

INSTANT UPRIGHT

Span 400 Instruction Manual



DESIGNATION

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

CEN designation of this instruction manual
EN 1298 – IM – en
Rev-01



SAFE WORKING LOADS AND WORKING HEIGHTS

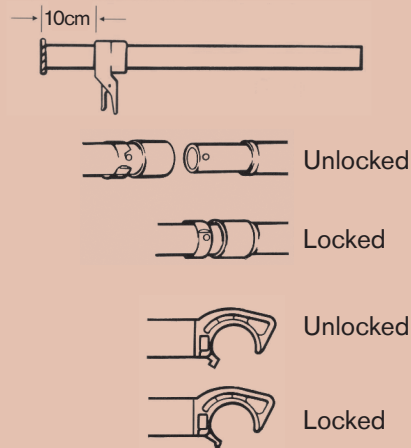
The safe working load at each level of platform is 360kg evenly distributed, regardless of whether one or two platforms are installed. Therefore, even if two platforms are installed side by side, total cumulative load shall not exceed 360kg distributed.

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.

ASSEMBLY PROCESS

1. Preparation

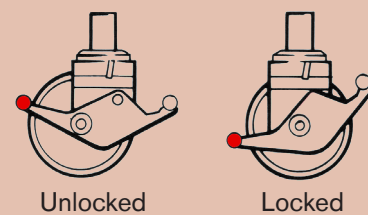
- Locate the tower level adjusters on each leg at 10cm (4 inches) from the bottom of the leg.
- Unlock the interlock clips on all frames.
- When installed, always move the interlock clip to the "locked" position.
- Sort the braces into horizontal and diagonal braces - the diagonals are slightly longer.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



2. Base

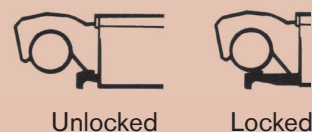
- Step 1: Install castor into adjustable leg.
- Step 2: Ensure interlock clips are released from the base frames (bottom frames).
- Step 3: Install castor / leg assembly to frame by pushing the leg into the frame tube. This should be done with manual force only, no tools.
- Step 4: Lock castors before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

Note the locking and unlocking position for the castors as shown here.



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 must always 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

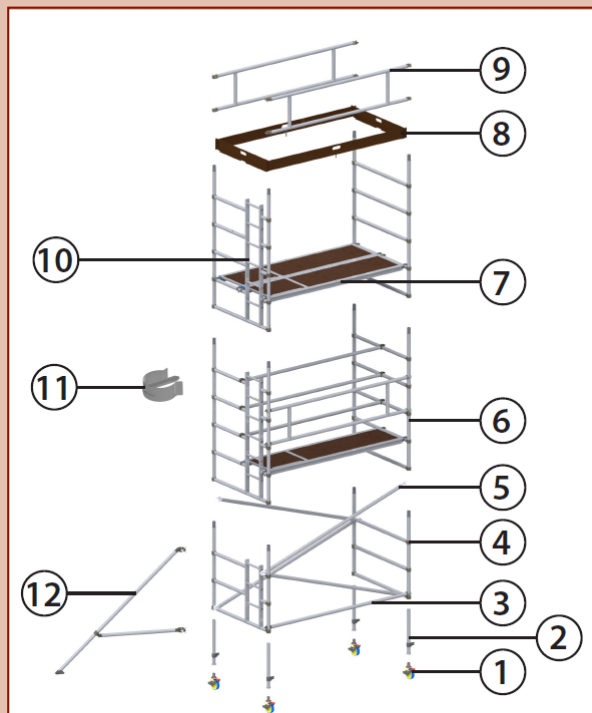
- Keep all equipment clean, especially spigots and sockets where frames join. Spigots should fit easily into sockets. Lubricate with light oil.
- Remove dirt or paint from adjustable legs with a light brush, lightly oil the leg locks.
- Do not strike or hammer components. Do not throw or drop onto hard 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

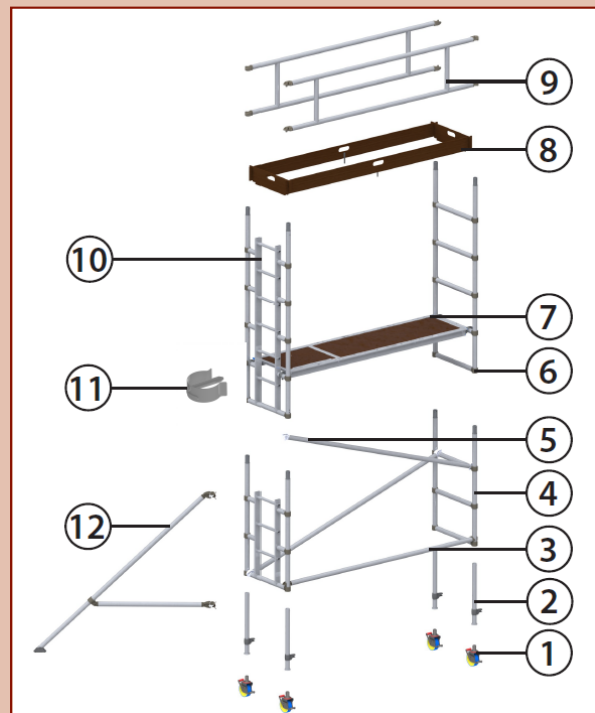
To Move the tower to a new position, first prepare the tower.

- 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 - double width



Span 400 - single width

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

STABILISERS

Stabilisers are to be used, when specified, to guarantee the structural stability of the tower. In addition, the ballast table is to be observed.

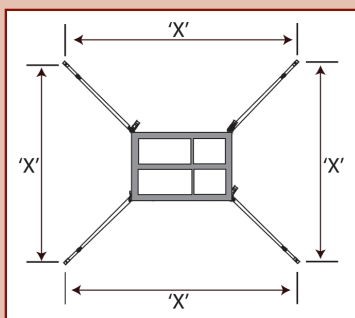
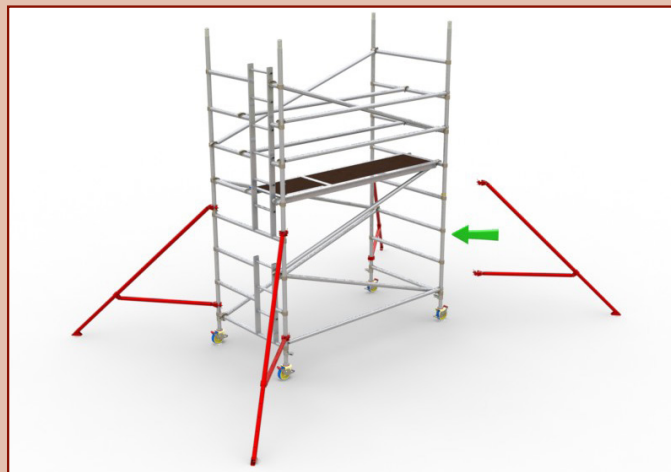


Fig 2

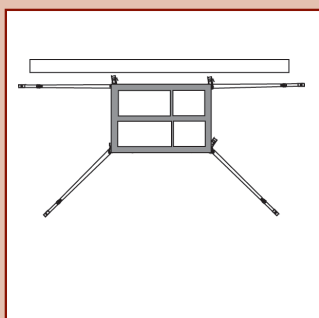


Fig 3

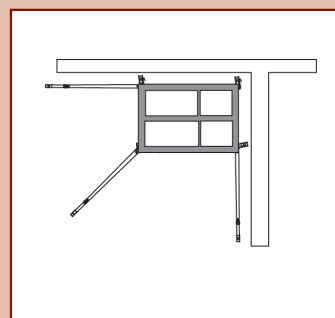


Fig 4

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



Fig 4

2 platforms at every level

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

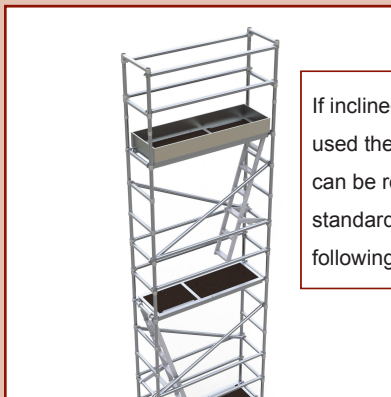


Fig 5

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)

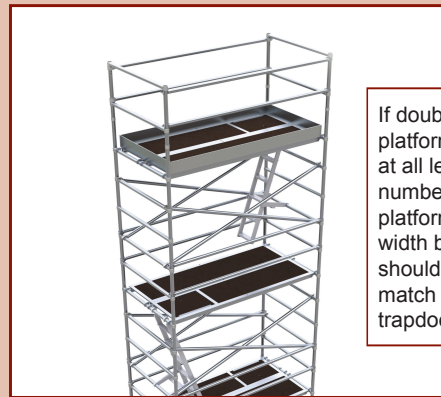
BUILD TABLE ADJUSTMENTS



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

Fig 6

Single Width tower with inclined 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 7

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

National regulations may determine variations to the standard build sequence. Instant Upright national distributors will be able to advise of variations to the standard build which are applicable.

Table of parts and quantities

Span 400 Double Width Towers - 2m, 2.5m and 3m lengths to EN1004

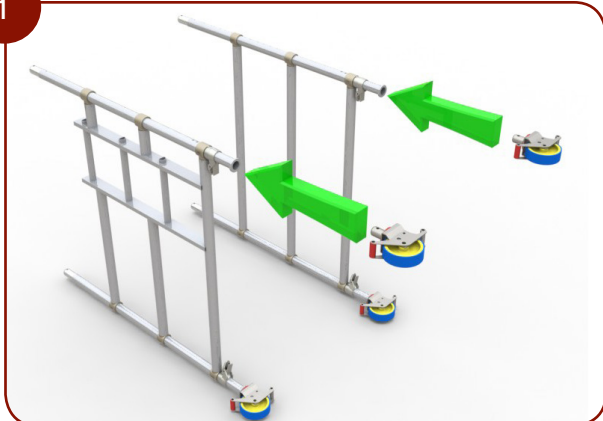
Platform Height (m)	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m
Work Height (m)	4	5	6	7	8	9	10	11	12	13	14
Tower Height (m)	3	4	5	6	7	8	9	10	11	12	13
Tower Weight in kg (2m in length)	101	150	174	200	226	253	285	311	337	363	389
Tower Weight in kg (2.5m in length)	114	168	194	225	253	285	319	350	378	409	437
Tower Weight in kg (3m in length)	125	182	210	244	275	309	345	379	410	444	474

Note: Quoted platform heights included 150mm (6 inches) leg adjustment for leveling that can be increased or reduced

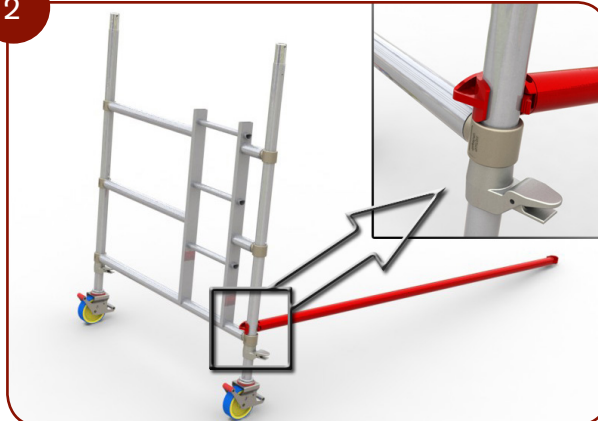
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DOUBLE-WIDTH TOWER 6m

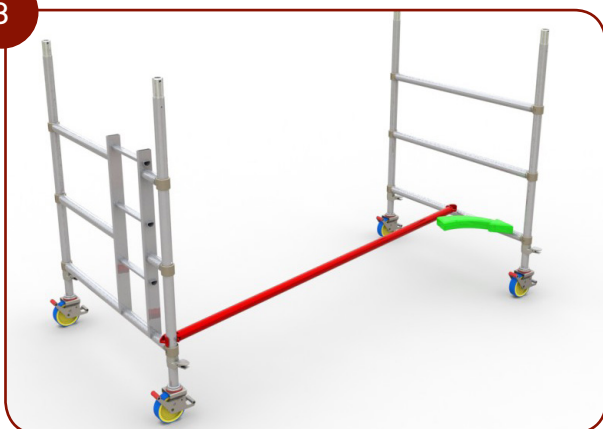
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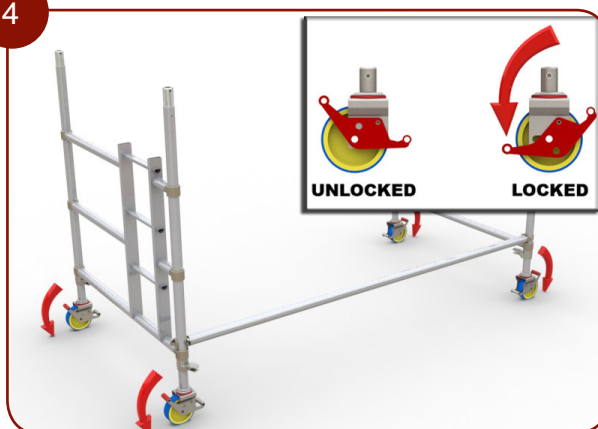
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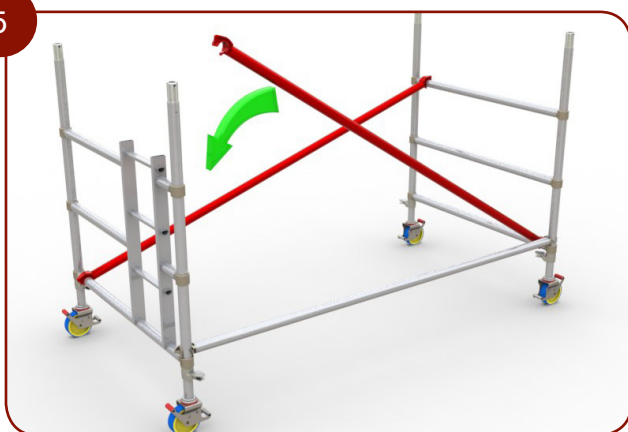
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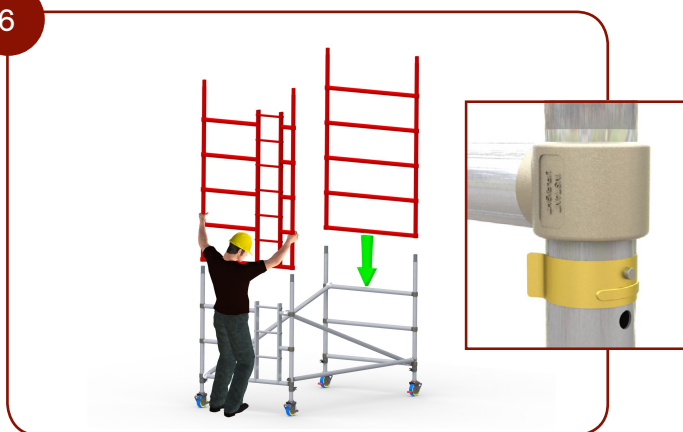
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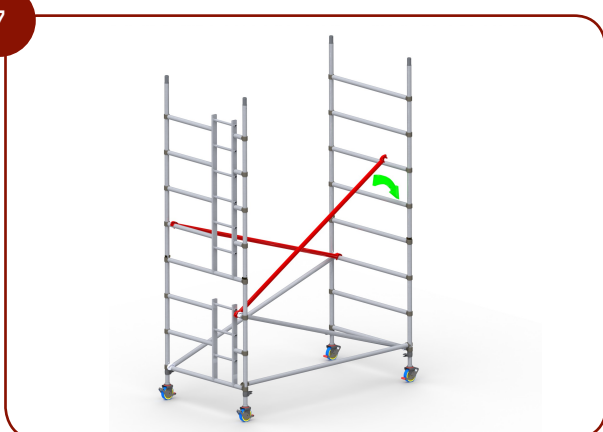
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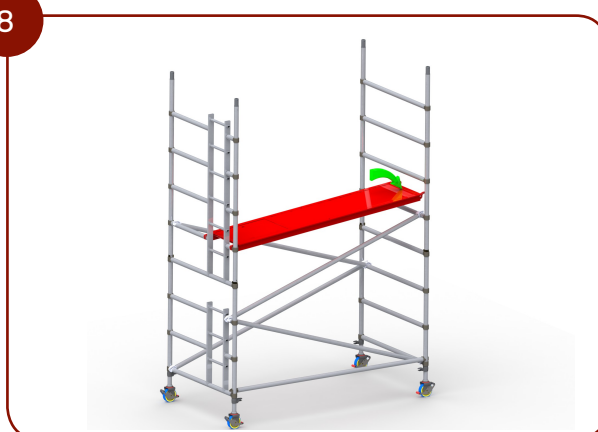
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DOUBLE-WIDTH TOWER 6m

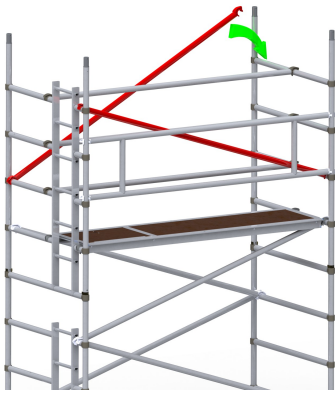
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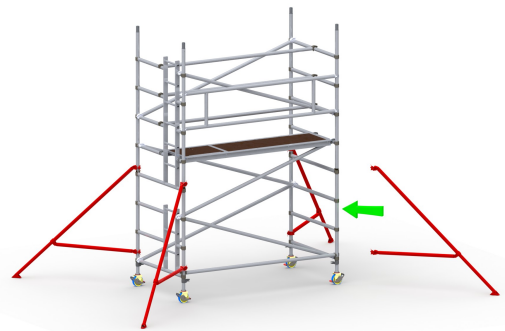
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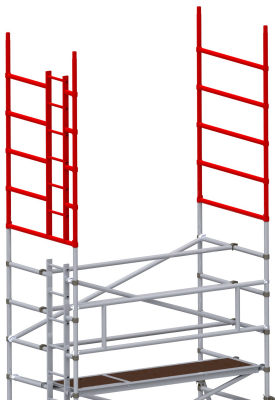
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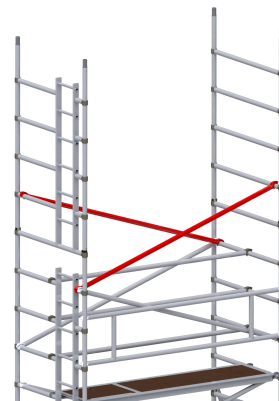
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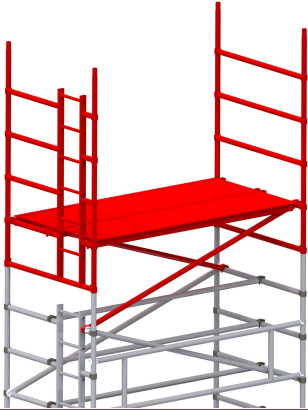


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DOUBLE-WIDTH TOWER 6m

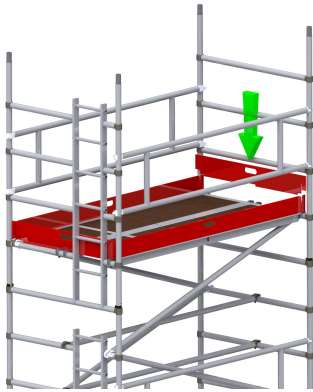
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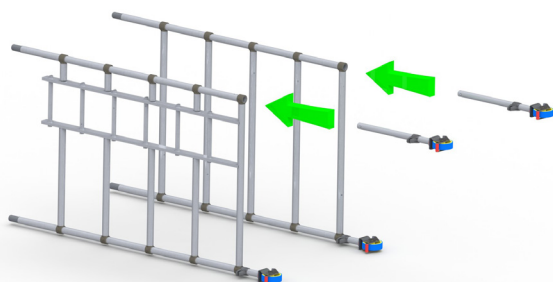


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DOUBLE-WIDTH TOWER 5m

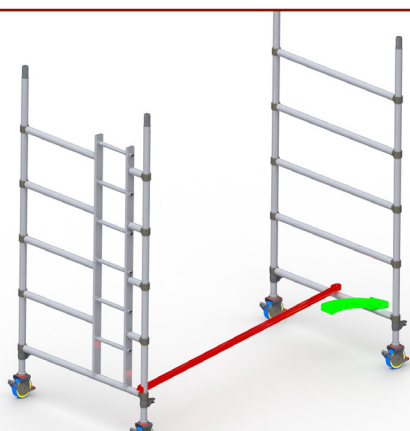
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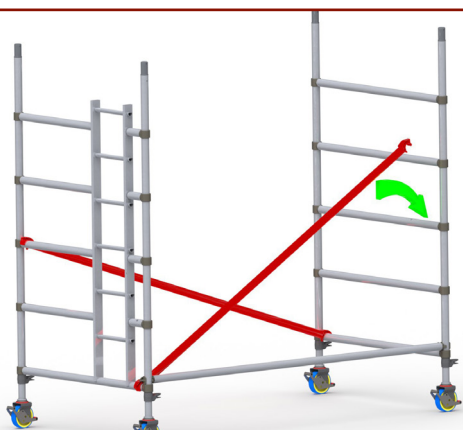
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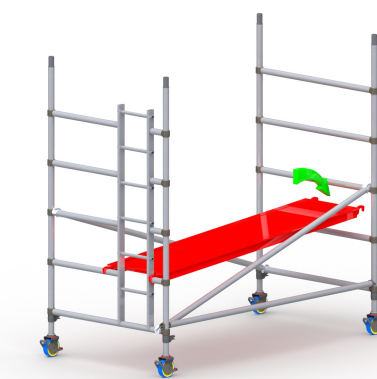
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DOUBLE-WIDTH TOWER 5m

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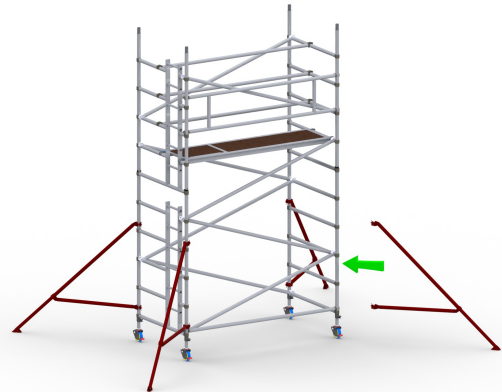
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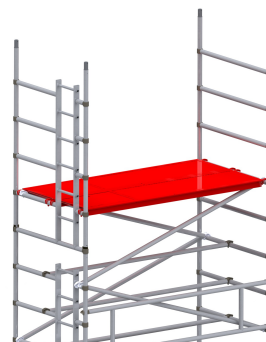
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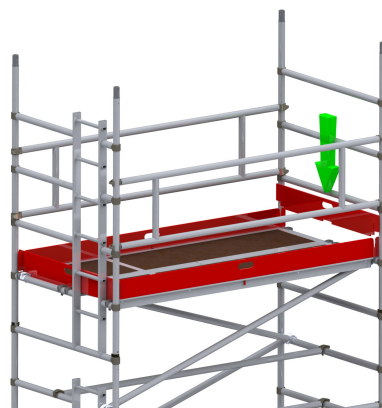


DOUBLE-WIDTH TOWER 5m

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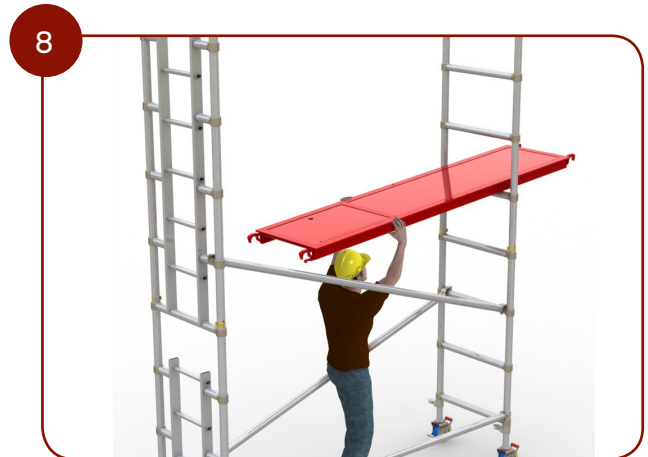
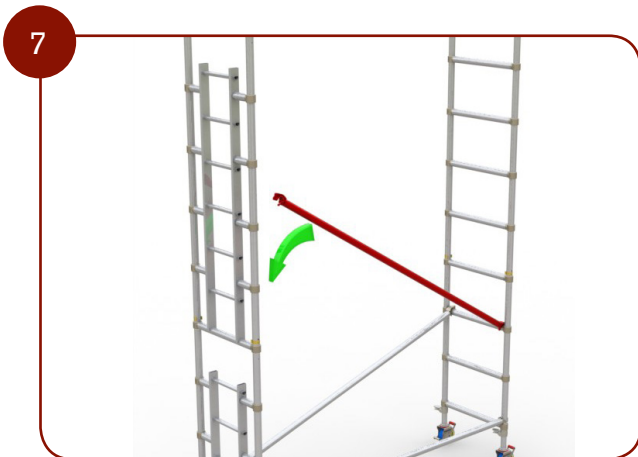
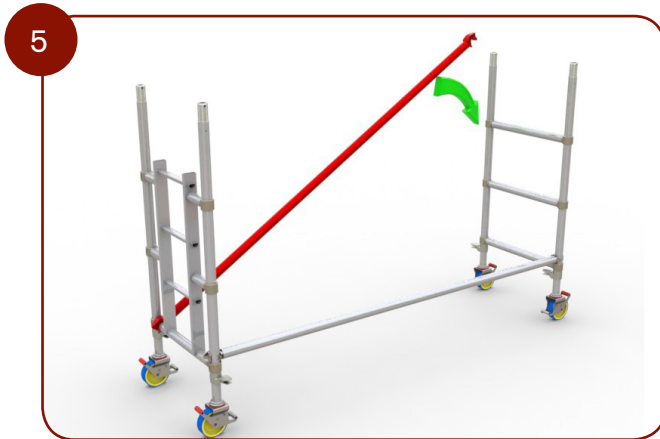
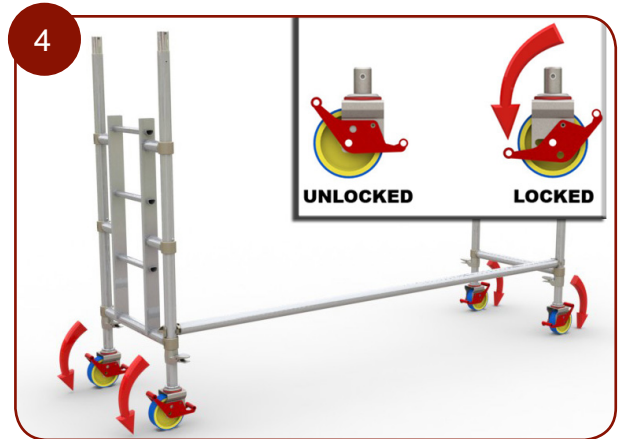
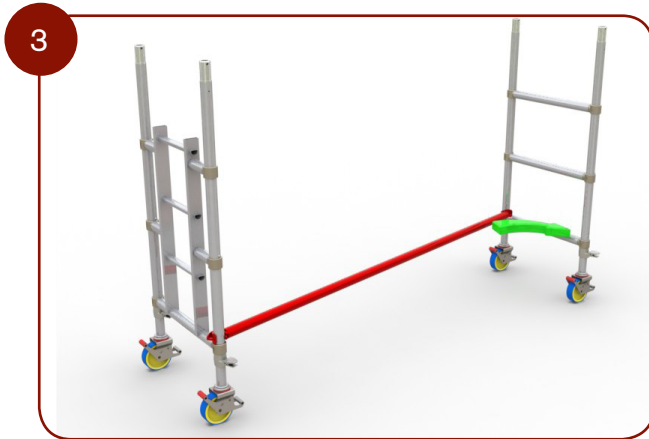
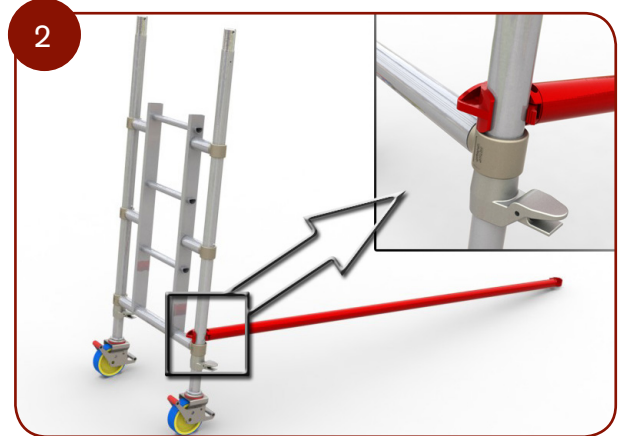
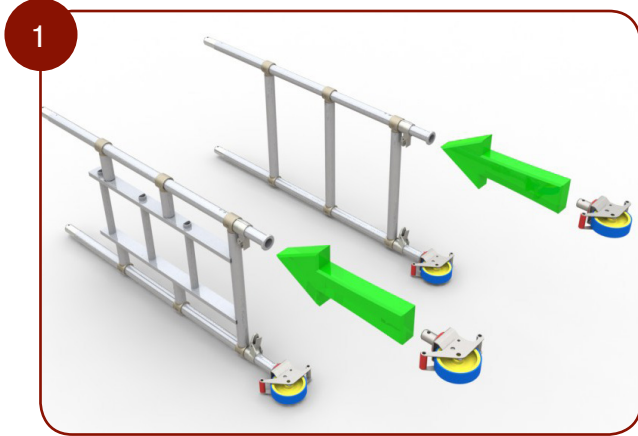


SPECIFIC PRODUCT INFORMATION

Table of parts and quantities

Span 400 Single Width Towers - 2m, 2.5m and 3m lengths to EN1004										
Platform Height (m)				2m	3m	4m	5m	6m	7m	8m
Work Height (m)				4	5	6	7	8	9	10
Tower Height (m)				3	4	5	6	7	8	9
Tower Weight in kg (2m in length)				78	125	148	175	198	231	255
Tower Weight in kg (2.5m in length)				86	131	163	188	221	251	284
Tower Weight in kg (3m in length)				92	140	175	203	238	272	307
Note: Quoted platform heights included 150mm (6 inches) leg adjustment for leveling that can be increased or reduced										
Description				Weight (kg)						
5 Rung Frame				7.3			1	2	2	4
3 Rung Frame				4.5			1		1	1
5 Rung Ladder Frame				10.6			1	2	2	4
3 Rung Ladder Frame				5.9			1		1	1
Trapdoor Platform (2m, 2.5m, 3m)				14	18	20	1	2	2	4
Horizontal Brace (2m, 2.5m, 3m)				1.7	2	2.4	1	1	1	1
Diagonal Brace (2m, 2.5m, 3m)				1.8	2.2	2.5	2	3	4	8
Guard-rail bracing frame (2m, 2.5m, 3m)				3.8	4.4	5.2	2	2	4	8
Telescopic Stabiliser				5.2				4	4	
Large Stabiliser				6.8						4
Adjustable Leg				1.1			4	4	4	4
Castor / Baseplate				2.8			4	4	4	4
Toe-board set (2m, 2.5m, 3m)				6.8	8.4	9.8		1	1	1

SINGLE-WIDTH TOWER 6m



SINGLE-WIDTH TOWER 6m

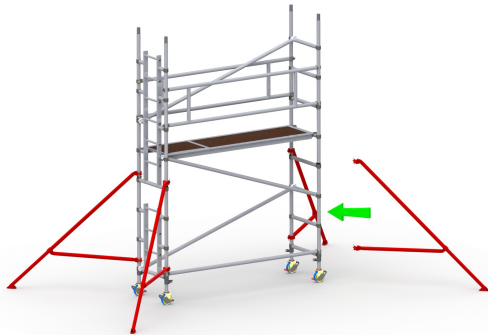
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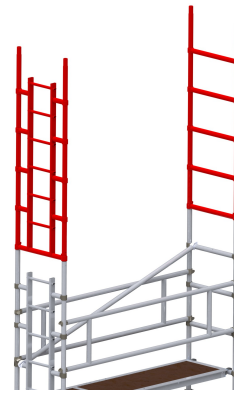
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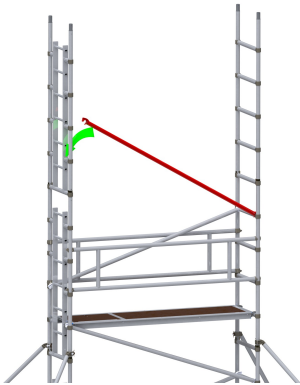
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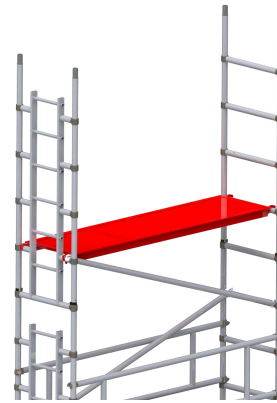
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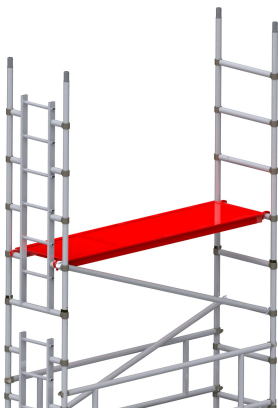
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SINGLE-WIDTH TOWER 6m

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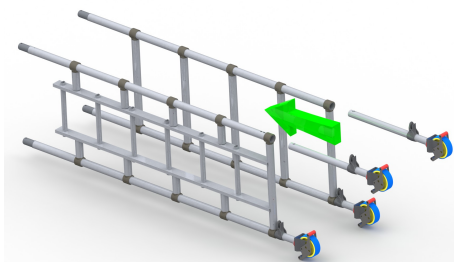


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SINGLE-WIDTH TOWER 5m

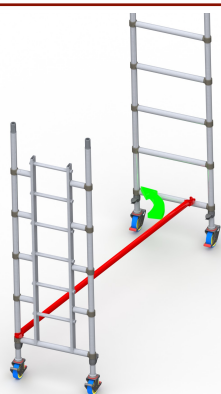
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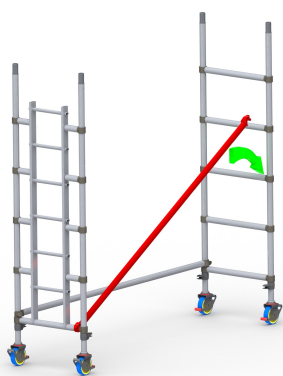
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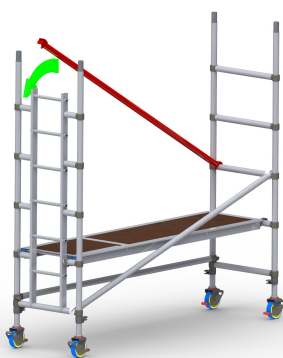
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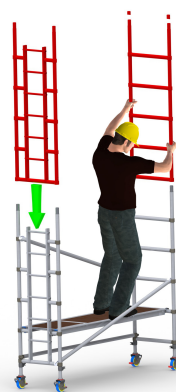
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SINGLE-WIDTH TOWER 5m

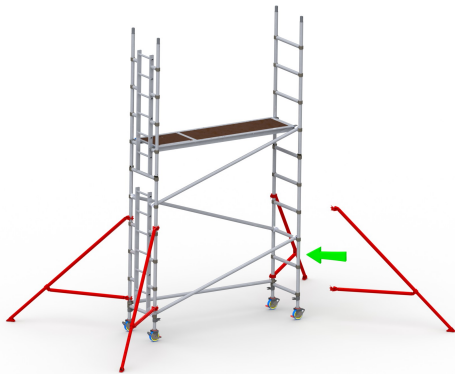
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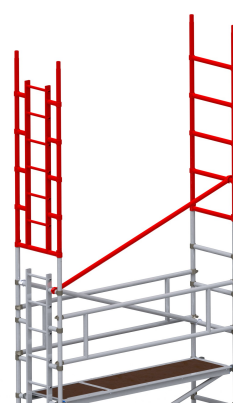
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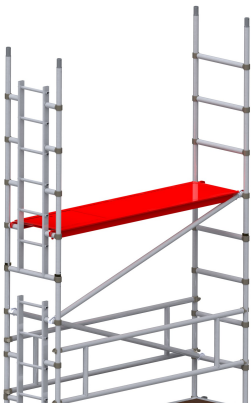
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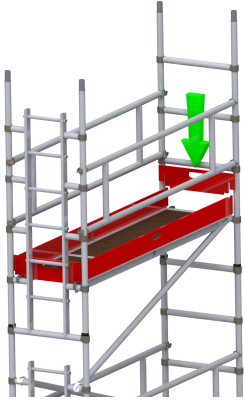


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SINGLE-WIDTH TOWER 5m

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