

# Assembly and Use Instructions

## Aluminium Rolling Tower System

### SPAN 500 AGR



**INSTANT**  
QUALITY & STRENGTH YOU CAN TRUST

# Span 500 AGR Assembly Guide

This Assembly guide is designed to provide you with step by step instructions to ensure your system is erected easily and safely. Before assembly please read the safety notes carefully.

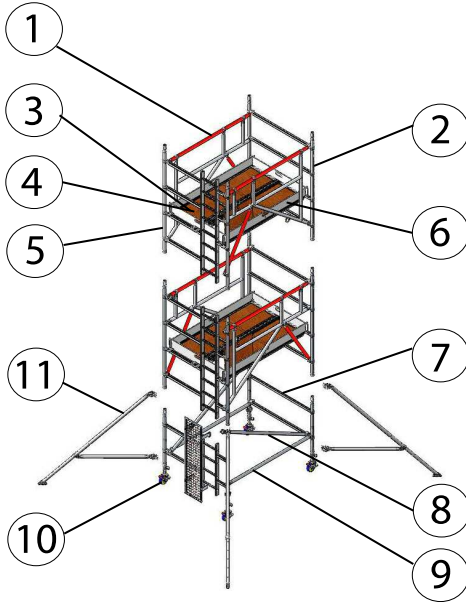
Span 500 AGR is a mobile access tower system complying with EN 1004 and WAHR, with vertical ladder access, designed for Class 2 loading.

## DESIGNATION

**SPAN 500 AGR Double Width**  
**EN 1004 – 2 – 8/12 – XXCD**  
**SPAN 500 AGR Single Width**  
**EN 1004 – 2 – 8/8 – XXCD**

**CEN designation of this instruction manual**  
**EN 1298 – IM – en**

## ASSEMBLY COMPONENTS

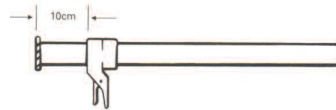


- Tower Assembly
1. Advance Guardrail
  2. 4 Rung Frame
  3. Fixed Platform
  4. Trapdoor Platform
  5. Ladder Frame
  6. Toeboards
  7. 2 Rung Frame
  8. Diagonal Brace
  9. Horizontal Brace
  10. Ladder Frame
  11. Outrigger

## ASSEMBLY PROCESS

### 1. Preparation

Locate the tower level adjusters on each leg at 10cm (4ins) from the bottom of the leg.



Unlock the interlock clips on all frames.

When installed, always move the interlock clip to the "locked" position.



Unlocked



Locked

Sort the braces into horizontal and diagonal braces - the diagonals are slightly longer.

Unlock the brace locks.



Unlocked



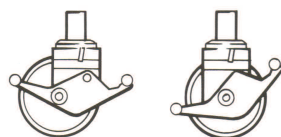
Locked

### 2. Base

Push the four leg assemblies into a pair of 7-rung (2m) frames, with 10cm (4ins) of threaded leg showing.

Follow the erection procedures as shown (Section 4). It is important to follow the bracing pattern precisely. The tower shown in the build procedure is a double

width tower. For Single Width Towers, see notes section.



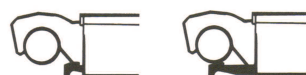
Unlocked

Locked

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

### 3. Locking down the platform

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



Unlocked

Locked

## Safe Working Loads and Working Heights (WAHR)

The safe working load at each level of platform is 275Kg 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 275Kg 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.

## Construction - basic principles

- Always install Advance Guardrails before platforms.
- Always install the trapdoor platform over the ladder (if one is fitted).
- Ensure the trapdoor hinges to the **OUTSIDE** of the tower (not the centre).
- Only when the platform is fully guarded is it safe to stand on.

## Dismantling

- Remove Toeboards on upper-most level.
- Descend to 1 level below upper-most level.
- Remove upper Platforms.
- Remove upper Advance Guardrails.
- Repeat until base structure is reached.

**REMEMBER - NEVER STAND ON AN UNGUARDED PLATFORM**

## TOWER COMPONENTS REQUIRED

The following tables show a full list of components to build the tower to the platform height specified, complying with the requirements of EN 1004 and Work at Heights Regulations (WAHR). Braces, platforms, guardrail, bracing frames and toeboards are length specific; 2m, 2.5m or 3m. Three unit weights in ascending order are given for these items, for 2m, 2.5m and 3m respectively. Other components are common to towers of all lengths, and their unit weights are also given. Total self-weight of towers are indicated, according to length and height.

Span 500 AGR Single Width Towers - 2m, 2.5 and 3m lengths to EN1004 and WAHR								
Platform Height (m)	2.2	4.2	6.2	8.2	-	-	-	-
Work Height (m)	4.2	6.2	8.2	10.2	-	-	-	-
Tower Height (m)	3.2	5.2	7.2	9.2	-	-	-	-
Tower Weight in Kg (2m length)	109	200	270	340	-	-	-	-
Tower Weight in Kg (2.5m length)	121	204	304	385	-	-	-	-
Tower Weight in Kg (3m length)	132	243	333	424	-	-	-	-

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

Description	Weight (Kg)			Quantity Required				
4 Rung Frame	7.3	1	2	3	4	-	-	-
4 Rung Ladder Frame	10.6	1	2	3	4	-	-	-
2 Rung Frame	4.5	1	1	1	1	-	-	-
2 Rung Ladder Frame	5.9	1	1	1	1	-	-	-
Trapdoor Platform	14   18   20	1	2	3	4	-	-	-
Horizontal Brace	1.7   2   2.4	2	2	2	2	-	-	-
Diagonal Brace	1.8   2.2   2.5	2	2	2	2	-	-	-
Advance Guardrail	8.0	2	4	6	8	-	-	-
Telescopic Outrigger	5.2	-	4	4	4	-	-	-
Large Stabiliser	6.8				4	-	-	-
Adjustable Legs	1.1	4	4	4	4	-	-	-
Castor / Baseplate	2.2	4	4	4	4	-	-	-
Toe-board set	1.8   2.2   2.5	1	2	3	4	-	-	-

Span 500 AGR Double Width Towers - 2m, 2.5 and 3m lengths to EN1004 and WAHR								
Platform Height (m)	2.2	4.2	6.2	8.2	10.2	12.2	-	-
Work Height (m)	4.2	6.2	8.2	10.2	12.2	14.2	-	-
Tower Height (m)	3.2	5.2	7.2	9.2	11.2	13.2	-	-
Tower Weight in Kg (2m length)	123	217	290	364	443	517	-	-
Tower Weight in Kg (2.5m length)	135	240	325	409	500	584	-	-
Tower Weight in Kg (3m length)	145	260	354	448	548	641	-	-

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

Description	Weight (Kg)			Quantity Required				
4 Rung Frame	9.3	1	2	3	4	5	6	-
4 Rung Ladder Frame	12.6	1	2	3	4	5	6	-
2 Rung Frame	5.8	1	1	1	1	1	1	-
2 Rung Ladder Frame	7.2	1	1	1	1	1	1	-
Trapdoor Platform	14   18   20	1	2	3	4	5	6	-
Fixed Platform	14   17   20	1	2	3	4	5	6	-
Horizontal Brace	1.7   2   2.4	2	2	2	2	2	2	-
Diagonal Brace	1.8   2.2   2.5	2	2	2	2	2	2	-
Advance Guardrail	8.0	2	4	6	8	10	12	-
Telescopic Outrigger	5.2	-	4	4	4	-	-	-
Large Stabiliser	6.8				4	4	-	-
Adjustable Legs	1.1	4	4	4	4	4	-	-
Castor / Baseplate	2.2	4	4	4	4	4	-	-
Toe-board set	8.7   11.5   14.4	1	2	3	4	5	6	-

## 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 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 should be capable of supporting the tower structure.
- Towers must always be climbed from the inside of the assembly and using the built-in ladder if provided.
- Adjustable legs should only be used to level the tower.
- Lifting operation should be done inside the effective base area of the tower.
- Moving the tower should only be done by manual effect from the base of the tower. When moving tower be aware of overhead hazards (eg. electric cables).
- No personnel or material should 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 assembled mobile tower.
- Components are normally hoisted using a rope. Always lift within the tower structure or within the base rectangle defined by the stabilisers.
- Damaged components, or components from other tower systems should never be used.
- Stabilisers should always be fitted when specified. Use the type of stabiliser shown on the component list according to the tower height.
- When wind exceeds Beaufort force 4, cease using the tower. Wind speeds:

Force	Peak Mph	Peak Kph	Guidance
4	18	29	Moderate breeze - raises dust & loose paper
6	31	50	Strong breeze - difficult to use umbrella
8	46	74	Gale force - walking is difficult

## CARE AND MAINTENANCE OF THE TOWER AND COMPONENTS

- Keep all equipment clean, especially spigots and sockets where frames join. Spigots should fit easily into stocks. 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 should be repaired or replaced, contact your supplier.

### DISMANTLING / MOVING TOWERS

To Dismantle, follow the build process but in reverse order noting the following.

- To remove the guardrail frames or braces, first unlock the hook at the end away from the trapdoor.
- Sitting through the trapdoor, unlock the near end hook and remove the brace.

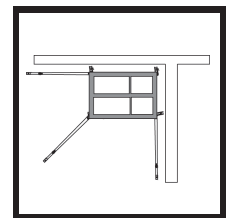
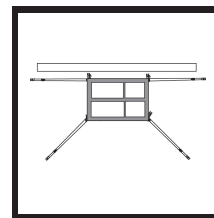
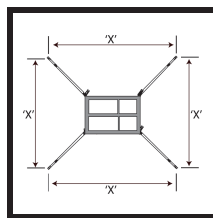
To Move the tower to a new position, first prepare the tower.

- Wind speed should not exceed 29 km/hr (force 4).
- Release the caster brakes.
- Raise the stabiliser feet only enough to clear obstructions.
- Ensure tower is empty (material and personnel).

Move the tower manually by applying force at the base - do not use machinery to push or pull the tower. Once moved - prepare the tower for use.

- Check all casters and stabilisers are in firm contact with the ground.
- Check tower is vertical (spirit level) and adjust legs as required.
- Reapply the caster brakes.

### STABILISERS



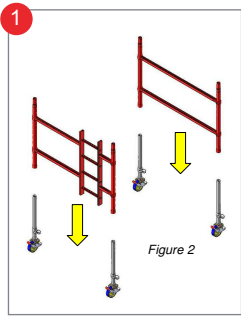
ALWAYS ENSURE STABILISER SIZE IS CORRECT AND ABLE TO SUPPORT TOWER  
Lightly tighten the upper clamps above the sixth rung on each corner post. Position the lower clamp above the bottom rung. Ensure the lower arm is as horizontal as possible. Position the stabilisers so that the footpads are approximately equidistant from each other, as seen here. Telescopically adjust the leg 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.

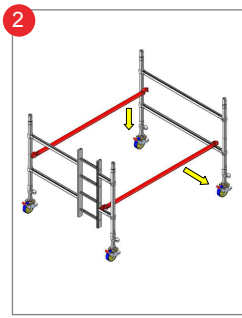
To position the tower in a corner, remove the inside stabiliser and place the outside two parallel with the wall.

Ballast weight maybe used to stabilise the tower, please contact your supplier for the correct amount of ballast weight required.

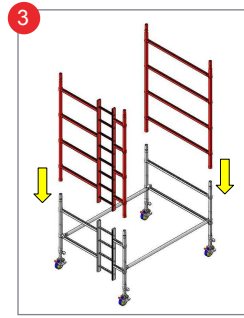
## 4. BUILD PROCESS



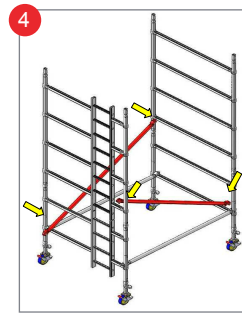
Insert castors and adjustable legs into the 2 rung frames.



Clip 2 horizontal braces onto the vertical member just above the 1<sup>st</sup> rung.



Insert 2 extension frames into the 2 rung frames. **Ensure interlock clips are engaged before continuing to next step.**

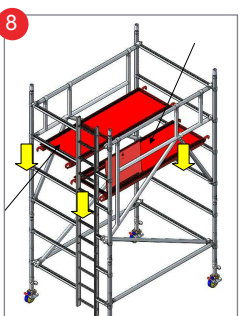
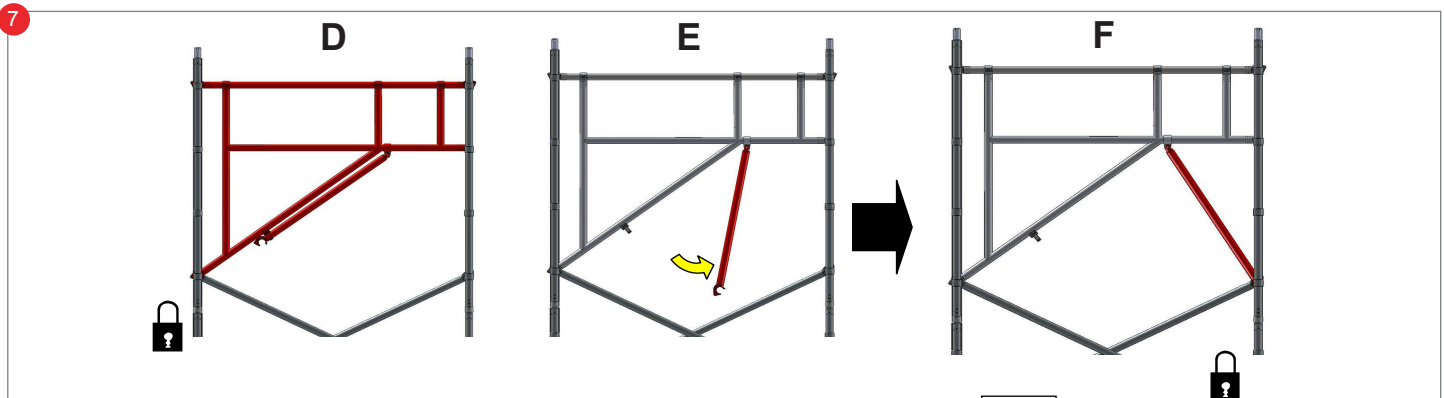
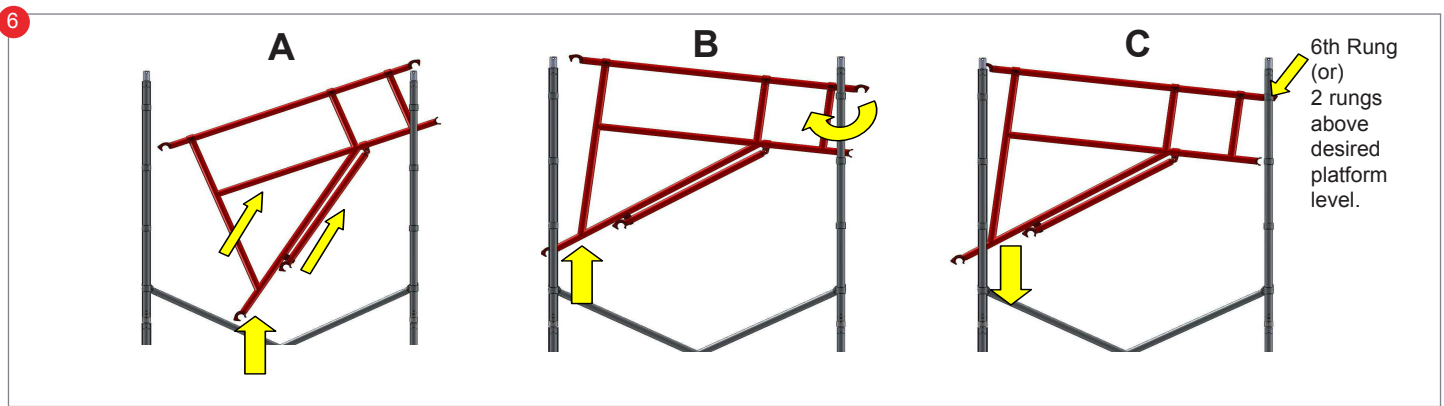


Fit 2 diagonal braces, one on each side of the tower, from the 1<sup>st</sup> to the 3<sup>rd</sup> rung as shown above.

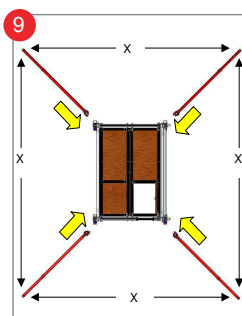


Ensure braces are locked in position.

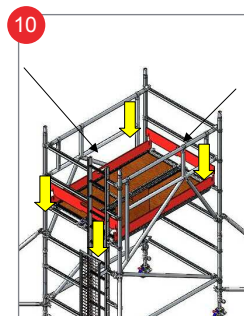
## Instructions A - F detail the method of fitting the advance guardrail



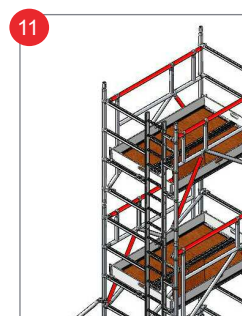
Fit 1 fixed and 1 trapdoor platform to 4<sup>th</sup> rung. Repeat steps 3, 6, 7 & 8 to reach desired working height.



For all platform heights greater than 2m outriggers must be fitted.



Fit toeboards at working level.



Complete 4m tower