Layher®

More Possibilities. The Scaffolding System.

LAYHER UNI COMFORT
INSTRUCTIONS FOR ASSEMBLY AND USE

DIN EN 1004-2-DE

Edition 04.2022
Ref. No. 8107.236

Mobile working platforms
According to DIN EN 1004-1: 2021
Working platform 1.50 x 1.80 m

max. working height:
indoors 14.50 m
outdoors 10.50 m
permissible load 2.0 kN / m^2
on max. one working level
(Load class 3 according to
DIN EN 1004-1: 2021)

CONTENTS

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.

Beyond the currently valid General Terms of Sale of Wilhelm Layher GmbH & Co KG, **no liability** is assumed for damage of whatever nature that has been incurred due to the following reasons:

- Non-compliance with instructions
- Improper assembly, and use of the product not for its intended purpose
- Use of non-original and damaged Layher components
- Unauthorised structural changes
- Improperly performed repairs, including and above all when non-original Layher spare parts are used
- Events caused by force majeure (disasters, foreign objects)

The respective user shall ensure on their own responsibility that the points as stated and also the current safety regulations are complied with and that use for the intended purpose is assured.

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.

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.

1. INTRODUCTION

General

These Instructions for Assembly and Use relate to the assembly, modification and dismantling of the **Uni Comfort** mobile working platforms made by Wilhelm Layher GmbH & Co KG, of Güglingen-Eibensbach, Germany.

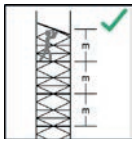
Number of persons required for assembly, modification and dismantling: ▸ 2 persons

Caution: Layher Uni Comfort 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:

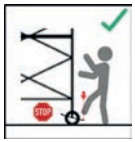
- The user must verify the suitability of the selected mobile working platform for the work to be performed (Section 4 of BetrSichV).
- The maximum platform height for mobile working platforms in accordance with DIN EN 1004 is
  - inside buildings: 12.00 m
  - outside buildings: 8.00 m
- Assembly, modification 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 prohibition 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.
- In the case of intermediate platforms 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.



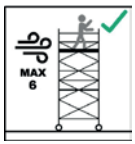
The maximum distance between the platforms must not exceed 2.25 m. Exception: The distance between the assembly level (the ground) and the first platform. The maximum distance permitted here is 3.40 m.

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.

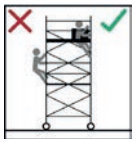


After movement, the wheels must be locked by pressing down the brake lever.

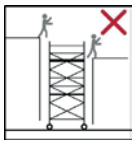


When used in the open air or in open buildings, **any work on the mobile platform must be stopped immediately if the wind strength exceeds 6 on the Beaufort scale.** At these wind speeds or at the end of a shift, mobile working platforms must be moved to a location where they are protected from the wind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

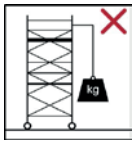


Upward access to mobile working platforms is permitted only on the inside of the scaffolding structure. External access is not permitted.



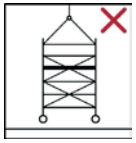
It is not permitted to climb onto and across different mobile working platforms, to climb onto mobile working platforms from other objects or structures or to jump onto deck surfaces.

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



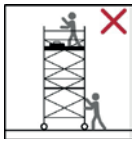
It is not permitted to lift heavy objects by attaching and using lifting gear at mobile working platforms.

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



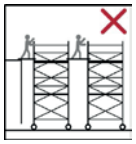
In the standard version, mobile working platforms are not designed to be lifted or suspended.

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



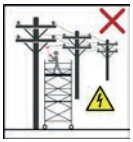
It is not permitted to move the mobile platform when persons and / or loose objects are present on it.

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

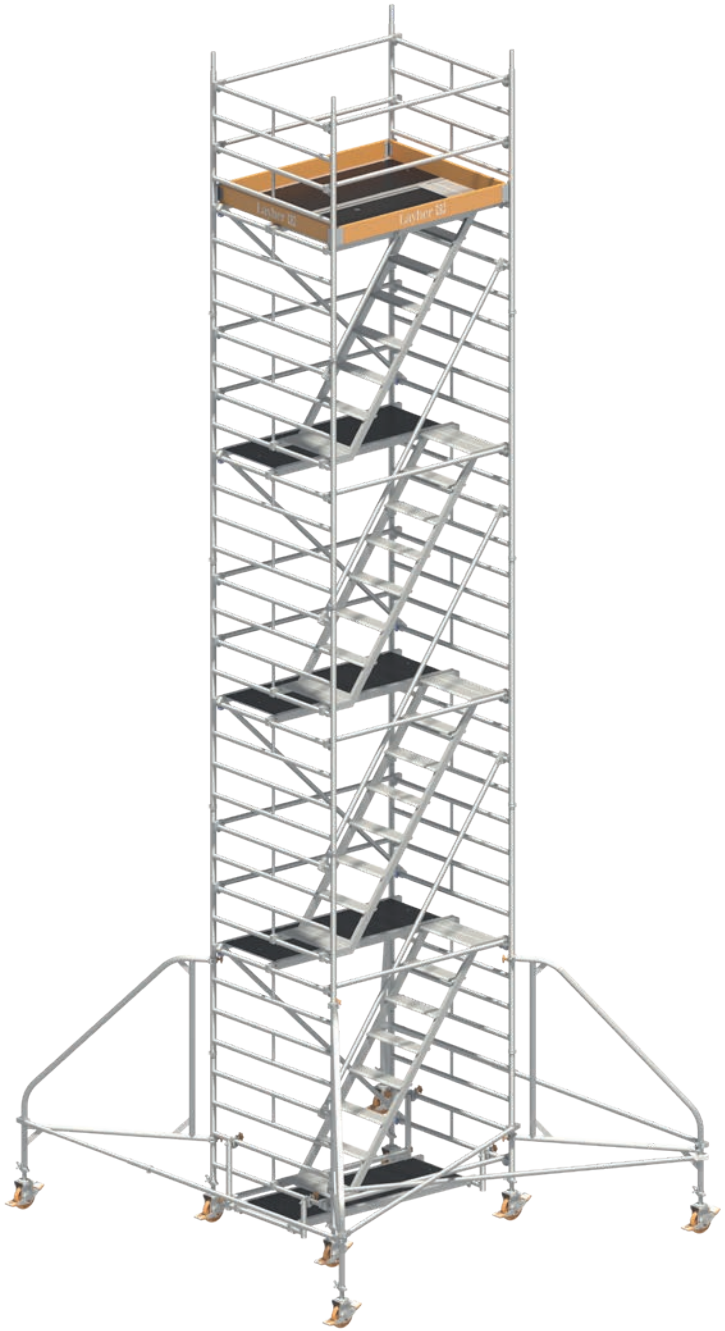
General

Suitable measures for fall protection must be taken during assembly, modification or dismantling of the scaffolding structure. 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.

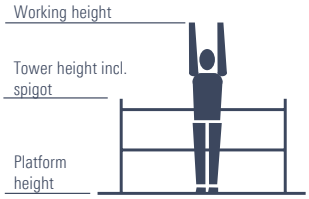
1. Fit the first ladder frame.
Attach the Uni assembly hook and position the second ladder frame in order to fit the guardrails.

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

3. Install the stair and deck.

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

4. TOWER MODELS

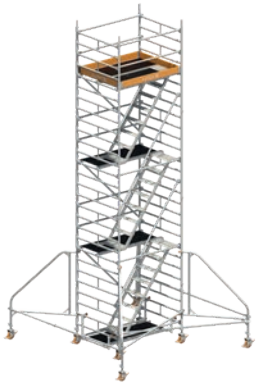


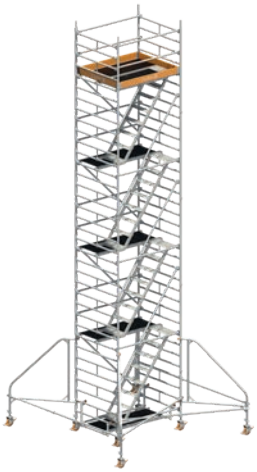
The Uni Comfort family

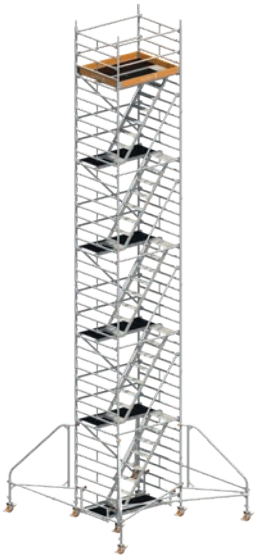
Tower model	4201	4202
Working height [m]	4.20	6.20
Tower height [m]	3.43	5.43
Platform height [m]	2.20	4.20
Weight [kg] (without ballast)	166.3	236.5
Ballasting (stated in units)		
Indoors		
without outrigger	0	6
outriggers on both sides	Δ	Δ
outriggers on one side	Δ	Δ
outriggers on one side with wall support	Δ	Δ
Outdoors		
without outrigger	4	18
outriggers on both sides	Δ	Δ
outriggers on one side	Δ	Δ
outriggers on one side with wall support	Δ	Δ

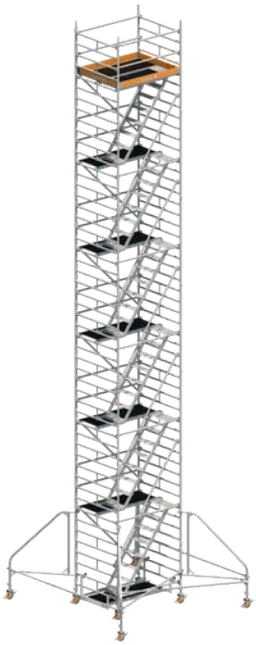
X = not permissible 0 = no ballast required Δ = assembly only possible with additional components and following consultation with the manufacturer
For ballasting, use Layher ballast weights, Ref. No. 1249.000, of 10 kg each. Fasten the weights quickly and securely at the right place using the coupler handwheel.
All heights stated without possible spindle extension! The max. spindle extension of the relevant assembly variants can be found in the corresponding Instructions for Assembly and Use!
Do not use any liquid or granular ballast substances. Distribute the ballast weights evenly over all ballasting fixing points (see Instructions for Assembly and Use).

In the case of assembly without outriggers, the ballast weights must be distributed evenly over all four ladder frame standards. The remainder not divisible by 4 must be fitted in accordance with the Instructions for Assembly and Use.
In the case of assembly with outriggers, attach the ballast weights in accordance with the Instructions for Assembly and Use.









4203	4204	4205	4206
8.20	10.20	12.20	14.20
7.43	9.43	11.43	13.43
6.20	8.20	10.20	12.20
387.9	458.1	528.3	598.5
Δ	X	X	X
0	0	0	0
2	2	4	8
0	2	4	8
Δ	X	X	X
20	X	X	X
26	X	X	X
26	X	X	X

5. ASSEMBLY SEQUENCE Safety Structure P2

Observe the general directions for assembly and use on pages 5 – 7. The assembly examples shown are intended for use up to a maximum platform height of 12 m indoors and up to a maximum platform height of 8 m outdoors. Snap the snap-on claws of all parts into the ladder frames from above. Level the scaffolding structure after basic assembly. This is done using the threaded spindles of the wheels 1.

The wheels must be locked during assembly, modification or dismantling and while there is anybody on the scaffolding structure.

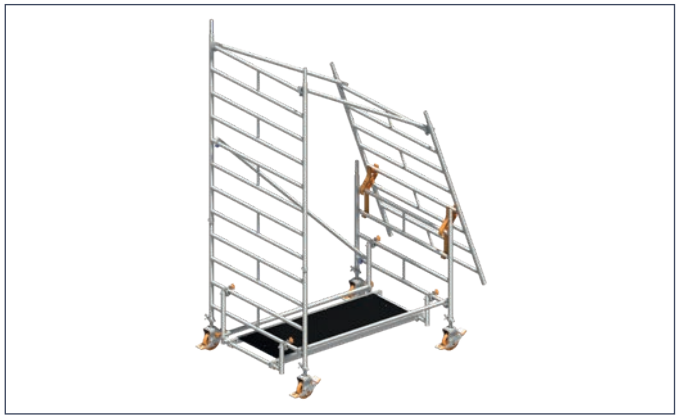
Hammer home the wedges in the system until the blow bounces off. Always tighten the screw couplers well (50 Nm).

At the top level, a double guardrail 6 or a tower beam 17 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.

The item numbers for the components relate to the component list on pages 24 – 26.

Assembly

All scaffolding models



1. Insert the wheels 1 into the 1-m ladder frames 4 and use wing screws to prevent them falling out.
2. Connect the two ladder frames 4 with a guardrail 5.
3. On one side, mount a 2-m ladder frame 4a on the spigots provided for this purpose on the 1-m ladder frame 4 and secure using spring clips 12.
4. Install a diagonal brace upwards from the bottommost rung of the 1-m ladder frame 4 as far as the fourth rung of the 2-m ladder frame that is mounted on it 4a.
5. Install the access ledgers 20, insert the deck 11 and attach the access ledgers 20 to the upright tube using a base strut 22.
6. Attach the assembly hooks 21 and position the second 2-m ladder frame 4a in the assembly hooks 21.
7. Mount the second 2-m ladder frame 4a and secure it using spring clips 12.
8. Connect the topmost rungs of the 2-m ladder frames 4a using two guardrails 5.

9. Swing the 2-m ladder frame 4a which is positioned in the assembly hooks 21 upwards into the spigots of the 1-m ladder frame 4 in order to mount it and then secure it with spring clips 12.

10. Install the deck 11 on the side of and at the height of the mounted diagonal brace 7.

11. Install the platform stair 8 adjacently, at the height of the deck 11 and opposite to the ascent direction of the diagonal brace 7.

12. Install the stair access deck 10 by suspending it in the front area of the stair platform and engaging the snap-on claws in the rungs of the side of the 2-m ladder frame 4a located opposite the platform.

The stair access deck 10 is installed when assembling and dismantling Model 4201 in the intended position. When assembling or dismantling Models 4202 to 4206, this is a temporary intermediate step to permit the safe assembly of the following platforms. The stair access deck 10 must be moved during the corresponding steps of the assembly and dismantling sequence.

13. Climb up the steps of the platform stair 8 through the access hatch intended for this purpose. Further assemble the intermediate rails for the next level while standing on the stair in the access hatch opening, protected from falls by the rails of the stair access deck 10; to this end, each of the guardrails 5 is mounted on the second rung above the platform area.

Model 4201:

14. Assemble the stair guardrail 16 by engaging the snap-on claw at the third rung above the platform stair 8 and then pinning the U-section in the stile of the stair access deck 10.

Further assembly is performed as per page 16, “Completing the working platforms”.

Models 4202 to 4206:

Further assembly is performed as per page 14, “Assembly of intermediate platforms”.

Assembly of intermediate platforms

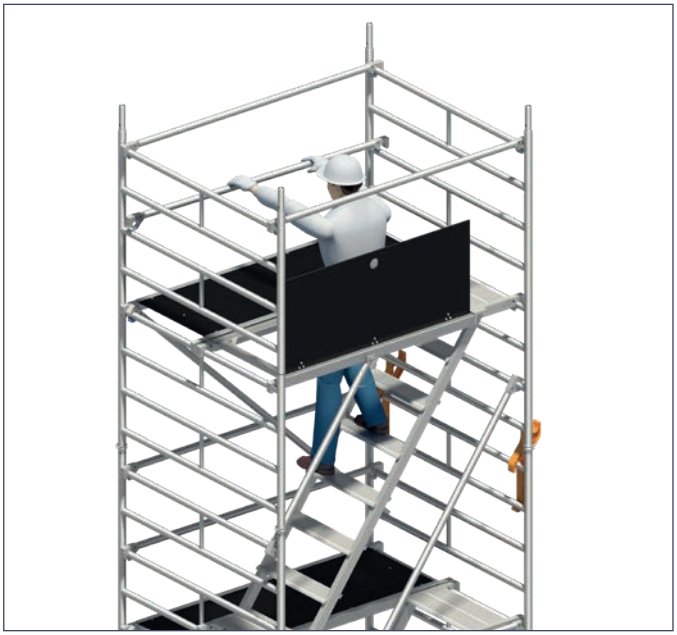
All scaffolding models

The outriggers required by the scaffolding type and the associated bracing elements must usually be installed as early on during assembly as possible, i.e. as soon as the height required for installation of the outriggers is reached. See section on attachment of outriggers p. 20.

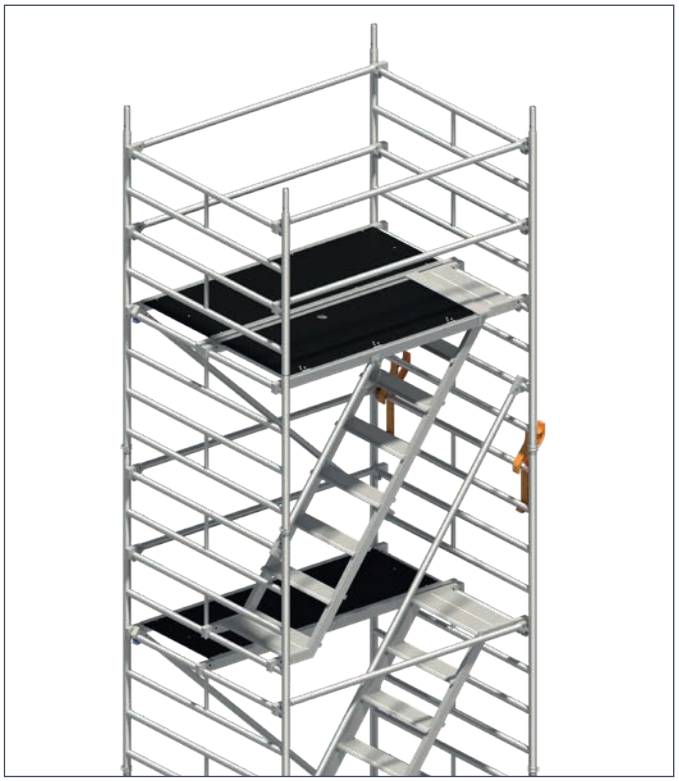
1. On one side, mount a 2-m ladder frame 4a on the spigots provided for this purpose on the ladder frame and secure using spring clips 12.
2. Install a diagonal brace upwards from the first rung above the platform level of the ladder frame as far as the fourth rung of the 2-m ladder frame that is mounted on it 4a.
3. Attach the assembly hooks 21 and position the second 2-m ladder frame 4a.
4. Connect the topmost rungs of the 2-m ladder frames 4a using two guardrails 5.

5. Swing the 2-m ladder frame 4a which is positioned in the assembly hooks 21 upwards into the spigots of the ladder frame in order to mount it and then secure it with spring clips 12.
6. Install the deck 11 on the side of and at the height of the mounted diagonal brace 7.
7. Install the platform stair 8 adjacently, at the height of the deck 11 and opposite to the ascent direction of the diagonal brace 7.

8. Disassemble and reinstall the temporarily mounted stair access deck. Remove from the position of the lower platform stair 8 by opening the snap-on claws and removing it from the front area of the stair platform and then directly install it in the same area of the next platform stair 8.
9. Assemble the stair guardrail by engaging the snap-on claw at the third rung above the lower platform of the next platform stair 8 and then pinning the U-section in the stile of the previously relocated stair access deck 10.
10. Mount stair guardrail 9 from the 6th rung above the topmost platform of the platform stair 8 installed in the level below down to 3rd rung above the lower platform of the same stair.
11. Move the guardrail which has been installed as an intermediate guardrail 5 at a height of 0.5 m above the stair platform to the height of the stair platform.
12. Remove the guardrail which has been installed as a handrail 5 at a height of 1 m above the stair platform. Take this guardrail 5 with you for the next assembly step.



13. Climb up the steps of the platform stair 8 through the access hatch intended for this purpose. Further assemble the intermediate rails for the next level while standing on the stair in the access hatch opening, protected from falls by the rails of the stair access deck 10; to this end, each of the guardrails 5 is mounted on the second rung above the platform area.



Directly for type 4202:
Further assembly is performed as per page 16, "Completing the working platforms".

Models 4203 to 4206:
Assembly steps 1 to 13 may be repeated several times depending on the desired assembly height and/or the type of scaffolding that is required.

When the required assembly height is reached or the desired scaffolding type has been constructed, subsequent assembly is performed in accordance with section "Completing the working platforms" on page 16.

Completing the working platform

All scaffolding models

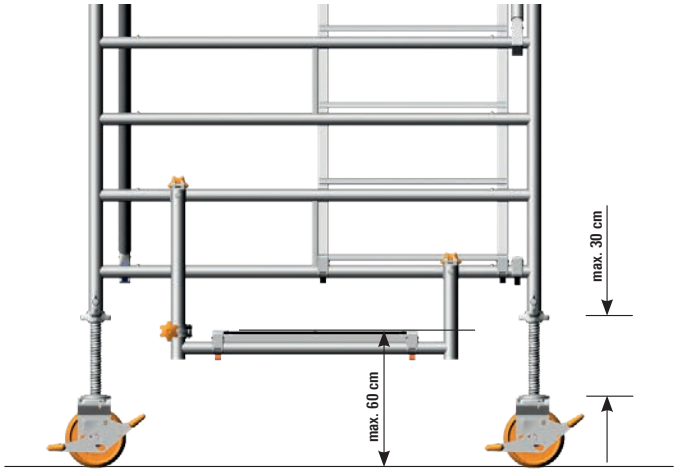
1. To complete the working platform, attach toe boards with claw 13 and end toe boards 14.

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.

The outriggers required due to the required scaffolding type and the associated bracing elements must usually be installed as early on during assembly as possible, i.e. as soon as the height required for installation of the outriggers is reached. See section on attachment of outriggers, p. 20.

Maximum spindle extension



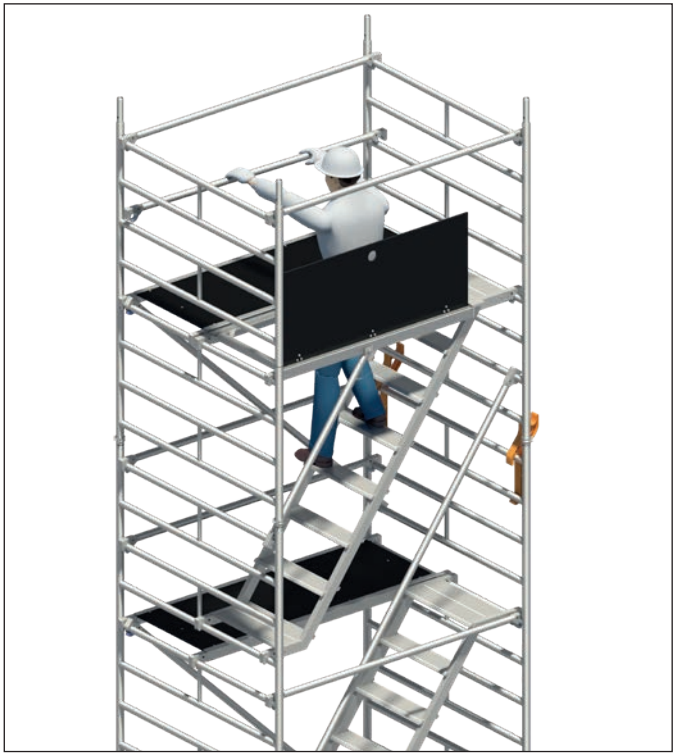
6. DISMANTLING SEQUENCE

Dismantling is performed in the reverse order to assembly.

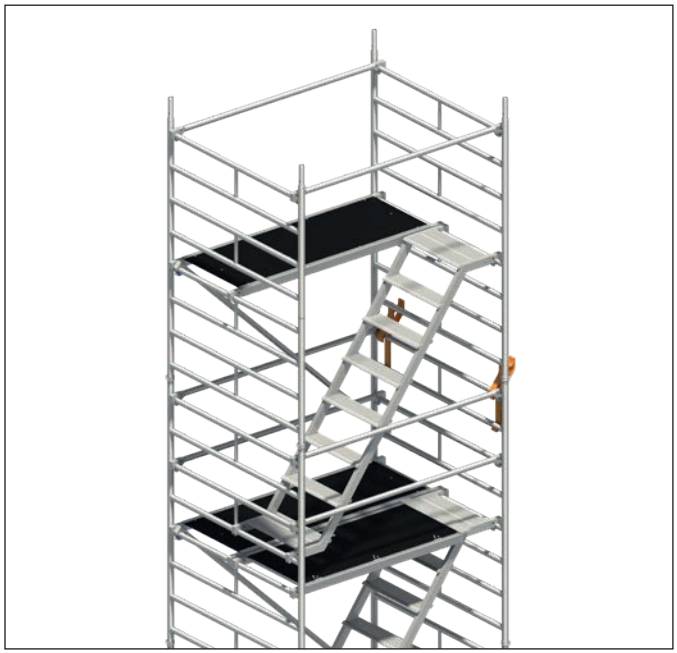
When dismantling, do not remove the bracing elements such as diagonal braces, guardrails, stairs or decks until the ladder frames above them have been dismantled.

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. Climb down the steps of the platform stair 8 through the access hatch intended for this purpose. Stand on the stair in the access hatch opening, protected from falls by the rails of the stair access deck 10 to dismantle the intermediate rails at a height of 0.5 m above the platform.



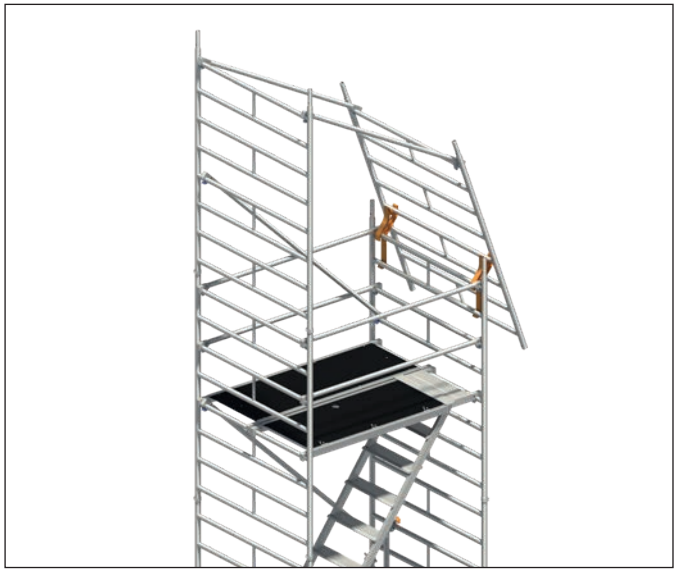
3. Install a guardrail 5 at a height of 1 m above the stair platform.

4. Move the guardrail 5 at the height of the top stair platform of the lower platform stair 8 to a height of 0.5 m above the stair platform.

5. Dismantle the stair guardrail 9 and stair guardrail 16.

6. Move the stair access deck to provide a temporary position for safe dismantling. Remove from the position of the upper platform stair 8 by opening the snap-on claws and removing it from the front area of the stair platform and then directly install it in the same area of the lower platform stair 8.

7. Assemble the stair guardrail 16 by engaging the snap-on claw at the third rung above the lower platform of the next platform stair 8 and then pinning the U-section in the stile of the previously relocated stair access deck 10.

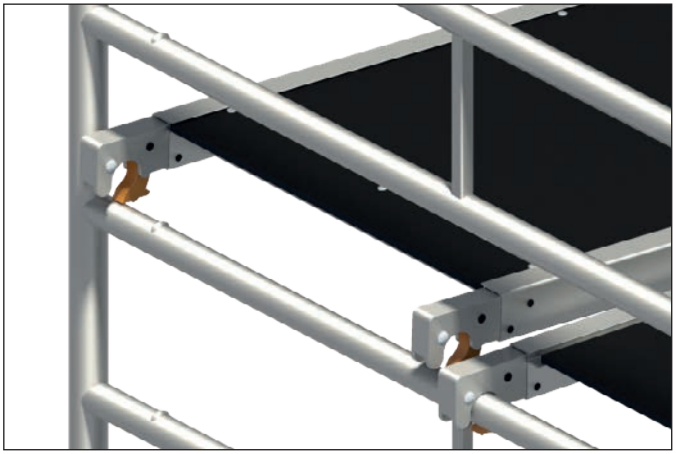


8. Dismantle the deck 11 and the platform stair 8.

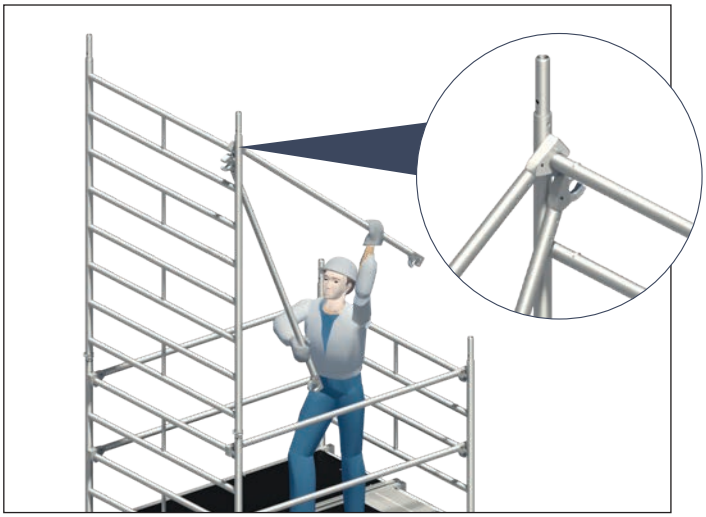
9. Install the assembly hooks.

10. On one side, position the 2-m ladder frame 4a in the two previously mounted assembly hooks.

11. Disengage the guardrails 5 on one side from the positioned ladder frame.



Thanks to their geometry, which was designed especially for the purpose, the **orange** 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.



12. Dismantle the guardrails 5 by opening the snap-on claw using one of the previously dismantled guardrails. Place the loose guardrail 5 from above onto the second rung and use it as a lever for opening the snap-on claw (see detail).

7. OUTRIGGER ATTACHMENT

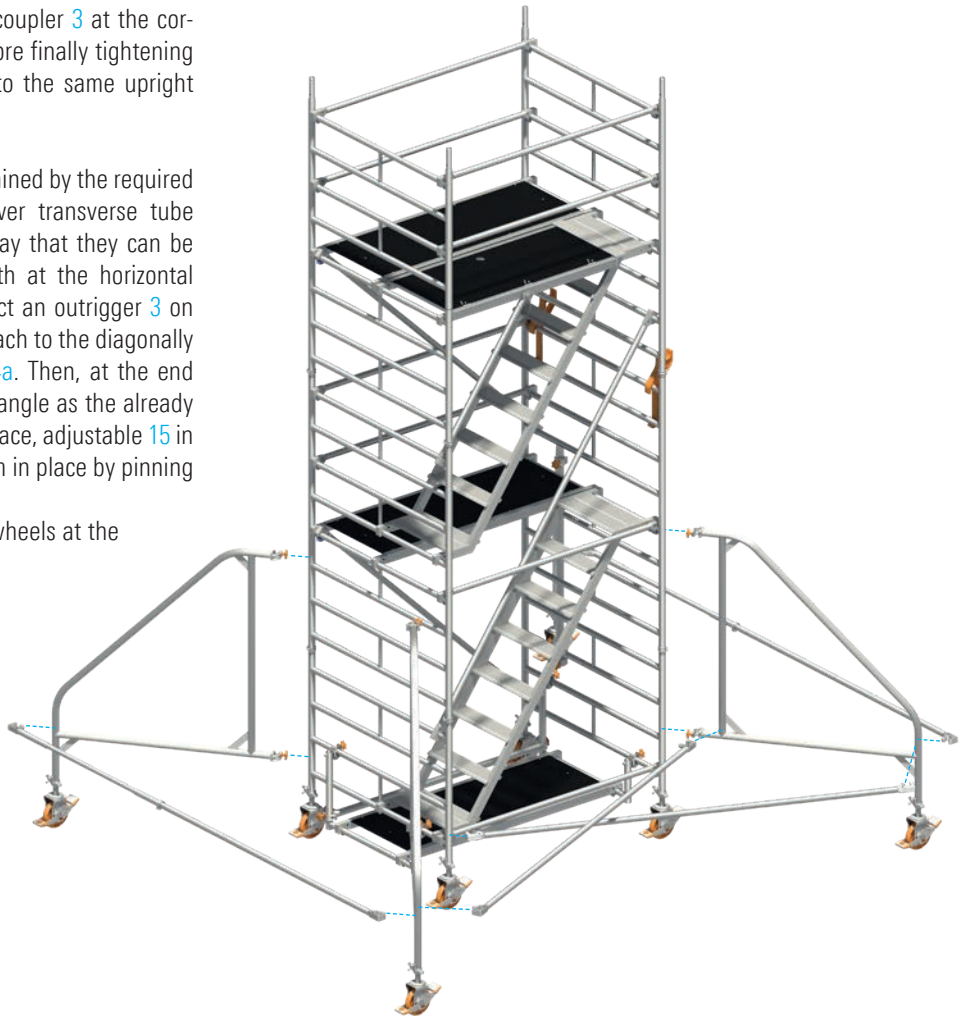
Models 4203 to 4206 / 4212 / 4222

In order to ensure the stability of the scaffolding types with outriggers 3 (see p. 11), the outriggers should be installed as early on during assembly as possible, i.e. as soon as the height required for installation of the outriggers is reached.

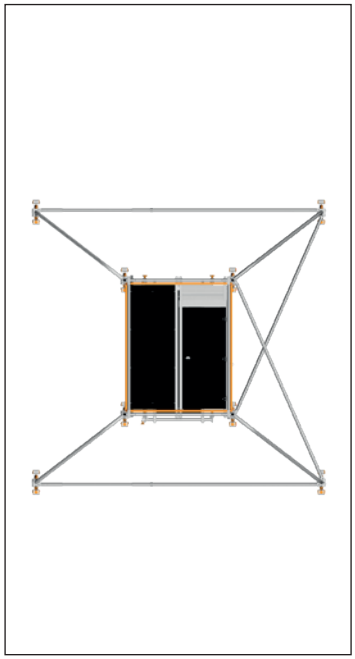
Attach an outrigger 3to each stile of the ladder frame 4 / 4a as follows. After an additional wheel 1 has been inserted at the bottom end of an outrigger 3, position the outrigger's top half-coupler 3 at the corresponding height at the ladder frame 4 / 4a. Before finally tightening the handwheels, attach the lower half-coupler to the same upright tube at the ladder frame 4 / 4a.

The orientation/angle of the outriggers are determined by the required stiffeners, which are positioned above the lower transverse tube of the outrigger 3 and are installed in such a way that they can be adjusted by pinning at the corresponding length at the horizontal diagonal brace, adjustable 15. First of all, connect an outrigger 3 on the long side at one horizontal diagonal brace 2 each to the diagonally positioned upright tube of the ladder frame 4 / 4a. Then, at the end faces, connect the two outriggers 3 at the same angle as the already attached outriggers 3 to the horizontal diagonal brace, adjustable 15 in such a way that they can be adjusted and fix them in place by pinning them through the closest through-hole.
After final positioning, you can tighten the handwheels at the half-couplers.

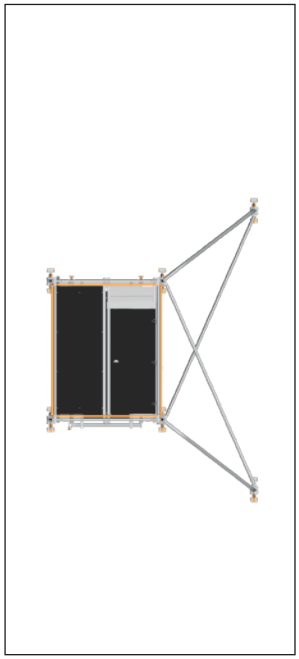
When assembly is performed against a wall, no outriggers 3 are installed on the wall side.



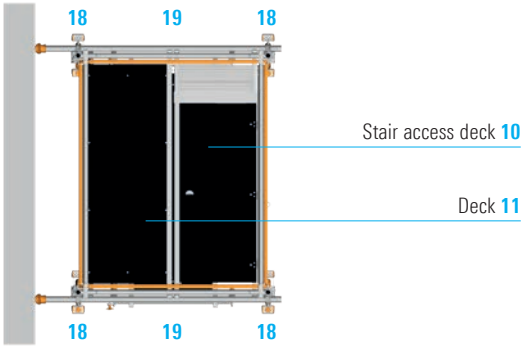
Free-standing assembly

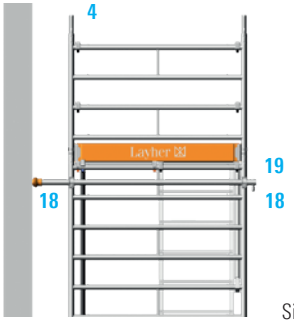


Assembly against a wall



8. Wall support





Side view

For work performed on a load-bearing wall, reduce the ballasting in accordance with the **Ballasting** table (see page 23). In this case, wall supports must be installed on both sides of the scaffolding.
Use the Uni distance tube 19 and fix it to the ladder frame 4 / 4a using two couplers 18 in each case.
Position the rubber mount on the wall to provide bracing.
Any outriggers that are required for the corresponding assembly type must be installed in such a way that they project at the side facing away from the wall. No outriggers are installed on the wall side (see Ballasting, p. 23).
The wall supports must be attached at the height of the top working platform or at most 1 m below that.

9. PARTS LIST

Scaffolding types
4201 – 4206

Models 4212 (outriggers on one side) and 4222 (outriggers on both sides) are intended for outdoor assembly. Outriggers installed for widening purposes are mounted as described on page 20.

Scaffolding type	Reference No.	4201	4202	4203	4204	4205	4206
Guardrail 1.80 m	1205.180	5	8	11	14	17	20
Diagonal brace 2.50 m	1208.180	1	2	3	4	5	6
Horizontal diagonal brace 2.95 m	1209.285	0	0	2	2	2	2
Platform stair 1.80 m	1212.180	1	2	3	4	5	6
Stairway guardrail 3.07 m	1213.180	0	1	2	3	4	5
Outrigger 1.50 m	1216.000	0	0	4	4	4	4
End toe board 1.44 m	1438.144	2	2	2	2	2	2
Toe board 1.80 m with claw	1439.180	2	2	2	2	2	2
Deck 1.80 m	1241.180	2	3	4	5	6	7
Stairway access deck 1.80 m	1243.180	1	1	1	1	1	1
Spring clip	1250.000	4	8	12	16	20	24
Wheel 700 – 7kN	1359.200	4	4	8	8	8	8
Ladder frame 150 / 4 – 1.00 m	1299.004	2	2	2	2	2	2
Ladder frame 150 / 8 – 2.00 m	1299.008	2	4	6	8	10	12
Horizontal diagonal brace, adjustable	1318.000	0	0	2	2	2	2
Base strut 1.80 m	1324.180	1	1	1	1	1	1
Stairway guardrail 1.20 m	1327.120	1	1	1	1	1	1
Access ledger 0.75 m	1344.003	2	2	2	2	2	2
Uni assembly hook	1300.010	1	1	1	1	1	1
Ballast	1249.000	For the number of ballasting weights see the ballasting table, p. 23					

10. BALLASTING

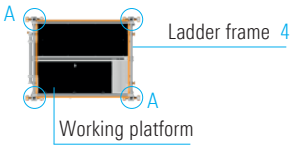
For ballasting, use Layher ballast weights 23, Ref. No. 1249.000 (10 kg each). Couplers with handwheel permit simple, quick and secure fixing of the ballast required at the correct places. Only these ballast weights are to be used, liquid or granular ballast materials must not be used. The ballast weights must be distributed evenly to all ballasting fixing points. The remainder not divisible by 4 must be distributed to the fixing points A.

Scaffolding type		4201	4202	4212	4222	4203	4204	4205	4206
For indoor use	without outrigger	0	6	(=4202)	(=4202)	Δ	X	X	X
	outriggers on both sides	Δ	Δ	(=4222)	0	0	0	0	0
	outriggers on one side	Δ	Δ	0	(=4212)	2	2	4	8
	outriggers on one side with wall support	Δ	Δ	0	(=4212)	0	2	4	8
For outdoor use	without outrigger	4	18	(=4202)	(=4202)	Δ	X	X	X
	outriggers on both sides	Δ	Δ	(=4222)	4	20	X	X	X
	outriggers on one side	Δ	Δ	10	(=4212)	26	X	X	X
	outriggers on one side with wall support	Δ	Δ	10	(=4212)	26	X	X	X

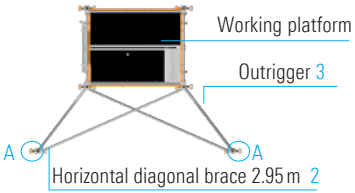
The table gives the number of ballast weights of 10 kg each (Ref. No. 1249.000).
0 = no ballast required. (=42xx) = See column for the designated model
X = not permissible Δ = assembly only possible with additional components and following consultation with the manufacturer

Attachment of ballast weights
◯ = Fixing points for ballast weights
A = Fixing points for the remainder not divisible by 4 (ballast weight)

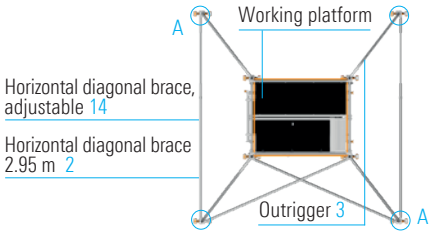
Without outriggers (plan view)



With outriggers on one side (plan view)



With outriggers on both sides (plan view)



11. COMPONENTS OF THE SYSTEM

1

1359.200 Wheel 700 — 7kN
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.

2

1209.285 Horizontal diagonal brace
Aluminium

3

1216.000 Outrigger
Aluminium, for widening the base of higher structures, locking mechanism with horizontal diagonal brace, Ref. No. 1209.285.

4 / 4a

1299.004 Ladder frame 150/4 — 1 m
Aluminium, rungs with non-slip grooving.

1299.008 Ladder frame 150/8 — 2 m
Aluminium, rungs with non-slip grooving.

5

1205.180 Guardrail
Aluminium

6

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

7

1208.180 Diagonal brace
Aluminium

8

1212.180 Platform stair
Aluminium

9

1213.180 Stair guardrail
Aluminium, for use with platform stair, Ref. No. 1212.180

10

1243.180 Stair access deck
Aluminium frame, with deck and plywood hatch with phenol

11

1241.180 Deck
Aluminium frame, with plywood deck with phenolic resin coating

12

1250.000 Spring clip
Steel

13

1439.180 Toe board with claw
Wood

14

1438.144 End toe board
Wood

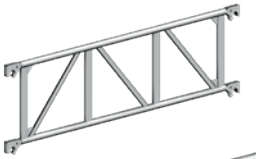
15

1318.000 Horizontal diagonal brace, adjustable
Aluminium

16

1327.120 Stair guardrail
Aluminium

17



1207.180 Support
Aluminium for use as support element in scaffolding construction kit or as double side protection.

18

4700.019 Double coupler
Steel, galvanised.

19

1275.180 Uni distance tube
Aluminium tube with hook and rubber mount.

20

1344.003 Access ledger 0.75 m
Aluminium

21

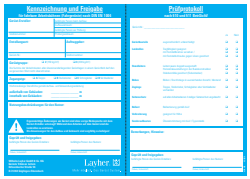
1300.010 Uni assembly hooks
polyethylene,
set of 2.
weight 1.2 kg.

22

1324.180 Basic strut
with 2 half-couplers, steel tube, hot-dip-galvanised

23

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



6344.400 Tower identification block
Block consisting of 50 units.

6344.010 See-through pocket
for Ref. No. 6344.400, with integr. prohibition sign

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.

Layher®

More Possibilities. The Scaffolding System.

Wilhelm Layher GmbH & Co KG
Scaffolding Grandstands ladders

Ochsenbacher Strasse 56
74363 Gueglingen-Eibensbach
Germany

Post box 40
74361 Gueglingen-Eibensbach
Germany
Phone +49 (0)71 35 70-0
Fax +49 (0)71 35 70-2 65
E-Mail info@layher.com
www.layher.com

Edition 04.2022 Version 4

Ref. No. 8107.236