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Snappy Ladder

LOW LEVEL ACCESS TOWER SYSTEM

Assembly Guide

This Assembly guide is designed to provide you with step by step instructions to ensure your system is erected easily and safely using the 3T (Through the Trap) Safety Standard. Before assembly please read the safety notes carefully.

Snappy Ladder is a mobile access tower system complying with EN 1004 and WAHR, with vertical adder access, designed for Class 3 loading.

ASSEMBLY PROCESS

1. Preparation

Install the castors into the uprights if not already done.

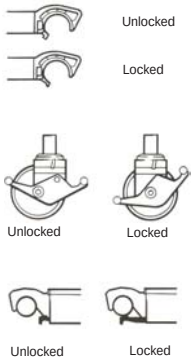
Sort the braces into horizontal and diagonal braces - the diagonals are slightly longer. Unlock the brace locks.

2. Base

Follow the erection procedures as shown (Section 4). It is important to follow the bracing pattern precisely. If extension frames are being used, ensure they are “locked” using the interlock clips.

3. Locking down the platform

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



ASSEMBLY COMPONENTS

4m Platform Height

1. Guardrail Frame
2. Bracing Frame
3. Toeboard Set
4. Horizontal Brace
5. Diagonal Brace
6. Trapdoor Platform
7. 4 Rung Frame
8. Stabiliser
9. Folding Diagonal Brace
10. Castors
11. Ladder Frame
12. Standard Frame

2m Platform Height

1. Guardrail Frame
2. Bracing Frame
3. Trapdoor Platform
4. 4 Rung Frame
5. Folding Diagonal Brace
6. Horizontal Brace
7. Castors

4. BUILD PROCESS - 1 metre

Insert castors into the folding frames. Lock 2 castors in one frame and roll the other frame outwards until the folding diagonal braces lock. Lock the other 2 castors.

Clip 2 horizontal braces to the 4th rung either side of the frame. Clip 1 horizontal brace to the 4th rung opposite the diagonal braces.

Fit trapdoor platform to the 2nd rung.

Warning: The Snappy Ladder is designed to be extended with Snappy Components only. DO NOT USE parts from the other Span range of products.

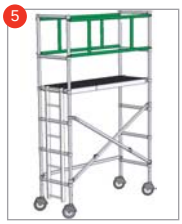
BUILD PROCESS - 2 metre

Insert castors into the folding frames. Lock 2 castors in one frame and roll the other frame outwards until the folding diagonal braces lock. Lock the other 2 castors.

Clip horizontal brace onto the vertical member just above the 1st rung, with the claw facing outwards.

Insert two guardrail frames and lock.

Fit the trapdoor platform to the 4th rung.



Using the 3T method add bracing frames. if risk assessment requires, toeboards could be fitted at this stage.

BUILD PROCESS - 4 metre

Insert castors into the folding frames. Lock 2 castors in one frame and roll the other frame outwards until the folding diagonal braces lock. Lock the other 2 castors.

Fit the platform to the 1st rung. Clip 2 horizontal braces to the 3rd rung either side of the frame. Clip 1 horizontal brace to the 2nd rung on the same side as the diagonal braces.

Insert standard frame and ladder frame and lock. Fit stabilisers to the base unit - see separate section on stabilisers.

Fit trapdoor platform to the 4th rung. Using the 3T method, install horizontal braces to the 5th and 6th rungs on both sides, with the claws facing outward.

Standing on the guarded platform fit diagonal braces in zig zag pattern on both sides from the 5th to the 7th rung.

Insert 2 guardrail frames and lock.

Remove the trapdoor from the first rung and fit to the 8th rung. Move horizontal brace from the 3rd rung down to the 1st rung with claw facing outwards.

Sitting in the trapdoor opening (3T) fit a bracing frame to each side. Once platform is guarded, toeboards can be installed to complete the build.

Safe Working Loads and Working Heights (WAHR)

The total loading on the tower structure should not exceed 360kg. Maximum platform height for indoor and outdoor use is 4m.

3T Safety Standard - THROUGH THE TRAP

This is an approved method of tower construction which, if carried out by a competent person, complies with all current safety legislation.

Construction - basic principles

- 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).
- Once the platform has been installed, climb, using the approved method and SIT IN THE TRAPDOOR OPENING.
- While seated, attach horizontal braces to the frames to form guardrails on BOTH SIDES OF THE PLATFORM.
- See assembly instructions for specific placement of guardrails.
- 2 braces are normally required each side - although bracing frames can be used on the outside if desired or specified in the instructions.
- Only when the platform is fully guarded is it safe to stand up.

Dismantling

- Unlock the brace ends furthest away from the trapdoor.
- DO NOT REMOVE BRACES UNTIL SITTING IN THE TRAPDOOR.

REMEMBER - NEVER STAND ON AN UNGUARDED PLATFORM

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 castor 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 castors and stabilisers are in firm contact with the ground.
- Reapply the castor brakes.

ALTERNATIVE PLATFORM HEIGHTS

Platforms can be installed in any rung position up to the 6th rung. Use bracing frames or horizontal braces on either side as shown, to provide adequate fall protection. Toeboards should be fitted once above 2 metres.

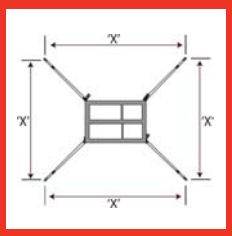
USAGE ADVICE

- 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.
- 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.
- Not to be used on sloping surfaces.

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.
- 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.

STABILISERS



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.

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). Total self-weight of towers are indicated.

Snappy Ladder				
Platform Height	**1m**	**2m**	**3m**	**4m**
Basic Snappy Kit	1	1	1	1
Horizontal Brace	3	3	3	5
Diagonal Brace			2	2
Platform	1	1	2	2
Extension Ladder Frame			1	1
Extension Frame			1	1
Guardrail Frame		2		2
Bracing Frame		2	2	2
Toeboard Set		1*	1	1
* Toeboard set at 2m based on risk assessment				

- 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

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