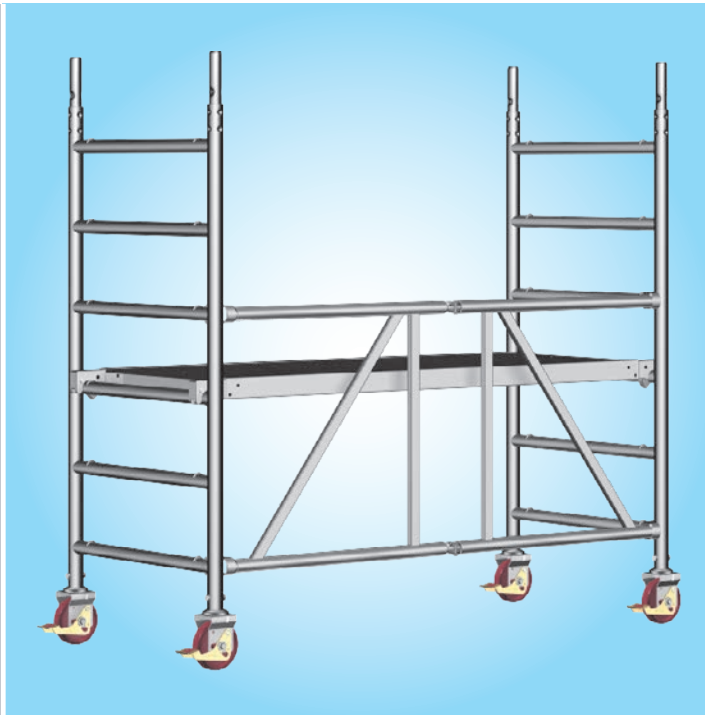


LAYHER ZIFA / ZIFA P2 INSTRUCTIONS FOR ASSEMBLY AND USE



Edition 07.2019

Mobile working platforms
as per DIN EN 1004:2005-03
Working platform 0.75 x 1.80 m

max. working height
in closed areas: 8.61 m
in the open: 8.61 m
perm. load capacity 2.0 kN/m²
on max. one working level
(Scaffolding group 3 as per
DIN EN 1004:2005)



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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 relating to the approvals for the products, to their use or to specific assembly regulations.

1. INTRODUCTION

General

These instructions for assembly and use relate to the assembly, modification and dismantling of the Zifa mobile working platform 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 Zifa tower may only be assembled, modified and dismantled by technically trained employees and under the supervision of a qualified expert.

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).

2. The maximum platform height for mobile working platforms is, in accordance with DIN EN 1004:2005-03

- inside buildings 12.00 m
- outside buildings 8.00 m

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 safety no longer being assured.

If the selected mobile working platform cannot be built in the assembly variants described, a separate strength and stability calculation must be conducted for the mobile working platform or for individual parts of it.

3. 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 models shown in these instructions for assembly and use may be built and also used. The mobile working platform 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).

4. Before installation, all parts must be inspected to ensure they are in flawless condition. Only undamaged original parts of the mobile working platforms from Layher may be used. Components such as snap-on claws and spigots must be cleaned of dirt after use. Components must be secured against slipping and impacts when transported by truck. Components must be handled in such a way that they are not damaged. For wall bracing and attachment of ballast weights see the section "Models" of these instructions for assembly and use.

5. To assemble the upper platforms, the individual parts must be passed up from one level to the next. Small quantities of tools and materials can be carried up by the personnel, or failing that hoisted to the working level using transport ropes.

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

7. The mobile working platform is levelled using the adjusting spindles.

8. Stability must assured during every phase of the assembly process.

9. On intermediate platforms used solely for ascent, toe boards can be dispensed with. For small towers where the deck height is more than 1.00 m, a device must be provided that permits attachment of side protection as per DIN EN 1004.

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

11. 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 fitted with 3-part side protection.

12. Personnel working on mobile working platforms must not push against the side protection.

13. Lifting gear must not be attached to or used on mobile working platforms.

14. Moving in of the adjustable mobile beams is only permitted in conformity with the instructions for assembly and use and with the ballasting specifications, see Section "Models".

15. Assembly and movement are only permitted on sufficiently firm ground, and only in a longitudinal or diagonal direction. All impacts must be avoided. When the base is extended on one side with wall bracing, movement is only permissible parallel to the wall. During movement, normal walking speed must not be exceeded.

16. No personnel and/or loose objects may be on the mobile working platform while it is being moved.

17. After movement, the wheels must be locked by pressing down the brake lever.

18. The mobile working platforms must not be subjected to any aggressive fluids or gases.

19. Mobile working platforms must not be connected to one another by bridging unless the structural strength of that connection has been specifically verified. The same applies for all other special assemblies, e.g. suspended scaffolding etc. The provision of bridging between a mobile working platform and a building is also not permissible.

20. If the mobile working platform is used outdoors or in open buildings, it must be moved – when wind strengths exceed 6 on the Beaufort scale or at the end of a shift – into a wind-protected area or safeguarded against toppling over by other suitable measures (wind strengths higher than 6 on the scale can be recognised by a noticeable difficulty in walking). If possible, mobile working platforms used outside buildings must be securely fastened to the building itself or to another structure. It is recommended that mobile working platforms be anchored if they are left unattended. The mobile working platform must be set to the perpendicular using the adjusting spindles or by inserting suitable materials underneath it. The maximum inclination is 1%.

21. Decks can also be fixed one rung higher or lower to obtain a different working height. Care must be taken that the specified side protection

heights of 1.00 m and 0.5 m are complied with. Deck diagonal braces must be used in this assembly form.

The manufacturer must be consulted with regard to stability verification.

22. The access hatches must be kept shut whenever they are not in use.

23. All couplers must be tightened with 50 Nm.

24. Climbing over from mobile working platforms is prohibited.

25. Jumping onto decked surfaces is prohibited.

26. It must be checked that all parts, auxiliary tools and safety equipment (ropes etc.) for assembling the mobile working platforms are available at the site.

27. 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).

28. If stipulated, mobile beams or stabilisers or outriggers and ballast must be fitted.

29. It is prohibited to increase the height of the deck using ladders, boxes or other objects.

30. Mobile working platforms are not designed to be lifted or suspended.

3. MEASURES FOR FALL PROTECTION

Fall protection during assembly, modification or dismantling of the mobile working platform

General

Suitable measures for fall protection must be taken during assembly, modification or dismantling of the mobile working platform. The safety structure P2 implements these protective measures in full. Depending on the result of the risk assessment performed, PPE, an advance guardrail System (AGS) or a combination of both can be used.

Attachment points for personal protective equipment (PPE) on the mobile working platform

The mobile working platform can also be assembled and dismantled optionally using personal protective equipment (PPE). The snap hook must be attached during ascent at least **1.0 m above the platform area** of the level which has not yet been secured (Fig. 1). The platform height must be at least 5.75 m. The result is **the minimum attachment height for PPE of 6.75 m** (Fig. 2).



Fig. 1: Attachment of PPE during ascent to the unsecured level

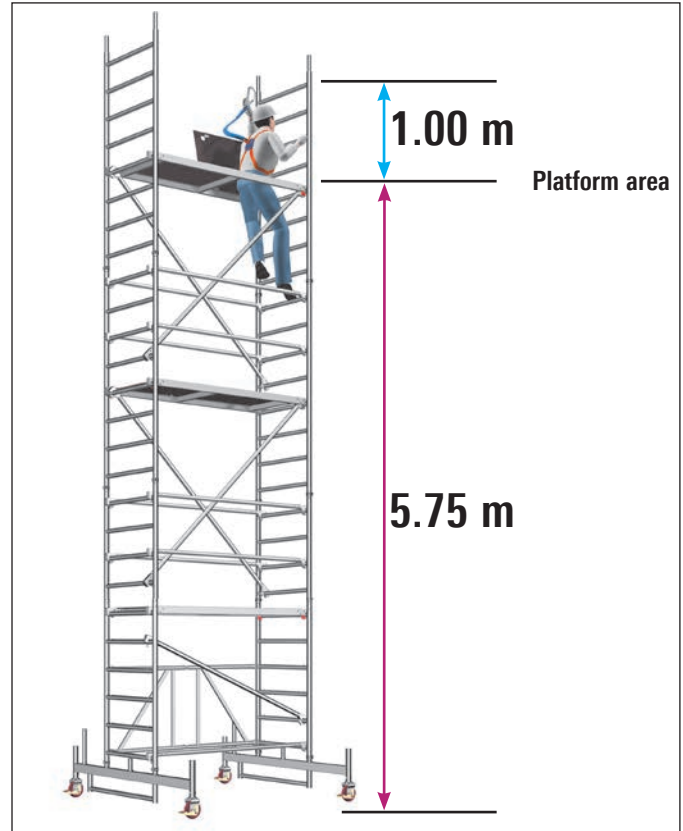


Fig. 2: Minimum heights for use of PPE

The tower level can then be made safe with the guardrails.

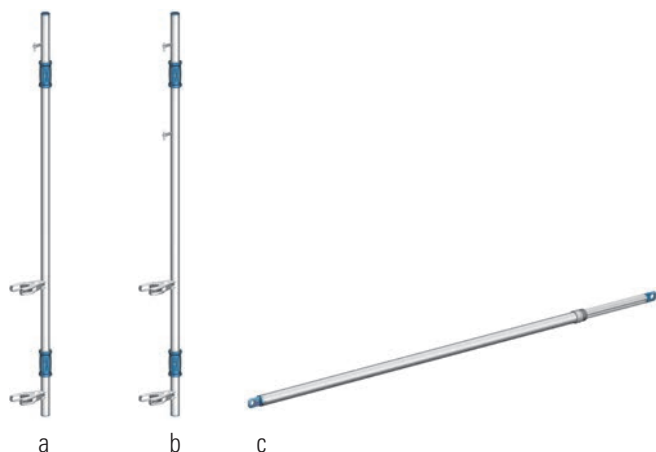


Fig. 3: Safe fitting of guardrail with PPE

Mode of operation of the Layher Advance Guardrail System (AGS)

The Layher AGS consists of two basic components – advance guardrail post and telescoping guardrail. The advance guardrail post a) or b) must be used depending on local regulations.

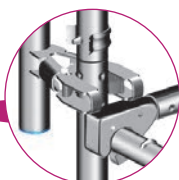
- a. Advance guardrail post with connection for telescoping guardrail at 1 m height
- a. Advance guardrail post with connection for telescoping guardrail at 0.5 and 1 m heights
- c. Telescoping guardrail made of aluminium



The advance guardrail post of the AGS can be fitted and dismantled by one erector from two positions:

1. Fitting/dismantling from above
2. Fitting/dismantling from below

It must be ensured that both claws of the AGS snap in completely and that the telescoping guardrail is securely attached using the tilting pins.



To prevent any unintended slip-page of the advance guardrail post, a guardrail must be fitted at the level of a snap-on claw.

Fig. 4: Connection of advance guardrail post to ladder frame

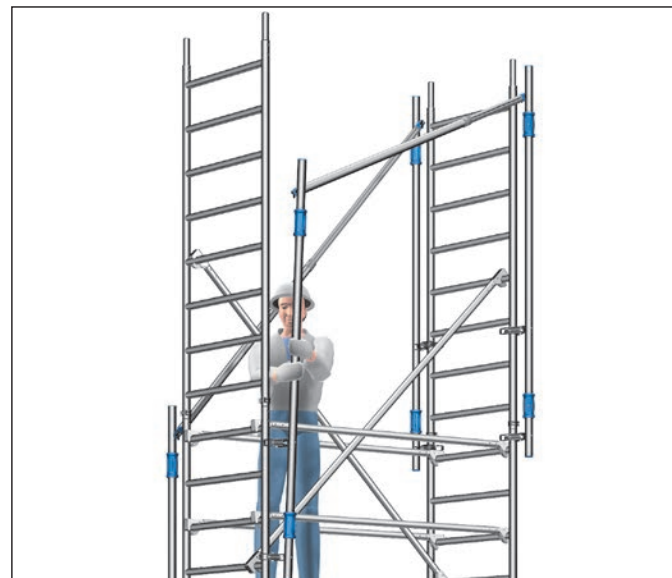


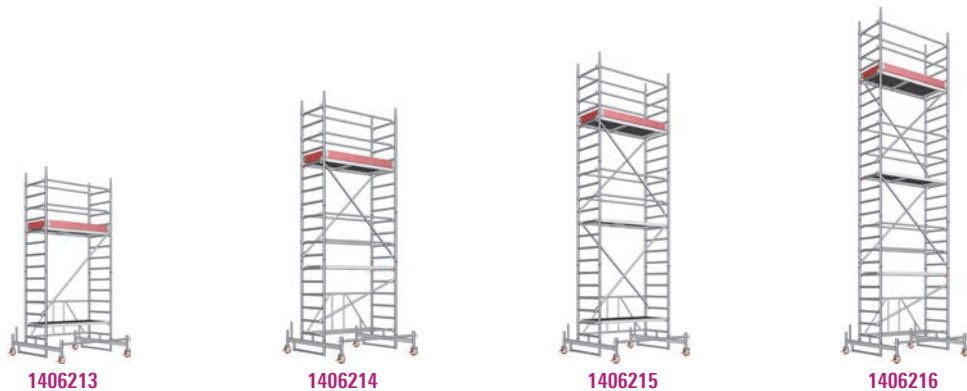
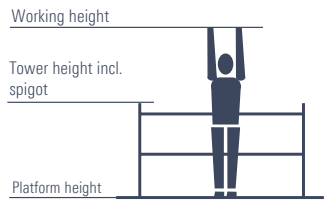
Fig. 5: Moving the AGS upwards



Fig. 6: Safe fitting of guardrails with AGS

4. MODELS

Models
Design: Safety structure P2
1406200 – 1406216



Model	1406200	1406210	1406213	1406214	1406215	1406216
Working height [m]	2.86	3.61	4.76	5.76	6.76	7.76
Tower height [m]	1.83	2.83	3.98	4.98	5.98	6.98
Platform height [m]	0.86	1.61	2.76	3.76	4.76	5.76
Weight [kg] (without ballast)	41.1	57.2	139.3	168.8	191.4	217.2
Ballasting						
In closed areas						
Assembly central	I4 r4*	I6 r6	0	I2 r2	I4 r4	I4 r4
Assembly off-centre	X	X	L0 R2	L0 R4	L0 R6	L0 R8
Assembly off-centre with wall bracing	I4 r0*	I6 r0	0	L2 R0	L6 R0	L8 R0
In the open						
Assembly central	I4 r4*	I6 r6	0	I2 r2	I4 r4	I4 r4
Assembly off-centre	X	X	L0 R2	L0 R6	L0 R8	X
Assembly off-centre with wall bracing	I4 r0*	I6 r0	0	L4 R0	L8 R0	L16 R0

* The specified ballast weights are only necessary when the ladder frame is used for external access (e.g. standard is swung out).

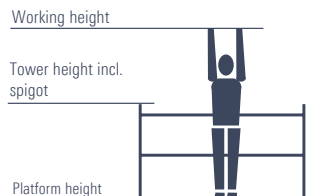
X = not permissible / not possible 0 = no ballast required Specified as number of ballast weights at 10 kg each.
For ballasting, use Layher ballast weights, Ref. No. 1249.000, of 10 kg each. The weights are fastened quickly and securely at the right place using the hand-wheel coupler.
No liquid or granular ballast substances may be used. The ballast weights must be distributed evenly over all ballast fixing points (see pages 22 – 23)

Example: I2, r2 → 2 ballast weights of 10 kg each must be fastened to the ladder frame on the left-hand side, and 2 ballast weights of 10 kg each on the right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the mobile beam on the left-hand side, and 16 ballast weights of 10 kg each on the right-hand side

r and R relate in the case of off-centre assembly always to the side facing away from the mobile working platform; l and L relate to the side facing the mobile working platform (see also Section 9, Ballasting, on pages 22 – 23)

Models

Design: Minimum requirements as per DIN EN 1004
620 – 625



620



621



622



623



624



625

Model	620	621	622	623	624	625
Working height [m]	2.86	3.61	4.11	4.26	5.76	7.26
Tower height [m]	1.83	2.83	3.33	3.48	4.98	6.48
Platform height [m]	0.86	1.61	2.11	2.26	3.76	5.26
Weight [kg] (without ballast)	41.1	57.2	85.3	114.6	141.8	201.1
Ballasting						
In closed areas						
Assembly central	I4 r4*	I6 r6	I8 r8	0	I2 r2	I4 r4
Assembly off-centre	X	X	X	0	L0 R4	L0 R8
Assembly off-centre with wall bracing	I4 r0*	I6 r0	I8 r0	0	L4 R0	L8 R0
In the open						
Assembly central	I4 r4*	I6 r6	I8 r8	0	I2 r2	I4 r4
Assembly off-centre	X	X	X	0	L0 R4	L0 R10
Assembly off-centre with wall bracing	I4 r0*	I6 r0	I8 r0	0	L4 R0	L8 R0

* The specified ballast weights are only necessary when the ladder frame is used for external access (e.g. standard is swung out).

X = not permissible / not possible 0 = no ballast required Specified as number of ballast weights at 10 kg each.
For ballasting, use Layher ballast weights, Ref. No. 1249.000, of 10 kg each. The weights are fastened quickly and securely at the right place using the hand-wheel coupler.

No liquid or granular ballast substances may be used. The ballast weights must be distributed evenly over all ballast fixing points (see pages 22 – 23)

Example: I2, r2 → 2 ballast weights of 10 kg each must be fastened to the ladder frame on the left-hand side, and 2 ballast weights of 10 kg each on the right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the mobile beam on the left-hand side, and 16 ballast weights of 10 kg each on the right-hand side

r and R relate in the case of off-centre assembly always to the side facing away from the mobile working platform; l and L relate to the side facing the mobile working platform (see also Section 9, Ballasting, on pages 22 – 23)

Models

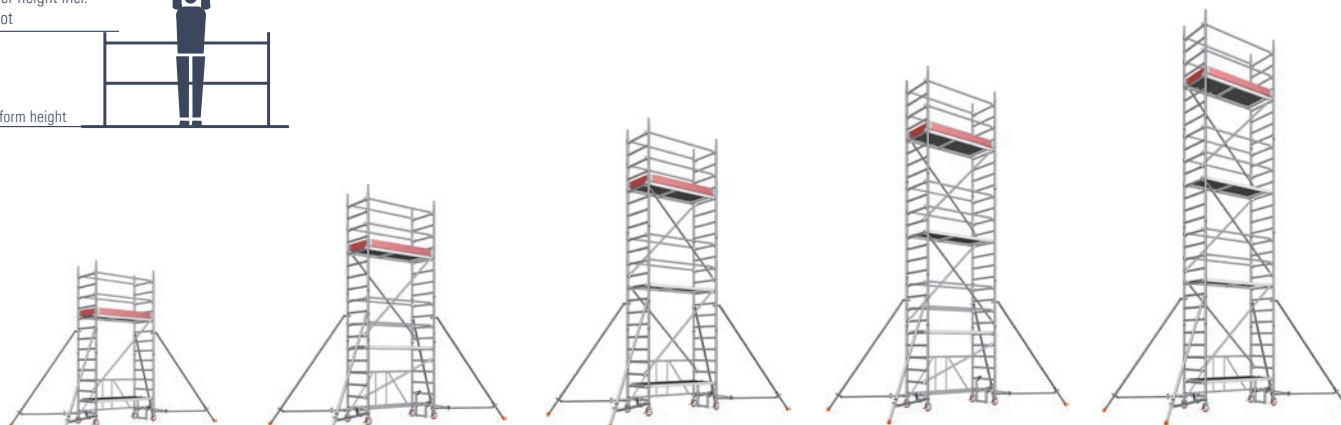
Design: Safety structure P2

1406233 – 1406237

Working height

Tower height incl.
spigot

Platform height



1406233

1406234

1406235

1406236

1406237

Model	1406233	1406234	1406235	1406236	1406237
Working height [m]	4.61	5.61	6.61	7.61	8.61
Tower height [m]	3.83	4.83	5.83	6.83	7.83
Platform height [m]	2.61	3.61	4.61	5.61	6.61
Weight [kg] (without ballast)	145.5	174.6	197.2	223.0	245.6
Ballasting					
In closed areas					
Assembly central	0	0	0	I2 r2	I2 r2
Assembly off-centre	L0 R4	L0 R6	L0 R8	L0 R10	L0 R14
Assembly off-centre with wall bracing	0	0	0	0	0
In the open					
Assembly central	0	0	I2 r2	I4 r4	I8 r8
Assembly off-centre	L0 R6	L0 R10	L0 R12	L0 R18	L0 R22
Assembly off-centre with wall bracing	0	0	0	0	0

X = not permissible / not possible 0 = no ballast required Specified as number of ballast weights at 10 kg each.

For ballasting, use Layher ballast weights, Ref. No. 1249.000, of 10 kg each. The weights are fastened quickly and securely at the right place using the hand-wheel coupler.

No liquid or granular ballast substances may be used. The ballast weights must be distributed evenly over all ballast fixing points (see pages 22 – 23)

Example: I2, r2 → 2 ballast weights of 10 kg each must be fastened to the ladder frame on the left-hand side, and 2 ballast weights of 10 kg each on the right-hand side
L6, R16 → 6 ballast weights of 10 kg each must be fastened to the mobile beam on the left-hand side, and 16 ballast weights of 10 kg each on the right-hand side

r and R relate in the case of off-centre assembly always to the side facing away from the mobile working platform; I and L relate to the side facing the mobile working platform (see also Section 9, Ballasting, on pages 22 – 23)

5. ASSEMBLY SEQUENCE **Safety structure** P2

Observe the general instructions for assembly and use on pages 4 – 5. Snap the snap-on claws of all parts into the ladder frames from above. Level the mobile working platform after basic assembly.

Lock the wheels during assembly, modification or dismantling and while there is anybody on the mobile working platform.

Hammer home the wedges in the system until the blow bounces off. Always tighten the screw couplers well (50 Nm).



At the top level, a double guardrail 19 or a tower beam 20 can be fitted instead of two single guardrails. Please remember in this case that two additional guardrails must be provided for assembly and dismantling in order to ensure collective side protection. They can be removed again after insertion of the double guardrail or tower beam.

Basic assembly Model 1406200

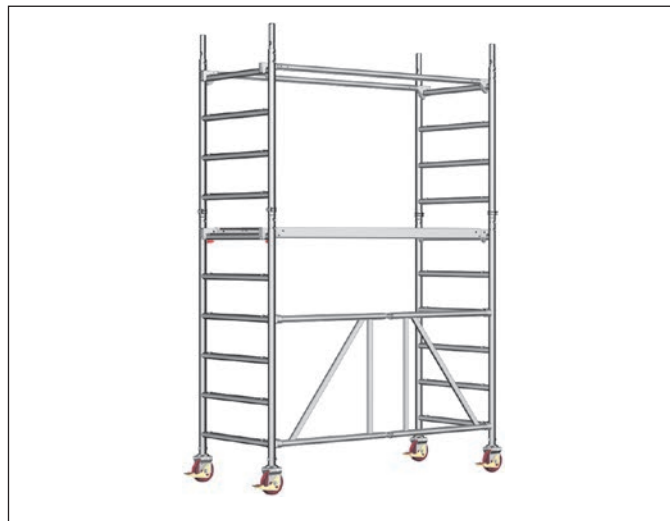


1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.

2. Snap the deck 25 into the cross-rungs of the basic tower. To do so, only the **1st, 2nd or 3rd rung from below** may be used.

3. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.

Basic assembly Model 1406210



1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.

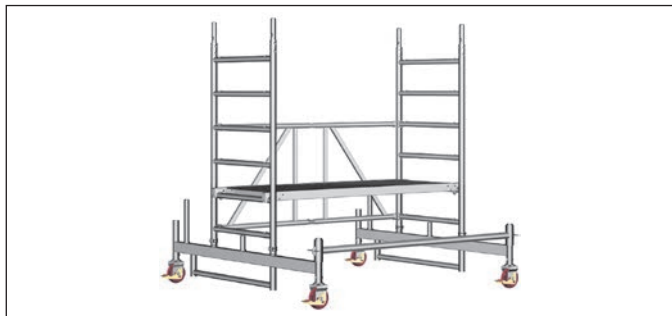
2. Snap the access deck 26 into the top cross-rung of the basic tower.

3. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.

4. Fit two 1.00 m ladder frames 12 onto the basic tower 11 and brace them with two guardrails 18. Secure the ladder frame joints with spring clips 17.

Basic assembly

Models 1406213 and 1406215



1. Insert the wheels **2** into the mobile beams **9** and use bolts and nuts to prevent them falling out.
2. Connect the mobile beams **9** to one another using a basic tube **14**.
3. Pull open the basic tower **11**, firmly snap in the joints in the folding part and fit it onto the mobile beams **9**.
4. Snap in the deck **25** at the second rungs of the basic tower ladder frames.

Basic assembly

Models 1406214 and 1406216



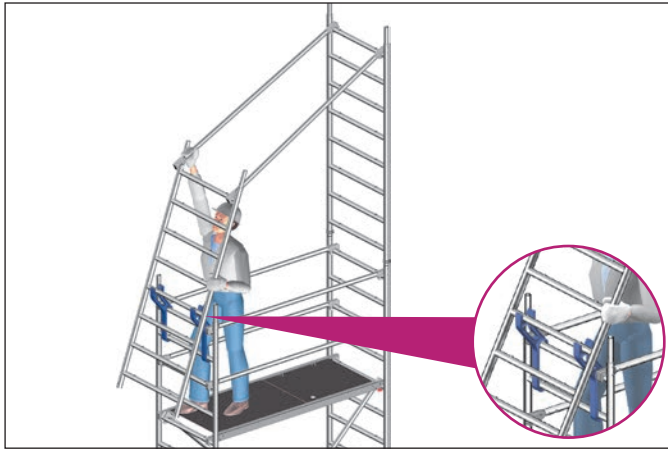
1. Insert the wheels **2** into the mobile beam **9** and use bolts and nuts to prevent them falling out.
2. Connect the mobile beams **9** to one another using a basic tube **14**.
3. Pull open the basic tower **11**, firmly snap in the joints in the folding part and fit it onto the mobile beams **9**.
4. Brace the basic tower by installing a guardrail **18** at the bottom rung.
5. Snap in the access deck **26** at the top rung of the basic tower ladder frames.
6. Attach the 1.95 m diagonal brace **22** to the second rung from the top and to the second rung from the bottom of the opposite ladder frame.
7. Fit two 1.00 m ladder frames **12** and connect them with two guardrails **18** each per side. Secure the ladder frame joints with spring clips **17**.

Assembly of intermediate platforms

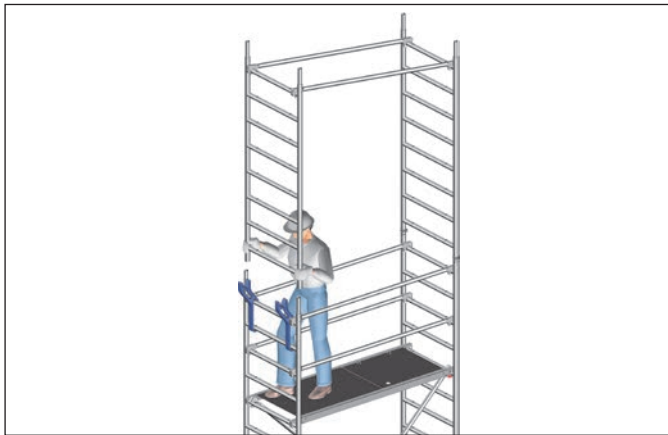
All models



Repeat the following assembly steps 1 to 5 several times depending on the assembly height.



1. Fit a first 2.00 m ladder frame 13 and secure it using spring clips 17.
2. Attach the Uni assembly hooks 31 and position the second ladder frame 13 for fitting the guardrails 18.



3. Swing the ladder frame 13 with guardrails 18 upwards, fit it in place and secure it with spring clips 17.



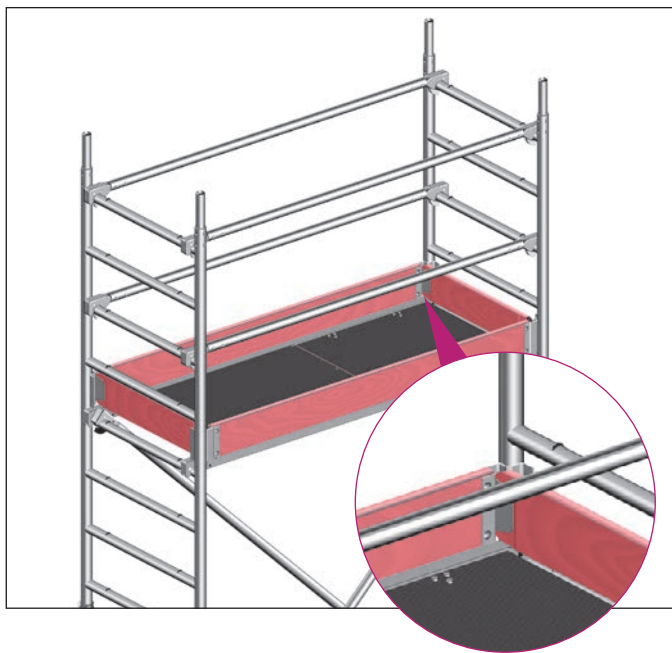
4. Insert diagonal braces 21 and access deck 26. The diagonal bracing arrangement is shown in "Models" (Section 4).



5. Move up to the next level and fit additional guardrails 18 on the second rung above the platform area.

Completing the working platform

All models



1. To complete the working platform, attach toe boards with claw 27 and end toe boards 28.



If an intermediate platform is also to be used for working, toe boards must be attached here too.

Operating the wheels



During assembly, dismantling and while working, lock the wheels by pressing down the brake lever labelled STOP. When the brake is locked, the lever labelled STOP must be in the down position.

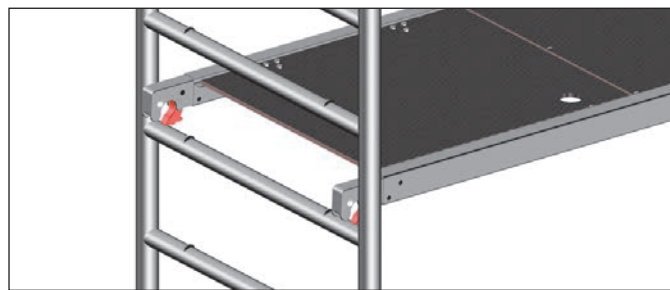
For movement, unlock the wheels by pulling the lever up.

6. DISMANTLING SEQUENCE Safety structure P2

Dismantling is performed in the reverse order to assembly (see page 11).

When dismantling, do not remove the bracing elements such as diagonal braces, guardrails or access decks until the ladder frames above them have been dismantled.

To lift out the individual parts, open the snap-on claws by pressing their locking clips.

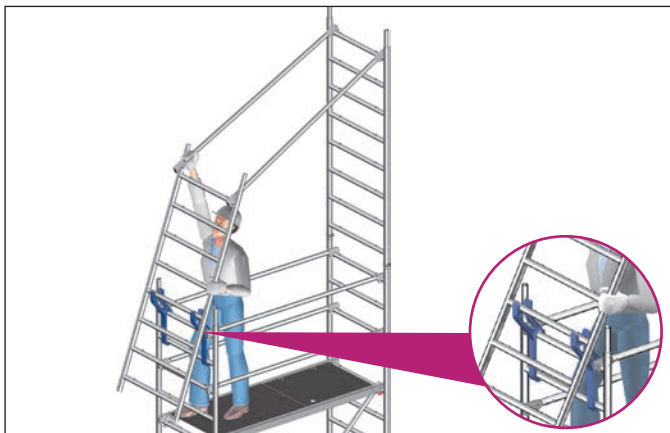
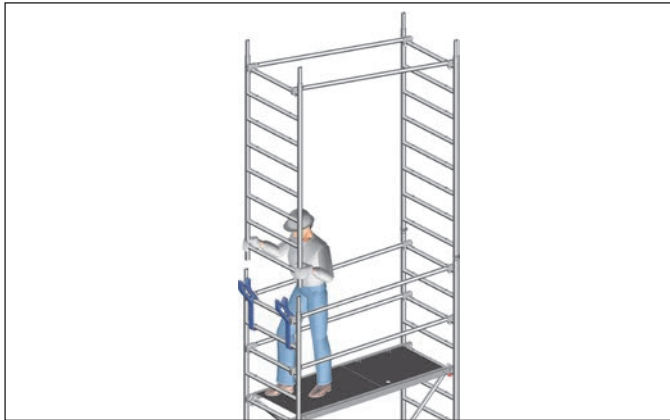


The red locking clips of the decks permit effortless installation and removal by a single person; first open them and place the deck with the opened clips on the rung, then open the opposite clips and lift out the deck.

Dismantling of working or intermediate platform in Zifa P2

When an intermediate platform or working platform is dismantled, dismantle the top guardrails from the level underneath. This is achieved with the aid of a guard rail installed at knee level.

It is placed onto the second rung from above and acts as a lever for opening the snap-on claw (see detail).



7. ASSEMBLY SEQUENCE as per minimum requirement, DIN EN 1004

Observe the general instructions for assembly and use on pages 4 – 5. Snap the snap-on claws of all parts into the ladder frames from above. Level the mobile working platform after basic assembly.

Lock the wheels during assembly, modification or dismantling and while there is anybody on the mobile working platform.



Hammer home the wedges in the system until the blow bounces off. Always tighten the screw couplers well (50 Nm).

At the top level, a double guardrail 19 or a tower beam 20 can be fitted instead of two single guardrails.

Assembly Model 620

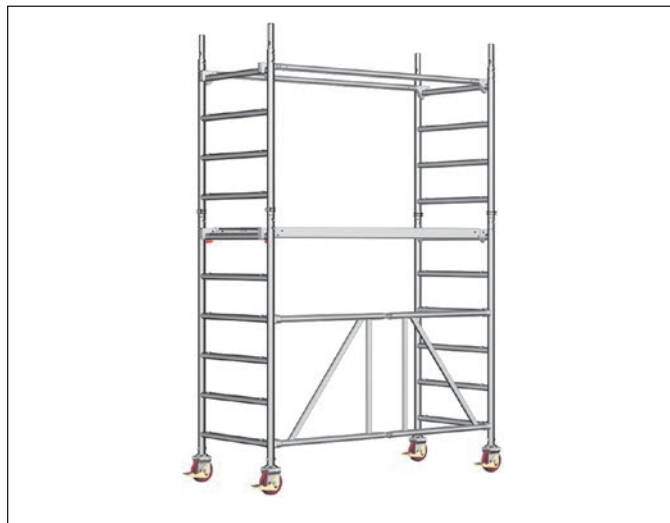


1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.

2. Snap the deck 25 or access deck 26 into the cross-rungs of the basic tower. To do so, only the **1st, 2nd or 3rd rung from below** may be used.

3. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.

Assembly Model 621



1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.

2. Snap the access deck 26 into the top cross-rung of the basic tower.

3. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.

4. Fit two 1.00 m ladder frames 12 onto the basic tower 11 and brace them with two guardrails. Secure the ladder frame joints with spring clips 17.

Assembly

Model 622



1. Pull open the basic tower 11, firmly snap in the joints in the folding part and brace it with a guardrail 18 at the bottom cross-rung.
2. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.



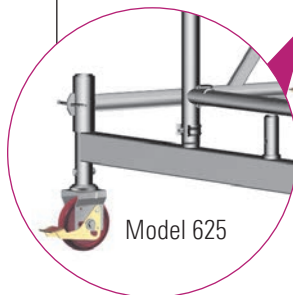
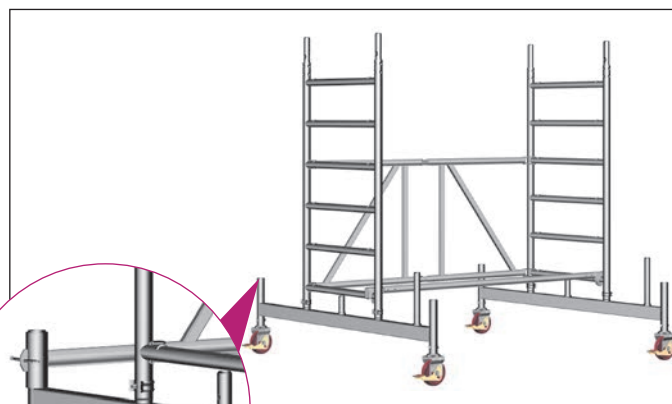
3. Open the second basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the first basic tower. Secure the joints with spring clips 17.

4. Snap in the access deck 26 at the second cross-rung from the bottom of the upper basic tower 11.

5. To complete the working platform, install 3 guardrails 18, toe boards 27 and end toe boards 28.

Basic assembly

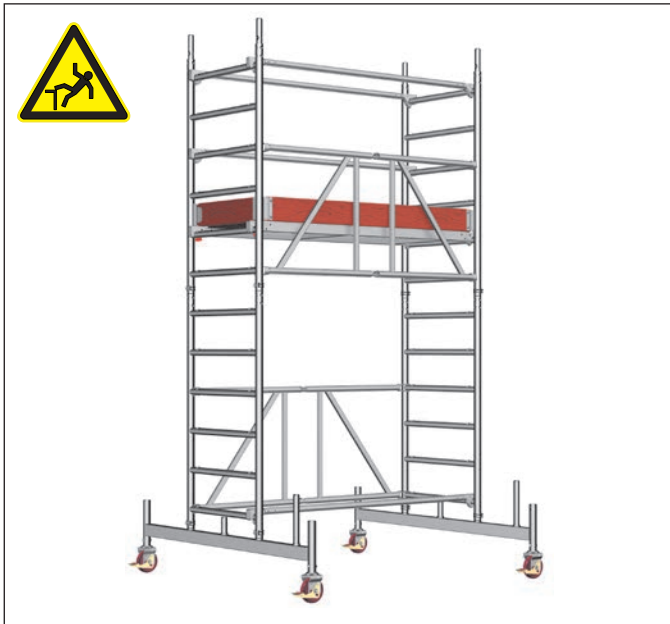
Models 623, 624 and 625



1. Insert the wheels 2 into the mobile beams 9 and use bolts and nuts to prevent them falling out. For basic assembly of model 625, the mobile beams must be additionally connected with a basic tube 14 and the ladder frames must be provided with a horizontal diagonal brace.

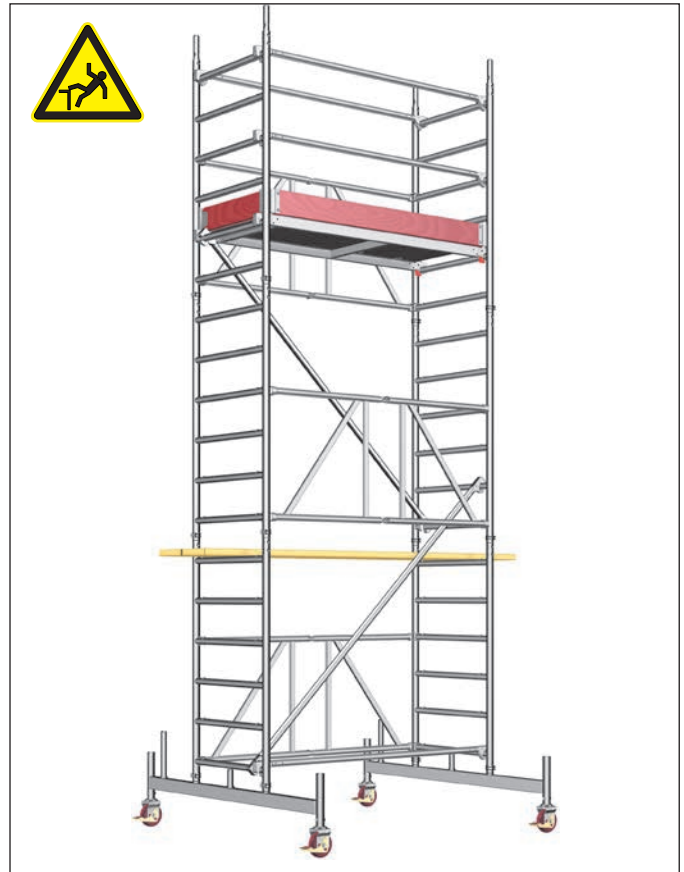
2. Pull open the basic tower 11, firmly snap in the joints in the folding part, brace it with a guardrail 18 at the bottom cross-rung and fit it onto the mobile beams 9.

Further assembly Model 623



1. Open the second basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the first basic tower. Secure the joints with spring clips 17.
2. Snap in the access deck 26 at the second cross-rung from below of the upper basic tower.
3. To complete the working platform, install 3 guardrails 18, toe boards 27 and end toe boards 28.

Further assembly Model 624



1. Open the second basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the first basic tower. Secure the joints with spring clips 17.

During assembly and dismantling, system decks or scaffolding planks as per DIN 4420-3 (minimum dimensions 28 x 4.5 x 220 cm) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks provide a safe footing for assembly and dismantling, and must be removed again after assembly. The respective platform area must be fully decked.

2. Fasten a diagonal brace 21 to the bottom rung of the first basic tower and to the second rung from below of the second basic tower.

3. Snap in the access deck 26 at the second cross-rung from below of the upper basic tower.

4. Open the third basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the second basic tower. Secure the joints with spring clips 17.

5. Fasten a diagonal brace 21 to the bottom rung of the second basic tower and to the second rung from below of the third basic tower. Install the diagonal brace opposite to the first diagonal brace.

6. To complete the working platform, install 3 guardrails 18, toe boards 27 and end toe boards 28.

Further assembly Model 625



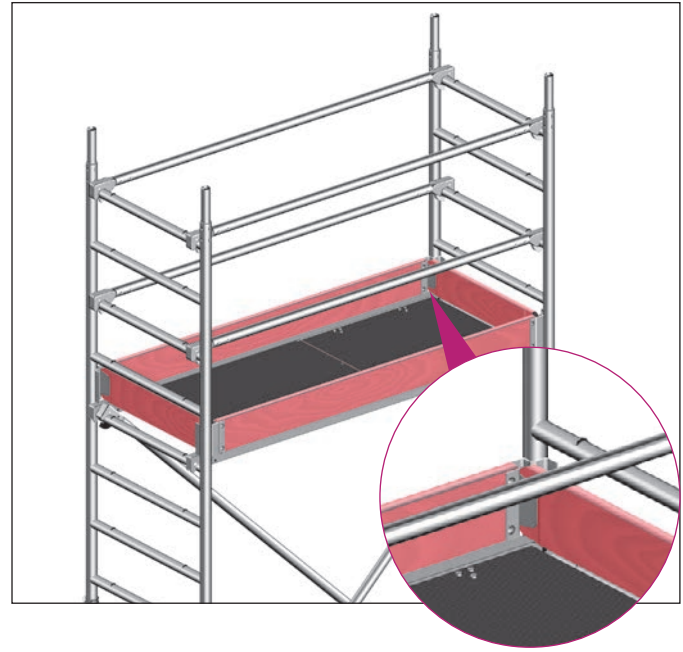
1. Open the second basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the first basic tower. Secure the joints with spring clips 17.

During assembly and dismantling, system decks or scaffolding planks as per DIN 4420-3 (minimum dimensions 28 x 4.5 x 220 cm) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks provide a safe footing for assembly and dismantling, and must be removed again after assembly. The respective platform area must be fully decked.

2. Fasten a diagonal brace 21 to the bottom rung of the first basic tower and to the second rung from below of the second basic tower.
3. Snap in the access deck 26 at the second cross-rung from the bottom of the second basic tower, then ascend and provide the regulation side protection by installing 3 guardrails 18.
4. Open the third basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the second basic tower. Secure the joints with spring clips 17.
5. Fasten the diagonal brace 17 to the third rung from below of the second basic tower and to the third rung from the top of the third basic tower, opposite to the first diagonal brace.
6. Install two guard rails 18 on the top rung of the second basic tower as bracing.
7. Open the fourth basic tower 11 and firmly snap in the joint in the folding part. Attach it at an angle of 180° to the third basic tower. Secure the joints with spring clips 17.
8. Fasten a diagonal brace 21 to the bottom rung of the third basic tower and to the second rung from below of the fourth basic tower, opposite to the second diagonal brace.
9. Snap in the access deck 26 at the second cross-rung from below of the upper basic tower.
10. To complete the working platform, install 3 guardrails 18, toe boards 27 and end toe boards 28.

Completing the working platform

All models

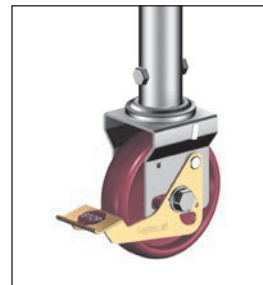


1. To complete the working platform, attach toe boards with claw 27 and end toe boards 28.



If an intermediate platform is also to be used for working, toe boards must be attached here too.

Operating the wheels



During assembly, dismantling and while working, lock the wheels by pressing down the brake lever labelled STOP. When the brake is locked, the lever labelled STOP must be in the down position.

For movement, unlock the wheels by pulling the lever up.

8. DISMANTLING SEQUENCE as per minimum requirement, DIN EN 1004

Dismantling is performed in the reverse order to assembly (see page 16).

When dismantling, do not remove the bracing elements such as diagonal braces, guardrails or access decks until the basic towers above them have been dismantled.

To lift out the individual parts, open the snap-on claws by pressing their locking clips.

During assembly and dismantling, system decks or scaffolding planks as per DIN 4420-3 (minimum dimensions 28 x 4.5 x 220 cm) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks provide a safe footing for assembly and dismantling, and must be removed again after assembly. The respective platform area must be fully decked.



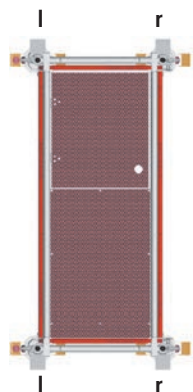
The red locking clips of the decks permit effortless installation and removal by a single person; first open them and place the deck with the opened clips on the rung, then open the opposite clips and lift out the deck.

9. BALLASTING

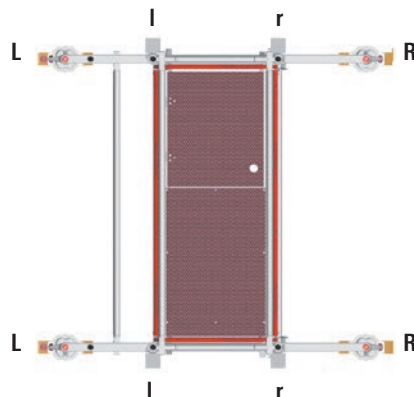
Attachment of ballast weights

Assembly central:

directly on base plates

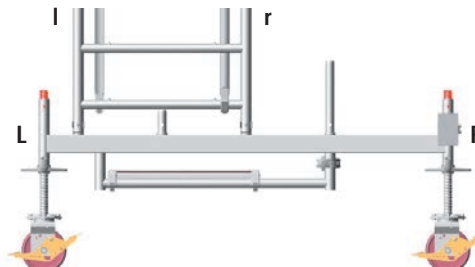
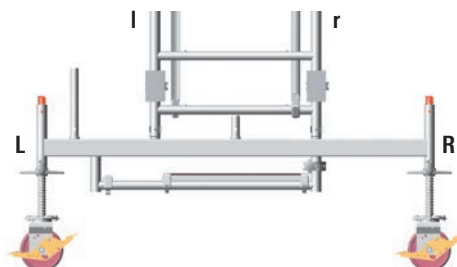
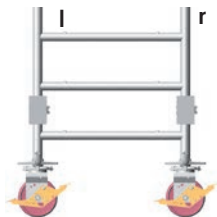
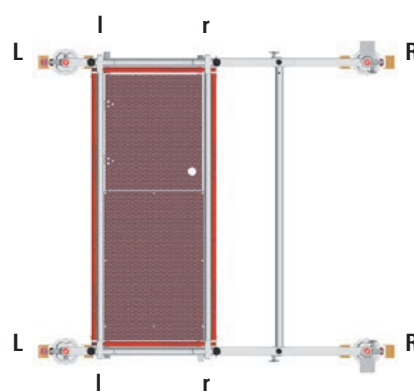


on mobile beams (with and without access ledgers)



Assembly off-centre:

on mobile beams (with and without access ledgers)



Note:

For the off-set assembly variant with wall bracing, the bracing must always be attached on the side "L" .

Example for assembly of model 1406215

Assembly outdoors in central position

Ballast: see pages 8 – 10



Model	1406215
Working height [m]	6.76
Tower height [m]	5.98
Platform height [m]	4.76
Weight [kg] (without ballast)	191.4
Ballasting	
In closed areas	
Assembly central	I4 r4
Assembly off-centre	L0 R6
Assembly off-centre with wall bracing	L6 R0
In the open	
Assembly central	I4 r4
Assembly off-centre	L0 R8
Assembly off-centre with wall bracing	L8 R0

10. STABILISER ATTACHMENT

Before assembly, please note page 11 "Basic assembly for models without mobile beams". With this assembly form, the fixed and adjustable mobile beams are dispensed with. They are replaced by extendable stabilisers 27.



Attach a stabiliser 29 to each stile of the ladder frame 13. To do so, fasten the half-coupler directly underneath the rung of the ladder frame 13. Before tightening the star handles (hand wheels), fix the stabilisers in the right position, against the wall or free-standing, and then tighten them using the star handles. Ensure that the foot is firmly on the ground by sliding the half-coupler on the stabiliser. Fasten the lower half-coupler above the bottom rung of the ladder frame 13 and tighten it with the star handle.

The positions of the stabilisers must be set as follows:

Free-standing assembly: in each case about 60° to the longitudinal side (Fig. 7).

Assembly against wall: on the wall side about 90° to the end face Side facing away from wall about 60° to the longitudinal side (Fig. 8).

The specified angles can be checked after attachment of the stabilisers on the basis of the length dimensions "Spacing L".

To ensure that the position cannot change, attach the tower rotation

lock 30 to the stabiliser 29 and to the rung of the ladder frame 13.

Adjust the tower rotation lock by moving the half-coupler on the stabiliser 29 such that the half-coupler is fastened underneath the first rung of the ladder frame. It must be ensured that the spring clips safely engage in the telescoping parts of the extendable stabiliser. When moving the mobile working platform, the stabiliser must not be lifted more than 2 cm off the ground.

For work performed on a load-bearing wall, ballasting can be provided in accordance with the ballasting table (see pages 8 – 10).

Free-standing assembly

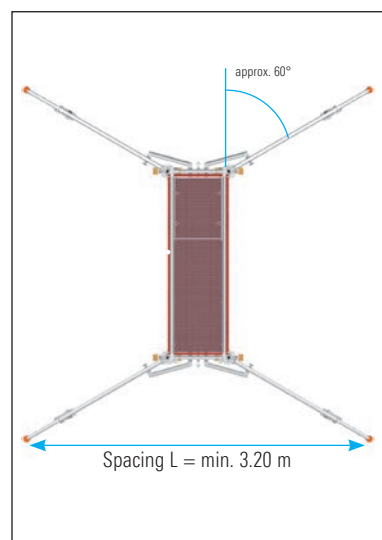


Fig. 7

Assembly against a wall

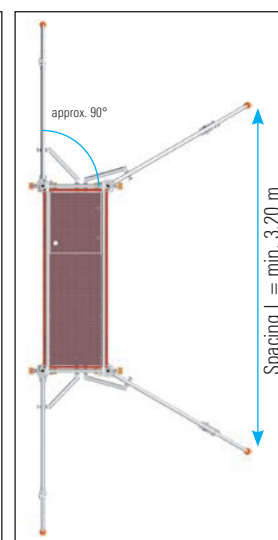


Fig. 8

11. WALL BRACING (under load) ANCHORING (under load and tension)



For work performed on a load-bearing wall, ballasting can be reduced in accordance with the table **Ballasting** (see pages 8 – 10). In this case, wall bracing or anchoring must be installed on both ladder frames of the mobile working platform.

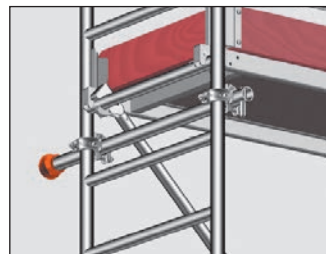
Use the Uni distance tube 24 and fix it to the ladder frame 13 using two couplers 32 in each case.

The rubber mount is positioned on the wall (see detail A) to provide bracing. The mobile beams must be installed here so that they project from the side facing away from the wall.

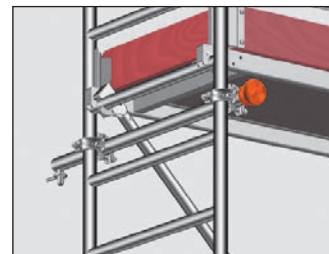
The Uni distance tube, rotated by 180°, is used for anchoring and is fitted in an eyebolt (see detail B) which was attached to the wall previously. The alignment of the mobile beam can be ignored in this case.

Note: In the case of anchoring, ballasting can be dispensed with.

The wall bracing/anchoring must be attached at the height of the top working platform or at most 1 m below that.



Detail A



Detail B

12. PARTS LIST

Models

1406200 – 1406216

Zifa P2

Model	Reference No.	1406200	1406210	1406213	1406214	1406215	1406216
Guardrail 1.80 m	1205.180	0	2	4	9	8	13
Diagonal brace 2.50 m	1208.180	0	0	1	2	4	4
Diagonal brace 1.95 m	1208.195	0	0	0	1	0	1
Basic tube 1.80 m	1211.180	0	0	1	1	1	1
End toe board 0.75 m	1238.075	0	0	2	2	2	2
Toe board 1.8 m, with claw	1239.180	0	0	2	2	2	2
Deck 1.8 m	1241.180	1	0	1	0	1	0
Access deck 1.8 m	1242.180	0	1	1	2	2	3
Spring clip	1250.000	0	4	8	12	12	16
Ladder frame 75/4 – 1.00 m	1297.004	0	2	0	2	0	2
Ladder frame 75/8 – 2.00 m	1297.008	0	0	2	2	4	4
Uni assembly hook	1300.001	0	0	1	1	1	1
Zifa 75 basic tower	1300.006	1	1	1	1	1	1
Wheel 400 – 4 kN	1308.150	4	4	4	4	4	4
Mobile beam 1.80 m with ledger	1323.180	0	0	2	2	2	2
Ballast	1249.000	For the number of ballasting weights see the ballasting table, page 8					

Models

620 – 625

Zifa – minimum requirements as per DIN EN 1004

Model	Reference No.	620	621	622	623	624	625
Guardrail 1.80 m	1205.180	0	2	4	4	4	8
Diagonal brace 2.50 m	1208.180	0	0	0	0	2	3
Diagonal brace 1.95 m	1208.195	0	0	0	0	0	0
Horizontal diagonal brace 1.95 m	1209.180	0	0	0	0	0	1
Basic tube 1.80 m	1211.180	0	0	0	0	0	1
End toe board 0.75 m	1238.075	0	0	2	2	2	2
Toe board 1.8 m, with claw	1239.180	0	0	2	2	2	2
Deck 1.8 m	1241.180	1	0	0	0	0	0
Access deck 1.8 m	1242.180	0	1	1	1	1	2
Spring clip	1250.000	0	4	4	8	12	16
Ladder frame 75/4 – 1.00 m	1297.004	0	2	0	0	0	0
Ladder frame 75/8 – 2.00 m	1297.008	0	0	0	0	0	0
Zifa 75 basic tower	1300.006	1	1	2	2	3	4
Wheel 400 – 4 kN	1308.150	4	4	4	4	4	4
Mobile beam 1.80 m without ledger	1214.180	0	0	0	2	2	2
Ballast	1249.000	For the number of ballasting weights see the ballasting table, page 9					

Models

1406233 – 1406237

Zifa P2 – with stabilisers

Model	Reference No.	1406233	1406234	1406235	1406236	1406237
Guardrail 1.80 m	1205.180	4	9	8	13	12
Diagonal brace 2.50 m	1208.180	1	2	4	4	6
Diagonal brace 1.95 m	1208.195	0	1	0	1	0
End toe board 0.75 m	1238.075	2	2	2	2	2
Toe board 1.80 m, with claw	1239.180	2	2	2	2	2
Deck 1.80 m	1241.180	1	0	1	0	1
Access deck 1.80 m	1242.180	1	2	2	3	3
Aluminium stabiliser, extendable	1248.260	4	4	4	4	4
Rotation lock	1248.261	4	4	4	4	4
Spring clip	1250.000	4	8	8	12	12
Ladder frame 75/4 – 1.00 m	1297.004	0	2	0	2	0
Ladder frame 75/8 – 2.00 m	1297.008	2	2	4	4	6
Uni assembly hook	1300.001	1	1	1	1	1
Zifa 75 basic tower	1300.006	1	1	1	1	1
Wheel 400 – 4 kN	1308.150	4	4	4	4	4
Access ledger 0.30 m	1344.002	1	1	1	1	1
Ballast	1249.000	For the number of ballasting weights see the ballasting table below				

13. COMPONENTS OF THE SYSTEM

1



1300.150 Wheel 400 With base plate 250

Plastic wheel dia. 150 mm, spindle nut with lock, wheel with twin brake lever and load centering when braked. permissible load capacity 4 kN (\approx 400 kg),

2



1308.150 Wheel 400

Plastic wheel dia. 150 mm, with simple brake lever, permissible load capacity 4 kN (\approx 400 kg), weight 2.2 kg.

3



1309.150 Wheel 400

Plastic wheel with polyurethane tyre, dia. 150 mm, permissible load capacity 4 kN (\approx 400 kg). Special wheel for sensitive floor surfaces. Wheel and slewing ring can be locked. Weight 2.5 kg.

4



1259.201 Wheel 700 with base plate and lock

Plastic wheel dia. 200 mm, permissible load capacity 7 kN (\approx 700 kg). With double brake lever and load centering in the braked state. Wheel and slewing ring can be locked. Adjustment range 0.3 – 0.6 m, weight 6.8 kg.

5



1259.202 Wheel 700 with polyurethane tyre

Plastic wheel, \varnothing 200 mm. With base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, wheel with twin brake lever and load centering when braked. Permissible load capacity: 7.0 kN (\approx 700 kg).

6



1260.201 Wheel 1000

Plastic wheel, \varnothing 200 mm of polyamide. With base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, wheel with twin brake lever and load centering when braked. Permissible load capacity: 10 kN (\approx 1000 kg).

7



1260.202 Wheel 1000 with electrically conductive polyurethane tyre

Plastic wheel, \varnothing 200 mm of polyamide with tyre of electrically conductive polyurethane. With base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, wheel with twin brake lever and load centering when braked. Permissible load capacity 10 kN (\approx 1000 kg). Special wheel for sensitive floors and thanks to electrical conductivity usable in explosion-proof or in ESD-risk areas, electrical leakage resistance as per DIN EN 12526 $< 10^4 \Omega$.

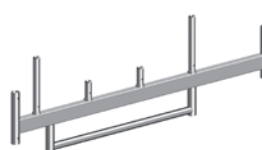
8



1267.200 Wheel 1200 with half-coupler

reinforced plastic wheel, \varnothing 200 mm, with base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, permissible load capacity: 12 kN (\approx 1200 kg).

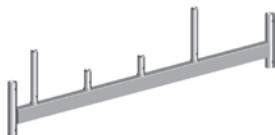
9



1323.180 Mobile beam w. ledger 1.8 m

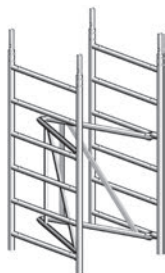
Steel rectangular tube, hot-dip-galvanized. For widening the base of mobile working platforms with up to 6.6 m platform height. Width 1.8 m, weight 16.8 kg.

10



1214.180 Mobile beam 1.8 m
Steel rectangular tube, hot-dip-galvanized. For widening the base of mobile working platforms with up to 6.6 m platform height. Width 1.8 m, weight 14.4 kg.

11



1300.006
Zifa 75 basic tower
of aluminium.
Width 0.75 m, length 1.8 m, height 1.5 m.
Dimensions when folded together: 0.95 x 1.5 x 0.3 m, weight 20.2 kg.

12



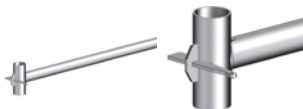
1297.004
Ladder frame 75/4
of aluminium.
Rungs with non-slip grooving. Height 1.0 m, width 0.75 m, weight 4.7 kg.

13



1297.008
Ladder frame 75/8
of aluminium.
Rungs with non-slip grooving. Height 2.0 m, width 0.75 m, weight 8.6 kg.

14



1211.180 Basic tube 1.8 m
steel tube, hot-dip-galvanized.
Length 1.8 m, weight 7.7 kg.

15



1344.002 Access ledger 0.3
of aluminium, length 0.27 m, Weight 2.9 kg.

16



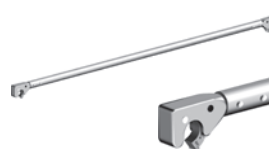
1249.000 Ballast (10 kg)
steel, hot-dip-galvanised with half-coupler.

17



1250.000 Spring clip
of steel.
Weight 0.1 kg.

18



1205.180 Guardrail 1.8 m
of aluminium.
Length 1.8 m, weight 2.3 kg.

19



1206.180 Double guardrail 1.8 m
of aluminium.
Length 1.8 m, height 0.5 m weight 5.8 kg.

20



1207.180 Tower beam 1.8 m
of aluminium. Support elements in tower construction kit or double side protection.
Length 1.8 m, height 0.5 m, weight 7.7 kg.

21



1208.180 Diagonal brace 2.5 m
of aluminium.
Length 2.5 m,
weight 3.3 kg.

22



1208.195 Diagonal brace 1.95 m
of aluminium.
Length 1.95 m,
weight 2.8 kg.

23



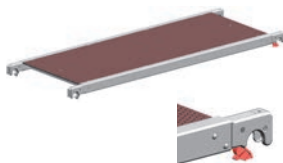
1209.180
Horizontal diagonal brace 1.95 m
of aluminium.
Length 1.95 m, weight 3.5 kg.

24



1275.110 Uni distance tube
Aluminium tube with hook and
rubber mount. dia. 48.3 mm,
Length 1.1 m, weight 1.4 kg.

25



1241.180 Deck 1.8 m
Aluminium frame, with plywood
deck
(BFU 100 G)
with phenolic resin coating.
Length 1.8 m, width 0.68 m,
weight 13.3 kg.

26



1242.180
Access deck 1.8 m
Aluminium frame, with plywood
deck
and hatch
(BFU 100 G) with phenolic resin
coating. Length 1.8 m,
width 0.68 m, weight 15.0 kg.

27



1239.180 Toe board 1.8 m
with claw
of wood.
Length 1.8 m, height 0.15 m
weight 4.2 kg.

28



1238.075
End toe board 0.75 m
of wood.
Length 0.73 m, height 0.15 m,
weight 1.6 kg.

29



1248.260 Stabiliser,
extendable
of aluminium.
Length 2.6 m, weight 8.5 kg.

30



1248.261 Rotation lock
of aluminium.
Length 0.5 m, weight 2.8 kg.

31



1300.001 Uni assembly hook
of polyethylene,
set of 2.
Weight 1.2 kg.

32



1269.019/1269.022
Special screw coupler, rigid
19 or 22 mm AF,
weight 1.1 kg.

33



6344.200 Prohibition sign

34



6344.400 Identification notice
for mobile working platforms

14. CERTIFICATE

In view of possible expiry dates and/or updating, you can obtain the appropriate certificate on request using the contact details stated overleaf.





More Possibilities. The Scaffolding System.

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