

LAYHER ZIFA P2 INSTRUCTIONS FOR ASSEMBLY AND USE

DIN EN 1004-2-DE



Edition 04.2022

Art.-Nr. 8107.340

Mobile working platforms
According to DIN EN 1004-1:2021
working platform 0.75 x 1.80 m





max. working height
in closed areas: 8.6 m
in the open: 8.6 m
perm. load capacity 2.0 kN / m²
on max. one working level
(Load class 3 according to
DIN EN 1004- 1: 2021)



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EXPLANATION OF SYMBOLS

-  Additional information and notes on the assembly, modification, dismantling and use of mobile working platforms and situations in which it is necessary to consult with the manufacturer are indicated by the symbol opposite.
-  When assembling, modifying, dismantling or using mobile working platforms, failure to observe the present Instructions for Assembly and Use and the applicable work safety regulations may result in a variety of hazards and/or require increased attention on the part of the user. Situations in which such hazards may arise and/or in which users must be required to pay increased attention are indicated by the symbol opposite.
-  When assembling, modifying, dismantling or using mobile working platforms, failure to observe the present Instructions for Assembly and Use and the applicable work safety regulations may result in risks due to electrical voltages. Situations in which risks due to electrical voltages may arise are indicated by the symbol opposite.
-  When assembling, modifying, dismantling or using mobile working platforms, failure to observe the present Instructions for Assembly and Use and the applicable work safety regulations may result in risks of falling. Situations in which risks of falling may arise are indicated by the symbol opposite.

NOTE

The DIN EN 1004-2-de-compliant products or assembly variants shown in these Instructions for Assembly and Use may be subject to country-specific regulations. Subject to local regulations, we reserve the right not to supply all of the products illustrated here.

- These Instructions for Assembly and Use must:
- ▶ be available at the place of use of the mobile working platform.
 - ▶ be fully respected during the assembly, modification and dismantling of the mobile working platform, including all specifications they contain, and no modifications to them are permitted or are permissible only after consultation with the manufacturer.

 *These instructions cannot cover all the possible applications. If you have any questions regarding specific applications, please contact your local Layher partner who will be happy to advise you on all questions relating to the products, their use or special 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.

 Number of persons required for assembly, modification and dismantling: ▶ 2 persons

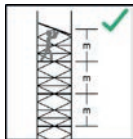
Caution: Layher Zifa may only be assembled, modified and dismantled under the supervision of a person who has been qualified, trained and authorised for operations involving “mobile working platforms”.

2. GENERAL DIRECTIONS FOR ASSEMBLY AND USE

The mobile working platform may be used for the specified load class 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:

- ▶ The user must verify the suitability of the selected mobile working platform for the work to be performed (Section 4 of BetrSichV).
- ▶ The maximum platform height for mobile working platforms in accordance with DIN EN 1004 is
 - inside buildings: 12.00 m
 - outside buildings: 8.00 m
- ▶ 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 keep-out sign indicating "no entry" (BetrSichV Annex 1, Para. 3).
- ▶ It must first be checked that all parts, auxiliary tools and safety equipment for assembling the mobile working platforms are available at the site.
- ▶ All ladder frame joints must always be secured using spring clips.
- ▶ The access hatches must be kept shut whenever they are not in use.
- ▶ Mobile working platforms are not designed to be covered. Mobile working platforms are not designed to be used as side protection.
- ▶ If stipulated, the base must be widened by means, for example, of mobile beams or stabilisers or outriggers and ballast must be installed.
- ▶ Stability **must be ensured during every phase** of assembly and dismantling as well as when the platform is moved. **The necessary ballast weights and/or wall supports** (see corresponding section in these Instructions for Assembly and Use) **must generally be attached before any risk of falling arises.**
- ▶ The adjustable mobile beams may only be inserted in conformity with the instructions for assembly and use. Any ballasting that is required must be installed prior to adjustment in accordance with the ballast specifications given in the section on "Models".
- ▶ 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.
- ▶ On intermediate levels used solely for ascent, toe boards can be dispensed with.
- ▶ 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.
- ▶ It is necessary to prevent horizontal and vertical loads that can cause the mobile working platform to topple over, for example:
 - by pushing against the side protection
 - additional wind loads (tunnel effect of through-type buildings, unclad buildings and corners).
- ▶ 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.
- ▶ The mobile working platforms must not be subjected to any aggressive fluids or gases.
- ▶ Couplers in the structures must be tightened to 50 Nm.



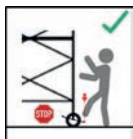
The maximum distance between the platforms must not exceed 2.25 m. Exception: The distance between the assembly level (the ground) and the first platform. The maximum distance permitted here is 3.40 m.



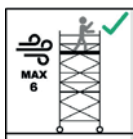
Mobile working platforms must be set to the perpendicular using the adjusting spindles or by inserting suitable materials underneath them. The maximum permitted tilt is 1 % (in horizontal direction = scaffolding length / 100).



Movement is only permitted on sufficiently firm ground with a max. inclination of 4% (approx. 2.5°), in the longitudinal direction or perpendicular to this, and the speed must not exceed normal walking pace (4 km/h). All impacts must be avoided.



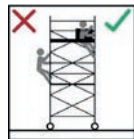
After movement, the wheels must be locked by pressing down the brake lever.



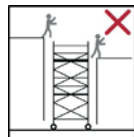
When used in the open air or in open buildings, **any work on the mobile platform must be stopped immediately if the wind strength exceeds 6 on the Beaufort scale.** At these wind speeds or at the end of a shift, mobile working platforms must be moved to a location where they are protected from the wind or must be or suitable measures must be taken to secure them against toppling over.



A wind strength of more than 6 can be recognized by 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 work platforms be anchored if they are left unattended.



Upward access to mobile working platforms is permitted only on the inside of the tower. External access is not permitted.



It is not permitted to climb onto and across different mobile working platforms, to climb onto mobile working platforms from other objects or structures or to jump onto deck surfaces.



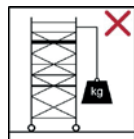
Due to the maximum load-bearing capacity of the structure, there may be a limit to the number of persons who may be present on a working level at any given time. This maximum load on the working level due to persons, tools and material must be checked in advance and be limited if necessary.



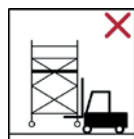
Failure to respect the maximum load limit can overload the structure and/or cause it to collapse. Serious or fatal injuries are possible.



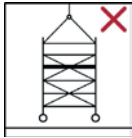
It is not permitted to increase the platform height by using ladders, boxes or other mechanisms.



It is not permitted to lift heavy objects by attaching and using lifting gear at mobile working platforms.



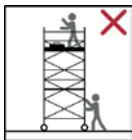
It is not permitted to lift mobile working platforms using mechanical equipment.



In the standard version, mobile work platforms are not designed to be lifted or suspended.



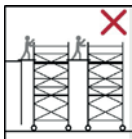
In certain cases, and following consultation with the manufacturer, it may be possible to reinforce the structure by replacing the appropriate components.



It is not permitted to move the mobile platform when persons and/or loose objects are present on it.



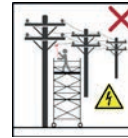
It is not permissible to stand and move around on unsecured levels/platforms of mobile working platforms.



In the standard version, it is not permitted to establish bridges between different mobile working platforms or between mobile working platforms and other objects or structures.



In certain cases, and following consultation with the manufacturer, this may be possible if the structure is reinforced (special construction form) and a special verification of stability is performed for this or a structural calculation is performed.



When working with mobile working platforms at or in the vicinity of electrical equipment and overhead cables, it is necessary to respect the following additional instructions.

It is only permissible to assemble and use mobile working platforms if:

- ▶ the equipment is no longer live.
- ▶ the deactivated equipment has been secured against reactivation.
- ▶ the equipment has been checked for the absence of voltage.
- ▶ neighbouring live parts have been secured by means of protective mechanisms.
- ▶ in the case of work performed in the vicinity of overhead electrical cables, an adequate safety distance as specified in VDE 0105-100 can be/is respected.



3. MEASURES FOR FALL PROTECTION

Fall protection during assembly, modification or dismantling of rolling towers

General

Suitable measures for fall protection must be taken during assembly, modification or dismantling of the tower. Safety Structure P2 implements these protective measures in full.

Safety Structure P2

- ▶ Platforms with vertical spacing of 2 m.
- ▶ Safe design with integrated and collective side protection.

Thanks to the platforms, which are assembled 2 m apart, the handrails can already be fitted from the level underneath and intermediate rails can be fitted from the secured area of the access hatch, so that when the next platform up is accessed there is already a two-part side protection in place on all sides.



THE PRINCIPLE – SIMPLER. FASTER. SAFER.

1. Fit the first ladder frame.

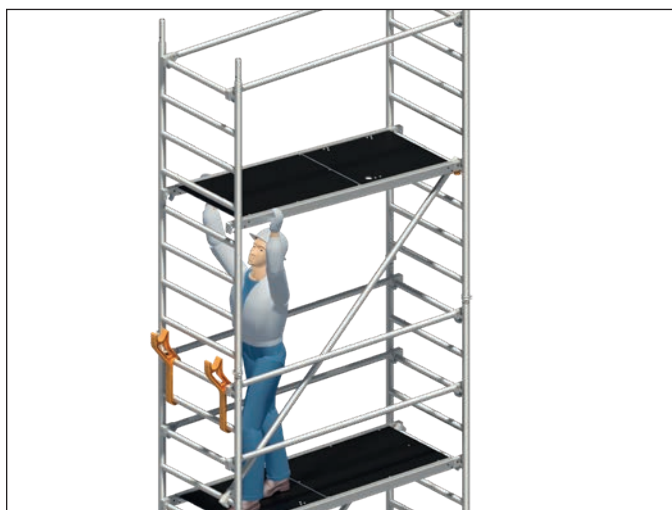
Attach the Uni assembly hook and position the second ladder frame in order to fit the guardrails.



2. Swivel the ladder frame with guardrail upwards and fit it in place.



3. Insert diagonal braces and access deck.



4. Assemble the intermediate rails from a secured position in the area of the access hatch.

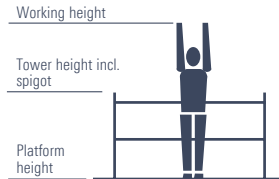


4. MODELS

Models

Design: Safety Structure P2

1406200 – 1406216



1406200



1406310



1406213



1406214



1406215



1406216

Model	1406200	1406310	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	75.9	139.3	168.8	191.4	217.2
Ballasting						
Indoors						
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
Outdoors						
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).

** Maximum platform height in the type by suspending the platform in the 3rd rung. By moving the platform downwards, the heights per rung are reduced by 25cm (suspension in the 2nd rung standing height = 0.61 m/in the 1st rung standing height = 0.36 m).

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. Fasten the weights quickly and securely at the right place using the coupler handwheel.

Do not use any liquid or granular ballast substances. Distribute the ballast weights evenly over all ballasting fixing points (see pages 18 – 19).

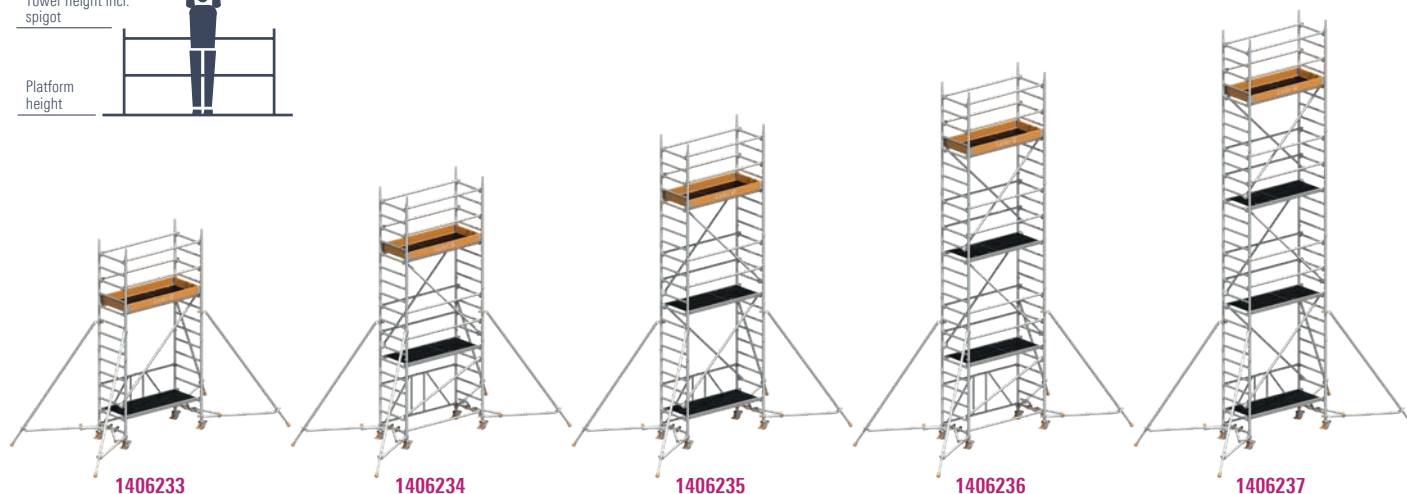
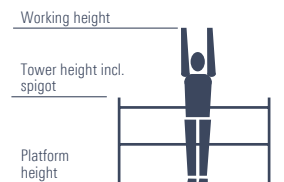
Example: I2, r2 → Fasten 2 ballast weights of 10 kg each to the ladder frame on its left-hand side, and 2 ballast weights of 10 kg each on its right-hand side
L6, R16 → Fasten 6 ballast weights of 10 kg each to the mobile beam on its left-hand side, and 16 ballast weights of 10 kg each on its right-hand 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 7, Ballasting, on pages 18 – 19).

Models

Design: Safety Structure P2

1406233 – 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					
Indoors					
Assembly central	0	0	0	I2 r2	I2 r2
Assembly off-centre	LO R4	LO R6	LO R8	LO R10	LO R14
Assembly off-centre with wall bracing	0	0	0	0	0
Outdoors					
Assembly central	0	0	I2 r2	I4 r4	I8 r8
Assembly off-centre	LO R6	LO R10	LO R12	LO R18	LO 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. Fasten the weights quickly and securely at the right place using the coupler handwheel.

Do not use any liquid or granular ballast substances. Distribute the ballast weights evenly over all ballasting fixing points (see pages 18 – 19).

Example: I2, r2 → Fasten 2 ballast weights of 10 kg each to the ladder frame on its left-hand side, and 2 ballast weights of 10 kg each on its right-hand side
 I6, R16 → Fasten 6 ballast weights of 10 kg each to the mobile beam on its left-hand side, and 16 ballast weights of 10 kg each on its 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 7, Ballasting, on pages 18 – 19).

5. ASSEMBLY SEQUENCE **Safety Structure P2**

Observe the general instructions for assembly and use on pages 3 – 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.

Assembly **Model 1406200**



Pursuant to the national regulation ASR-2.1 which is applicable in Germany and in the light of DGUV regulation 38 (German accident prevention regulations), mobile working platforms with a platform height of less than 1 m can also be used without the three-part side protection required by standard DIN EN 1004-1.



1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.
2. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.
3. 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.



At a platform height of less than 1 m, and providing that the necessary ballasting is present, the working level can be accessed by swinging out a standard; alternatively, access is possible by rising from a sitting position from the centre of the working level. In both cases, it is essential to avoid tilting the structure.

Assembly **Model 1406310**



1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.
2. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.

3. Snap the access deck 26 into the top cross-rung of the basic tower.
4. Fit two 1.00-m ladder frames 12 onto the basic tower 11 and brace them with four guardrails 18. Secure the ladder frame joints with spring clips 17.
5. To complete the working platform, attach toe boards with claw 27 and end toe boards 28.

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 onto the mobile beams 9.
4. Snap in access deck 25 at 2nd rung 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 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 1.95-m diagonal brace 22 at 2nd rung from the top and at 2nd rung from the bottom of the ladder frame opposite.
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.



Basic assembly

Models 1406233, 1406235 and 1406237

1. Pull the basic tower 11 open and firmly snap in the joints in the folding part.
2. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.
3. Snap in access deck 25 in 2nd rung from the bottom of the basic tower.

Further assembly is performed as per page 13, "Assembly of intermediate platforms".



Basic assembly

Models 1406234 and 1406236

1. Pull open the basic tower 11, firmly snap in the joints in the folding part and fit onto the mobile beams 9.
2. Insert wheels 2 into the ladder frames of the basic tower 11 and use bolts and nuts to prevent them falling out.
3. Brace the basic tower by installing a guardrail 18 at the bottom rung.
4. Snap in the access deck 26 at the top rung of the basic tower ladder frames.
5. Attach 1.95-m diagonal brace 22 at 2nd rung from the top and at 2nd rung from the bottom of the ladder frame opposite.
6. 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.

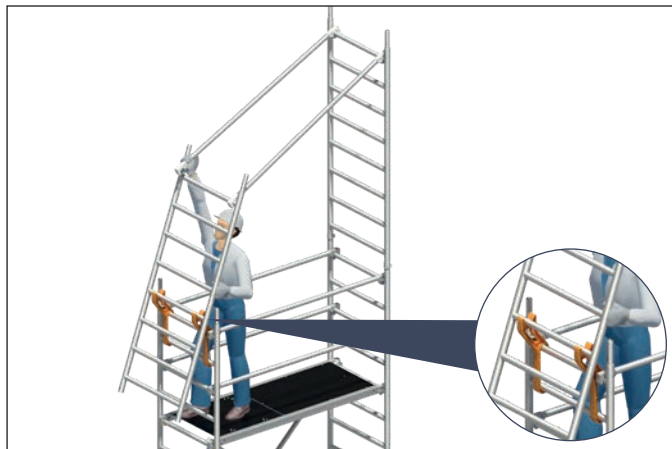
Further assembly is performed as per page 13, "Assembly of intermediate platforms".

Assembly of intermediate platforms

All models



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



1. Fit 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 in order to fit 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. Install the diagonal braces on both sides in tower-like (zig-zag) form.



5. Climb up on the inside using the rungs of the ladder frame and through the access hatch provided. Further assemble the intermediate rail for the next level while sitting in the access hatch opening, protected from falls by the rails of the access deck 26; to this end, the guardrails 18 are mounted 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, attach toe boards here too.

Operating the wheels



During assembly 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.

To move the structure, unlock the wheels by pressing the opposite lever.

6. DISMANTLING SEQUENCE

Dismantling is performed in the reverse order to assembly.

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.

1. Dismantle the toe boards (only necessary on the work platform).



2. While sitting in the access hatch opening, protected from falling by the sides of the access deck 26, dismantle the intermediate rails of the respective level: to do so, remove the guardrails 18 at the second rungs above the standing surface. If the snap-on claws of the guardrails 18 are not reachable from the sitting position in the access hatch opening, dismantle as described under 3a.



3. Dismantle the access deck 26 and diagonal braces 21.
4. Attach the Uni assembly hooks 31 at the side of the access hatch opening above, and remove the spring clips 17 on one side.
5. Lift out the ladder frame 12 on the side of the Uni assembly hooks, swivel it downwards with the rail and position it in the previously fitted Uni assembly hooks 31.



6. Detach the guardrails 18 from the positioned ladder frame on one side.



7. Dismantle the guardrails 18 by opening the snap-on claw using one of the intermediate rails dismantled under point 3. Place the loose guardrail 18 onto the 2nd rung from the top, to act as a lever for opening the locking clip of the snap-on claw (see detail).

Alternative dismantling sequence:



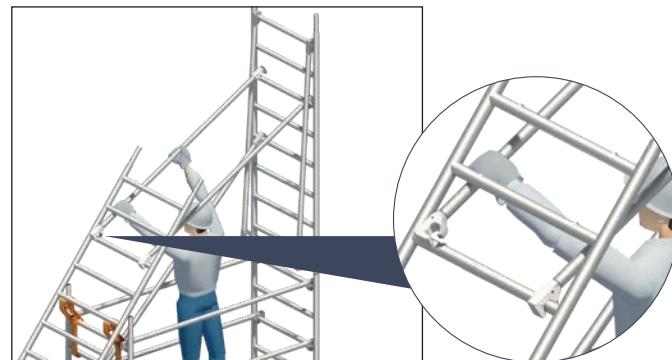
- 3a. While sitting in the access hatch opening, protected from falling by the sides of the access deck 26, release the snap-on claws of both guardrails on one side and put them down, on the side of the access hatch and 1 metre above the standing surface.
- 4a. After climbing down to the platform underneath, dismantle the access deck 26 and the diagonal braces 21.
- 5a. Attach the Uni assembly hooks 31 at the side of the access hatch opening above and remove the spring clips 17 on one side.



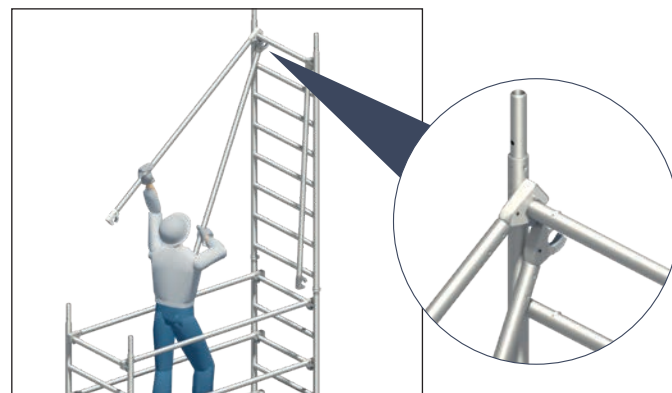
- 6a.** Lift out the ladder frame 12 on the side of the Uni assembly hooks and swivel it downwards with the guardrails released on one side under 2. and the still attached intermediate rails, in order to position this unit into the previously fitted Uni assembly hooks 31. Take care when swivelling it down that the guardrails 18 released on one side at the top rung of the ladder frame can slide outwards, allowing the complete unit to be positioned in the Uni assembly hooks 31.



- 7a.** Moving the upper guardrails 18, already released on one side, on the outside past the upper ends of the ladder frame positioned in the Uni assembly hooks 31 allows the ladder frame to be positioned for later dismantling.



- 8a.** Using the end toe board or a guardrail additionally available, to act as extensions, release the locking clip of the snap-on claws on one of the intermediate rails still attached, guardrail 18, about 2.5 metres up in order to lift out the snap-on claw on one side. After that, release the guardrail 18 released on one side, at that side in which it is positioned in the Uni assembly hooks 31, and remove it by rotating it 90° about its own axis.



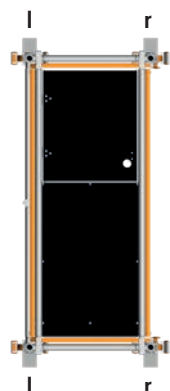
- 9a.** Lift out the second intermediate rail still remaining, guardrail 18, on one side, in that side in which it is positioned in the Uni assembly hooks, and swivel the ladder frame 12 in the Uni assembly hooks 31 into a vertical position, so that the three guardrails 18 still remaining can then be removed using the guardrail 18, already removed under 8., as an extension. Place the loose guardrail 18 onto the rung underneath, for use as a lever to open the locking clip of the snap-on claw (see detail).

7. BALLASTING

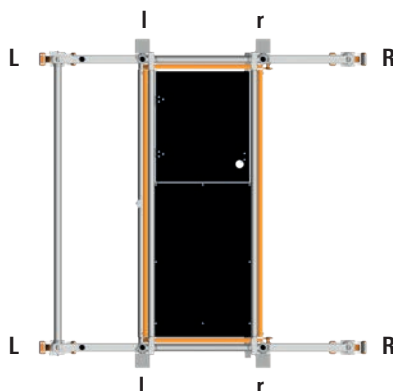
Attachment of ballast weights

Assembly central:

directly on base plates

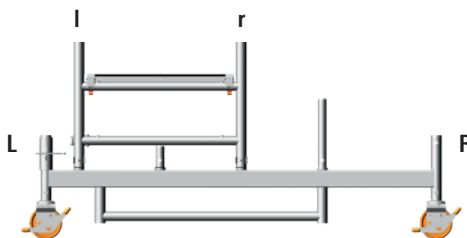
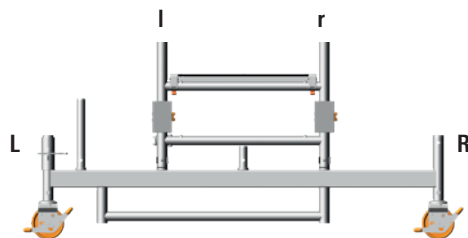
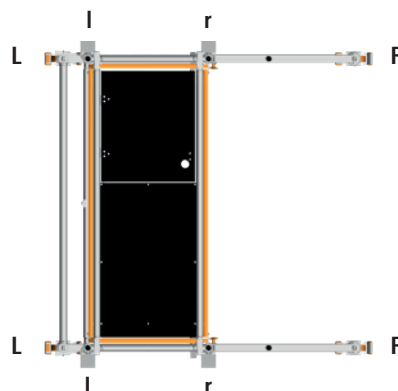


on mobile beams (with and without access ledgers)



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

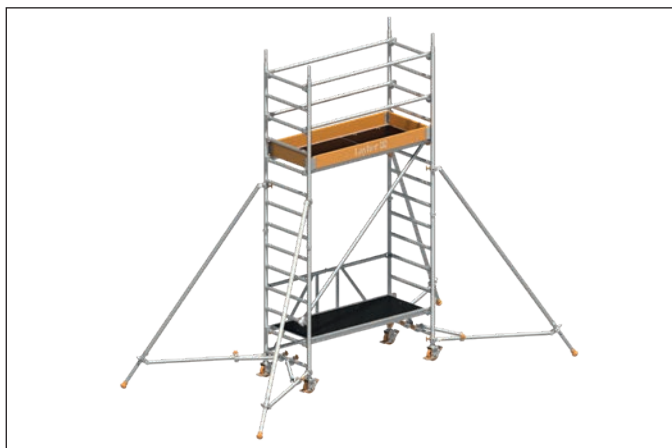
Ballast: see pages 8 – 9



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

8. STABILISER ATTACHMENT

Before assembly, please note page 10 "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 29.



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 position of the stabilisers must be set as follows:

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

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. right).

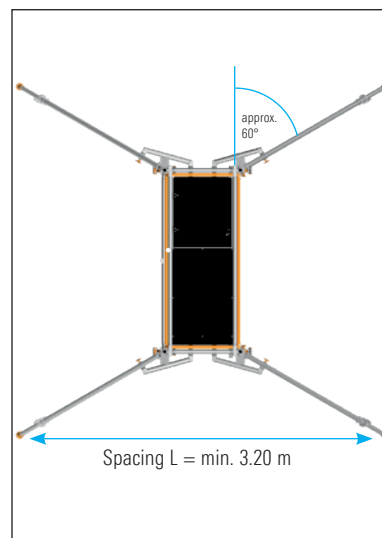
The specified angles can be checked after attachment of the stabilisers on the basis of the length dimensions "Spacing L".

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.

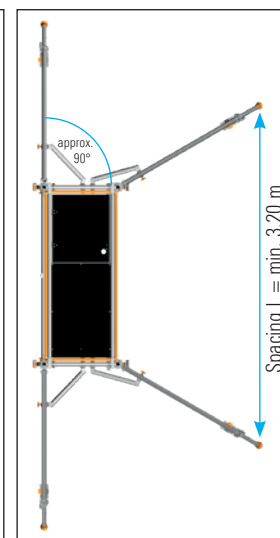
Adjust the tower rotation lock by moving the half-coupler on the stabiliser 29 such that the half-coupler is fastened underneath the first rung of the ladder frame. It must be ensured that the spring clips 17 securely engage in the telescoping parts of the extendable stabiliser 29. When moving the mobile 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 – 9).

Free-standing assembly



Assembly against a wall



9. WALL BRACING (under load) ANCHORING (under compression and tension)



For work performed on a load-bearing wall, ballasting can be reduced in accordance with the table **Ballasting** (see pages 8 – 9). 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.

Position the rubber mount 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.

Use the Uni distance tube, rotated by 180°, for anchoring and fit it into 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: If anchoring is used, ballasting can be dispensed with.

Attach the wall supports/anchoring at the height of the top working platform or at most 1.00 m below that.



Detail A



Detail B

10. PARTS LIST

Models 1406200 – 1406216

Zifa P2

Model	Ref. No.	1406200	1406310	1406213	1406214	1406215	1406216
Guardrail 1.80 m	1205.180	0	4	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	1438.075	0	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	0	2	2	2	2	2
Deck 1.80 m	1241.180	1	0	1	0	1	0
Access deck 1.80 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	1300.010	0	0	1	1	1	1
Zifa 75 basic tower	1300.006	1	1	1	1	1	1
Wheel 400 – 4 kN	1301.150	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 1406233 – 1406237

Zifa P2 – with stabilisers

Model	Ref. 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	1438.075	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	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	1300.010	1	1	1	1	1
Zifa 75 basic tower	1300.006	1	1	1	1	1
Wheel 400 – 4 kN	1301.150	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				

11. COMPONENTS OF THE SYSTEM

1



1300.150 Wheel D=150 with base plate 250

Plastic wheel, Ø 150 mm, with base plate, adjustment range 0.2 – 0.35 m, spindle nut with lock, wheel with twin brake lever and load centring when braked. Permissible load capacity: 7 kN (\approx 700 kg).

2



1301.150 Wheel 400

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

Functioning predecessor article 1308.150 (not shown) can remain in use.

3



1303.150 Wheel 400

Plastic wheel with polyurethane tyre, Ø 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.

Functioning predecessor article 1309.150 (not shown) can remain in use.

4



1359.200 Wheel 700

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

Functioning predecessor article 1259.200/1259.201 (not shown) can remain in use.

5



1358.200 Wheel 700 with polyurethane tyre

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

Functioning predecessor article 1268.200/1259.202 (not shown) can remain in use.

6



1260.201 Wheel 1000

Plastic wheel, Ø 200 mm, polyamide. With base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, wheel with twin brake lever and load centring when braked. Permissible load capacity: 10 kN (\approx 1,000 kg)

Functioning predecessor article 1260.200 (not shown) can remain in use.

7



1260.202 Wheel 1000 with electrically conductive polyurethane tyre

Plastic wheel, Ø 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 centring when braked. Permissible load capacity 10 kN (\approx 1,000 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 $< 10^4 \Omega$.

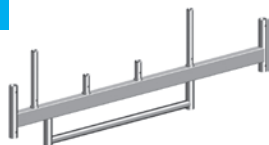
8



1267.200 Wheel 1200 with Half-coupler

reinforced plastic wheel, Ø 200 mm, with base plate, adjustment range 0.30 – 0.60 m, spindle nut with lock, permissible load capacity: 12 kN (≈ 1,200 kg), weight. 12.0 kg.

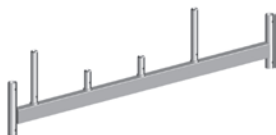
9



1232.180 Mobile beam w. ledger 1.8 m

Steel rectangular tube, hot-dip-galvanised. For widening the base of mobile working platforms with up to 6.60 m platform height. Width 1.80 m, weight 16.8 kg.

10



1214.180 Mobile beam 1.80 m

Steel rectangular tube, hot-dip-galvanised. For widening the base of mobile working platforms with up to 6.60 m platform height. Width 1.80 m, weight 14.4 kg.

11



1300.006 Zifa 75 basic tower

aluminium.
Width 0.75 m, length 1.80 m, height 1.50 m.
Dimensions when folded together: 0.95 x 1.50 x 0.30 m, weight 20.2 kg.

12



1297.004 Ladder frame 75/4

aluminium.
Rungs with non-slip grooving. Height 1.00 m, Width 0.75 m, weight 4.7 kg.

13



1297.008 Ladder frame 75/8

aluminium.
Rungs with non-slip grooving. Height 2.00 m, Width 0.75 m, weight 8.6 kg.

14



1211.180 Basic tube 1.80 m

steel tube, hot-dip-galvanized. Length 1.80 m, weight 7.7 kg.

15



1344.002 Access ledger 0.30 m

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

steel.
weight 0.1 kg.

18



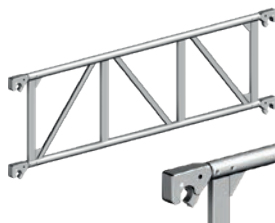
1205.180 Guardrail 1.80 m
aluminium.
Length 1.80 m,
weight 2.3 kg.

19



1206.180 Double guardrail 1.80 m
aluminium.
Length 1.80 m, height 0.50 m,
weight 5.8 kg.

20



1207.180 Tower beam 1.80 m
aluminium. Support elements in
tower construction kit or double
side protection.
Length 1.80 m, height 0.50 m,
weight 7.7 kg.

21



1208.180 Diagonal brace 2.50 m
aluminium.
Length 2.50 m,
weight 3.3 kg.

22



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

23



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

24



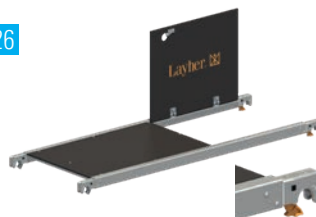
1275.110 Uni distance tube
Aluminium tube with hook and
rubber mount. Ø 48.3 mm,
Length 1.10 m, weight 1.4 kg.

25



1241.180 Deck 1.80 m
Aluminium frame with plywood
deck (BFU 100G) with phenolic
resin coating.
Length 1.80 m, width 0.68 m,
weight 13.3 kg.

26



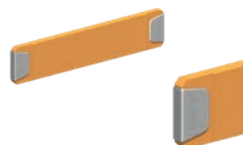
1242.180 Access deck 1.80 m
Aluminium frame, with plywood
deck and hatch (BFU 100 G)
with phenolic resin coating.
Length 1.80 m,
Width 0.68 m, weight 15.0 kg.

27



1439.180 Toe board 1.80 m with claw
wood.
Length 1.80 m, height 0.15 m,
weight 4.2 kg.

28



1438.075 End toe board 0.75 m
wood.
Length 0.73 m, height 0.15 m,
weight 1.6 kg.

29



1248.260 Stabiliser, extendable
aluminium.
Length 2.60 m, weight 8.5 kg.

30

**1248.261 Rotation lock**

aluminium.
Length 0.50 m,
weight 2.8 kg.

31

**1300.010 Uni assembly hooks**

polyethylene,
set of 2.
weight 1.2 kg.

32

**4700.019/4700.022**

Double coupler
19 or 22 mm AF,
weight 1.3 kg.

33



6344.010 See-through pocket,
with integrated keep-out sign.

34



6344.400
Tower identification block

12. CERTIFICATE

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



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