximum permissible load on the UTS 1450/850 tower is 550kgs and evenly distributed on each platform is 275kgs. This must not be exceeded over 2 work platforms, not including rest platform.
- Damaged or incorrect components shall not be used.

Safety Notes

ERECTION & DISMANTLING - THE 3T METHOD

Towers should be erected following a safe method of work, there are two approved methods recommended by 'prefabricated access suppliers and manufacturers' (PASMA) in co-operation with the health and safety executive (working at height regulations).

The method used for erecting and dismantling the UTS 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 (Part No.1026312-A2), 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 4)
- 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). Auxillary equipment and safety equipment. (ropes, etc)
- For your safety, during assembly and erection it is recommended that temporary horizontal guardrail braces be used. **All working platforms MUST have horizontal guardrails fitted.**
- The tower should always be accessed from the inside using the ladder frames provided.
- Never climb up the outside.
- 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 of access to other structures unless suitably tied.
- Beware of horizontal forces (e.g. when using power tools on an adjacent structure), which could generate instability or overturning of the tower.
- Maximum horizontal force 20kgs.

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.

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 14.

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

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. Relock the castors and readjust the stabilisers once in the new position.
- When moving the tower over rough or uneven sloping ground remove all tools.
- Do not move the assembled tower if over 4 metres high.
- Recheck that the MAT is vertical or needs readjustment of legs before ascending.
(Using spirit level)

It is recommended that towers should be tied to a solid structure, when left unattended.

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 metre intervals or less vertically.

FITTING TOE-BOARDS

1 piece folding toe board, fold out over platform making sure location angle rests fits securley on side of platform.

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 enviromental changes before every use. (ie: all weather conditions)

Refer to next page for wind effects.

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 laying 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.

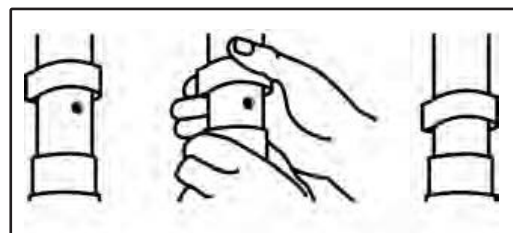
WIND EFFECTS

- 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 Metres 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 |

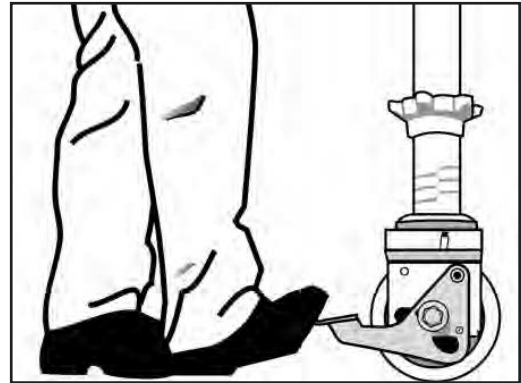
LOCKING CLIPS

Fit the locking clips as shown in the diagram opposite.



LOCKING CASTORS

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



Press to engage — lift to disengage

FITTING STABILISERS

Attach a stabiliser to each corner of the tower at approximately 45 degrees for maximum stability (refer to relevant illustrations), and attach the clamps where indicated.

On the S2 stabiliser use the telescopic leg for adjustment on uneven ground.

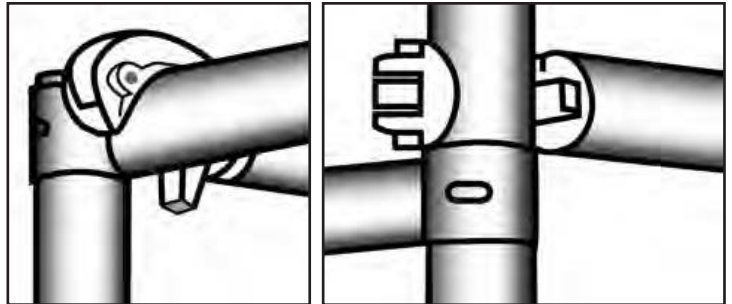
Make sure that all stabilisers are firmly in contact with the ground when using the structure.

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

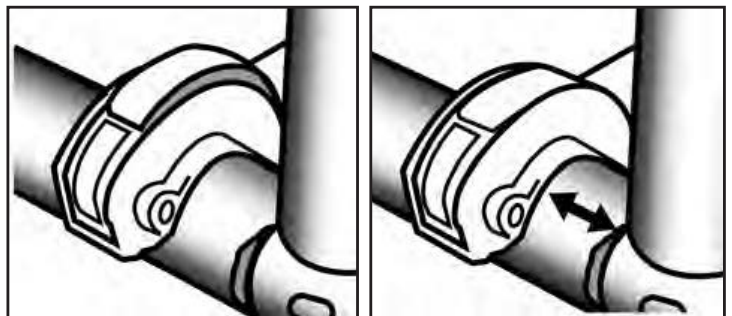


BRACE CLAMP LOCKING

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 arrow on the drawing on the right.

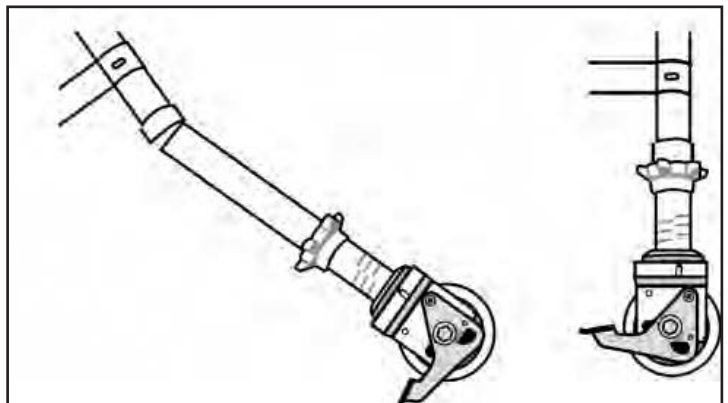
Un-Locked

Locked

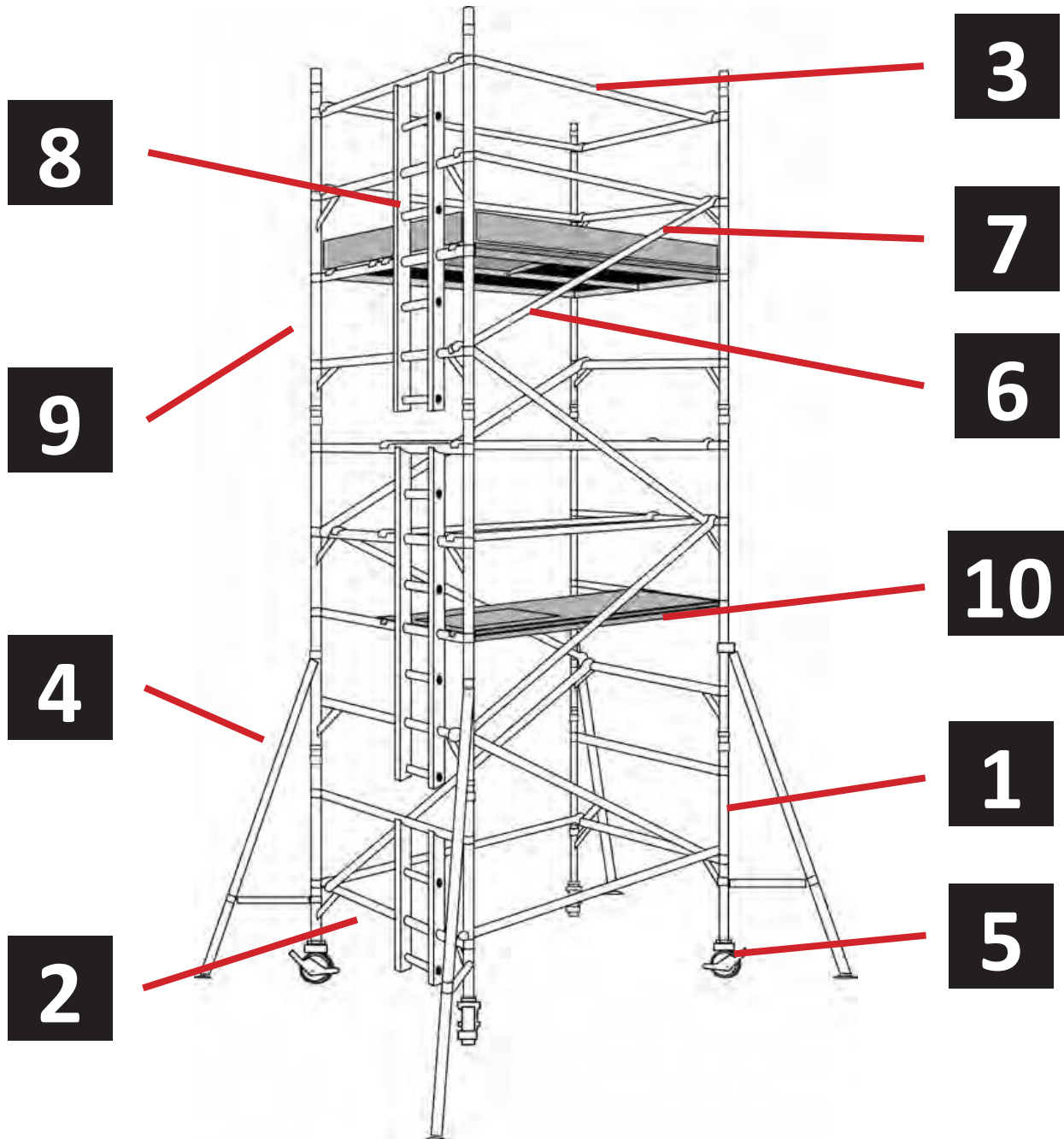


FITTING ADJUSTABLE LEGS

Take the adjustable leg assembly complete with its castors, make sure that all the adjusting nuts are positioned down at 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)

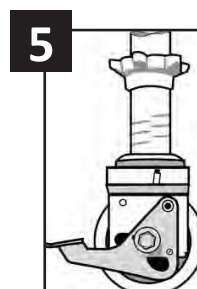


Identifying Components And Their Weights



COMPONENTS AND APPROX WEIGHTS

1. 2 RUNG FRAME Weight: 4.7 Kgs
2. 2 RUNG LADDER FRAME Weight: 8 Kgs
3. HORIZONTAL BRACE Weight: 1.9 Kgs
4. STABILISER S1/S2 Weight: 5.8/9.8 Kgs
5. ADJUSTABLE LEG ASSEMBLY Weight: 4.3 Kgs
6. TRAPDOOR PLATFORM Weight: 14.0 Kgs
7. DIAGONAL BRACE Weight: 2.0 Kgs
8. SIDE/END TOE-BOARD Weight: 3.2/1.0 Kgs
9. 4 RUNG LADDER FRAME Weight: 16 Kgs
10. 4 RUNG FRAME Weight: 9 Kgs



When building structures over 4.2 metres remove platform and 4 horizontal braces from platform height at 2.2 meters and use to complete structure.

Assembly Procedure

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

Access platform/working height;

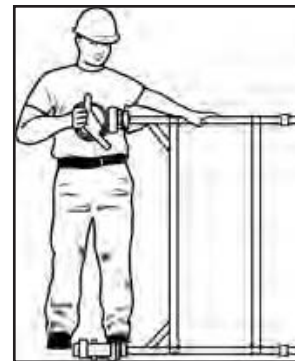
For even platform height towers (2m/4m/6m) you **MUST** start with a 2 RUNG FRAME.

For odd platform height towers (3m/5m/7m) **ALWAYS** start with a 4 RUNG FRAME.

For intermediate height platform towers (2.5m/3.5m/4.5m) **ALWAYS** start with a 3 RUNG FRAME.

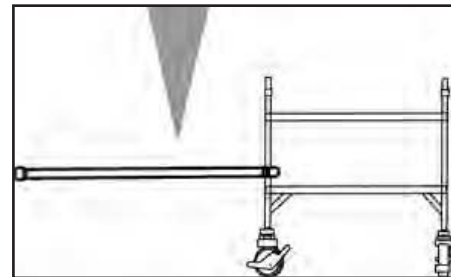
1

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



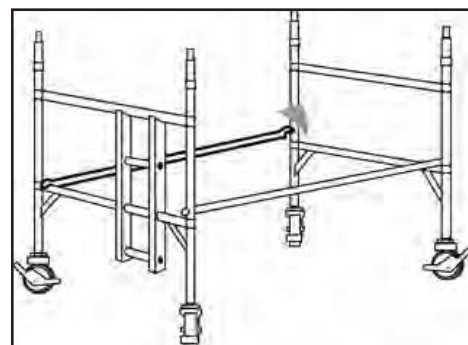
2

Attach one horizontal brace to the inside of the rung frame just above the bottom rung, claws facing outwards. 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 locking downwards, 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.

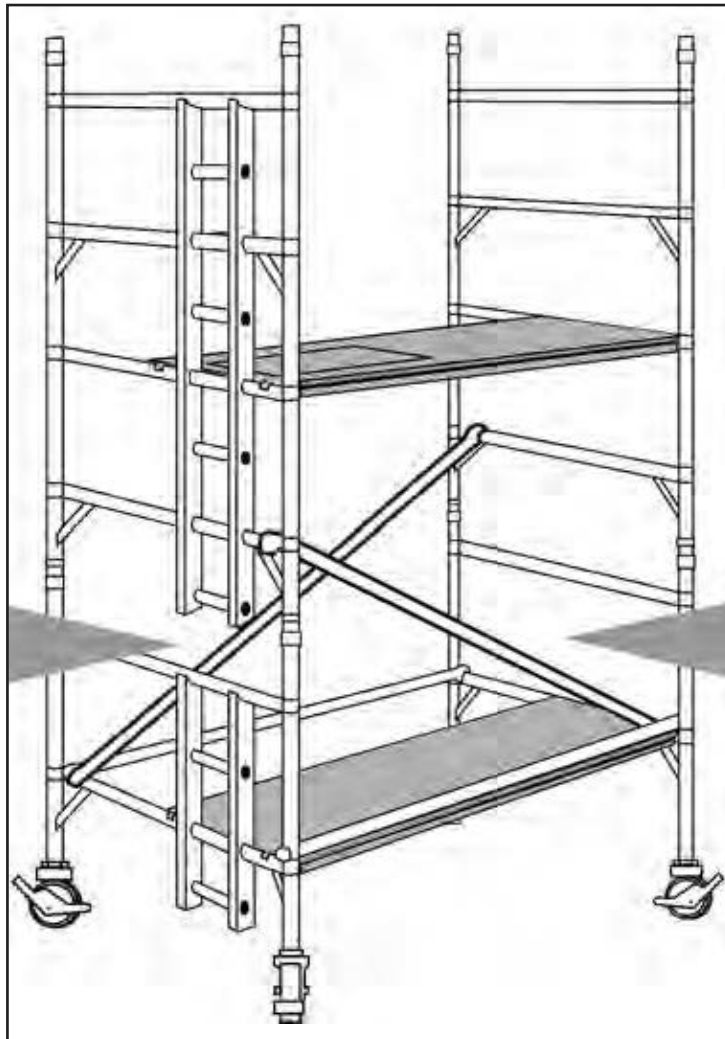
When working on the platform never over reach

The end frames should provide a firm hand hold.

Assembly (cont'd)

4

Insert 4 rung frames to correspond with the 2 rung frames (fig. 3) and lock the locking clips (refer to page 4). Attach diagonal braces on both sides from the 1st rung to the 3rd rung of the structure, in opposing directions. Place a solid deck 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.



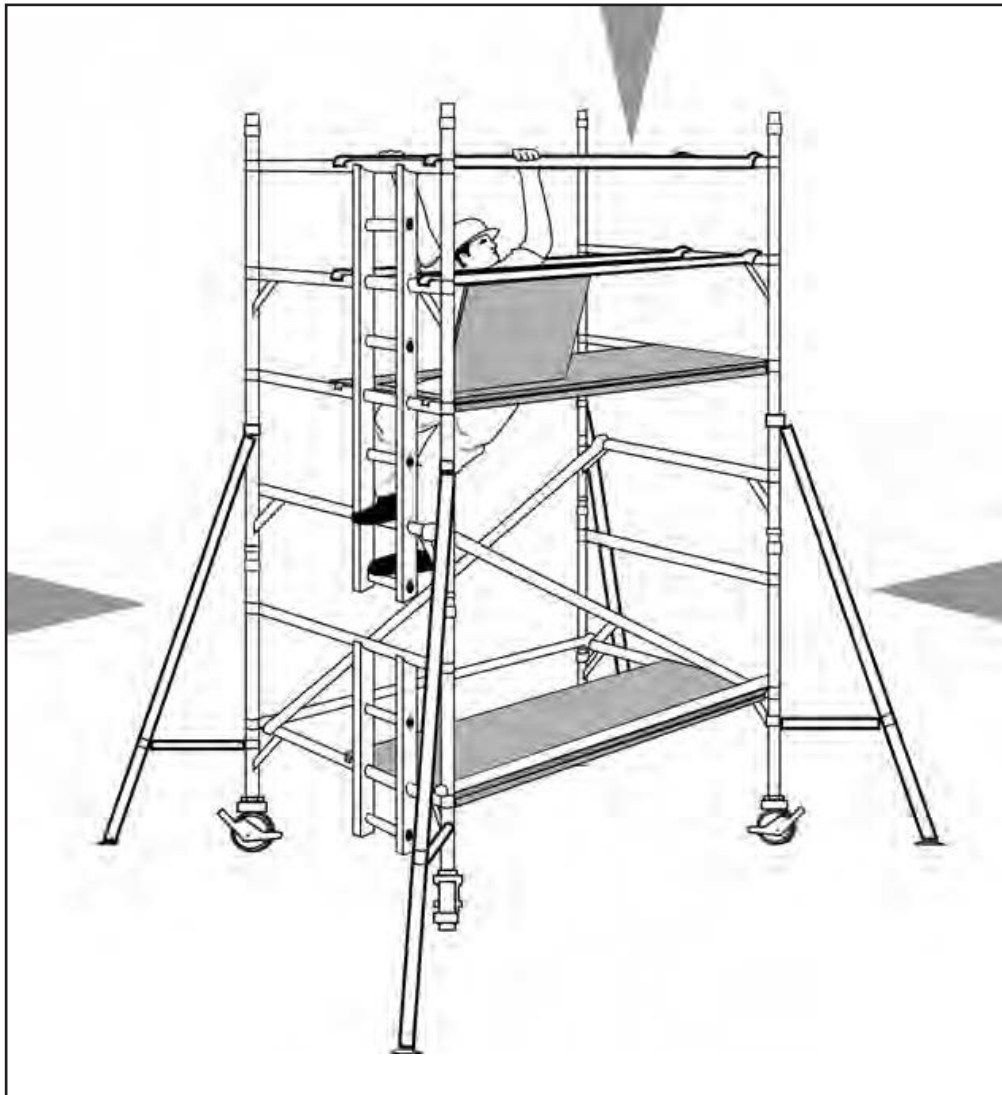
*Platform can be placed at bottom of tower if required. As shown in diagram

Assembly (cont'd)

5

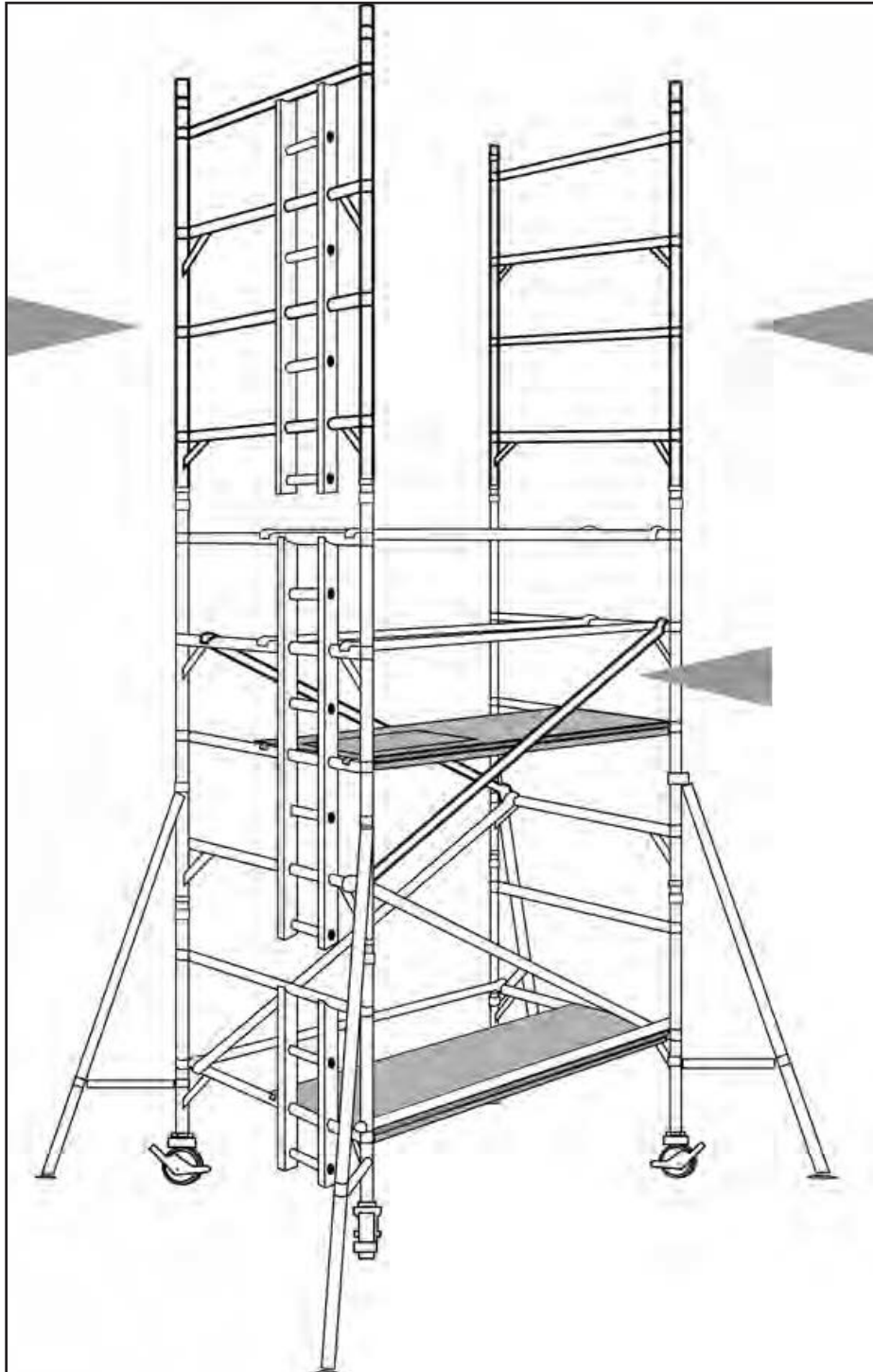
Attach stabilisers as required for working height (see table page 15). Climb the ladder and from a protected through the trapdoor position, attach horizontal guardrail braces to the 5th and then 6th rungs, on both sides of the platform.

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



Assembly (cont'd)

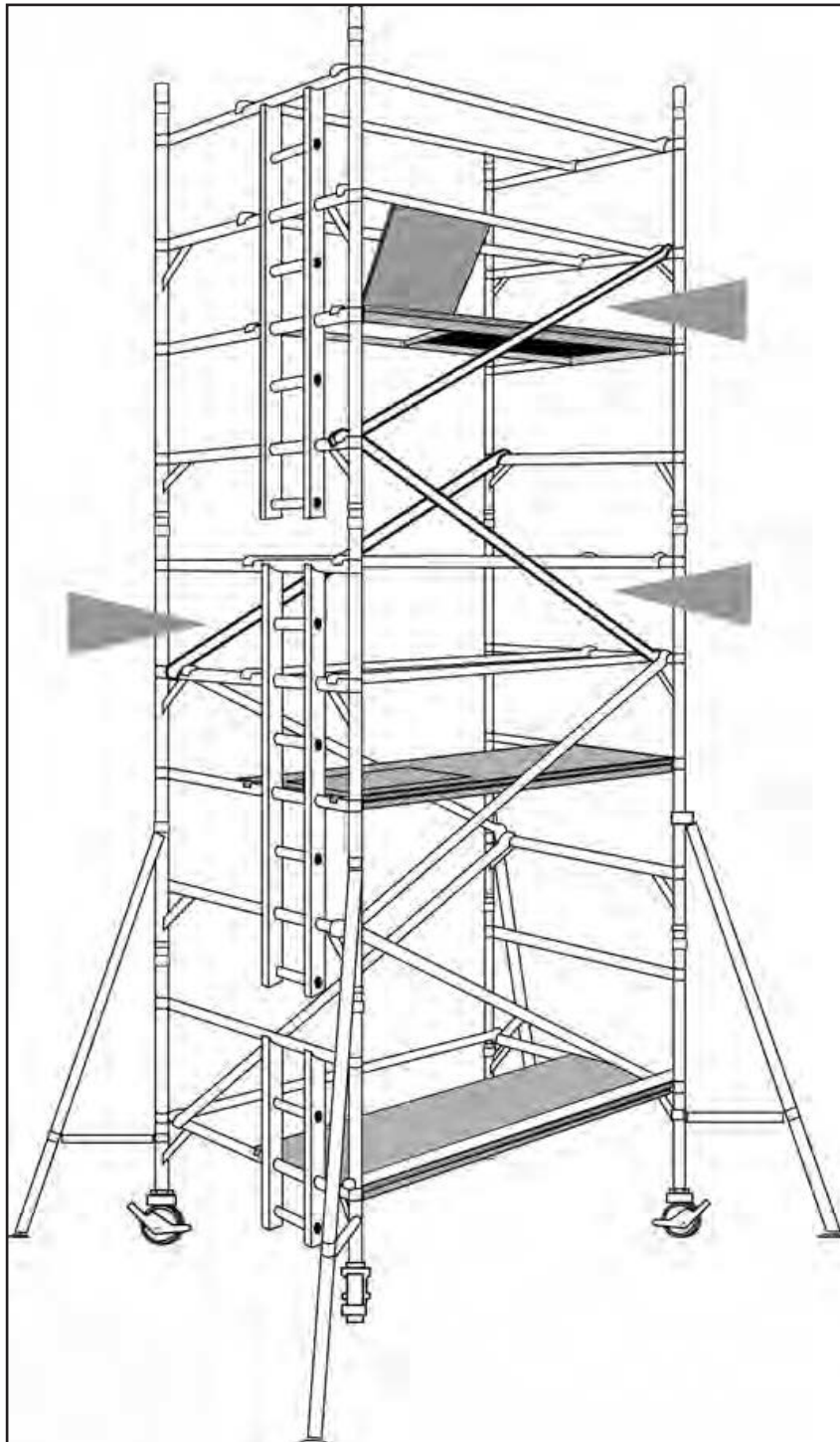
- 6** Attach 2nd pair of diagonal braces following on from the previous ones. Attach the next 4 rung frames and lock clips (as per fig. 6).



Assembly (cont'd)

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.

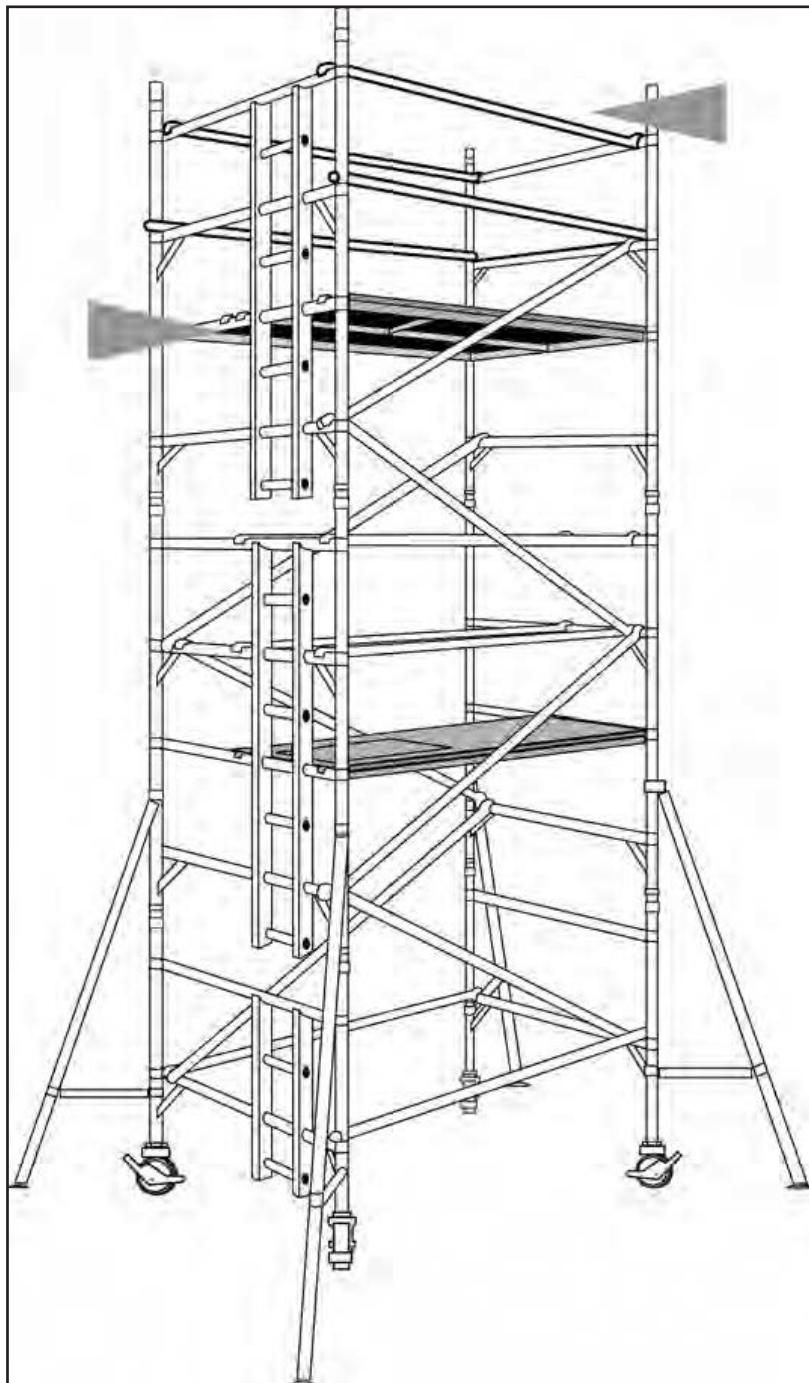


Assembly (cont'd)

8

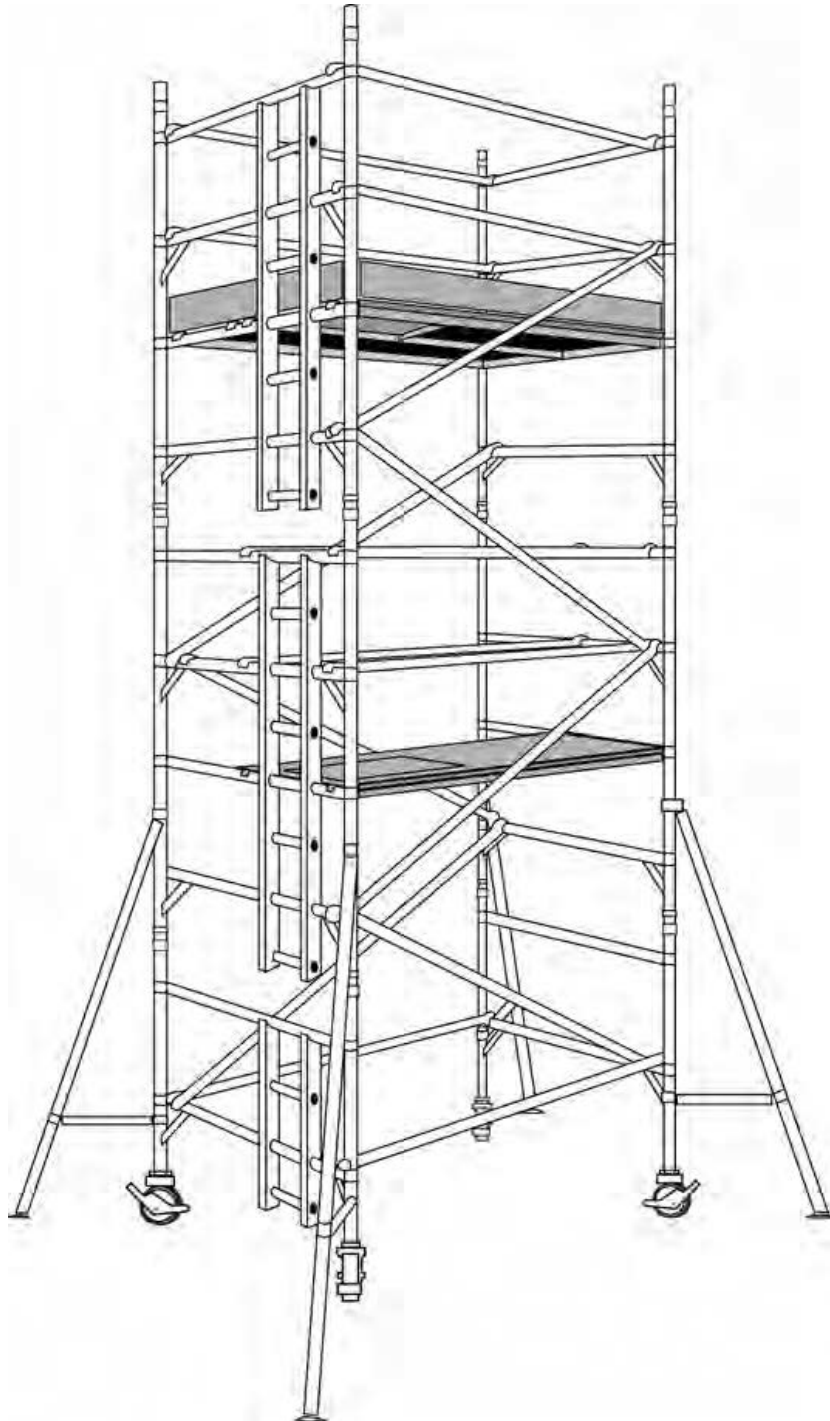
Fit the final diagonal braces as shown. This stage will provide a platform height of 4m. Attach diagonal braces as per fig. 7. The fixed platform should be moved up to the 8th rung and moved across to the far side of the structure, the trapdoor platform can now be fitted alongside it. LOCK WIND LOCKS.

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.



Assembly (cont'd)

- 9** Fit toe boards to all working platforms. (see instructions on page 3)



When building structures over 4.2 metres remove platform and 4 horizontal braces from platform height at 2.2 meters and use to complete structure.

Dismantling

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

You should ensure that you are standing in a safe position and protected by guardrails at all times **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.

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.

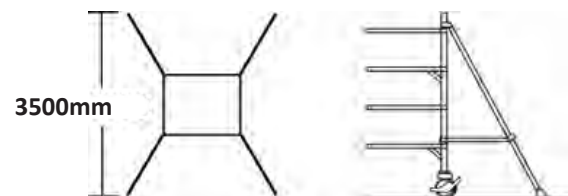
Position stabilisers as shown in the diagrams.

When using the S2 stabilisers, always extend the telescopic legs to their maximum position and lock into position with the interlock clip.

When moving the tower lock each telescopic 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 - S1



Static Stabiliser maximum platform height

Single Width 850

Indoors 8.2

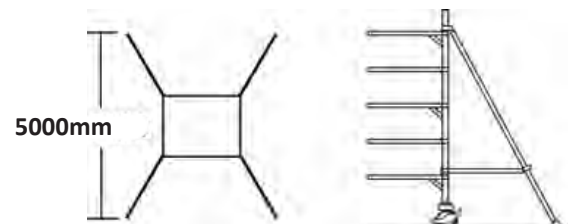
Outdoors 8.2

Double Width 1450

Inside 9.2

Outdoors 9.2

STABILISERS - S2



Telescopic Stabiliser

Single width 850

Indoors 8.7 - 12.2

Double Width 1450

Indoors 8.7 - 12.2

UTS 850

to BS EN 1004:2004 Available in two lengths; 1.8m & 2.5m

| Description | Working Height (M) | 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 |
|---------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Platform Height | 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 |
| Castors | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 300mm Threaded Adjustable Leg | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| UTS 1450 2 Rung Ladder | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 |
| UTS 850 2 Rung Frame | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 |
| UTS 850 3 Rung Ladder | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| UTS 850 3 Rung Frame | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| UTS 850 4 Rung Ladder | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 |
| UTS 850 4 Rung Frame | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 |
| 1.8m or 2.5m Fixed Platform" | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.8m or 2.5m Trap Door Platform | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 1800 or 2500 Horizontal Brace | 6 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 14 |
| 2100 or 2700 Diagonal Brace | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 15 |
| 2100 or 2500 Long Toe Board | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Folding Toe Board | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1 Stabiliser | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| S2 Adjustable Stabiliser | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------------------------------------|------|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|
| Approx Tower Self-Weight (kgs) 1800 | 94.2 | 99.7 | 127 | 133 | 138 | 144 | 149.3 | 155 | 161 | 188 | 193 | 199 | 214.9 |
| Approx Tower Self-Weight (kgs) 2500 | 104 | 110 | 144 | 151 | 157 | 163 | 169 | 175 | 181 | 215 | 221 | 228 | 244 |

INTERNAL USE ONLY

| | | | | | | | |
|------|------|------|------|------|------|------|------|
| 10.7 | 11.2 | 11.7 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 |
| 8.7 | 9.2 | 9.7 | 10.2 | 10.7 | 11.2 | 11.7 | 12.2 |
| 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 | |
| 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 14 | 14 | 14 | 14 | 18 | 18 | 18 | 18 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| | | | | | | | |
|-------|-----|-----|-------|-------|-------|-------|-------|
| 220.4 | 226 | 232 | 237.6 | 264.5 | 270.1 | 276.1 | 281.6 |
| 250 | 256 | 262 | 268 | 303 | 309 | 315 | 321 |

UTS 1450

to BS EN 1004:2004 Available in two lengths; 1.8m & 2.5m

| Description | Working Height (M) Platform Height | 4.2 2.2 | 4.7 2.7 | 5.2 3.2 | 5.7 3.7 | 6.2 4.2 | 6.7 4.7 | 7.2 5.2 | 7.7 5.7 | 8.2 6.2 | 8.7 6.7 | 9.2 7.2 | 9.7 7.7 | 10.2 8.2 |
|-----------------------------------|---------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Castors | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 300mm Threaded Adjustable Leg"" | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| UTS 1450 2 Rung Ladder" | | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 |
| UTS 1450 2 Rung Frame" | | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 |
| UTS 1450 3 Rung Ladder" | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| UTS 1450 3 Rung Frame" | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| "UTS 1450 4 Rung Ladder" | | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 |
| UTS 1450 4 Rung Frame" | | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 |
| 1.8m or 2.5m Fixed Platform"" | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.8m or 2.5m Trap Door Platform"" | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 1800 or 2500 Horizontal Brace"" | | 6 | 6 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 |
| 2100 or 2700 Diagonal Brace" | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| "2100 or 2500 Long Toe Board"" | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Folding Toe Board | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1 Stabiliser | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| S2 Adjustable Stabiliser | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Approx Tower Self-Weight (kgs) 1800 | 113 | 119 | 147 | 154 | 160 | 167 | 199 | 206 | 209 | 214 | 220 | 228 | 244 |
| Approx Tower Self-Weight (kgs) 2500 | 128 | 135 | 169 | 177 | 184 | 191 | 197 | 205 | 212 | 247 | 253 | 261 | 278 |

INTERNAL USE ONLY

| | | | | | | | |
|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 10.7 8.7 | 11.2 9.2 | 11.7 9.7 | 12.2 10.2 | 12.7 10.7 | 13.2 11.2 | 13.7 11.7 | 14.2 12.2 |
| 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 | |
| 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 14 | 14 | 14 | 14 | 18 | 18 | 18 | 18 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | |
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| | | | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 250 | 256 | 264 | 270 | 298 | 304 | 311 | 317 |
| 285 | 291 | 300 | 306 | 341 | 347 | 355 | 362 |

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