

# INSTANT UPRIGHT

## Span 400 Series Instruction Manual



### DESIGNATION

SPAN 400 / 400W Double Width  
EN 1004 – 3 – 8/12 – XXCD - H2  
SPAN 400 / 400W Single Width  
EN 1004 – 3 – 8/8 – XXCD - H2

CEN designation of this instruction manual

EN 1004-2-IM-EN  
Rev-0

EN 1004-1:2020

**⚠ WARNING**  
**NEVER STAND ON AN UNGUARDED PLATFORM**

## SAFE WORKING LOADS AND WORKING HEIGHTS

The safe working load at each level of platform is 360kg evenly distributed, regardless of whether one or two platforms are installed. Therefore, even if two platforms are installed side by side, total cumulative load shall not exceed 360kg distributed.

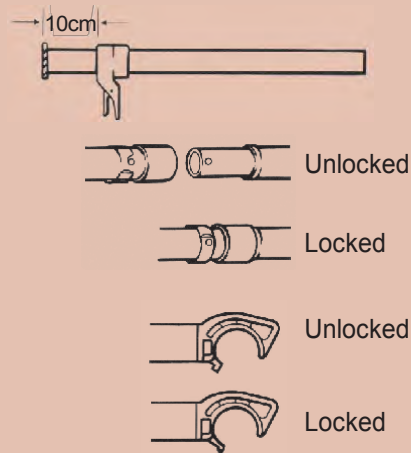
The total loading on the tower structure should not exceed 720kg. Normal maximum platform height for indoor use is 12m for Double Width, and 8m for Single Width. For outdoor use, the maximum height is 8m for Single and Double Widths.

Only one platform may be loaded at any one time.

### ASSEMBLY PROCESS

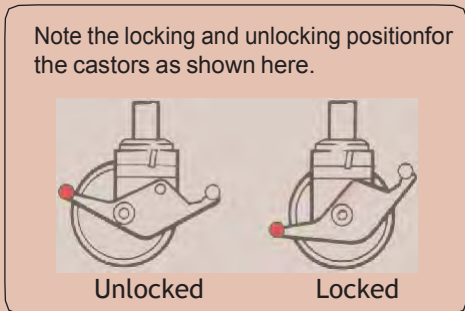
#### 1. Preparation

- Locate the tower level adjusters on each leg at 10cm (4 inches) from the bottom of the leg.
- Unlock the interlock clips on all frames.
- When installed, always move the interlock clip to the "locked" position.
- Sort the braces into horizontal and diagonal braces - the diagonals are slightly longer.
- Unlock the brace locks.



#### 2. Base

- Step 1: Install castor into adjustable leg.
- Step 2: Ensure interlock clips are released from the base frames (bottom frames).
- Step 3: Install castor / leg assembly to frame by pushing the leg into the frame tube. This should be done with manual force only, no tools.
- Step 4: Lock castors before ascending any part of the tower.



#### 3. Locking down the platform (Windlock)

A windlock clip is installed on the platform at the hook. This is locked as shown here.



## USAGE ADVICE

- We recommend a minimum of two people to assemble, dismantle and move the platform tower.
- Check that all components are on site and in good working order.
- Ensure that the assembly location is checked to prevent hazards during assembly, dismantling or moving and while working on the tower. Particular attention should be given to the ground condition, whether level or sloping, obstructions and wind conditions. The ground condition must be capable of supporting the tower structure.
- Towers can be climbed from the inside of the assembly using the ladder.
- Adjustable legs must only be used to level the tower.
- If the adjustable legs are to be extended by more than 150 mm; a risk assessment needs first to be undertaken by a competent person.
- Lifting of components must be done inside the effective base area of the tower; components are normally hoisted using a rope.
- Moving the tower must only be done by manual effect from the base of the tower.
- When moving tower be aware of overhead hazards (e.g. electric cables).
- No personnel or material to be on the platform whilst the tower is being moved.
- Beware of horizontal loads which can lead to instability of the tower. The maximum side force is 20kg.
- When tying-in the tower, attach a tie to each upright at 4m height intervals. Ensure that couplers are suitable for 50mm diameter aluminum tube.
- Do not use boxes or steps to gain additional height. If extra height required, contact your distributor to get extra components.
- Do not lift or suspend an assembled mobile tower.
- Damaged components or components from other tower systems must never be used.
- Stabilisers should always be fitted when specified. Use the stabiliser shown on the component list according to the tower height.
- When wind exceeds Beaufort force 4, cease using the tower.
- If wind is expected to reach Beaufort force 6, tie tower to a rigid structure.
- If winds of Force 8 are forecast, dismantle the tower or remove to shelter.

Wind speeds				
Force	Peak mph	Peak km/h	Peak m/s	Guidance
4	18	29	8.1	Moderate breeze - raises dust & loose paper
6	31	50	13.9	Strong breeze - difficult to use umbrella
8	48	74	20.8	Gale force - walking is difficult

## CARE AND MAINTENANCE

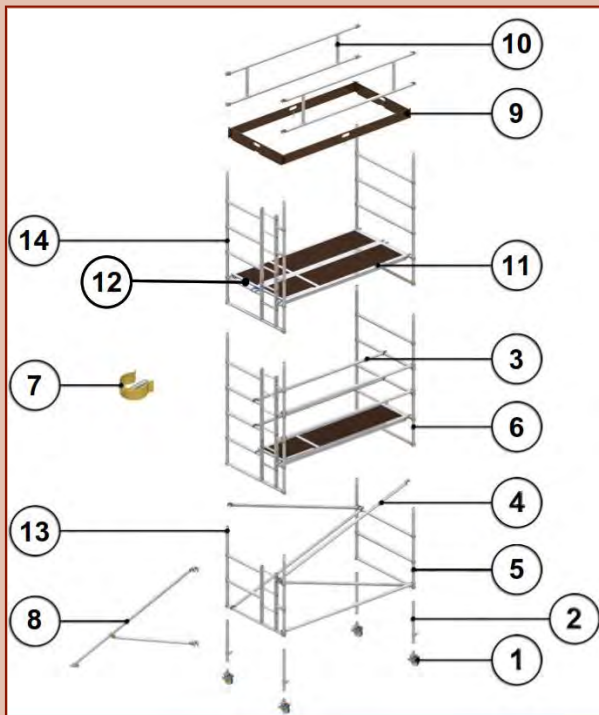
- Keep all equipment clean, especially spigots and sockets where frames join. Spigots should fit easily into sockets. Lubricate with light oil.
- Remove dirt or paint from adjustable legs with a light brush, lightly oil the leg locks.
- Do not strike or hammer components. Do not throw or drop onto hard surfaces.
- Lightly oil spring mechanism of the hooks.
- For transport and storage, components are best stored vertically.
- Damaged parts must be repaired or replaced; refer to the Instant Upright website for further advice or contact your equipment supplier for advice.

## MOVING TOWERS

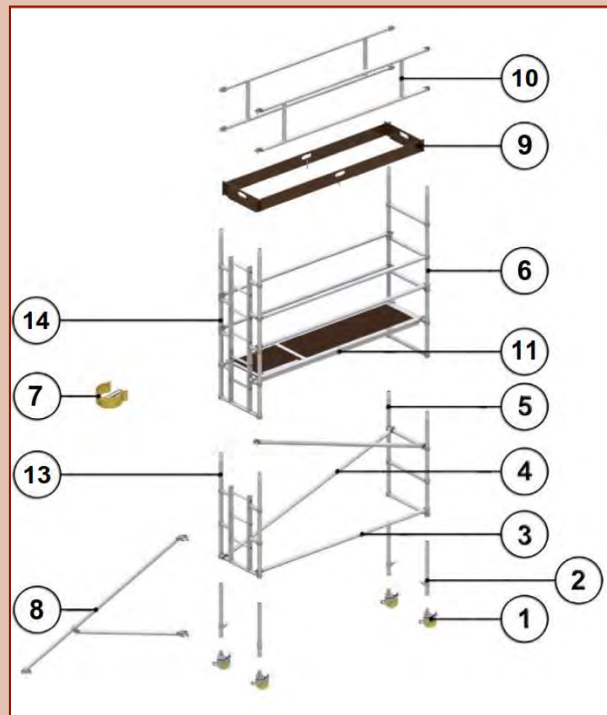
To Move the tower to a new position, first prepare the tower.

- Check that the wind speed does not exceed 29km/h (8.1m/s).
- Ensure the tower is empty (material and personnel).
- Check for overhead obstructions including electrical cables.
- Raise the stabiliser feet (only enough to clear obstructions).
- Taking care to ensure tower stability is maintained, insert any extended adjustable legs completely into the frame.
- Release the castor brakes.
- Carefully move the tower by manually applying force at the base. Do not use mechanical means to move the tower.
- Once positioned prepare the tower for use.
- Check and adjust as necessary to ensure all castors and stabilisers are in firm contact with the ground.
- Check that the tower is vertical using a spirit level.
- Reapply the castor brakes.

### EXPLODED VIEW



Span 400 / 400W - double width



Span 400 / 400W - single width

- |                      |                   |                              |
|----------------------|-------------------|------------------------------|
| 01. Castor           | 06. 5 Rung Frame  | 10. Guard-rail bracing frame |
| 02. Adjustable Leg   | 07. Frame clip    | 11. Trapdoor Platform        |
| 03. Horizontal Brace | 08. Stabiliser    | 12. Fixed Platform           |
| 04. Diagonal Brace   | 09. Toe-board set | 13. 3 Rung Ladder Frame      |
| 05. 3 Rung Frame     |                   | 14. 5 Rung Ladder Frame      |

## STABILISERS

Stabilisers are to be used, when specified. To guarantee the structural stability of the tower.

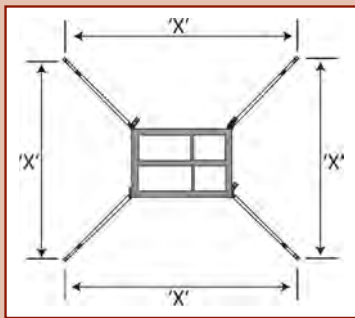


Fig 2



Fig 3



Fig 4

Telescopic Stabiliser	2m single platform x = 3730mm	2.5m single platform x = 3929m	3m single platform x = 4078mm
Large Stabiliser	x = 4440mm	x = 4660mm	x = 4841mm
Telescopic Stabiliser	2m double platform x = 4095mm	2.5m double platform x = 4333mm	3m double platform x = 4523mm
Large Stabiliser	x = 4792mm	x = 5042mm	x = 5252mm

### ALWAYS ENSURE STABILISER SIZE IS CORRECT AND ABLE TO SUPPORT TOWER

Lightly tighten the upper clamps above the sixth rung on each corner post. Position the lower clamp above the bottom rung. Ensure the lower arm is as horizontal as possible. Position the stabilisers so that the footpads are approximately equidistant from each other, as shown in Fig.2. Adjust the outrigger and reposition the clamps as required to make firm contact with the ground. Ensure the clips with locking pin are in place. When in the correct position, tighten the clamps firmly.

To position the tower against a wall, do not remove the stabiliser; move parallel with the wall. (Fig.3)

To position the tower in a corner, remove the inside stabiliser and place the outside two parallel with the wall. (Fig.4)

## ALTERNATIVE CONFIGURATIONS

This manual details the sequence for the building of towers with ladder frames and a single platforms up to the working level. Alternative builds may be adopted as follows:



### 2 platforms at every level

A second platform can be added (trapdoor not required) to each intermediate access platform level. (Double width towers only)

Fig 4.



### Inclined ladder access

Inclined ladders can be fitted for access to each platform level. If inclined ladders are used, then ladder frames can be replaced by standard frames in the build tables.

(Suitable for both single and double width towers)

Fig 5.



### Base Access Ladder

Optional base ladder access can be installed when platform is above 0.6m and easy access is required.

Fig 6

## BUILD TABLE ADJUSTMENTS



If inclined ladders are used, then ladder frames can be replaced by standard frames in the following build tables

Fig 7

Single Width tower with incline ladder access



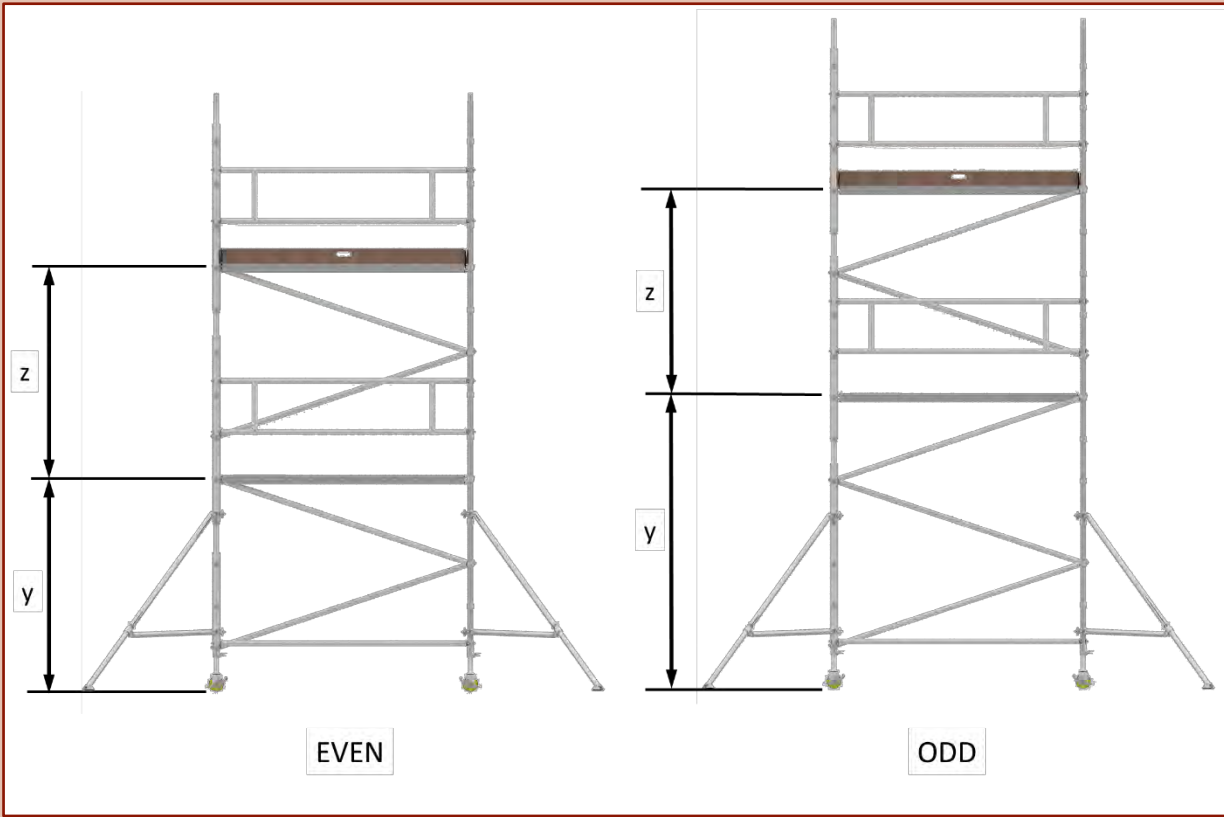
If double width platforms are required at all levels, the number of standard platforms in the double width build table should be increased to match the number of trapdoor platforms

Fig 8

Double Width tower with 2 platforms at all levels and inclined ladder access

For double width platform levels, height class may become H1. Reposition the platforms one rung higher or lower to achieve H2.

**VERTICAL DISTANCE BETWEEN LEVELS**



	Even Tower Heights	Odd Tower Heights
Distance between platforms	$z = 2.07\text{m}$	$z = 2.07\text{m}$
Distance from ground to first platform	$y = 2.19\text{m}$	$y = 3.02\text{m}$

Note, the stated distance from ground to first platform is based on a tower with 8" castor wheels and an adjustable leg extended to 150mm.



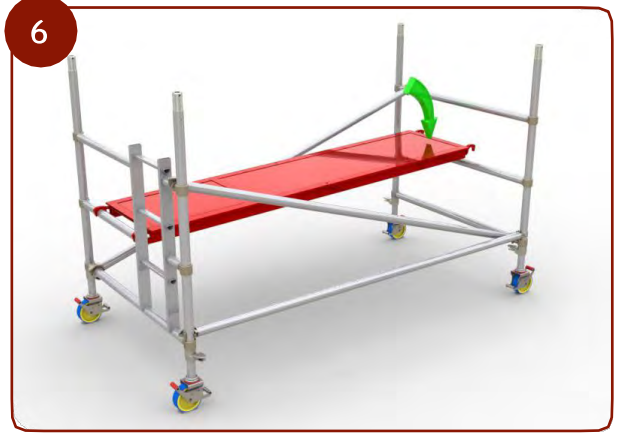
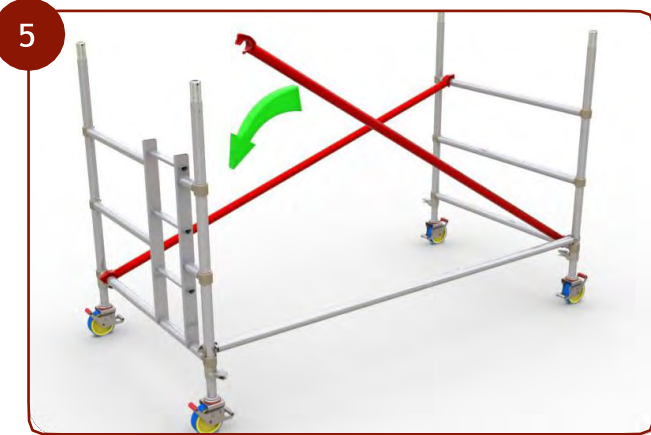
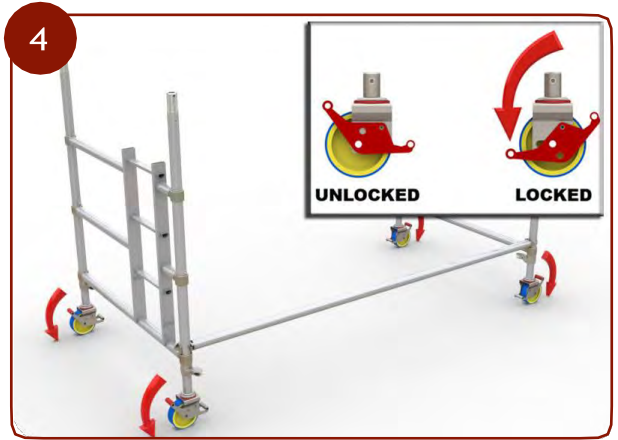
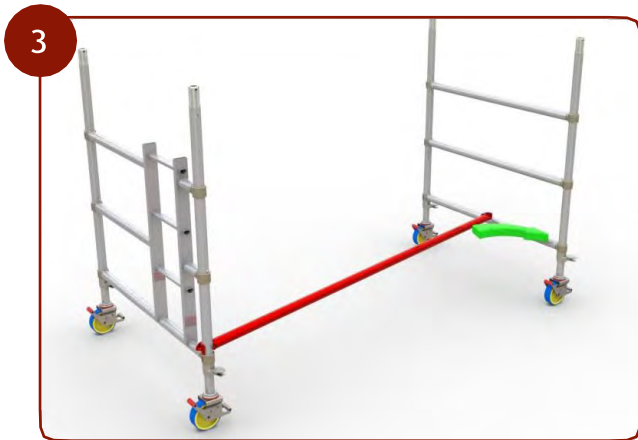
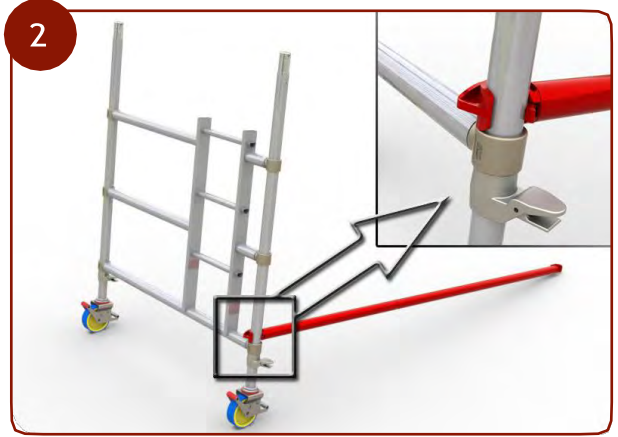
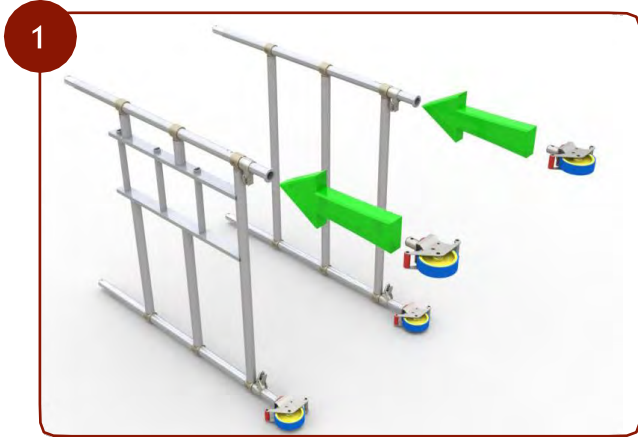
## SPECIFIC PRODUCT INFORMATION

### Table of parts and quantities

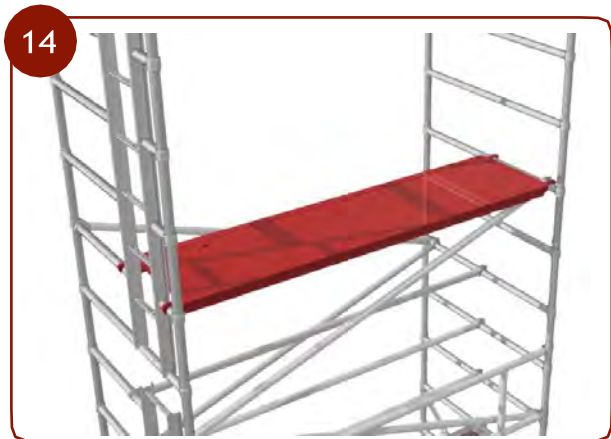
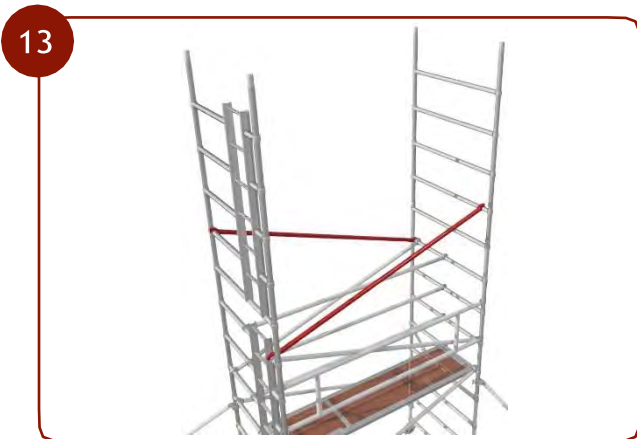
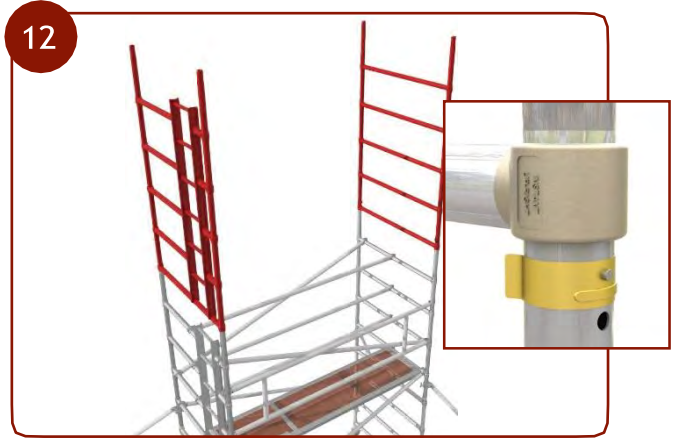
Span 400 Double Width Towers - 2m, 2.5m and 3m lengths to EN1004															
Platform Height (m)	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m			
Work Height (m)	3	4	5	6	7	8	9	10	11	12	13	14			
Tower Height (m)	2	3	4	5	6	7	8	9	10	11	12	13			
Tower Weight in kg (2m in length)	108	125	151	177	203	229	255	287	313	339	365	391			
Tower Weight in kg (2.5m in length)	120	137	169	197	228	256	287	321	352	380	412	439			
Tower Weight in kg (3m in length)	131	149	182	213	247	277	311	348	382	412	446	476			
* Weight Reduction (kg) for 400W Towers	5	7	9	12	14	16	18	21	23	25	27	30			
Note: Quoted platform heights included 150mm (6 inches) leg adjustment for levelling that can be increased or reduced															
Description	Weight (kg)														
5 Rung Frame (400W)	9.3 (7)			1	1	2	2	3	3	4	4	5	5	6	6
3 Rung Frame (400W)	5.8 (4.5)				1		1		1		1		1		1
5 Rung Ladder Frame (400W)	12.6 (10.3)			1	1	2	2	3	3	4	4	5	5	6	6
3 Rung Ladder Frame (400W)	7.2 (5.9)				1		1		1		1		1		1
Trapdoor Platform (2m, 2.5m, 3m)	14	18	20	1	1	2	2	3	3	4	4	5	5	6	6
Fixed Platform (2m, 2.5m, 3m)	14	17	20	1	1	1	1	1	1	1	1	1	1	1	1
Horizontal Brace (2m, 2.5m, 3m)	1.7	2	2.4	1	1	1	4	4	7	7	10	10	13	13	16
Diagonal Brace (2m, 2.5m, 3m)	1.8	2.2	2.5	2	4	6	8	10	12	14	16	18	20	22	24
Guard-rail bracing frame (2m, 2.5m, 3m)	3.8	4.4	5.2	2	2	2	3	3	4	4	5	5	6	6	7
Telescopic Stabiliser	5.2			4	4	4	4	4	4	4					
Large Stabiliser	6.8										4	4	4	4	4
Adjustable Leg	1.1			4	4	4	4	4	4	4	4	4	4	4	4
Castor / Baseplate	2.8			4	4	4	4	4	4	4	4	4	4	4	4
Toe-board set (2m, 2.5m, 3m)	8.7	12	14	1	1	1	1	1	1	1	1	1	1	1	1



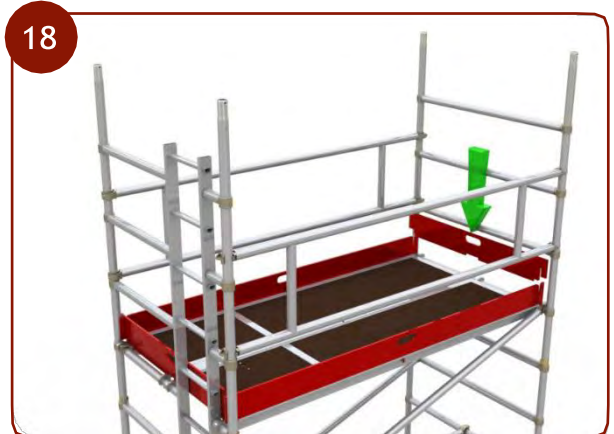
**DOUBLE-WIDTH TOWER 6m**



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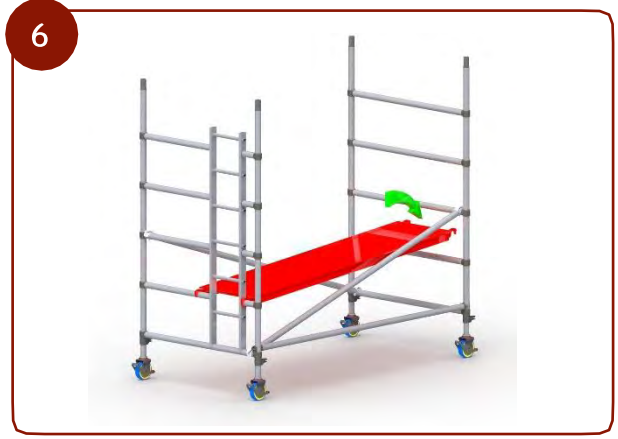
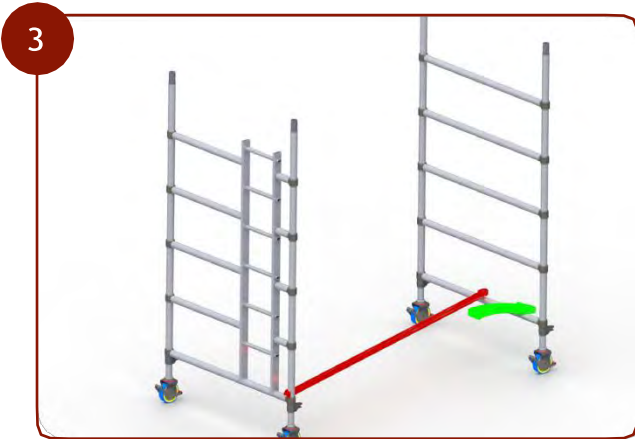
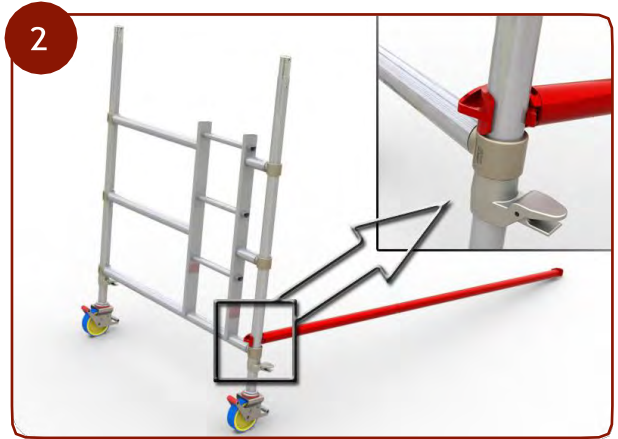
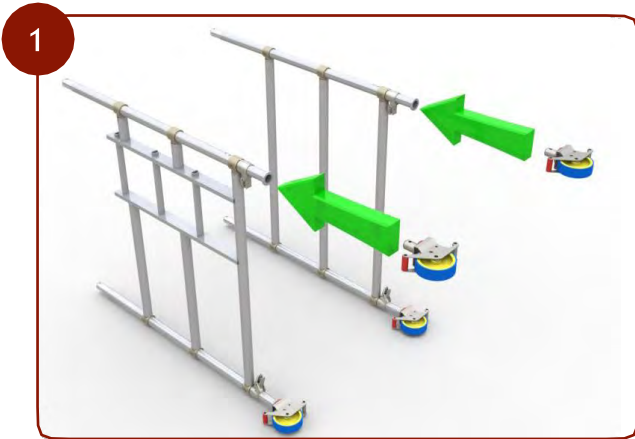


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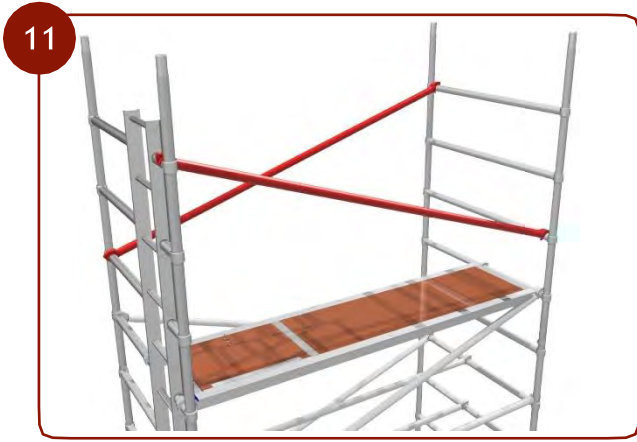




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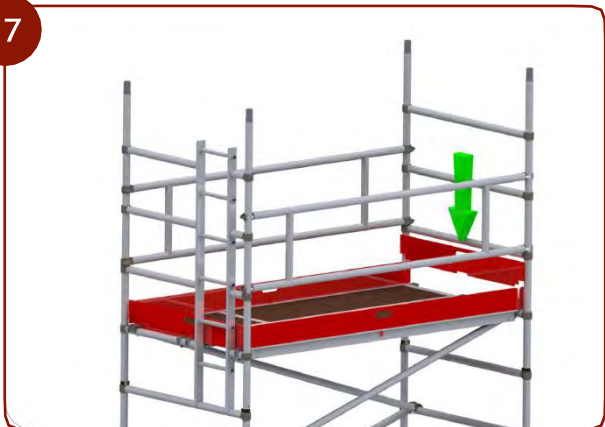


**DOUBLE-WIDTH TOWER 5m**



**DOUBLE-WIDTH TOWER 5m**

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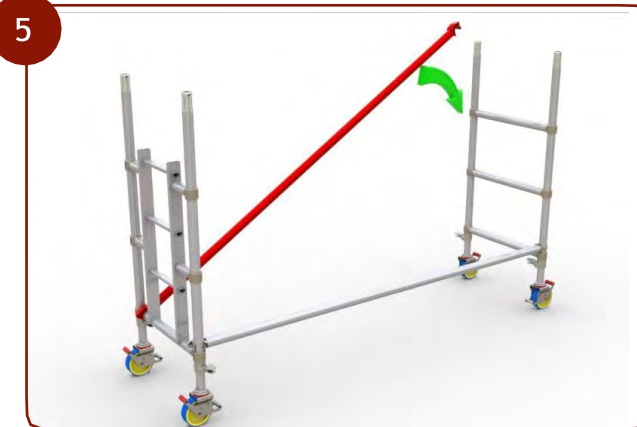
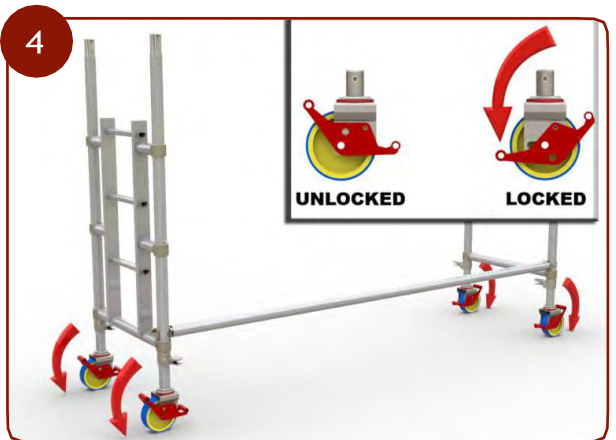
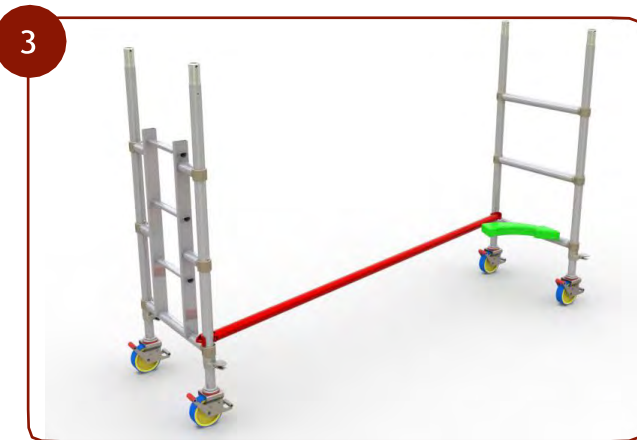
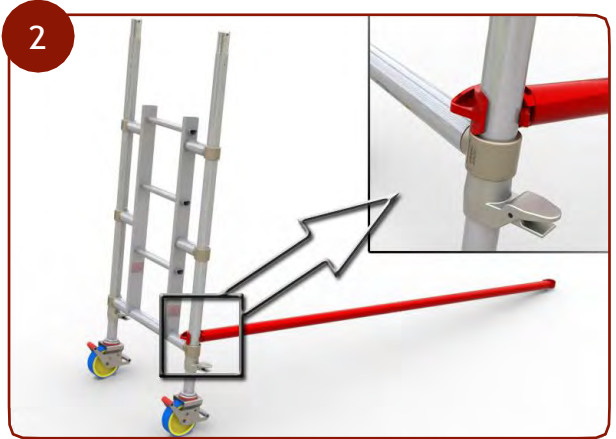
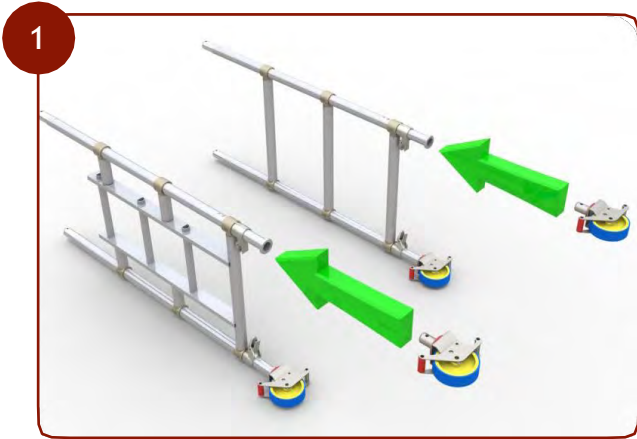
## SPECIFIC PRODUCT INFORMATION

Table of parts and quantities

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Platform Height (m)	1m	2m	3m	4m	5m	6m	7m	8m			
Work Height (m)	3	4	5	6	7	8	9	10			
Tower Height (m)	2	3	4	5	6	7	8	9			
Tower Weight in kg (2m in length)	86	98	122	142	165	185	214	234			
Tower Weight in kg (2.5m in length)	94	106	134	155	183	205	239	260			
Tower Weight in kg (3m in length)	99	112	142	166	196	219	255	279			
* Weight Reduction (kg) for 400W Towers	5	7	9	12	14	16	18	21			
Note: Quoted platform heights included 150mm (6 inches) leg adjustment for levelling that can be increased or reduced											
Description	Weight (kg)										
5 Rung Frame (400W)	7.3 (5)			1	1	2	2	3	3	4	4
3 Rung Frame (400W)	4.5 (3.2)				1		1		1		1
5 Rung Ladder Frame (400W)	10.6 (8.3)			1	1	2	2	3	3	4	4
3 Rung Ladder Frame (400W)	5.9 (4.6)				1		1		1		1
Trapdoor Platform (2m, 2.5m, 3m)	14	18	20	1	1	2	2	3	3	4	4
Horizontal Brace (2m, 2.5m, 3m)	1.7	2	2.4	1	1	1	1	1	1	1	1
Diagonal Brace (2m, 2.5m, 3m)	1.8	2.2	2.5	1	2	3	4	5	6	7	8
Guard-rail bracing frame (2m, 2.5m, 3m)	3.8	4.4	5.2	2	2	2	4	4	6	6	8
Telescopic Stabiliser	5.2			4	4	4	4	4	4		
Large Stabiliser	6.8									4	4
Adjustable Leg	1.1			4	4	4	4	4	4	4	4
Castor / Baseplate	2.8			4	4	4	4	4	4	4	4
Toe-board set (2m, 2.5m, 3m)	6.8	8.4	9.8	1	1	1	1	1	1	1	1



**SINGLE-WIDTH TOWER 6m**



**SINGLE-WIDTH TOWER 6m**

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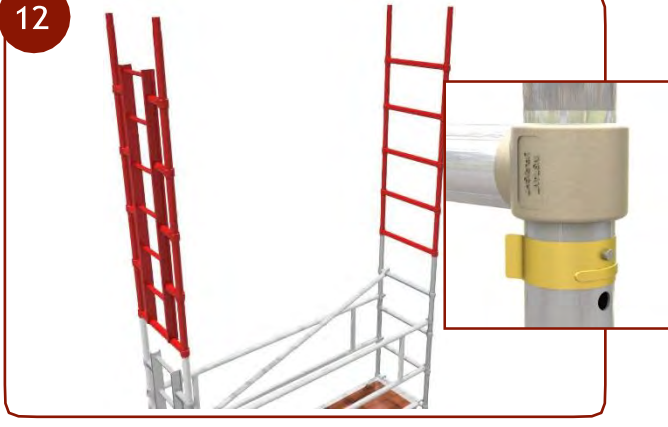
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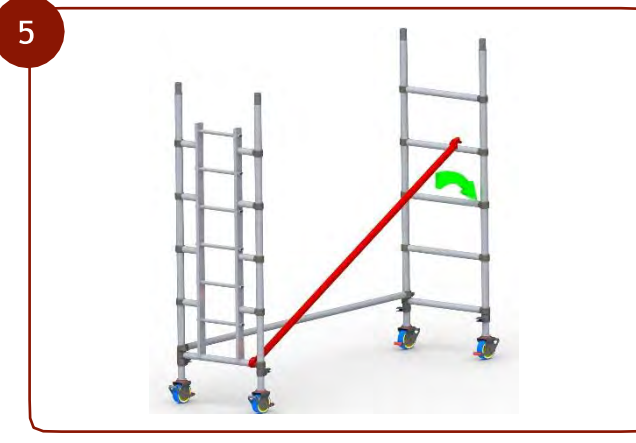
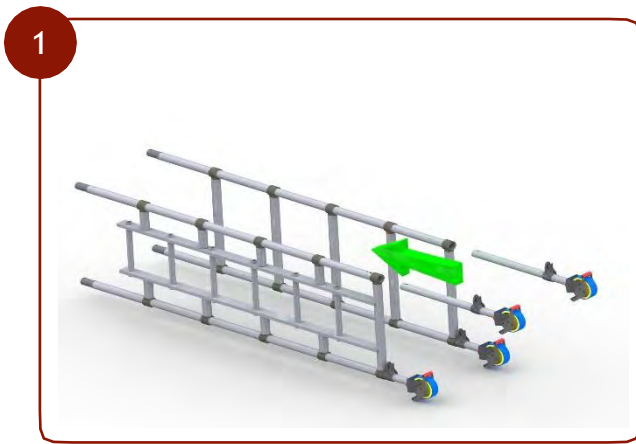
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**SINGLE-WIDTH TOWER 6m**

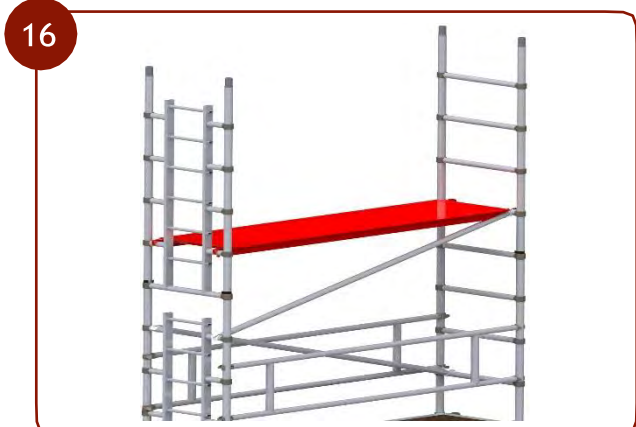
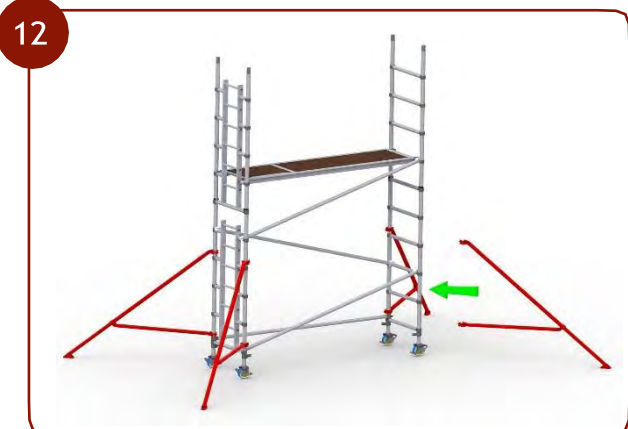


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