



Manual

ASC Folding Tower

Conform EN1004-2



UL-SA 5062



This manual is property of:

ASC Group
Leerlooierstraat 32
4871 EN Etten-Leur
Nederland



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If you have any questions, please contact ASC Group:

Leerlooierstraat 32
4871 EN Etten-Leur
Nederland
www.ASCGroup.nl
+3176 5413019

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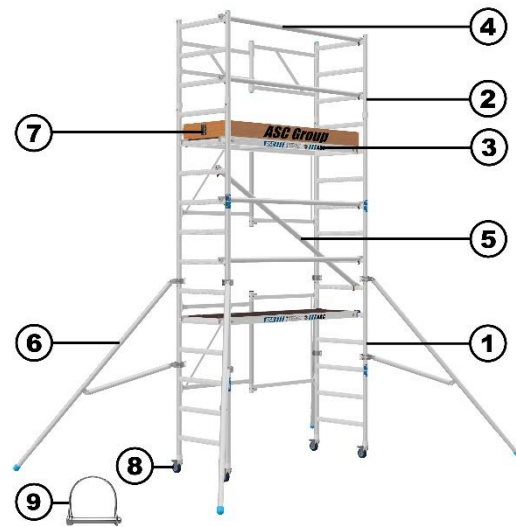
1 Overview

1.1 Application

A Folding tower is intended for various, mainly light work at height, where a solid, stable and safe work floor is required. The tower should not be used as a stair tower, to provide access to other constructions. If in doubt, always consult your supplier or manufacturer; the contact information is at the front of this brochure.

1.2 List of components

1. Folding unit 6-rung
2. Folding unit 3-rung
3. Platform with/without trapdoor
4. Horizontal brace
5. Diagonal brace
6. (Tele)Stabilizer
7. Wheel 200mm
8. Side board set incl. 4 holders
9. Locking clips



Composition

Floorheight:	0,70**	1,85	2,70	3,70	4,50	5,50
Articles:						
Folding unit 6-rung (1)	1	1	2	2	3	3
Folding unit 3-rung (2)		1		1		
Guardframe 75-50-2						2
Platform (3) without trapdoor	1					
Platform (3) with trapdoor		1	1	2	2	3
Horizontal brace (4)	1	2	2	4	4	8
Diagonal brace (5)			1	1	2	3
(Tele)Stabilizer (6)		4	4	4	4	4
Sideboard set (7)	1	1	1	1	1	1
Wheel 150mm (8)	4	4	4	4	4	4
Locking clip (9)	5	10	10	15	15	19
Artikelnummers	KMA1	KMA2	KMA3	KMA4	KMA5	KMA6

A Folding tower should be constructed by at least two people.

2 Assembly and use

2.5 Positioning of the Mobile Folding tower

2.5.1. Sureface

Always place the Folding tower a stable and horizontal surface. Make sure that the tower cannot sink into the ground. In addition, the general slope of the surface may not be steeper than 1 degree. So, at a height of 4 meters, the deviation may amount to a maximum of 4 cm.

2.5.2. Obstacles

Position the Folding tower in such a way that no danger to the user can arise when descending. Pay attention to obstacles on the ground and/or obstacles at height. The user should reach the upper platform without extra effort.

2.5.3. Maximum height

This depends on the placement and type of Folding tower (see Table 1).

2.5.4. Weather conditions

Consult the weather report to determine safety in various weather conditions. Consider the following conditions and use common sense.

Wind force

At wind force 6 or higher a scaffold may not be used.
Also, any materials such as canvas that are installed must be removed.

Precipitation

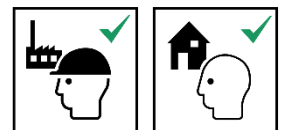
Remove snow and ice from the Folding tower before starting work. If necessary, sprinkle sand on the work floor to prevent slippage.

Cold

Avoid using mobile scaffold towers at temperatures below freezing.

2.6 Personal protection equipment

- Always wear work gloves, safety shoes and a safety helmet.
- When working at height, use a life-line.



2.7 Assembly

Check all components (use the list of components) that are required for assembly, are present and undamaged. Damaged components should not be used.

For checking for damage: see section 3.

There are no tools required for assembling a Folding tower. Folding towers are also not designed to be hoisted.

2.8 Assembly Instructions

Check that all materials meet the annual inspection labels and check all materials for damage. If in doubt, contact ASC or your dealer for any questions. Aluminum Scaffoldings should only be erected by people with enough and proven experience.

Floor height 0.70 m (A)

1. Insert the wheels (8) into the folding unit 6-rung (1) at the bottom and secure with a locking clip (9).
2. Open the folding unit, place the platform without trapdoor (3) on the 2nd rung and secure the folding unit with a locking clip in the hinge piece.
3. Put the wheels (8) on the brake and place a horizontal brace (4) on the upper rung (opposite the folding unit). This will create a handrail at hip height.
5. Put the side board holders (7) to the upright on the top work floor and place the side boards in the slots of the side board holders.
6. Check again that the scaffolding is properly positioned, the wheels are on the brake and the stabilizers are firmly on the ground.



! If you place the platform on the 3rd rung or higher, you will need all the parts from the composition KMA2 (B).

Floor height 1.85 m (B)

1. Place the wheels (8) in the folding unit 6-rung (1) at the bottom and secure with a locking clip (9).
2. Open the folding unit, place the platform with trapdoor (3) on the 5th rung and secure the folding unit with a locking clip in the hinge piece.
3. Place the (tele-)stabilizers (6) and make sure they are firmly on the ground. Always place a stabilizer link under a rung (to prevent slipping). For the correct assembly see section 2.5.4.
4. Open the folding unit 3-rung (2) on the ground, click in 2 horizontal braces (hip and knee height) and assemble it in the same form as the underlying folding unit. Secure all uprights with locking clips.
5. Climb up on the inside and snap the side board holders (7) to the upright on the top work floor and place the side boards in the slots of the side board holders.
6. Check again that the scaffold is properly positioned, the wheels are on the brake and the stabilizers are firmly on the ground.

Floor height 2.70 m (C)

1. Insert the wheels (8) into the folding unit 6-rung (1) at the bottom and secure with a locking clip (9).
2. Open the folding unit, place the platform with trapdoor (3) on the 2nd rung and secure the folding unit with a locking clip in the hinge piece.
3. Place the (tele-)stabilizers (6) and make sure they are firmly on the ground. Always place a stabilizer link under a rung (to prevent slipping). For the correct assembly see section 2.5.4.
4. Open the 2nd folding unit 6-rung (1) on the ground, click in 2 horizontal braces (hip and knee height) and assemble them on top of each other in the same shape as the underlying folding unit. Secure all uprights with locking clips.

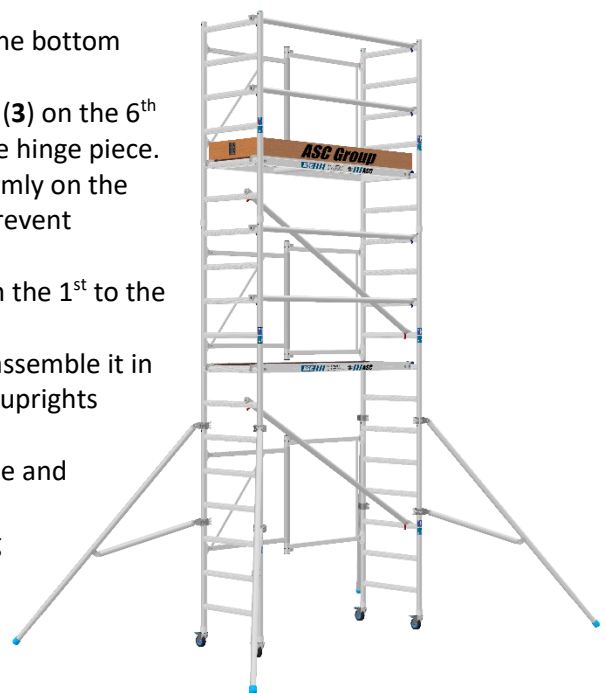
5. Move the platform (3) to the desired floor height (maximum of the 8th rung). Keep in mind that the horizontal braces should be at knee and hip height.
6. Assemble a diagonal brace (5) in the lower folding unit from the 2nd to the 6th rung.
7. Climb up on the inside and click the toe board holders (7) to the upright on the top work floor and place the toe boards in the slots of the toe board holders.
8. Check again that the scaffold stands properly, the wheels are on the brake and the stabilizers are firmly on the ground.

Floor height 3.70 m (D)

1. Insert the wheels (8) into the folding unit 6-rung (1) at the bottom and secure with a locking clip (9).
2. Fold open the folding unit, place the platform with trapdoor (3) on the 3rd rung and secure the folding unit with a locking clip in the hinge piece.
3. Position the (tele-)stabilizers (6) and make sure they are firmly on the ground. Always place a stabilizer link under a rung (to prevent slipping). For the correct assembly see section 2.5.4.
4. Open the 2nd folding unit 6-rung (1) on the ground and assemble it in the same form as the underlying folding unit. Secure all uprights with locking clips.
5. Mount (sitting on the platform) 2 horizontal braces (knee and hip height) before standing on the platform.
6. Attach a diagonal brace (5) to the 5th to the 10th rung.
7. Mount the 2nd platform with trapdoor (3) on the 5th rung of the 2nd folding unit.
8. Open the folding unit 3-rung (2) on the ground, click in 2 horizontal braces (hip and knee height) and assemble it in the same form as the underlying folding unit. Secure all uprights with locking clips.
9. Climb up on the inside and snap the side board holders (7) to the upright on the top work floor and place the side boards in the slots of the side board holders.
10. Check again that the scaffolding is properly positioned, the wheels are on the brake and the stabilizers are firmly on the ground.

Floor height 4.50 m (E)

1. Insert the wheels (8) into the folding unit 6-rung (1) at the bottom and secure with a locking clip (9).
2. Open the folding unit, place the platform with trapdoor (3) on the 6th rung and secure the folding unit with a locking clip in the hinge piece.
3. Place the (tele-)stabilizers (6) and make sure they are firmly on the ground. Always place a stabilizer link under a rung (to prevent slipping). For the correct assembly see section 2.5.4.
4. Install a diagonal brace (5) in the lower folding unit from the 1st to the 5th rung.
5. Open the 2nd folding unit 6-rung (1) on the ground and assemble it in the same form as the underlying folding unit. Secure all uprights with locking clips.
6. Mount (sitting on the platform) 2 horizontal braces (knee and hip height) before standing on the platform.
7. Mount a diagonal brace (5) in the 2nd folding unit 6-rung from the 1st to the 5th rung.
8. Mount the 2nd platform with trapdoor (3) on the 6th rung of the 2nd folding unit.



9. Open the last folding unit 6-rung (1) on the ground, click in 2 horizontal braces (hip and knee height) and assemble them on top of each other in the same form as the underlying folding unit. Secure all uprights with locking clips.
10. If required, move the 2nd platform to the 2nd rung of the top folding unit.
11. Climb up on the inside and click the toe board holders (7) to the upright on the upper working floor and place the toe boards in the slots of the toe board holders.
12. Check again that the scaffold stands properly, the wheels are on the brake and the stabilizers are firmly on the ground.

Floor height 5.50 m (F)

1. Perform steps 1 through 8 as described in (E).
2. Open the last folding unit 6-rung (1) on the ground and assemble it on top of each other in the same shape as the underlying folding unit. Secure all uprights with locking clips.
3. Mount (sitting on the platform) 2 horizontal braces (knee and hip height) before standing on the platform.
4. Attach a diagonal brace (5) in the 3rd folding unit 6-rung from the 1st to the 5th rung.
5. Mount the 3rd platform with trapdoor (3) on the upper rung of the 3rd folding unit.
6. While sitting on the platform, assemble the guardrail frame on the left and right sides and on both sides 2 horizontal braces at knee and hip height. A handrail is created all around.
7. Click the toe board holders (7) to the upright on the top work floor and place the toe boards in the slots of the toe board holders.
8. Check again that the scaffold is properly positioned, the wheels are on the brake and the stabilizers are firmly on the ground.

2.9 Use

Before use, please check that:

- All parts are still present
- All the parts are still properly attached
- The tower is still perpendicular
- The scaffold is clean
- There are any changes in the surroundings which may affect safe use
- The brakes are working on the wheel
- The stabilizers are touching the ground
- All locking clips are correctly in place

Never use a mobile scaffold tower near non-insulated, electrical installations or machinery.

2.9.1. Extension/increase

Never elevate the Folding tower with a tool. Therefore, do not use stairs, ladders, crates or steps on the Folding tower unless the stairs or ladder are intended to be part of the Folding tower.

2.9.2. Maximum permissible weight

Please read on the sticker on the platform what the maximum load is. Each ASC Group scaffold may be loaded to a maximum of 200 kg/m² and never more than 375 kg in total. This means on average: two people with (hand) tools. The maximum horizontal load is 30 kg.

2.9.3. Further loads weights

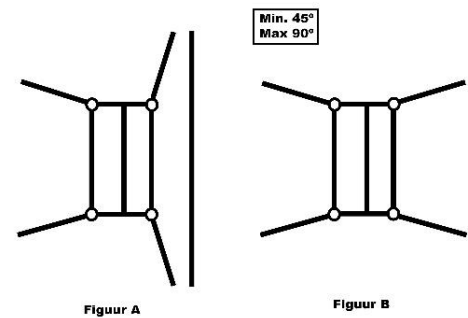
Do not attach a winch or hoist to the scaffold, but use a rope to lift parts, materials and tools (possibly in a bucket).

When working on a scaffold, force is applied to the scaffold. Consider the push-off against the building when drilling into a wall or the wind tunnel effect (additional wind load) between or in front of large buildings. Such external loads must always be taken into consideration.

2.9.4. Stabilization

Stabilizers must always be installed for a Folding tower structure from a floor height of 2,20m. Stabilizers are supplied in an adjustable version.

They are placed on a Folding tower which is placed against a building as shown in figure A and a freestanding scaffold as shown in figure B.



2.9.5. Sideboard set

Sideboards are always required on the platform being worked on.

2.9.6. Security

Do not leave a mobile Folding tower unattended in a public place for an extended period. If this is nevertheless necessary, the Folding tower can be secured to a fixed object with a ring lock. To do this, put the ring lock through one of the frame's compartments and attach an anti-climb device.

2.9.7. Relocation

A mobile Folding tower can be moved by dismantling and rebuilding it. After moving the Folding tower, it must be put back into plumb; therefore, go through the checklist again from Section 2.9.

2.10 Chemical products

Avoid contact with acids and chemical products. These can cause corrosion to the aluminium, which can affect the strength of the aluminium.

3 Inspection, care and maintenance

According to the regulations one must work safely at heights. On an ASC Mobile Tower, it is not obligatory to wear extra fall protection (provided that the recommendations in this manual have been followed).

3.1 The Health and Safety Law

The Working Conditions Decree is a concrete elaboration of the Safe Working at Height Act. It states that everything above 0 meters is 'working at height' and is therefore a situation with increased risk of injury. This also means that all materials must be properly manufactured and checked in a quality cycle. ASC tests all materials and performs strength calculations. The user must also have the material inspected annually for defects.

3.1.1. Annual control

Your ASC Mobile Tower must be inspected for any defects annually by an expert. The ASC Group can perform this control for you.

3.1.2. Self-inspection

The ASC Mobile Tower can be inspected by yourself. Before each use, always check the components for any damage. We certainly recommend larger companies to do a monthly inspection of all components of the Mobile Towers and to record this inspection. If you are in doubt about damage, consult an accredited inspector.

3.1.3. Damages

Examples of the most common damages on aluminium Folding tower;

- Components: if a claw or a sport is loose, the mobile Folding tower must be rejected.
- Dents and or holes: if there is a big dent in the aluminium or even a crack or hole, the Folding tower must be rejected.
- Contamination: if there is too much concrete, paint or other non-removable contamination on the components, the Folding tower must be rejected; after all, you can no longer judge whether the components are still intact.

3.1.4. What to do in the event of damage

If there is any damage, which cannot be repaired, the component must be taken out and replaced. If repairing is possible, please contact ASC Group for further information.

3.1.5. Repair

Repairing a component must be carried out by a certified body or person.

3.2 Transport

- Always transport the components in accordance with the locally applicable legislation.
- Stack the components correctly for transport; never place the heavy components on top.
- Transport the components of a Folding tower, preferably standing, f.e in a carrier.
- Handle the material with care. Do not drop components onto a hard surface; this can reduce the quality of the material.

3.3 Maintenance

- Make sure the Folding tower material is clean, especially the connecting pins. The frames should go in and out easily.
- Make sure the pawl of the hook of the diagonal and horizontal braces is clean. If necessary, lubricate it with a little oil. The same applies to the wheel spindle.
- Replace missing and broken parts in time.

3.4 Storage

Store components of the Folding tower preferably in a dry, clean, dark and frost-free place.