



## LAYHER SOLOTOWER INSTRUCTIONS FOR ASSEMBLY AND USE



**Edition 06.2019**

Mobile working platforms  
as per DIN EN 1004:2005-03  
Working platform 0.75 x 1.13 m

max. working height  
in closed areas: 6.15 m  
outdoors: 6.15 m  
perm. load capacity 2.0 kN/m<sup>2</sup>  
on max. one working level  
(Scaffolding group 3 as per  
DIN EN 1004:2005)



# CONTENTS

1.	Introduction .....	4
2.	General directions for assembly and use .....	4
3.	Measures for fall prevention.....	6
4.	Tower models .....	8
5.	Assembly and dismantling .....	9
5.1.1.	Assembly sequence for model 1600102 .....	10
5.1.2.	Dismantling sequence for model 1600102 .....	14
5.2.1.	Assembly sequence for model 1600103 .....	15
5.2.2.	Dismantling sequence for model 1600103 .....	21
5.3.1.	Assembly sequence for model 1600104 .....	22
5.3.2.	Dismantling sequence for model 1600104 .....	29
6.	Ballasting .....	30
7.	Stabiliser attachment .....	33
8.	Fitting the toe board unit .....	34
9.	Component transport / transport unit .....	35
10.	Parts list .....	36
11.	Components of the system .....	36

## **NOTE**

The products or assembly variants shown in these instructions for assembly and use may be subject to country-specific regulations. The user of the products bears the responsibility for compliance with these regulations.

Subject to local regulations, we reserve the right not to supply all of the products illustrated here.

Your Layher partner on the spot will be happy to provide advice and answers to all questions about the products, their use or specific assembly regulations.

# 1. INTRODUCTION

## General

These instructions for assembly and use relate to assembly, modification and dismantling of the mobile working platform SoloTower made by Wilhelm Layher GmbH & Co KG, of Güglingen-Eibensbach, Germany. These instructions cannot cover all the possible applications. If you have any questions about specific applications, please contact your Layher partner.

**Caution:** The Layher SoloTower may only be assembled, modified and dismantled under the supervision of a qualified expert and by technically trained employees.

## 2. GENERAL DIRECTIONS FOR ASSEMBLY AND USE

The mobile working platform may be used for the specified scaffolding group in accordance with the stipulations of DIN EN 1004 and taking into account the appropriate sections of the German Ordinance on Industrial Safety and Health (BetrSichV).

**The user of the mobile working platform must comply with the following instructions:**

1. The user must verify the suitability of the selected mobile working platform for the work to be performed (Section 4 of BetrSichV).

The ballasting and component requirements in the appropriate sections must be complied with. Non-compliance leads to a risk of accidents, with stability and load-bearing capacity no longer being assured.

If the selected tower cannot be built in the assembly variants described, a separate strength and stability calculation must be conducted for the tower or for individual parts thereof.

2. Assembly, modification or dismantling of the mobile working platform in accordance with the present instructions for assembly and use may only be performed under the supervision of a qualified person or

by professionally suitable employees after special instruction. Only the tower models shown in these instructions for assembly and use may be built and also used. The tower must be inspected before, after or during assembly, but no later than before it is put into service (Section 14 of BetrSichV). During assembly, modification or dismantling, the mobile working platform must be marked with a prohibition sign indicating "no entry" (BetrSichV Annex 1, Para. 3).

3. Before installation, all parts must be inspected to ensure they are in perfect condition. Only undamaged original parts of the mobile working platform systems from Layher may be used. Tower parts such as snap-on claws and spigots must be cleaned of dirt after use. The components must be secured against slipping and impacts while being transported. The components must be handled in such a way that they are not damaged.

4. Tools and materials on a small scale must be carried on the person.

5. The ladder frame joints must always be secured using spring clips.

6. Stability must be assured during every phase of the assembly process.

7. Upward access to the working platform is permitted only on the inside of the tower.

8. Lifting gear must not be attached to and used on mobile working platforms.

9. Assembly and movement are only permitted on sufficiently firm ground, and only in a longitudinal or diagonal direction. All impacts must be avoided. During movement, normal walking speed must not be exceeded.

10. No personnel and/or loose objects may be on the tower while it is being moved.

11. After movement, the castors must be locked by pressing down the brake lever.
12. Working on two or more working levels at the same time is not permitted. In the event of exceptions, the manufacturer must be consulted. When work is being done on several levels, they must be completely equipped with 3-part side protection.
13. The mobile working platforms must not be subjected to any aggressive fluids or gases.
14. Mobile working platforms must not be connected by bridging unless the structural strength has been specifically verified. The same applies for all other special assemblies, e.g. suspended scaffolding etc. Furthermore, the provision of bridging between a mobile working platform and a building is not permissible.
15. If the mobile working platform is used outdoors or in open buildings, it must be moved – when wind strength exceeds 6 on the Beaufort scale or at the end of a shift – into a wind-protected area or safeguarded against tipping over by other suitable measures (wind strengths higher than 6 on the scale can be recognised by a noticeable difficulty in walking). It is recommended that mobile working platforms be anchored if they are left unattended. The maximum tilt is 1 %.
16. Decks may only be repositioned when the specified side protection heights and bracing are complied with. In the event of a design differing from the models shown in the present instructions for assembly and use, the manufacturer must be consulted, as a separate verification of stability may be required.
17. The access hatch must always be kept shut except when it is in use.
18. Climbing over from one mobile working platform to another or to adjacent buildings is not allowed.
19. Jumping on decked surfaces is not allowed.
20. It must be checked that all parts, auxiliary tools and safety equipment for assembling the mobile working platforms are available at the site.
21. Horizontal and vertical loads that can cause the mobile working platform to topple over should be avoided, for example:
  - pushing against the side protection
  - additional wind loads (tunnel effect of through-type buildings, uncovered buildings and corners of buildings).
22. If stipulated, mobile working platforms must be provided with appropriate base-widening solutions, which can be mobile beams, stabilisers or outriggers.
23. It is not permitted to increase the height of the deck using ladders, boxes or other objects.
24. Mobile working platforms are not designed to be lifted or suspended.

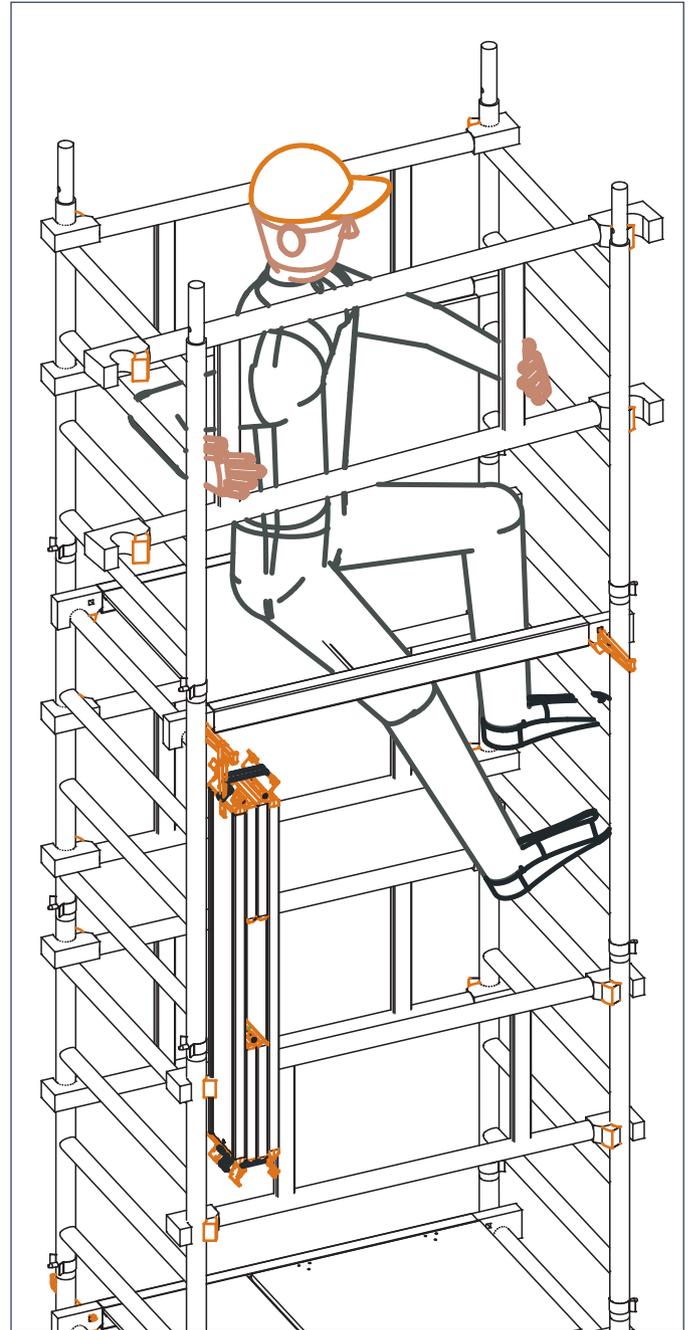
### 3. MEASURES FOR FALL PREVENTION

#### 3T method

#### Preventing falls during assembly, modification or dismantling

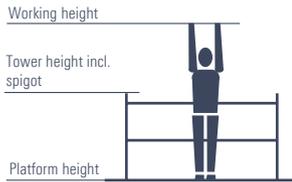
This is the so-called 3T (Through The Trapdoor) method, in which assembly is done through the trapdoor to the next level up by means of the double guardrail, in order to prevent falls.

After climbing up on the inside using the rungs of the ladder frame, the double guardrails are fitted from a sitting position. Once the fall prevention has been fitted, the level in question is secure all round and can then be accessed.





## 4. TOWER MODELS



### SoloTower

Tower model	1600102	1600103	1600104
Working height [m]	4.15	5.15	6.15
Tower height [m]	3.37	4.37	5.37
Platform height [m]	2.15	3.15	4.15
Weight [kg] (without ballast)	118.8	151.9	167.6
<b>Ballasting</b> (stated in units)			
<b>In closed areas</b>			
Assembly central	0	0	0
Assembly off-set	L0 R5	L0 R8	L0 R10
Assembly off-set with wall bracing	0	0	0
<b>Outdoors</b>			
Assembly central	0	0	0
Assembly off-set	L0 R5	L0 R8	L0 R10
Assembly off-set with wall bracing	0	0	0

L = left / R = right X = not permitted / not possible 0 = no ballast required.

All heights stated without possible spindle extension! For attachment of ballast weights see p.30, section 6 entitled Ballasting.

**Please note: The ballasting table contains updated information. By releasing this document, the issue from 04.2019 loses its validity.**

## 5. ASSEMBLY AND DISMANTLING

Observe the general directions for assembly and use on pages 4 – 5. The examples shown for assembly are intended for use in closed areas and outdoors up to a maximum platform height of 4 metres (see table of models, page 8).

Snap the snap-on claws of the decks into the ladder frames **1** from above. Snap in the snap-on claws of the double guardrails **2** from the inside.

Level the tower after basic assembly. This is done using the threaded spindles of the castors **7**.

Always tighten screw couplers provided with nuts using a suitable wrench (approx. 50 Nm).



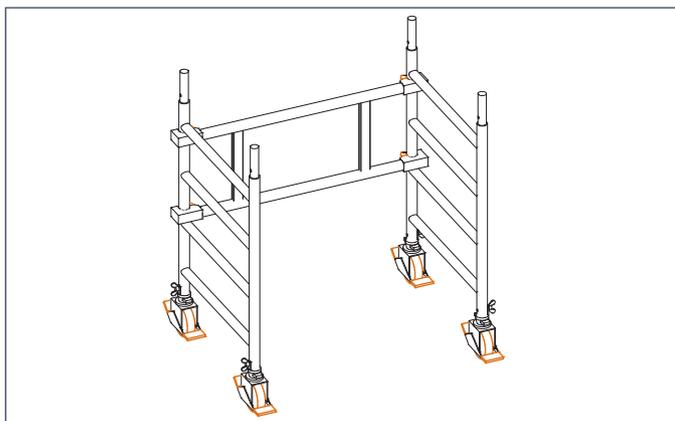
**The snap-on claws of the double guardrails **2** and access decks **3** and the spring clips **8** on the ladder frames **1** must be properly snapped in and then secured. Lock the s **7** during assembly, modification or dismantling and when there is anybody on the tower.**

The item numbers **1 - 11** of the parts in the complete document relate to the section entitled Components of the System on page 36.

## 5.1.1. Assembly sequence for model 1600102

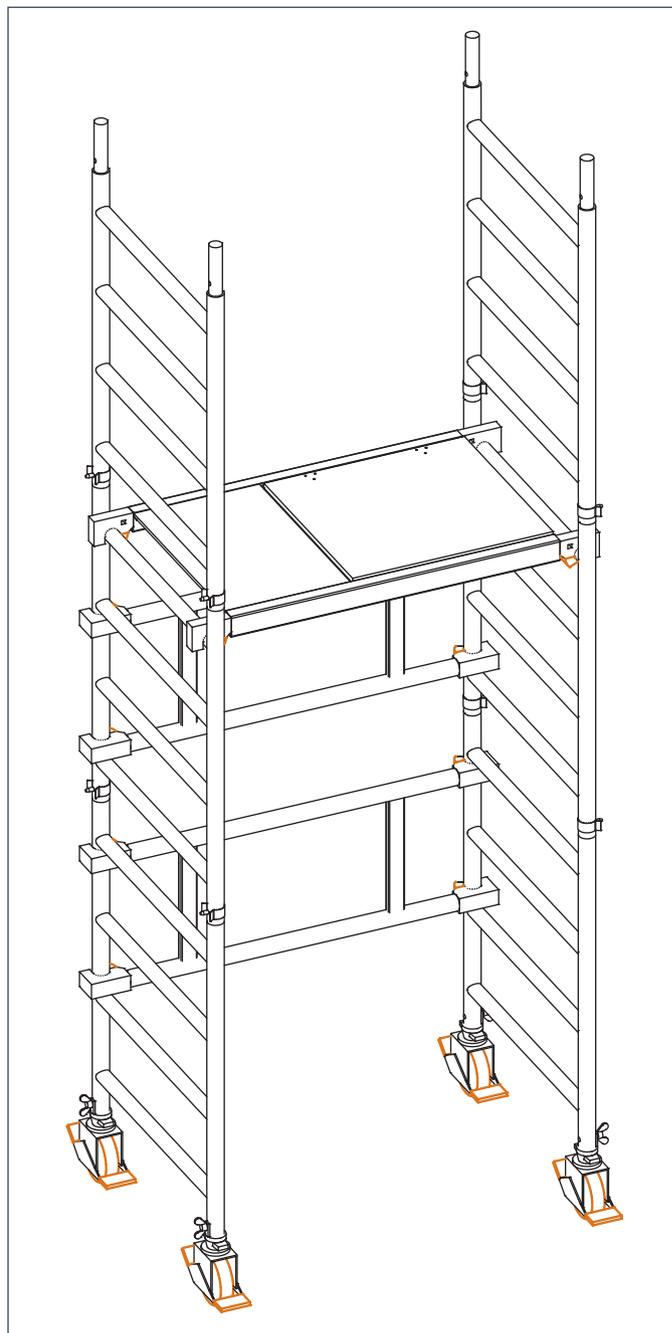
### Basic assembly

1. Insert 2 castors **7** into each 1 m ladder frame **1** and fix them using the locking screw at the appropriate end of the upright.
2. Connect the 1 m ladder frames **1** with a double guardrail **2** between the 2nd and 4th rungs from the bottom as initial bracing.



### Assembly of model 1600102

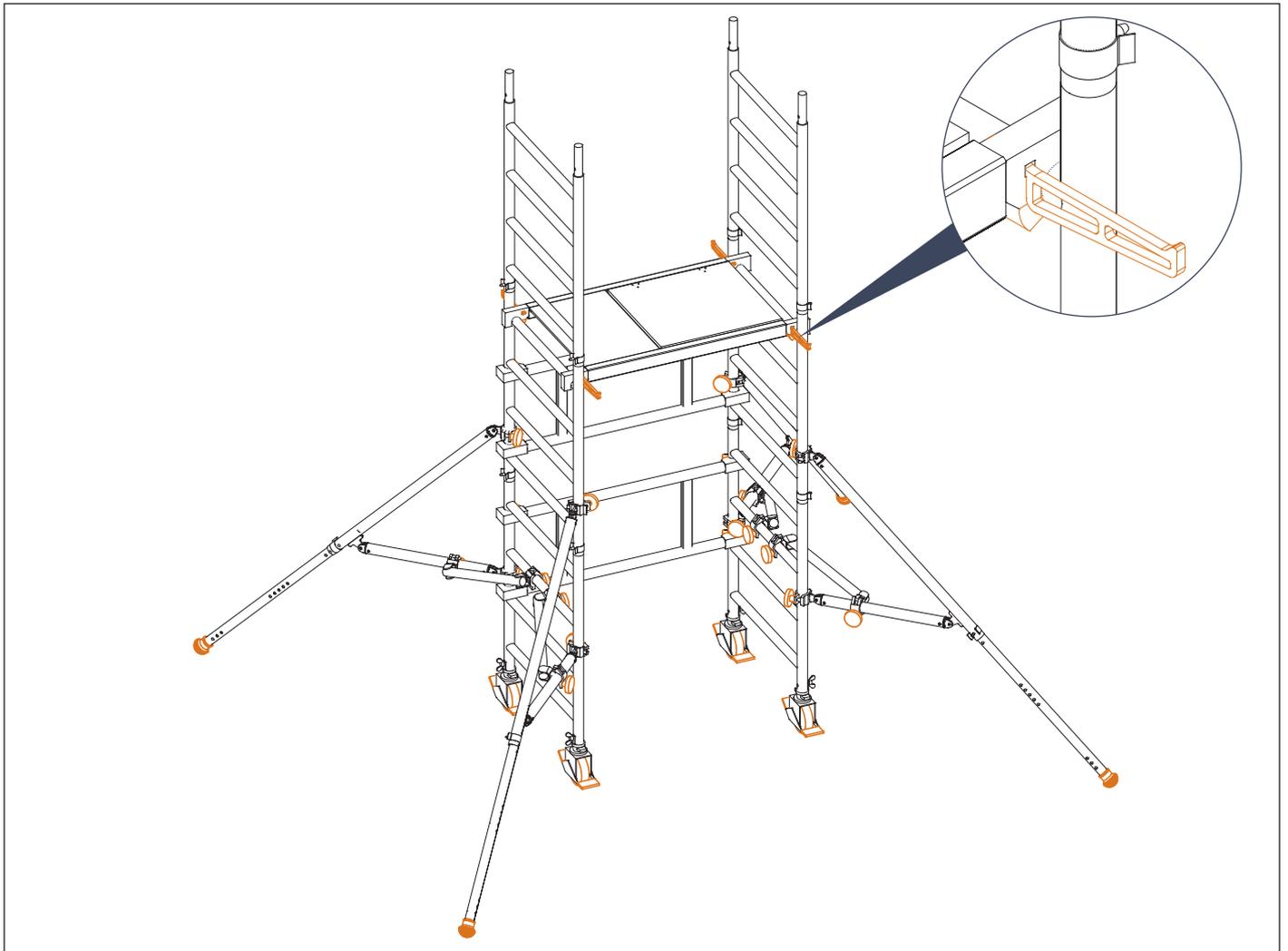
1. Join the 1 m ladder frames **1** together, secure them with spring clips **8**, place them onto the ladder frame spigots provided for them in the basic assembly, and then secure the joints too with spring clips **8**.
2. Fit the access deck **3** on the 8th rung from the bottom and snap it properly into place using the snap-on claws.
3. Fit the double guardrail **2** as bracing between the 5th and 7th rungs from the bottom, and snap it properly into place using the snap-on claws.



4. Fitting of the stabilisers **4** on all 4 uprights of the already assembled ladder frames (see p.30, section entitled Stabiliser attachment).

5. Safeguard the stabilisers **4** against unintended rotating by fitting the rotation lock **5** between the 3rd rung of the 1 m ladder frame **1** and the transverse tube of the stabiliser.

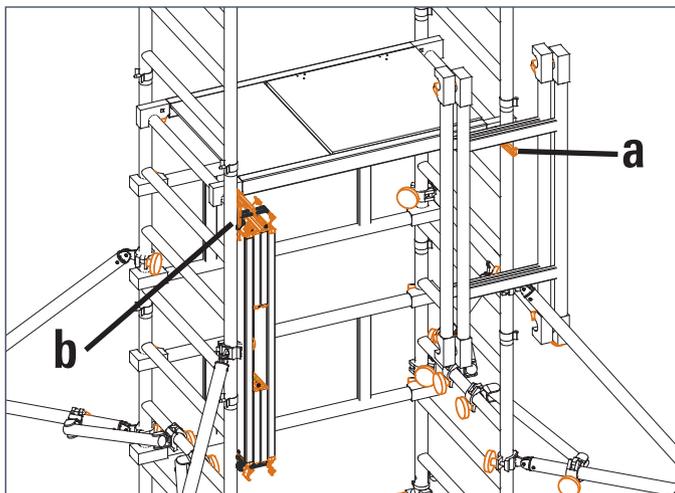
6. Insert assembly hooks **9** into the recesses provided for them in the snap-on claws of the already assembled access deck **3**.



7. Position the components needed for further assembly on the assembly hooks **9**.

**Part arrangement for model 1600102**

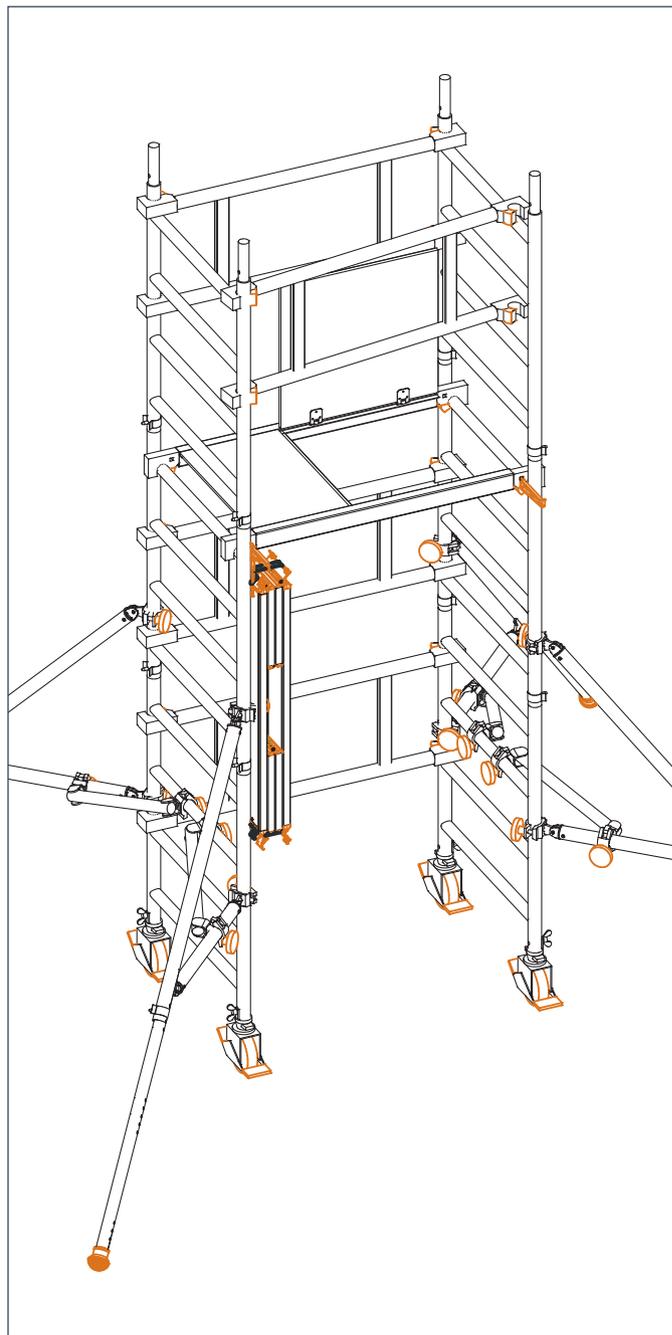
- a. ▶ 2x double guardrail **2**.
- b. ▶ 1x toe board unit **6**.

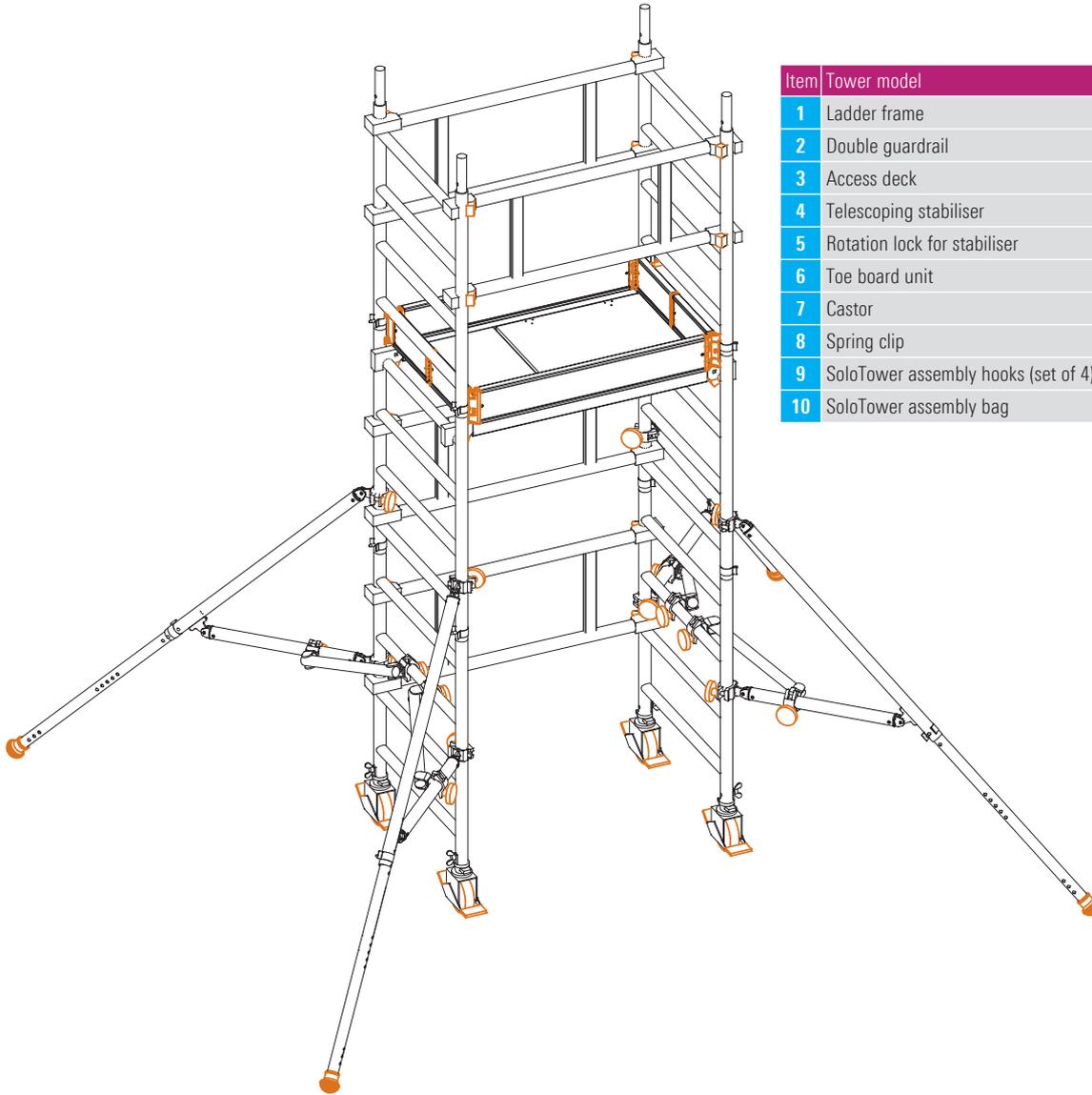


8. Climb up on the inside using the rungs of the ladder frame and through the trapdoor provided.

9. Further assemble the side protection for the next level while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**. Take the two double guardrails **2** from "a" as listed under 7, fit them with the top chord over the last rung and snap them into place properly using the snap-on claws. (see p.6, section entitled Measures for Fall Prevention).

10. Take the toe board unit **6** from "b" as listed under 7, fold it open on the work level now constructed and fit it as a frame around the access deck (see p.31, Fitting the toe board unit).





Item	Tower model	Reference No.	1600102
1	Ladder frame	1297.004	6
2	Double guardrail	1342.113	4
3	Access deck	1242.113	1
4	Telescoping stabiliser	1240.000	4
5	Rotation lock for stabiliser	1248.261	4
6	Toe board unit	1240.113	1
7	Castor	1300.150	4
8	Spring clip	1250.000	8
9	SoloTower assembly hooks (set of 4)	1300.002	1
10	SoloTower assembly bag	1300.003	1

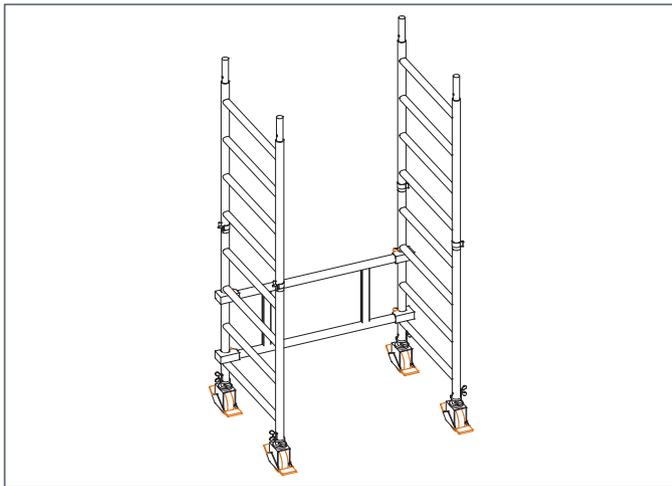
### 5.1.2. Dismantling sequence for model 1600102

1. Insert 2 assembly hooks **9** into the recesses provided for them in the snap-on claws of the access deck **3**.
2. Fold the toe board unit **6** together and position it in the assembly hooks **9**.
3. Dismantle the two double guardrails **2** while sitting in the trap-door opening, protected from falls by the sides of the access deck **3**, then position the guardrails in the assembly hooks **9**.
4. Climb down on the inside using the rungs of the ladder frame **1** to the ground.
5. Remove the positioned components from the assembly hooks **9**.
6. Remove the stabilisers **4**.
7. Remove the access deck **3** at the 8th rung.
8. Remove the ladder frames **1**.
9. Dismantle the basic assembly.

## 5.2.1. Assembly sequence for model 1600103

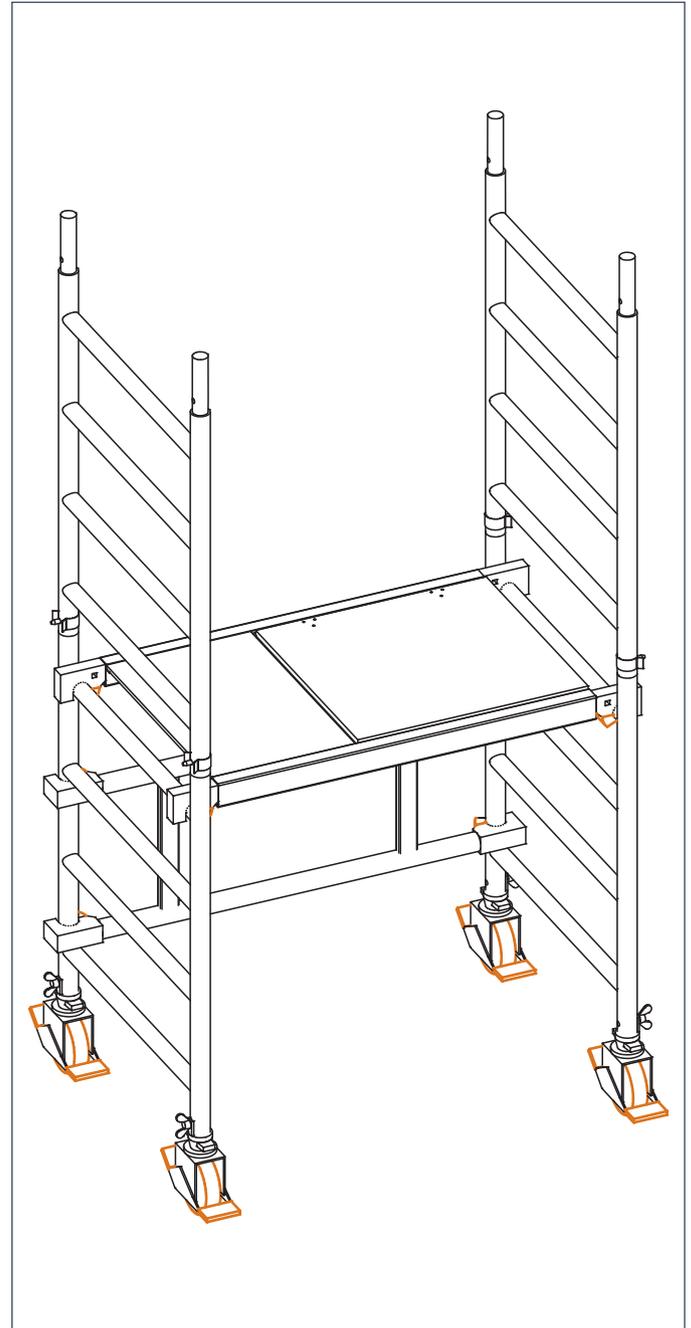
### Basic assembly

1. Join the 1 m ladder frames **1** together, then secure them with spring clips **8**.
2. Insert 2 castors **7** into each of the bottom 1 m ladder frames **1** and fix them using the locking screw at the appropriate end of the upright.
3. Connect the previously joined 1 m ladder frames **1** with a double guardrail **2** between the 1st and 4th rungs from the bottom as initial bracing.



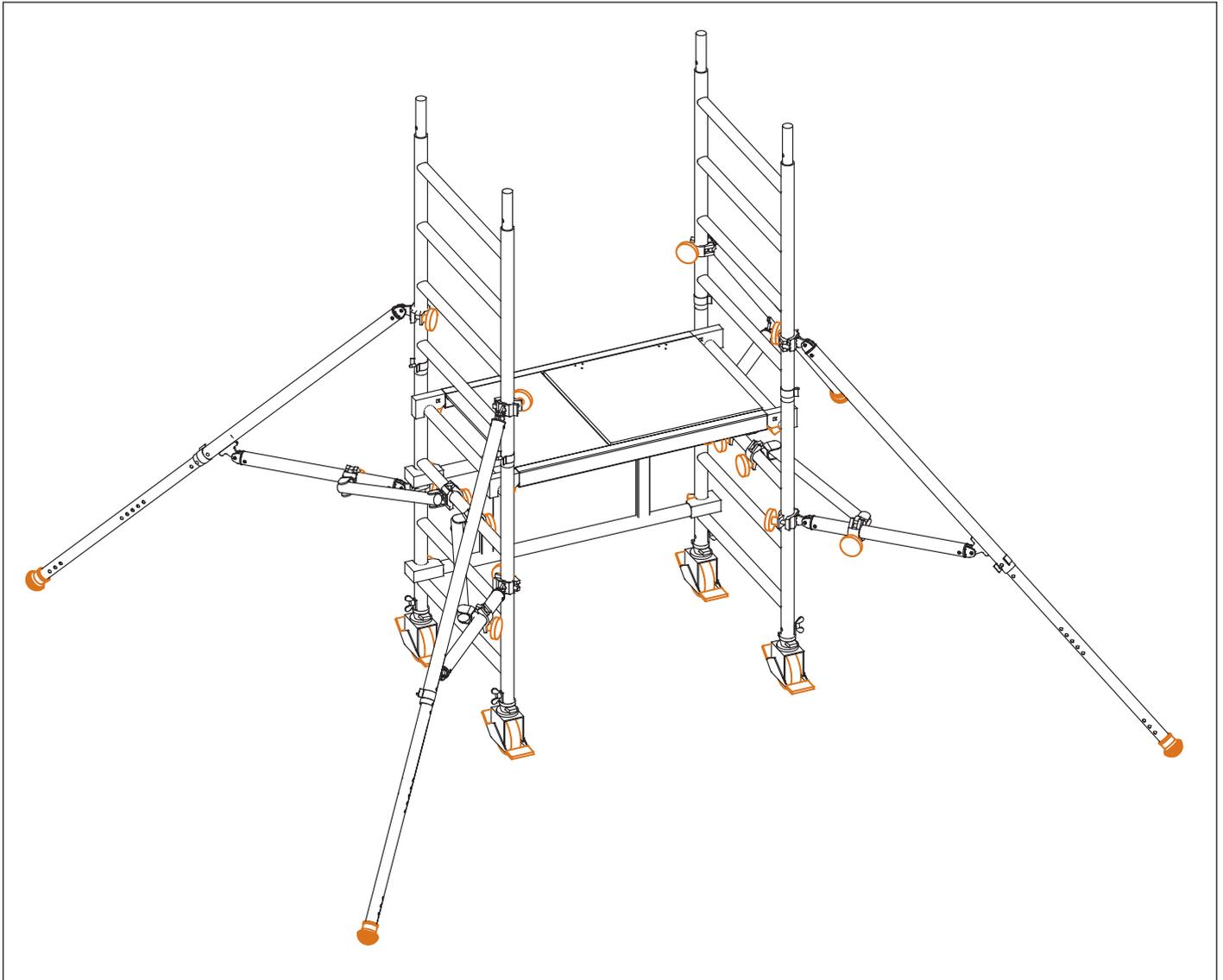
### Assembly of model 1600103

1. Fit the access deck **3** on the 4th rung from the bottom and snap it properly into place using the snap-on claws.



2. Fitting of the stabilisers **4** on all 4 uprights of the already assembled ladder frames (see p.30, section entitled Stabiliser attachment)

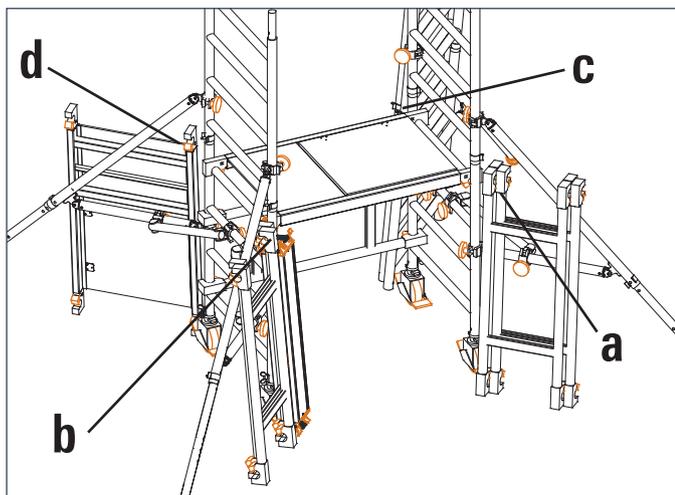
3. Safeguard the stabilisers **4** against unintended rotating by fitting the rotation lock **5** between the 3rd rung of the 1 m ladder frame **1** and the transverse tube of the stabiliser.



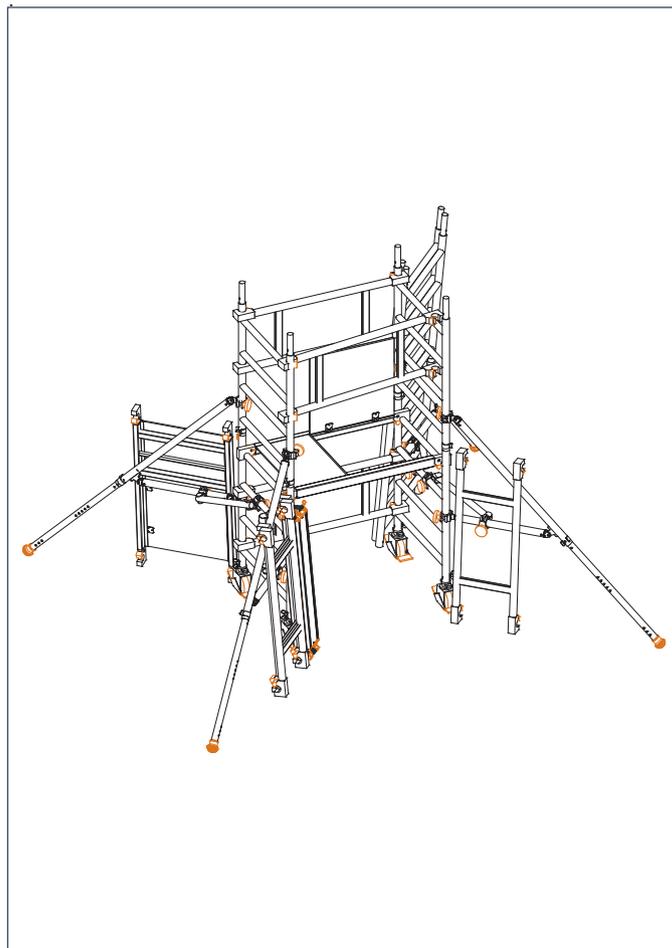
4. Position the components needed for further assembly close to hand around the already assembled access deck **3**.

**Part arrangement for model 1600103**

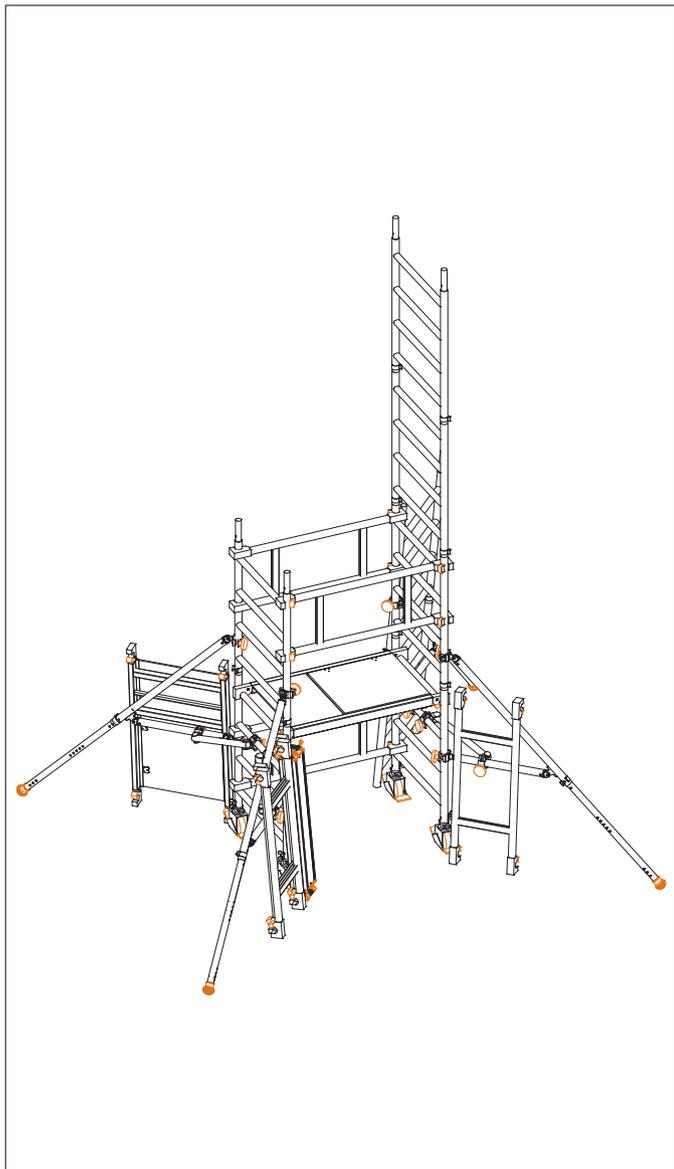
- a. ▶ 3x double guardrail **2**.
- b. ▶ 1x toe board unit **6**.  
2x double guardrail **2**.
- c. ▶ 2x previously assembled 1 m ladder frame **1**.
- d. ▶ 1x access deck **3**.



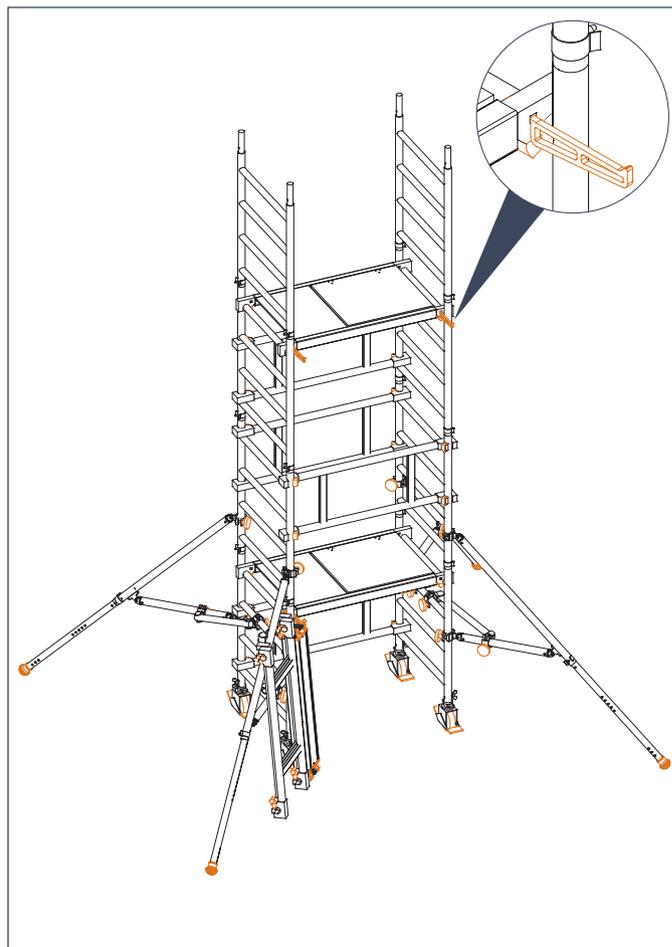
5. Climb up on the inside using the rungs of the ladder frame and through the trapdoor provided.
6. Further assemble the side protection for the next level while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**. Take the two double guardrails **2** from "a" as listed under 4, fit them with the top chord over the last rung and use the snap-on claws to snap them into place properly. (see p.6, section entitled Measures for Fall Prevention).



7. Place the previously joined ladder frames from "c" as listed under 5 into the spigots provided of the already assembled ladder frames, then secure the joints with spring clips **8**.



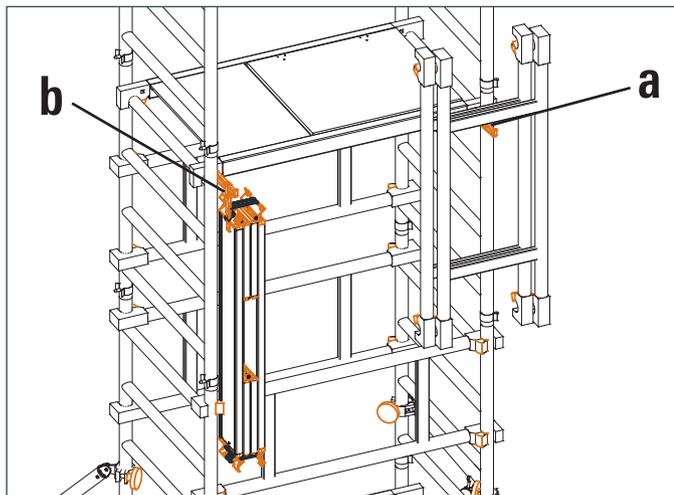
8. Fit the double guardrail **2** as bracing between the 5th and 7th rungs above the current platform height and snap it properly into place using the snap-on claws.
9. Fit the access deck **3** on the 8th rung above the current platform height and snap it properly into place using the snap-on claws.
10. Insert assembly hooks **9** into the recesses provided for this in the snap-on claws of the already assembled access deck **3**.



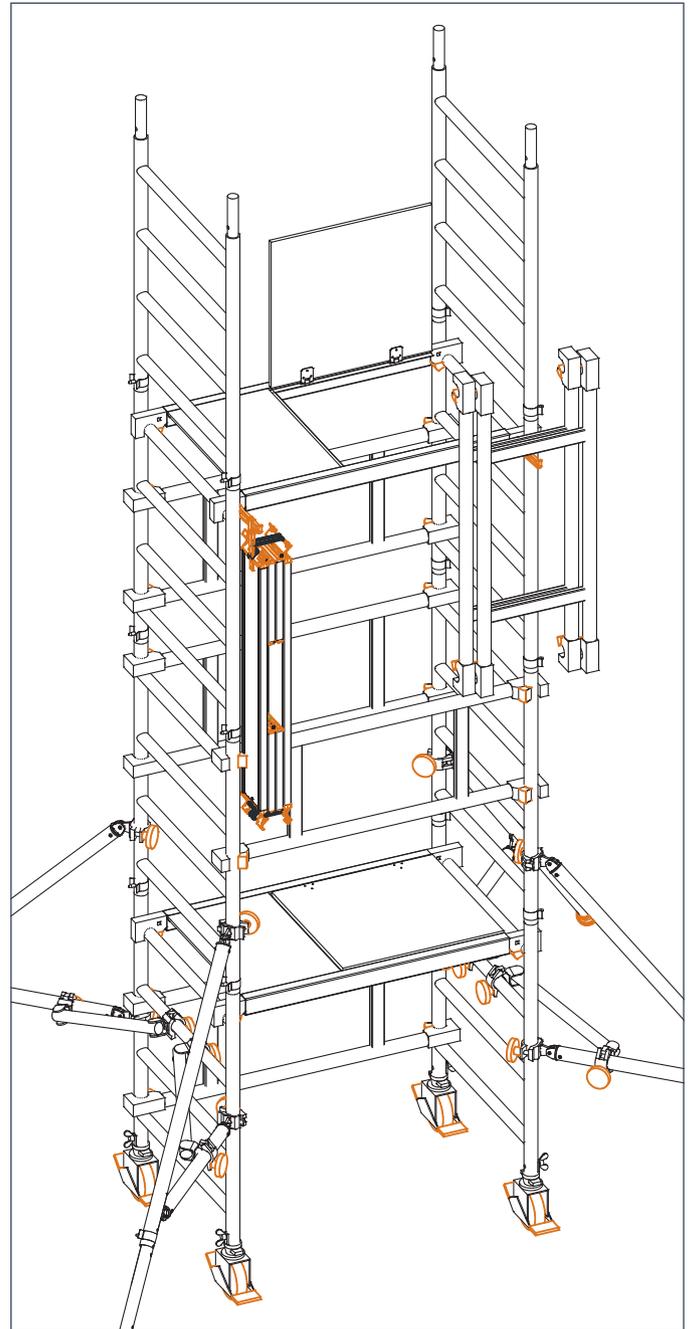
11. Diagonal movement of the components positioned in the assembly hooks 9 for further assembly.

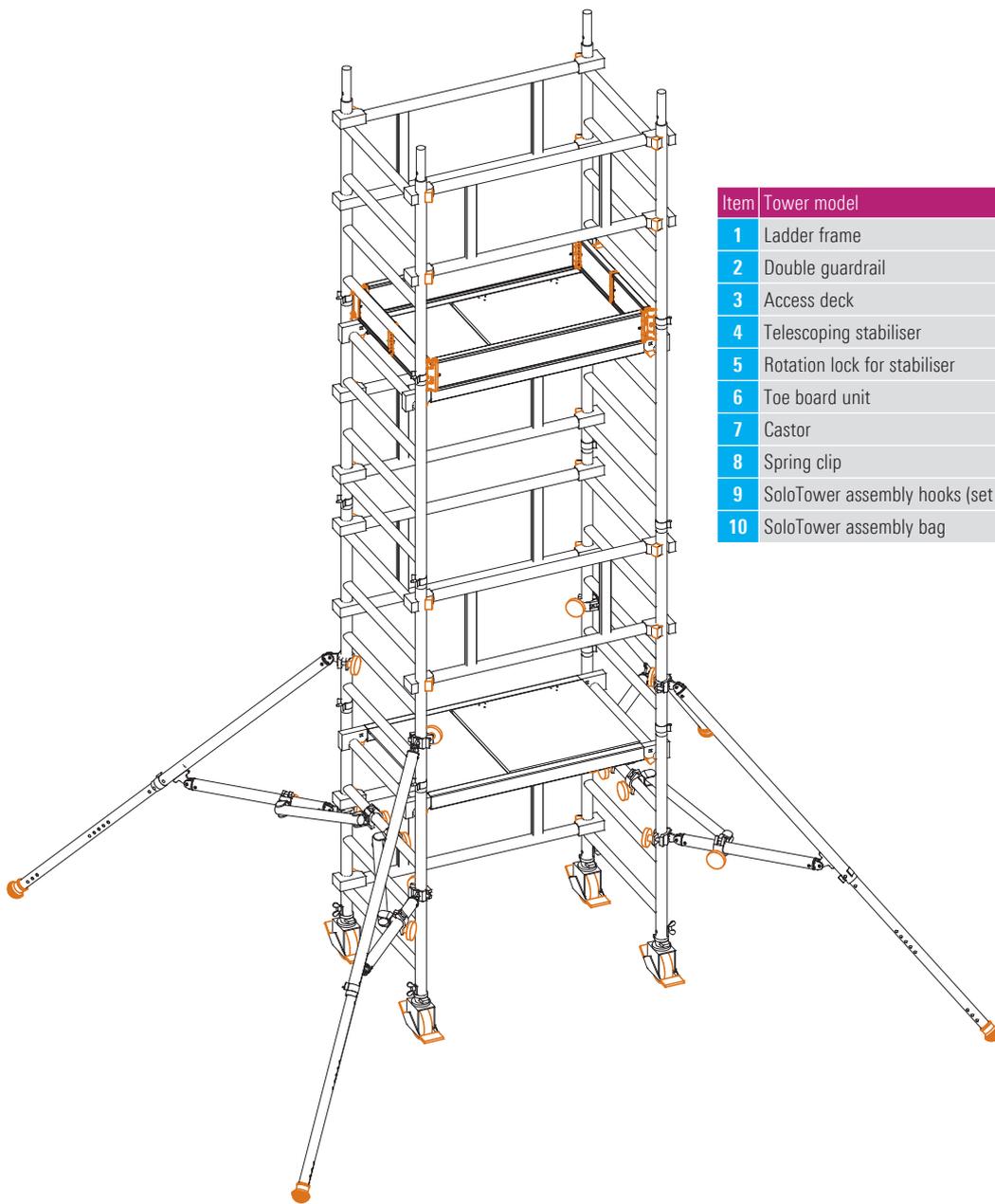
**Part arrangement for model 1600103**

- a. ▶ 2x double guardrail 2.
- b. ▶ 1x toe board unit 6.



12. Climb up on the inside using the rungs of the ladder frame and through the trapdoor provided.
13. Further assemble the side protection for the next level while sitting in the trapdoor opening, protected from falls by the sides of the access deck 3. Take the two double guardrails 2 from "a" listed under 11, fit them with the top chord over the last rung and use the snap-on claws to snap them into place properly. (see p.6, section entitled Measures for Fall Prevention).
14. Take the toe board unit 6 from "b" listed under 11, fold it open on the work level now constructed and fit it as a frame around the access deck (see p.31, section 6, Fitting the toe board unit).





Item	Tower model	Reference No.	1600103
1	Ladder frame	1297.004	8
2	Double guardrail	1342.113	6
3	Access deck	1242.113	2
4	Telescoping stabiliser	1240.000	4
5	Rotation lock for stabiliser	1248.261	4
6	Toe board unit	1240.113	1
7	Castor	1300.150	4
8	Spring clip	1250.000	12
9	SoloTower assembly hooks (set of 4)	1300.002	1
10	SoloTower assembly bag	1300.003	1

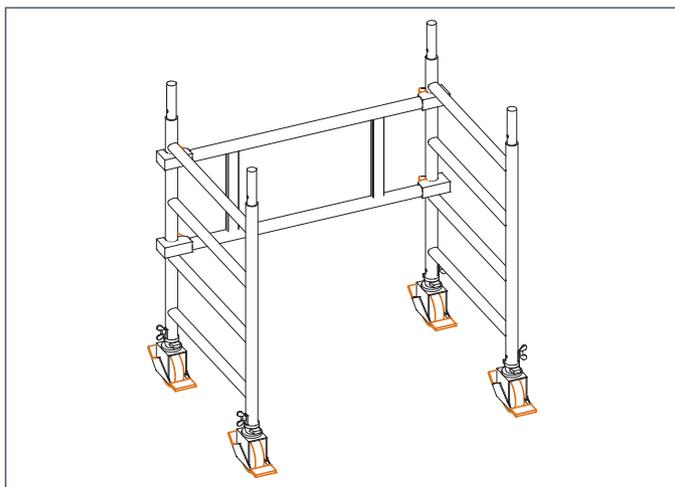
## 5.2.2 Dismantling sequence for model 1600103

1. Insert 2 assembly hooks **9** into the front recesses provided for them in the snap-on claws of the access deck **3** fitted at the top level.
2. Fold the toe board unit **6** together and position it in the assembly hooks **9**.
3. Dismantle the two double guardrails **2** while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**, then position the guardrails in the assembly hooks **9**.
4. Climb down on the inside using the rungs of the ladder frame **1** to the level underneath it.
5. Remove the components from the assembly hooks **9** and then position them close to hand around the basic assembly.
6. Dismantle and position the double guardrail **2** as bracing between the 5th and 7th rungs above the present platform height.
7. Dismantle and position the access deck **3** at the 8th rung above the present platform height.
8. Dismantle and position the previously joined ladder frames **1**.
9. Dismantle and position the two double guardrails **2** while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**.
10. Climb down on the inside using the rungs of the ladder frame **1** to the ground.
11. Remove the positioned components.
12. Remove the stabilisers **4**.
13. Remove the access deck **3** at the 4th rung.
14. Remove the ladder frames **1**.
15. Dismantle the basic assembly.

### 5.3.1. Assembly sequence for model 1600104

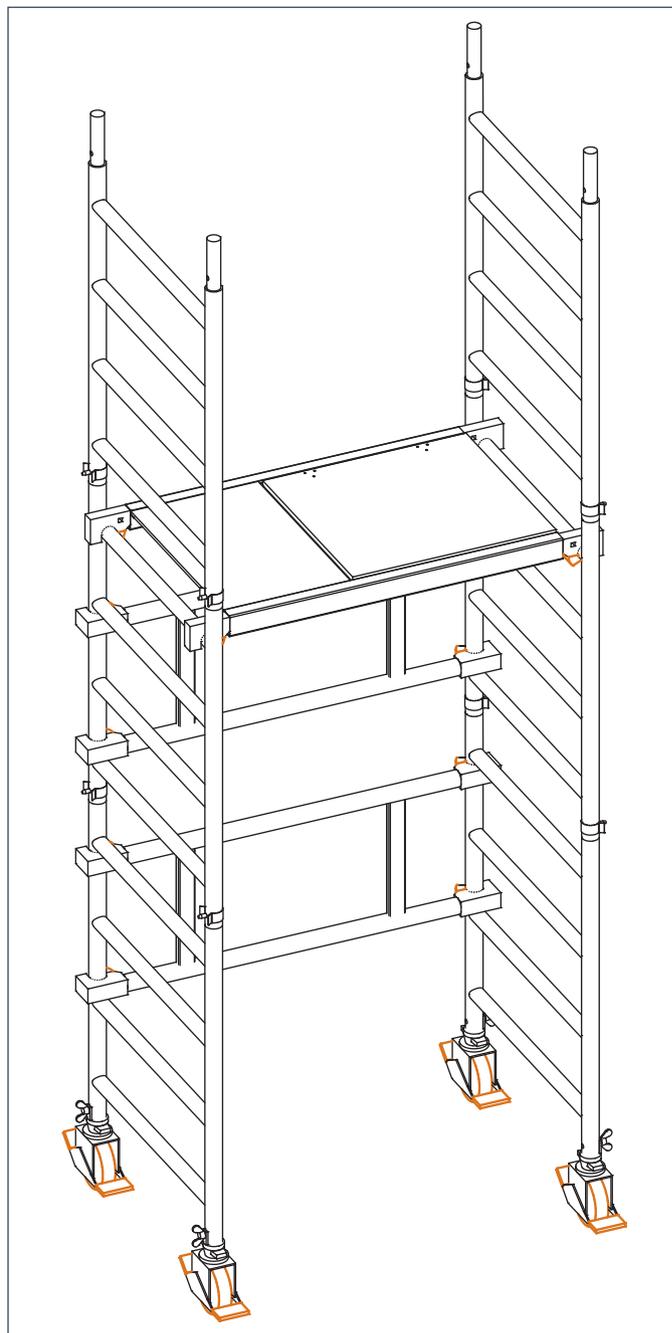
#### Basic assembly

1. Insert 2 castors **7** into each 1 m ladder frame **1** and fix them using the locking screw at the appropriate end of the upright.
2. Connect the 1 m ladder frames **1** with a double guardrail **2** between the 2nd and 4th rungs from the bottom as initial bracing.



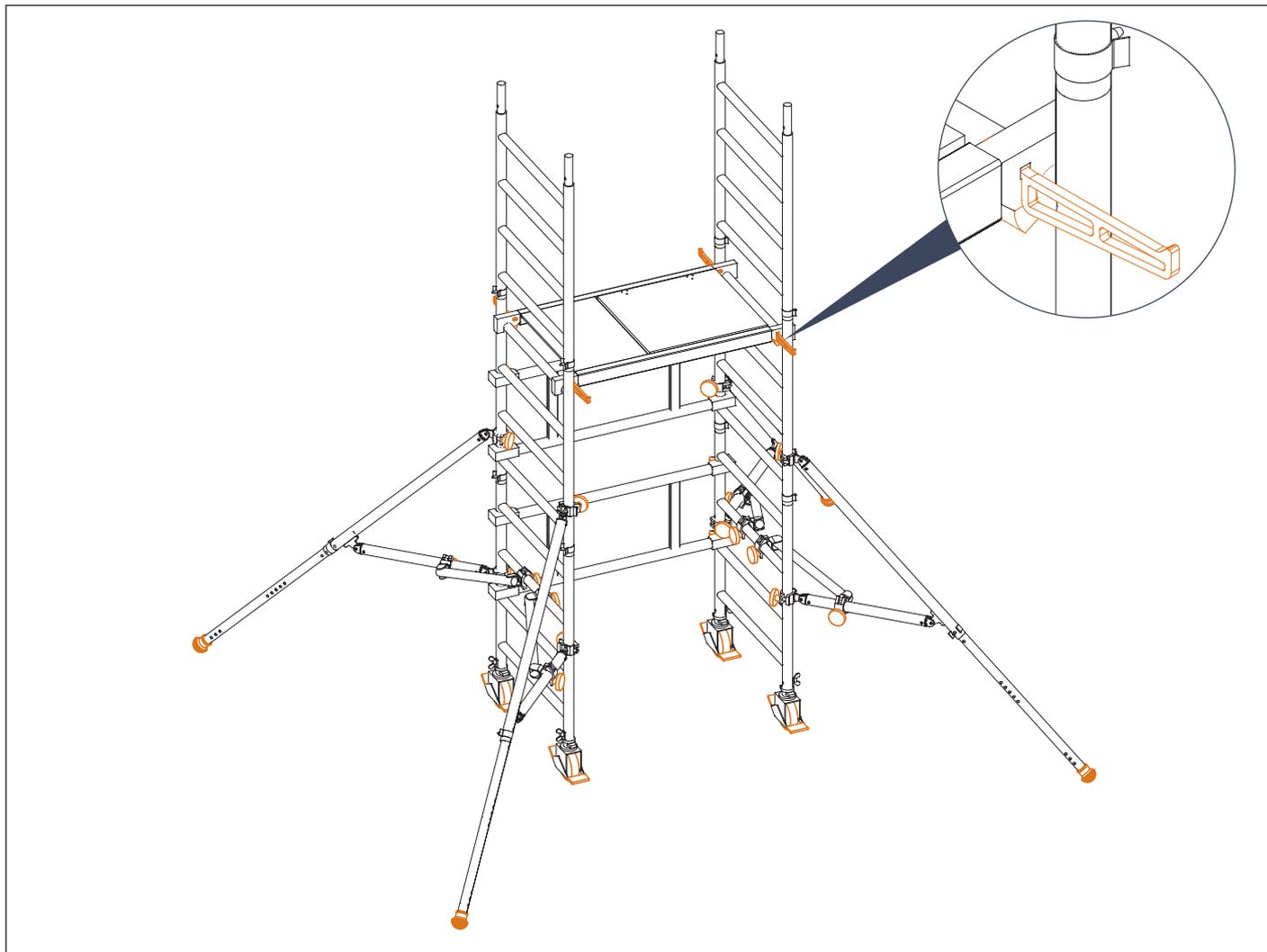
#### Assembly of model 1600104

1. Join the 1 m ladder frames **1** together, secure them with spring clips **8**, place them onto the ladder frame spigots provided for them in the basic assembly, and then secure the joints too with spring clips **8**.
2. Fit the access deck **3** on the 8th rung from the bottom and snap it properly into place using the snap-on claws.
3. Fit the double guardrail **2** as bracing between the 5th and 7th rungs from the bottom, and snap it properly into place using the snap-on claws



4. Fitting of the stabilisers **4** on all 4 uprights of the already assembled ladder frames (see p.30, section entitled Stabiliser attachment).
5. Safeguard the stabilisers **4** against unintended rotating by fitting the rotation lock **5** between the 3rd rung of the ladder frame **1** and the transverse tube of the stabiliser.

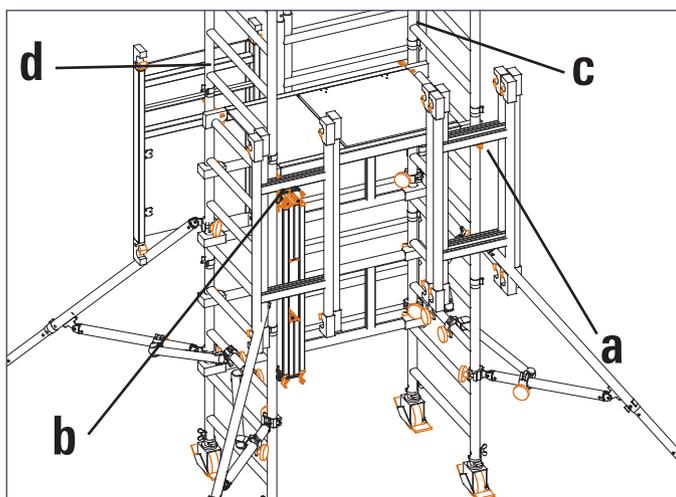
6. Insert assembly hooks **9** into the recesses provided for them in the snap-on claws of the already assembled access deck **3**.



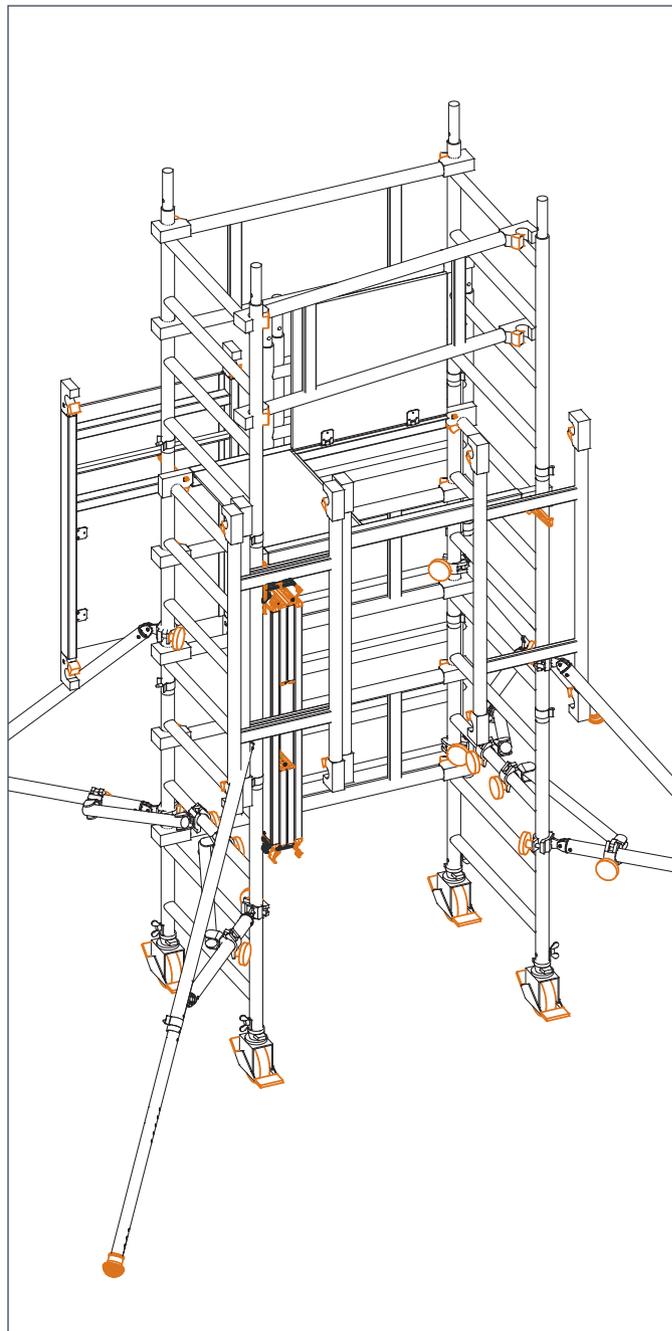
7. Position the components needed for further assembly on the assembly hooks **9**.

**Part arrangement for model 1600104**

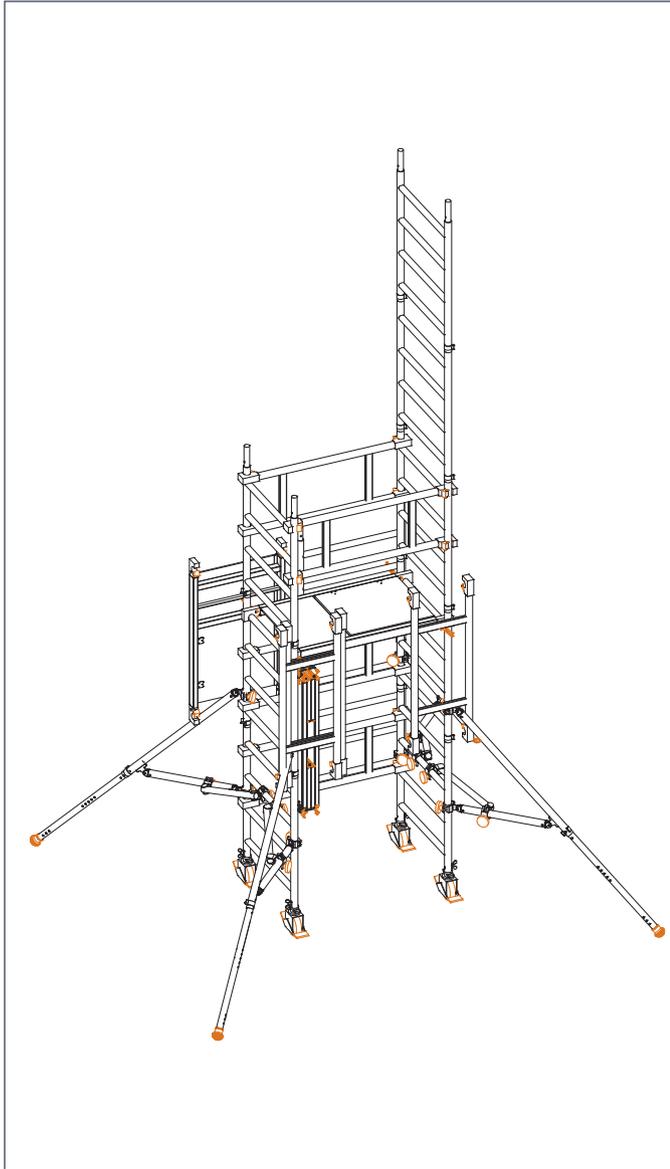
- a. ▶ 3x double guardrail **2**.
- b. ▶ 1x toe board unit **6**.  
2x double guardrail **2**.
- c. ▶ 2x previously assembled 1 m ladder frames **1**.
- d. ▶ 1x access deck **3**.



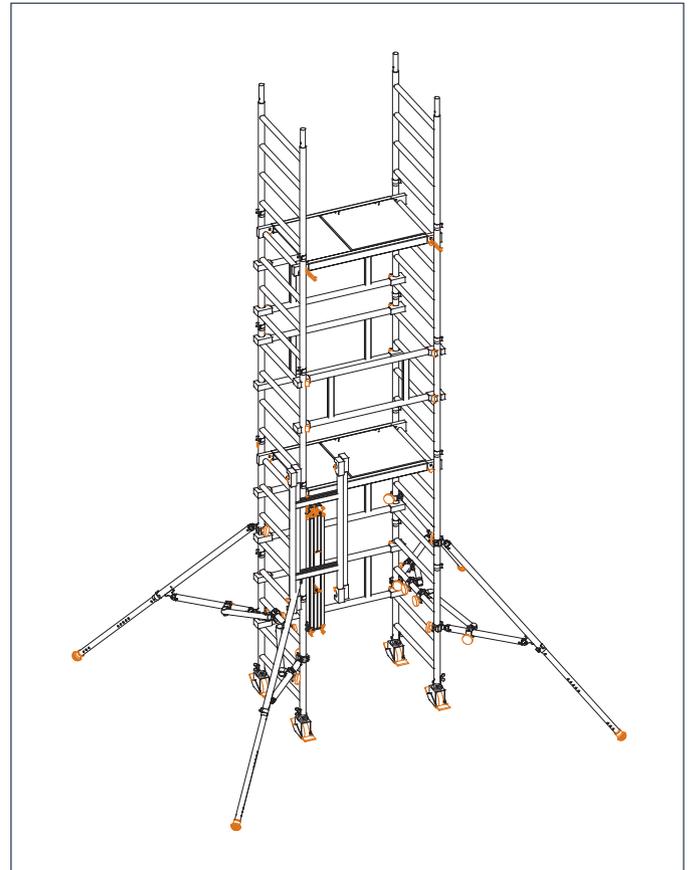
8. Climb up on the inside using the rungs of the ladder frame and through the trapdoor provided.
9. Further assemble the side protection for the next level while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**. Take the two double guardrails **2** from "a" listed under 7, fit them with the top chord over the last rung and use the snap-on claws to snap them into place properly. (see p.6, section entitled Measures for Fall Prevention).



10. Place the previously joined ladder frames from "c" as listed under 7 into the spigots provided for the purpose in the already assembled ladder frames, then secure the joints with spring clips 9.



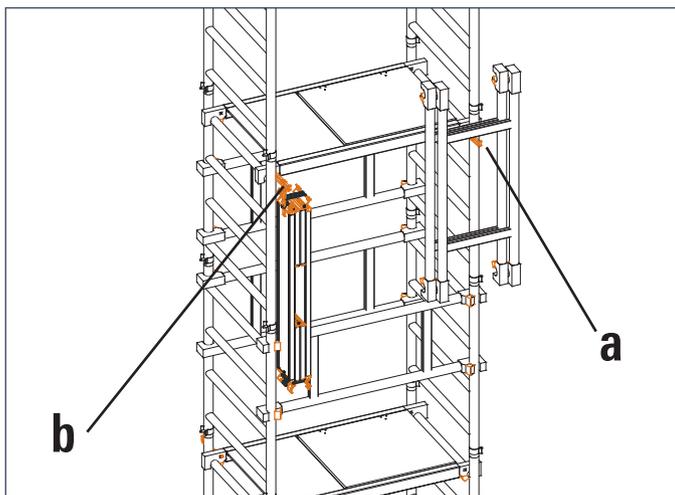
11. Fit the double guardrail 2 as bracing between the 5th and 7th rungs above the current platform height and snap it properly into place using the snap-on claws.
12. Fit the access deck 3 on the 8th rung above the current platform height and snap it properly into place using the snap-on claws.
13. Reposition both assembly hooks 9 on the hatch side of the access deck 3 from the present platform height to the front recesses provided in the snap-on claws of the access deck 3 assembled at the next level.



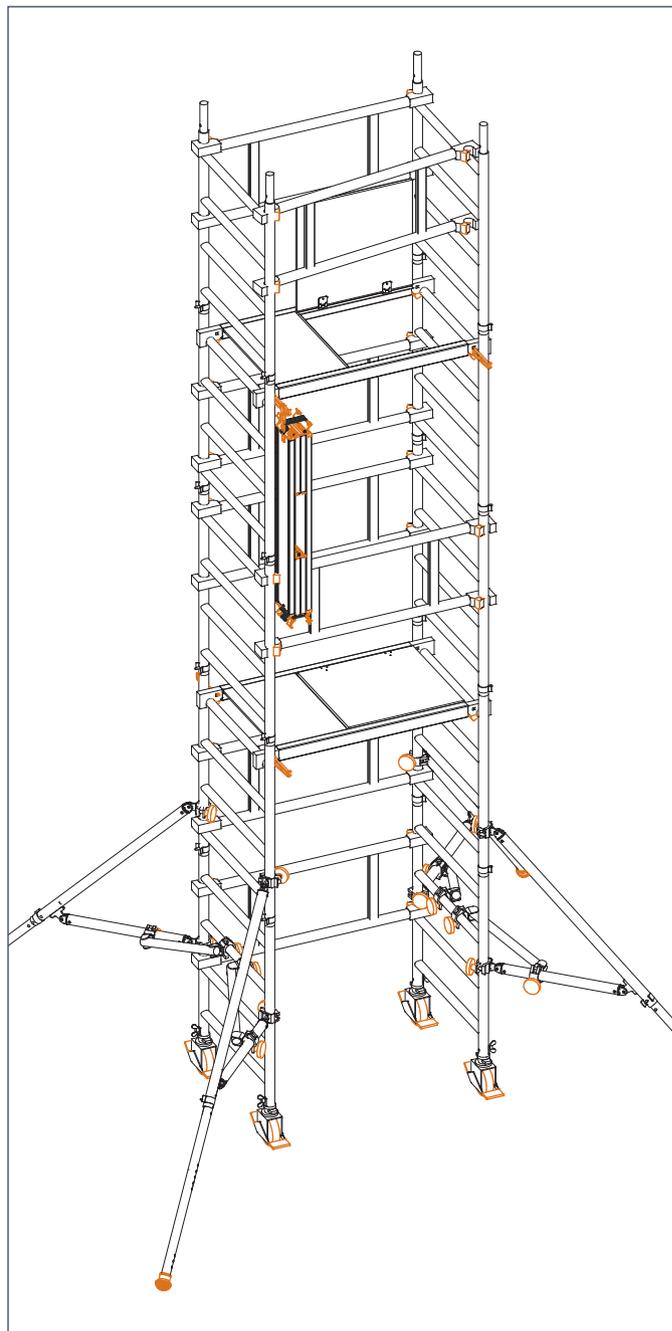
14. Diagonal movement of the components positioned in the assembly hooks for further assembly.

**Part arrangement for model 1600104**

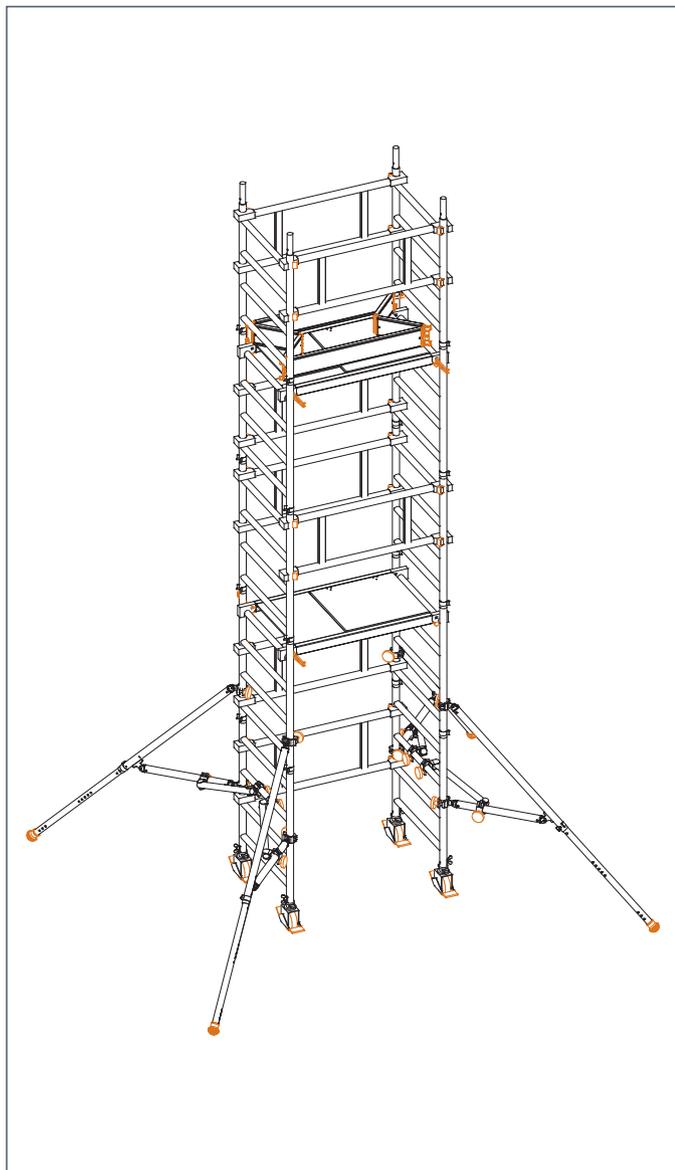
- a. ▶ 2x double guardrail **2**.
- b. ▶ 1x toe board unit **6**.

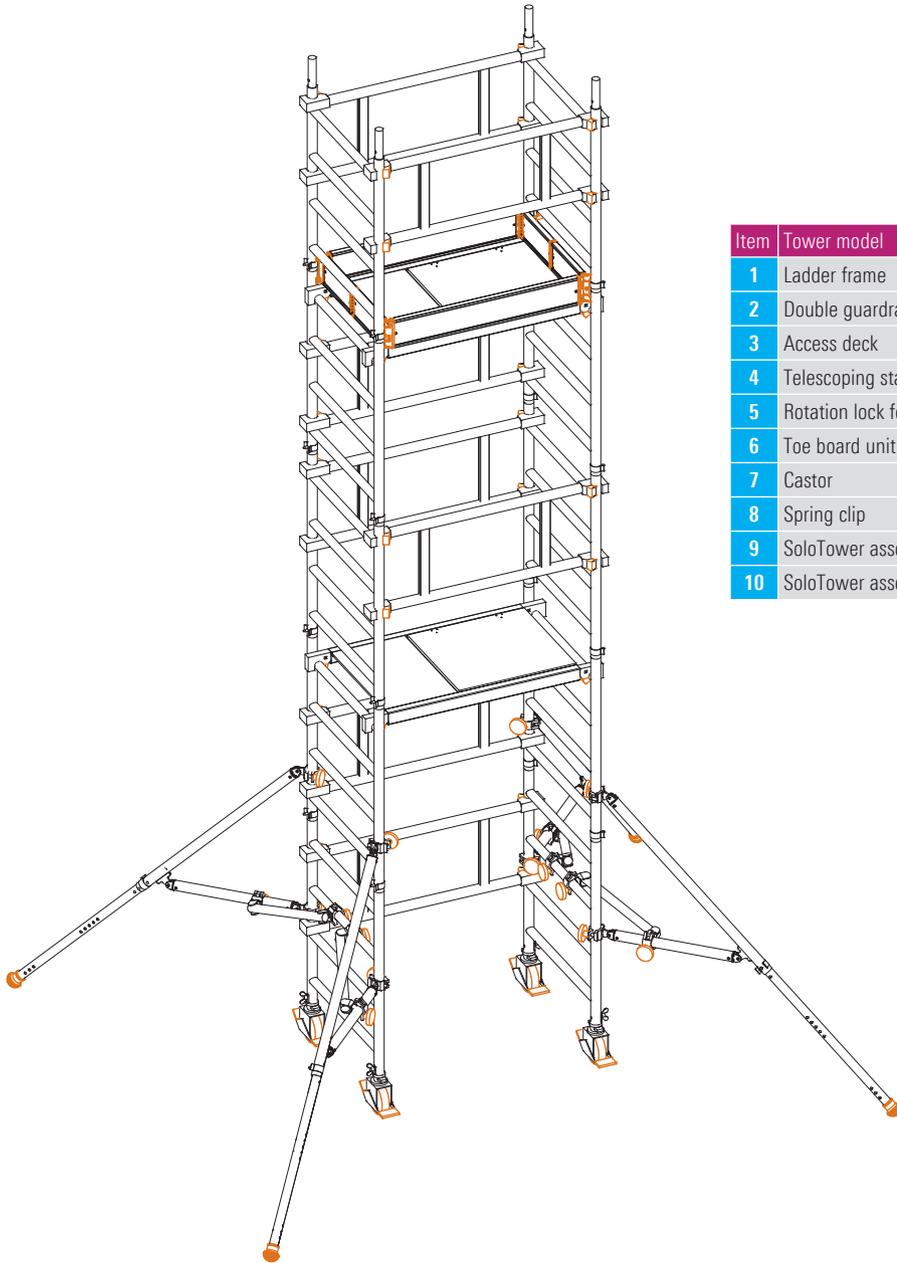


15. Climb up on the inside using the rungs of the ladder frame and through the trapdoor provided.
16. Further assemble the side protection for the next level while sitting in the trapdoor opening, protected from falls by the sides of the access deck **3**. Take the two double guardrails **2** from "a" listed under 14, fit them with the top chord over the last rung and use the snap-on claws to snap them into place properly. (see p.6, section entitled Measures for Fall Prevention).



17. Take the toe board unit **6** from "a" as listed under 14, fold it open on the work level now constructed and fit it as a frame around the access deck  
(see p.31, section 6, Fitting the toe board unit).





Item	Tower model	Reference No.	1600104
1	Ladder frame	1297.004	10
2	Double guardrail	1342.113	7
3	Access deck	1242.113	2
4	Telescoping stabiliser	1240.000	4
5	Rotation lock for stabiliser	1248.261	4
6	Toe board unit	1240.113	1
7	Castor	1300.150	4
8	Spring clip	1250.000	16
9	SoloTower assembly hooks (set of 4)	1300.002	1
10	SoloTower assembly bag	1300.003	1

### 5.3.2. Dismantling sequence for model 1600104

1. Insert 2 assembly hooks **9** into the front recesses provided for them in the snap-on claws of the access deck **3** fitted at the top level.
2. Fold the toe board unit **6** together and position it in the assembly hooks on the access deck **3**.
3. Dismantle the two double guardrails **2** while sitting in the access deck **3** protected from falls, then position the guardrails in the assembly hooks **9**.
4. Climb down on the inside using the rungs of the ladder frame **1** to the level underneath it.
5. Insert 2 assembly hooks **9** into the recesses provided for them in the snap-on claws of the lower access deck **3**.
6. Reposition the components into the assembly hooks **9** fitted at the platform level on the access deck.
7. Reposition the 2 assembly hooks **9** from the upper level to the access deck **3** of the present platform height.
8. Dismantle and position in the assembly hooks **9** the double guardrail **2** between the 5th and 7th rungs above the present platform height.
9. Dismantle and position the access deck **3** at the 8th rung above the present platform height.
10. Dismantle and position the previously assembled ladder frames **1** in the assembly hooks **9**.
11. Dismantle the two double guardrails **2** while sitting in the access deck **3** protected from falls, then position the guardrails in the assembly hooks **9**.
12. Climb down on the inside using the rungs of the ladder frame **1** to the ground.
13. Remove the positioned components from the assembly hooks.
14. Remove the assembly hooks **9**.
15. Remove the stabilisers **4**.
16. Remove the access deck **3** at the 8th rung.
17. Remove the ladder frames **1**.
18. Dismantle the basic assembly.

## 6. BALLASTING

For ballasting, use Layher ballast weights **11** of 10 kg each. Couplers with hand wheels permit simple, quick and secure fixing of the ballast required at the correct places. As a general principle, only ballast weights of solid materials may be used, not liquid or granular materials.

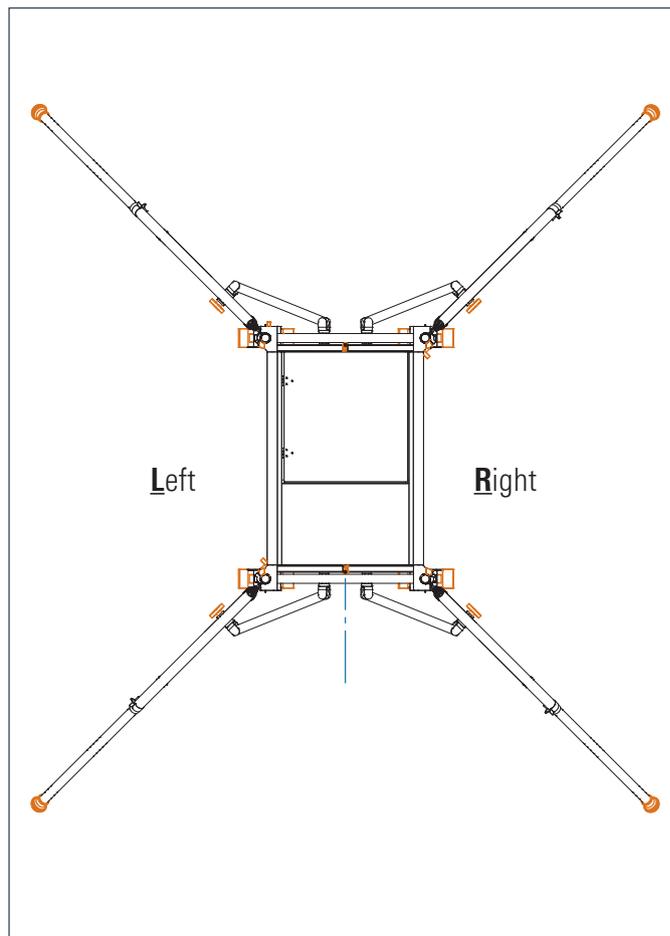
The ballast weights must be spread over the lowest connection points and evenly spaced on the side indicated in the model table (see p. 8, section entitled Tower models).

The indivisible remainder is then distributed over the same side, where possible, in the middle or diagonally inside the tower.

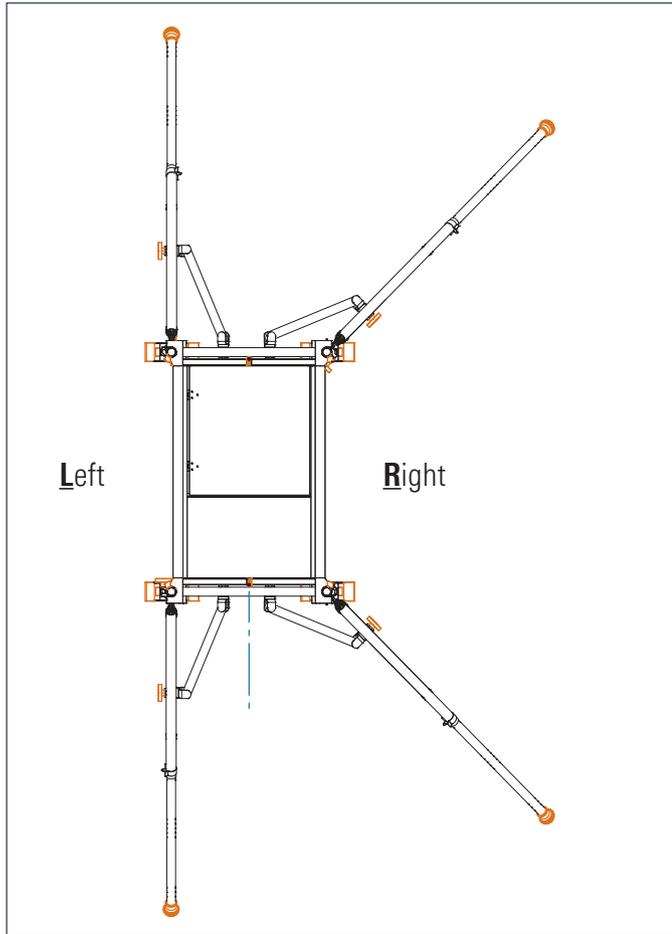
Depending on the assembly variant and the number of ballast weights needed, it may be necessary to provide additional fastening points, which can for example be done using scaffolding tubes and couplers.

### Attachment of ballast weights

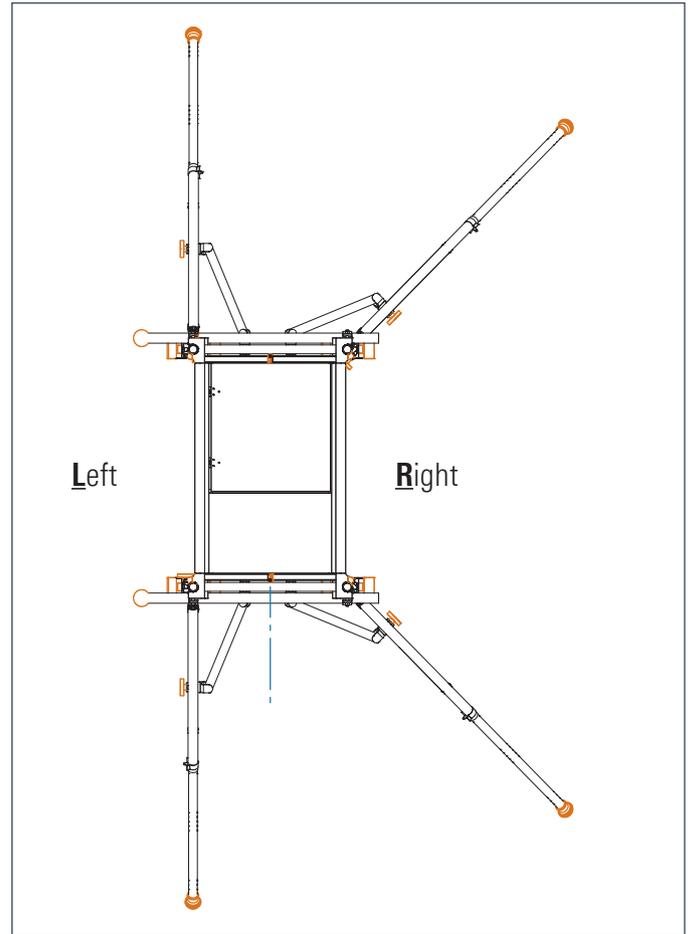
Assembly central:



Assembly off-centre:



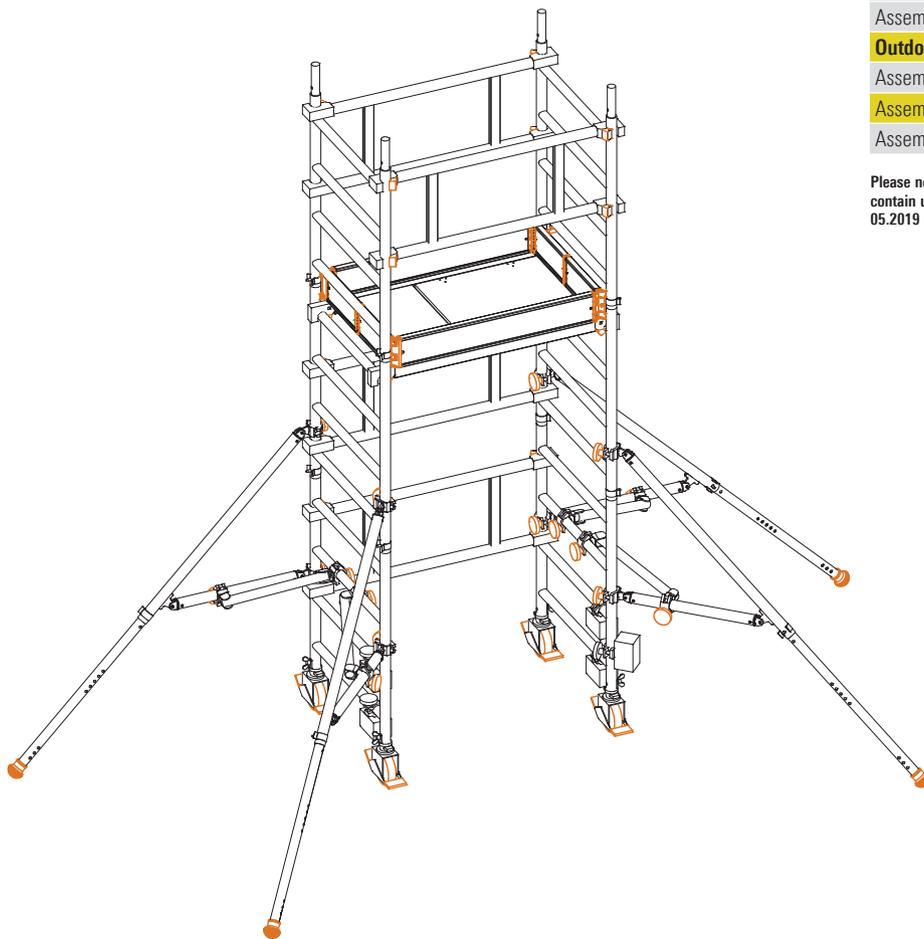
Assembly with wall bracing:



### Example for assembly of model 1600102

Assembly outdoors and in off-centre position

For ballast see page 8.

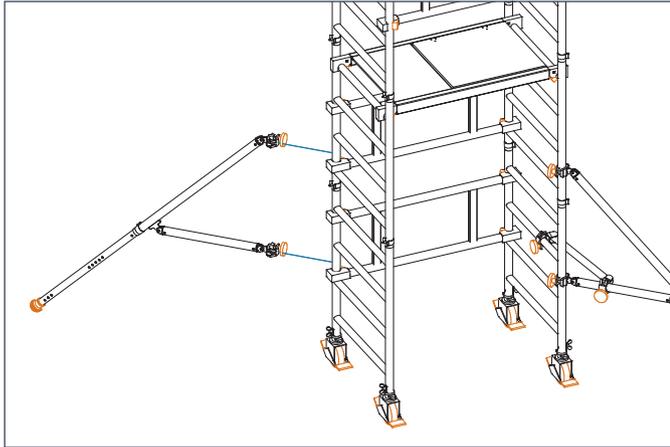


Tower model	1600102
Working height [m]	4.15
Tower height [m]	3.37
Platform height [m]	2.15
Weight [kg] (without ballast)	118.8

Ballasting	
<b>In closed areas</b>	
Assembly central	0
Assembly off-set	LO R5
Assembly off-set with wall bracing	0
<b>Outdoors</b>	
Assembly central	0
Assembly off-set	LO R5
Assembly off-set with wall bracing	0

Please note: The ballasting table and the figure shown on the left contain updated information. By releasing this manual, the issue from 05.2019 loses its validity.

## 7. STABILISER ATTACHMENT



Every model described in these instructions must have, on each upright of the ladder frames, a stabiliser including a rotation lock to ensure stability of the tower.

Base-widening devices such as stabilisers should always be attached before the tower is accessed to prevent it from toppling over.

For fitting, position the first half-coupler directly above the 5th rung of the ladder frame, but do not tighten it yet. Once the half-coupler is positioned, temporarily remove the spring clip, allowing the telescoping tube to be extended to the required length and then secured in a congruent hole by reinserting the spring clip. Move the positioned half-coupler along the upright tube to bring the stabiliser to the right position, so that the rubber foot at the end of the stabiliser is in firm contact with the ground.

The transverse tube of the stabiliser can now be fastened to the upright tube with the second half-coupler, while ensuring that the rubber foot always remains in contact with the ground to provide the required support.

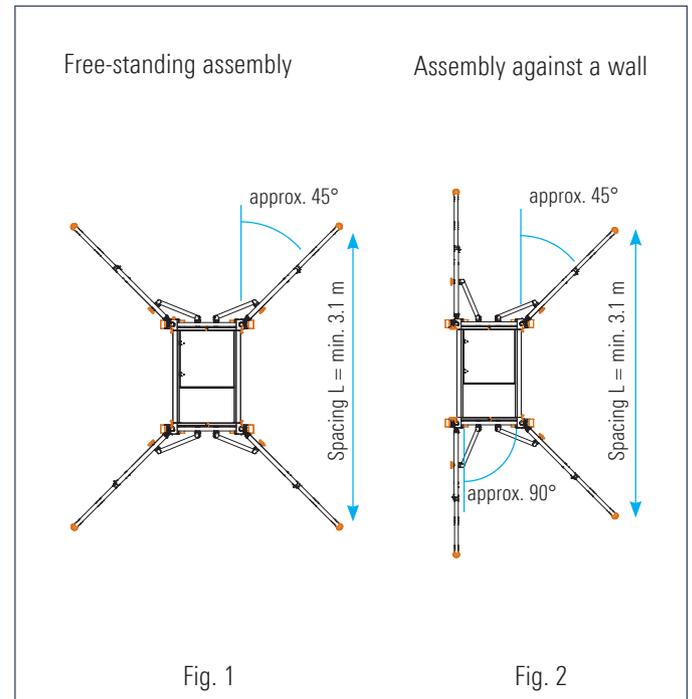
After aligning the stabilisers, tighten all the half-couplers using the hand wheel. Then safeguard the stabiliser against inadvertent rotation using the rotation lock provided.

The positions of the stabilisers must be set as follows:

**Free-standing assembly:** in each case about  $45^\circ$  to the tower's longitudinal side (Fig. 1).

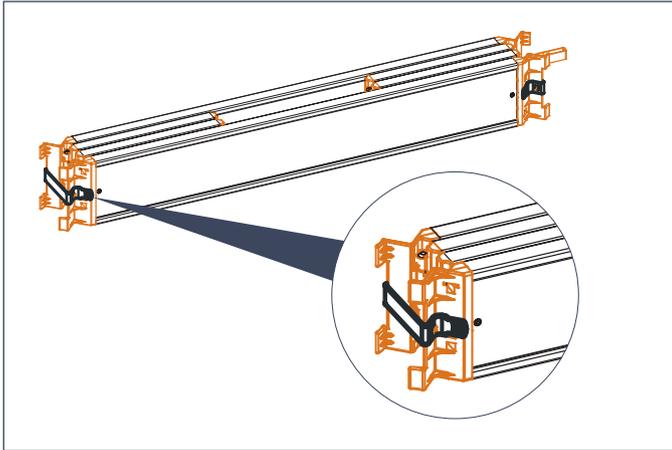
**Assembly against wall:** on the wall side about  $90^\circ$  to the tower end face Side facing away from wall about  $45^\circ$  to the tower's longitudinal side (Fig. 2).

The specified angles can be checked after attachment of the stabilisers on the basis of the length dimensions "Spacing L". When moving the tower, the stabiliser must not be lifted more than 2 cm off the ground.

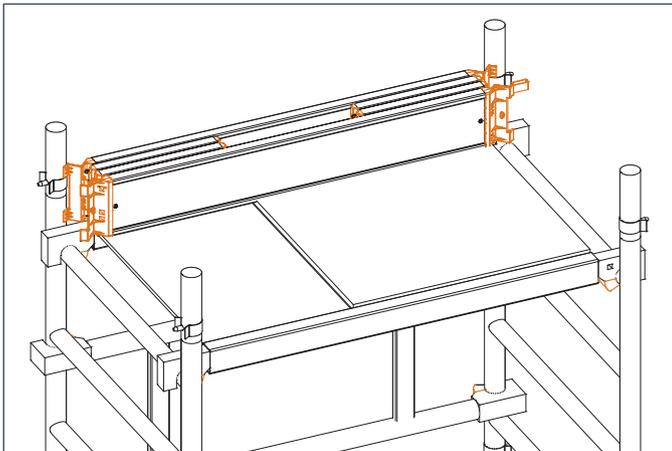


## 8. FITTING THE TOE BOARD UNIT

1. Undo the rubber strips on both sides

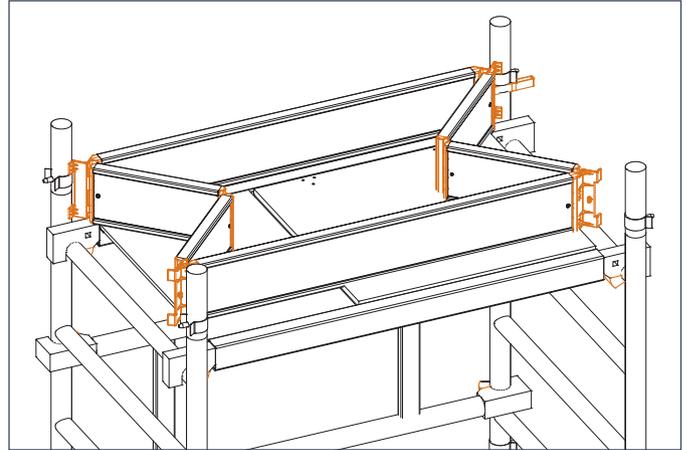


2. Place the toe board unit against the uprights of the ladder frame on one side



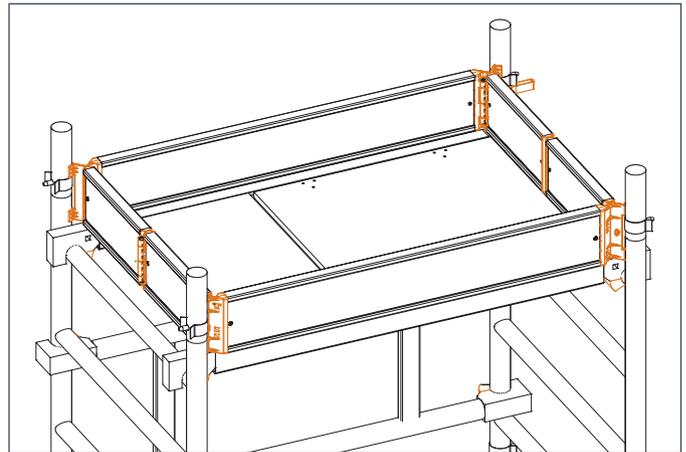
*Ladder frame and guardrail truncated for clearer view.*

3. Fold open the toe board unit



*Ladder frame and guardrail truncated for clearer view.*

4. Place the toe board unit against the opposite uprights



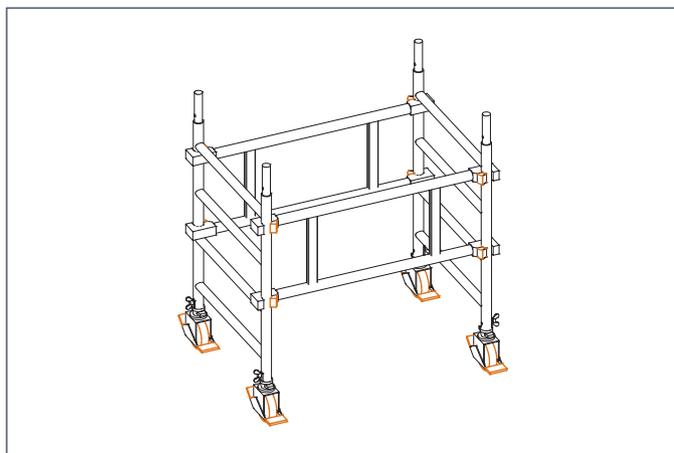
*Ladder frame and guardrail truncated for clearer view.*

## 9. COMPONENT TRANSPORT / TRANSPORT UNIT

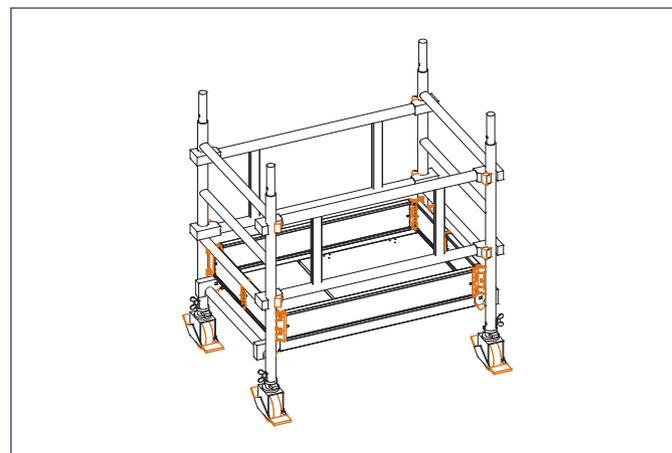
Thanks to the compact dimensions of the Layher SoloTower components, they can be transported to their place of use in a mobile unit made up of these components.

Assembling the transport unit

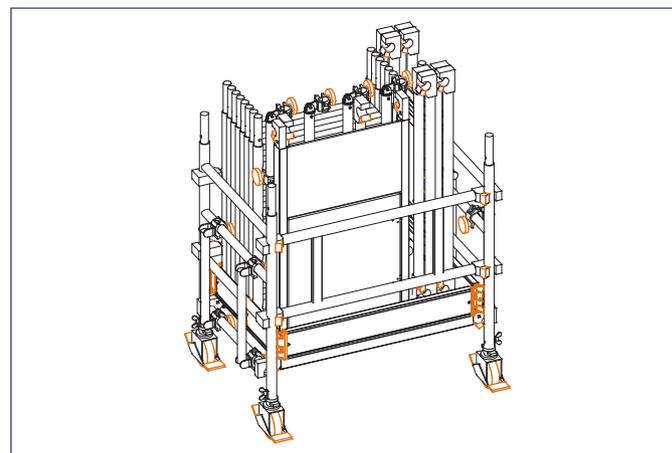
1. Connect 2 ladder frames with preassembled s to 2 double guardrails **2**.



2. Fit an access deck **3** to the bottom rungs of the two ladder frames to act as the floor of the transport unit.
3. Fit the toe board unit **6** as a frame on the access deck **3**.



4. Put all the remaining components upright into the transport unit and then secure them using tensioners against unintended movement.



5. When loading this transport unit into or onto vehicles, comply with the generally valid rules and regulations governing the securing of loads for the respective vehicle.

## 10. PARTS LIST

SoloTower

Item	Tower model	Reference No.	1600102	1600103	1600104
1	Ladder frame	1297.004	6	8	10
2	Double guardrail	1342.113	4	6	7
3	Access deck	1242.113	1	2	2
4	Telescoping stabiliser	1248.000	4	4	4
5	Rotation lock for stabiliser	1248.261	4	4	4
6	Toe board unit	1240.113	1	1	1
7	Castor	1300.150	4	4	4
8	Spring clip	1250.000	8	12	16
9	SoloTower assembly hooks (set of 4)	1300.002	1	1	1
10	SoloTower assembly bag	1300.003	1	1	1

## 11. COMPONENTS OF THE SYSTEM



1

**1297.004 Ladder frame,**  
aluminium  
Rungs with non-slip  
grooving.



2

**1342.113 Double guardrail,**  
aluminium.



3

**1242.113 Access deck,**  
aluminium frame with deck  
and hatch of phenolic-  
resin-coated plywood.



4

**1248.000 Telescoping  
stabiliser;**  
aluminium.  
Telescoping:  
min. 1.2 m.  
max. 2.0 m.





**Layher**® 

More Possibilities. The Scaffolding System.

**Wilhelm Layher GmbH & Co KG**  
Scaffolding Grandstands Ladders

Ochsenbacher Strasse 56  
74363 Gueglingen-Eibensbach  
Germany

P.O. Box  
74361 Gueglingen-Eibensbach  
Germany  
Phone +49 (0)7135 70-0  
Fax +49 (0)7135 70-265  
E-mail [info@layher.com](mailto:info@layher.com)  
[www.layher.com](http://www.layher.com)