

# Ladderspan 3T 

Mobile Aluminium Tower 1450/850 Ladderspan

3T - Through the Trapdoor Method

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.

THIS PRODUCT SHALL ONLY BE USED IN ACCORDANCE WITH THIS MANUAL.

## FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO DEATH OR SERIOUS INJURY.

IF ANY ASPECT OF THESE INSTRUCTIONS CONFLICTS WITH LOCAL REGULATIONS PLEASE CONTACT WERNER UK SALES \& DISTRIBUTION LTD. FOR ADVICE.

Please note that diagrams are for illustrative purposes only.
Instruction manuals are also available to download at www.bossaccesstowers.com.
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.

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

If you need further information, design advice, additional instruction manuals or any other help with this product, please contact Werner UK Sales \& Distribution Ltd. on +44 (0)1621 745900 or email uk.customercare@wernerco.com.

## Compliances



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

This instruction manual is in compliance with EN1298-IM-en.

## 1 Safety First

### 1.2 Tower Designation

Design Code
Load Class (2 = 153kg/m² UDL, $3=204 \mathrm{~kg} / \mathrm{m}^{2}$ 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 ( $\mathrm{H} 1=1.85 \mathrm{~m}, \mathrm{H} 2=1.90 \mathrm{~m}$ )

### 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 Ltd.
- 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.


### 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 210 mm range of the adjustable legs.
- Adjustable legs should only be used for levelling purposes and never to gain extra height.
- Ensure distance from the ground to first climbing rung is less than 400 mm .
- 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 to access other structures.
- Ensure the safe working load on the structure is not exceeded.
- Tools and materials should be lifted using a reliable lifting material (e.g. a strong rope) employing a reliable knot (e.g. clove hitch) to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers).
- Check this manual is available and its contents familiar to all those involved.
- If assembling outdoors; check the forecast windspeed. The assembled tower is certified to wind forces equating to 27 mph , but handling components under those conditions would be hazardous. Also consider the wind funnelling effect of nearby buildings.
- Towers greater than 8.2 m 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.


## 2

Building the Tower
2.2 Component Diagram


## 2 Building the Tower

|  |  |  | Internal or External Use |  |  |  |  |  |  |  |  |  |  |  |  | Internal Use |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Component Code | Component | 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 | 10.7 | 11.2 | 11.7 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 |
|  |  | Platform Height (m) | 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 |
| 32842300 | Castor 150mm |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 33551300 | Adjustable Leg |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 61151300 | Ladder Frame 14502 Rung |  | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 |
| 60551300 | Span Frame 14502 Rung |  | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 |
| 61051300 | Ladder Frame 14503 Rung |  | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - |
| 60451300 | Span Frame 14503 Rung |  | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - |
| 60951300 | Ladder Frame 14504 Rung |  | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 60351300 | Span Frame 14504 Rung |  | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| $\begin{gathered} 30151100 / \\ 30251100 \end{gathered}$ | Fixed Deck 1.8m and 2.5m |  | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| $\begin{aligned} & 30451100 / \\ & 30551100 \end{aligned}$ | Trapdoor Deck 1.8m and 2.5m |  | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| $\begin{aligned} & 31251300 / \\ & 34851300 \end{aligned}$ | Horizontal Brace 1.8 m and 2.5 m (red) |  | 6 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 18 | 18 | 18 | 18 | 22 | 22 | 22 | 22 | 26 | 26 | 26 | 26 |
| $\begin{aligned} & 31351300 / \\ & 31451300 \end{aligned}$ | Diagonal Brace 2.1 m and 2.7 m (blue) |  | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| $\begin{gathered} 30450900 / \\ 30550900 \end{gathered}$ | Side Toe Board 1.8m and 2.5m |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30350900 | End Toe Board 1.45m |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30150900 | Toe Board Holder |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 31751300 | SP7 Fixed Stabiliser |  | 4 | 4 | 4 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 31851300 | SP10 Telescopic Stabiliser |  | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 31951300 | SP15 Telescopic Stabiliser |  | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | - | - | - | - | - | - | - | - |
| Tower Total Self-weight 1.8 m (kgs) |  |  | 116 | 145 | 149 | 159 | 163 | 211 | 216 | 226 | 230 | 258 | 263 | 288 | 292 | 304 | 309 | 319 | 323 | 351 | 356 | 366 | 369 |
| Tower Total Self-weight 2.5 m (kgs) |  |  | 131 | 165 | 170 | 180 | 184 | 239 | 243 | 254 | 257 | 292 | 296 | 323 | 327 | 346 | 350 | 360 | 364 | 399 | 403 | 414 | 418 |
| Max. Exerted Leg Load 1.8m (kgs) |  |  | 150 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 240 | 255 | 270 | 300 | 300 | 300 | 310 | 310 | 310 | 320 | 320 | 320 |
| Max. Exerted Leg Load 2.5m (kgs) |  |  | 170 | 170 | 180 | 180 | 190 | 190 | 200 | 200 | 210 | 260 | 305 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |

BoSS 850 Ladderspan to EN 1004: Available in 2 lengths - 1.8 m and 2.5 m

|  |  |  | Internal or External Use |  |  |  |  |  |  |  |  |  |  |  |  | Internal Use |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Component Code | Component | 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 | 10.7 | 11.2 | 11.7 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 |
|  |  | Platform Height (m) | 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 |
| 32842300 | Castor 150 mm |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 33551300 | Adjustable Leg |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 60851300 | Ladder Frame 8502 Rung |  | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 |
| 60251300 | Span Frame 8502 Rung |  | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | 1 | 1 |
| 60751300 | Ladder Frame 8503 Rung |  | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - |
| 60151300 | Span Frame 8503 Rung |  | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - |
| 60651300 | Ladder Frame 8504 Rung |  | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| 60051300 | Span Frame 8504 Rung |  | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 5 | 6 |
| $\begin{array}{r} 30151100 / \\ 30251100 \end{array}$ | Fixed Deck 1.8 m and 2.5 m |  | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - |
| $\begin{gathered} 30451100 / \\ 30551100 \end{gathered}$ | Trapdoor Deck 1.8m and 2.5m |  | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| $\begin{aligned} & 31251300 / \\ & 34851300 \end{aligned}$ | Horizontal Brace 1.8 m and 2.5 m (red) |  | 6 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 18 | 18 | 18 | 18 | 22 | 22 | 22 | 22 | 26 | 26 | 26 | 26 |
| $\begin{aligned} & 31351300 / \\ & 31451300 \end{aligned}$ | Diagonal Brace 2.1 and 2.7m (blue) |  | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| $\begin{array}{r} 30450900 / \\ 30550900 \end{array}$ | Side Toe Board 1.8m and 2.5m |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30250900 | End Toe Board 0.85m |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30150900 | Toe Board Holder |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 31751300 | SP7 Fixed Stabiliser |  | 4 | 4 | 4 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 31851300 | SP10 Telescopic Stabiliser |  | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 31951300 | SP15 Telescopic Stabiliser |  | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | - | - | - | - | - | - | - | - |
| Tower Total Self-weight 1.8 m (kgs) |  |  | 96 | 122 | 126 | 135 | 138 | 184 | 188 | 197 | 200 | 226 | 230 | 255 | 257 | 284 | 288 | 297 | 299 | 310 | 314 | 323 | 325 |
| Tower Total Self-weight 2.5m (kgs) |  |  | 106 | 139 | 142 | 152 | 154 | 208 | 211 | 220 | 223 | 256 | 259 | 285 | 288 | 305 | 308 | 318 | 321 | 354 | 357 | 367 | 369 |
| Max. Exerted Leg Load 1.8m (kgs) |  |  | 155 | 155 | 155 | 155 | 155 | 160 | 160 | 160 | 160 | 160 | 185 | 210 | 235 | 260 | 285 | 310 | 325 | 330 | 335 | 340 | 345 |
| Max. Exerted Leg Load 2.5m (kgs) |  |  | 140 | 140 | 150 | 150 | 150 | 150 | 160 | 160 | 170 | 170 | 175 | 200 | 230 | 230 | 240 | 250 | 260 | 270 | 280 | 285 | 285 |

## 2 Building the Tower

## Assembly Variations

This section lists the permitted component variation from the Quantity Schedule. Note: These substitutions must be made before assembly.
Stabilisers with Universal Clamps may be substituted:

| Component <br> Code | Description | Weight <br> $(\mathrm{kg})$ |
| :---: | :---: | :---: |
| 31751400 | SP7 | 4.0 |
| 31851400 | SP10 | 9.0 |
| 31951400 | SP15 | 13.1 |

Other Castor sizes and types may be substituted:

| Component <br> Code | Description | Weight <br> $(\mathrm{kg})$ |
| :---: | :---: | :---: |
| 31842300 | Diameter 150mm (Tyred) | 3.2 |
| 32942300 | Diameter 200mm | 3.9 |
| 31942300 | Diameter 200mm (Tyred) | 3.9 |

If side walk-through access is required at the base of $4.2 \mathrm{~m}, 6.2 \mathrm{~m}, 8.2 \mathrm{~m}, 10.2 \mathrm{~m}$ or 12.2 m platform height towers, high clearance frames may be used in place of the four lower diagonal braces and two lower horizontal braces.

High clearance frames must not be used in conjunction with walk-through frames.

| Component <br> Code | Description | Weight <br> $(\mathrm{kg})$ |
| :---: | :---: | :---: |
| 30051500 | High Clearance Frame <br> 1.8 m | 10.0 |
| 30151500 | High Clearance Frame <br> 2.5 m | 12.0 |



## 2 Building the Tower

If end walk-through access is required at the base of $2.2 \mathrm{~m}, 4.2 \mathrm{~m}, 6.2 \mathrm{~m}, 8.2 \mathrm{~m}, 10.2 \mathrm{~m}$ or 12.2 m platform height, 1450 wide towers, walk-through frames may be used.

In this case the 1 m ladder frame and span frame must be fitted above the walk-through frames.
Walk-through frames must not be used in addition to high clearance frames.

| Component <br> Code | Description | Weight <br> $(\mathrm{kg})$ |
| :---: | :---: | :---: |
| 33151700 | Walk-through Frame <br> 2.0 m | 10.8 |



### 2.4 Stabilisers



|  | Double Width 1450 Tower Platform Length |  | Single Width 850 Tower Platform Length |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1.8m | 2.5 m | 1.8 m | 2.5 m |
| SP7 | 3351 | 3629 | 2294 | 3201 |
| SP10 | 4789 | 5100 | 4458 | 4734 |
| SP15 | 5520 | 5838 | 5195 | 5485 |

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.

## 2 Building the Tower

### 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 3T (Through the Trapdoor) method that provides collective fall protection.
- From the sitting position in the trapdoor opening fit all guardrails before standing on the platform.
- Fit braces in the locations described and ensure the claws are locked.

- The tower may be assembled by a single person, but it is recommended that two or more are used to pass up components on the taller assemblies.
- Components must be lifted within the footprint of the tower using a reliable method such as a strong rope with a clove hitch knot.
- Always start assembly with the smallest height frames at the base.

| $2.2,3.7,4.2,5.7,6.2,7.7,9.7,10.2,11.7,12.2$ | 2 Rung |
| :--- | :--- |
| $2.7,4.7,6.7,8.7,10.7$ | 3 Rung |
| $3.2,5.2,7.2,9.2,11.2$ | 4 Rung |

- Where all three frames are specified, start with the 2 rung, 3 rung next and 4 rung on top. Refer to the quantity schedule for details.
- Castor brakes should be locked as soon as the tower base is in position.
- The tower base should be levelled to within $0.6^{\circ}$ 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 climbing rung is less than 400 mm .
- Stabilisers of the size specified in the quantity schedule should be fitted at the earliest opportunity.


## 2 Building the Tower

### 2.5.1 Assembly for 1450 Towers

1 Push castor into adjustable leg. Push castor/adjustable leg assemblies into 2 rung span frame. Lock castors. Repeat procedure with 2 rung ladder frame.

It is recommended that for ease of levelling a gap of 50 mm is left between the bottom of the leg and the adjustable nut. Adjustable legs are for levelling only. You must not adjust all four to gain extra height.


Fit one horizontal brace (red) onto the vertical of a span frame, just above the bottom rung, with the claw facing outwards. The frame will now be self-supporting.
Note: All locking claws must be opened before fitting.


## 2 Building the Tower

3 Position the ladder frame as shown and fit the other end of the horizontal brace on to the vertical (just above the bottom rung). Fit a second horizontal brace between the bottom rungs on the other side of the frames to square the tower.


4 Fit two additional end frames, ensuring the frame interlock clips are engaged. Fit two diagonal braces (blue) in opposing directions, between the $1^{\text {st }}$ and the $3^{\text {rd }}$ rungs. Ensure the frames are vertical and level by checking with a spirit level and setting the adjustable legs as required.


## 2 Building the Tower

5 Fit a temporary deck on the lowest rungs. Fit a trapdoor deck on the $4^{\text {th }}$ rung $(2.0 \mathrm{~m})$ with the trapdoor next to the ladder. Ensure the trapdoor is positioned with the hinges towards the outside of the tower as shown. Climb the ladder and, from the protected trapdoor position, fit guardrails on the $5^{\text {th }}$ and $6^{\text {th }}$ rungs (in that order) on both sides of the platform.
Do not climb onto the deck until all guardrails are in place.
When horizontal braces are fitted as guardrails, they should be 0.5 m and 1.0 m (1 and 2 rungs) above the platform level in all cases. Remove the temporary deck from the lowest rung.


Fit stabilisers
(see notes on page 9).


## 2 Building the Tower

Fit the next pair of diagonal braces in opposing directions between the $3^{\text {rd }}$ and $5^{\text {th }}$ rungs. Add two additional end frames.
 Add two more diagonal braces between the $5^{\text {th }}$ and $7^{\text {th }}$ rungs. If finishing at this height ( 4.2 m platform) reposition the fixed deck to the $8^{\text {th }}$ rung on the tower. Fit a trapdoor deck alongside it, with the hinges towards the outside of the tower, and the trapdoor next to the ladder. Add two more diagonal between the $7^{\text {th }}$ and $9^{\text {th }}$ rungs as shown. Climb up the ladder, and from the protected trapdoor position, fit the guardrails on the $9^{\text {th }}$ and $10^{\text {th }}$ rungs, in that order, on both sides of the tower.


## 2 Building the Tower

8Continue to add pairs of end frames, diagonal braces and fit trapdoor decks as shown in the previous steps. Add guardrails at 0.5 m and 1.0 m , (in that order), above the platform from the protected trapdoor position.

Do not climb onto the deck until all guardrails are in place.

Continue until the required height is reached. Re-position the fixed deck to the required platform height and fit a trapdoor deck alongside it as shown in Stage 7. Fit a single diagonal at the top of the tower as shown in Stage 7. Fit the final guardrails as shown in Stage 7.


Fit toe boards.
The tower is now complete.


## 2 Building the Tower

### 2.5.2 Assembly for 850 Towers

The procedure illustrated shows a 3.2 m platform height tower starting with a 4 rung frame.

1 Insert adjustable leg/castor assemblies into end frames and lock the castors (see diagram Step 1 - page 11). Base plates can be fitted to the adjustable legs if it is not necessary to move the tower. Fit two horizontal braces to the 850 end frames as shown in Steps 2 and 3 for the 1450 tower procedure (pages 11 and 12).
2 Fit a trapdoor deck on the $2^{\text {nd }}$ rung. Fix the horizontal braces (red) as guardrails on the $3^{\text {rd }}$ and $4^{\text {th }}$ rungs (2 and 4 rungs above the platform) on both sides of the tower.


## 2 Building the Tower

Fit two diagonal braces in opposing directions between the $1^{\text {st }}$ and $3^{\text {rd }}$ rungs. Ensure that the frames are vertical and level by checking with a spirit level and setting the adjustable legs as necessary. Fit stabilisers (see notes on page 9). Fit the next pair of end frames and check the frame interlock clips are engaged.

Important - Only use the adjustment on the legs to level the tower and not to gain extra height.


4Fit two pairs of diagonal braces in opposing directions between the $3^{\text {rd }}$ and $5^{\text {th }}$ rungs and the $5^{\text {th }}$ and $7^{\text {th }}$ rungs. Locate a trapdoor deck on the $6^{\text {th }}$ rung, with the trapdoor next to the ladder.


## 2 Building the Tower

5Climb up the inside of the tower and from the protected position of the trapdoor, fit guardrails to the $7^{\text {th }}$ and $8^{\text {th }}$ rungs (in that order) on both sides of the tower.
 Continue the procedure until the required working height is reached, adding additional pairs of end frames, diagonal braces and fitting trapdoor platforms, as shown on previous steps. At every platform level, add horizontal braces as guardrails from the protected position within the trapdoor (as shown in Step 5).
Fit two diagonal braces at the top of the tower as shown.

Fit the toe boards.
The tower is now complete.


### 2.6 Dismantling

To dismantle the tower, reverse the assembly procedure.
When removing the guardrails unlock the four claws furthest from the trapdoor and return immediately to the protected position within the trapdoor. The other claws can then be unlocked, and the guardrails removed from the tower .

## 3 Using the Tower

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

### 3.2 Pre-Use Checklist

Tower upright and level to within $0.6^{\circ}$
Castor brakes locked
All interlock clips engaged
Braces/Guardrails correctly positioned
All claws latched
All platform wind latches engaged
Correct stabiliser size fitted and positioned
Toe boards fitted to working platform
Instruction manual available to user

## 3 Using the Tower

### 3.3 Use

- This tower must not be used as an anchor point for personal fall arrest equipment.
- 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.
- Ensure the safe working load on the structure is not exceeded. See tower designation.
- Do not use boxes, stepladders or other objects to gain extra height.
- The adjustable legs are for levelling the tower only. They must not be used to gain extra height.
- Beware of horizontal forces that might cause instability. Maximum horizontal force $=30 \mathrm{~kg}$.
- Beware of high winds. This tower has been assessed as a freestanding structure for wind loads equating to $27 \mathrm{mph}(43 \mathrm{kph}, 12 \mathrm{~m} / \mathrm{s})$. If greater windspeeds are forecast the tower must be moved to a sheltered location or dismantled while it is still safe to do so.
- Sheets, tarpaulins, or signage must not be attached to this tower outdoors.
- Towers above 8.2 m platform height are for indoor use only.


## 3 Using the Tower

### 3.4 Movement of the assembled prefabricated tower scaffold

Ensure gloves or other suitable hand protection is worn.

## Before

- Survey the route to be taken. Assess the ground condition/slope and any overhead obstructions or hazards.
- Tower stability will be improved by reducing the height before movement.
- 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 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 25 mm . Re-tighten the clamps.


## During

- The tower must be moved only by manual effort, pushing at the base of the tower.
- 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, lower the stabiliser feet, and perform the pre-use inspection.


## BOSS

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

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