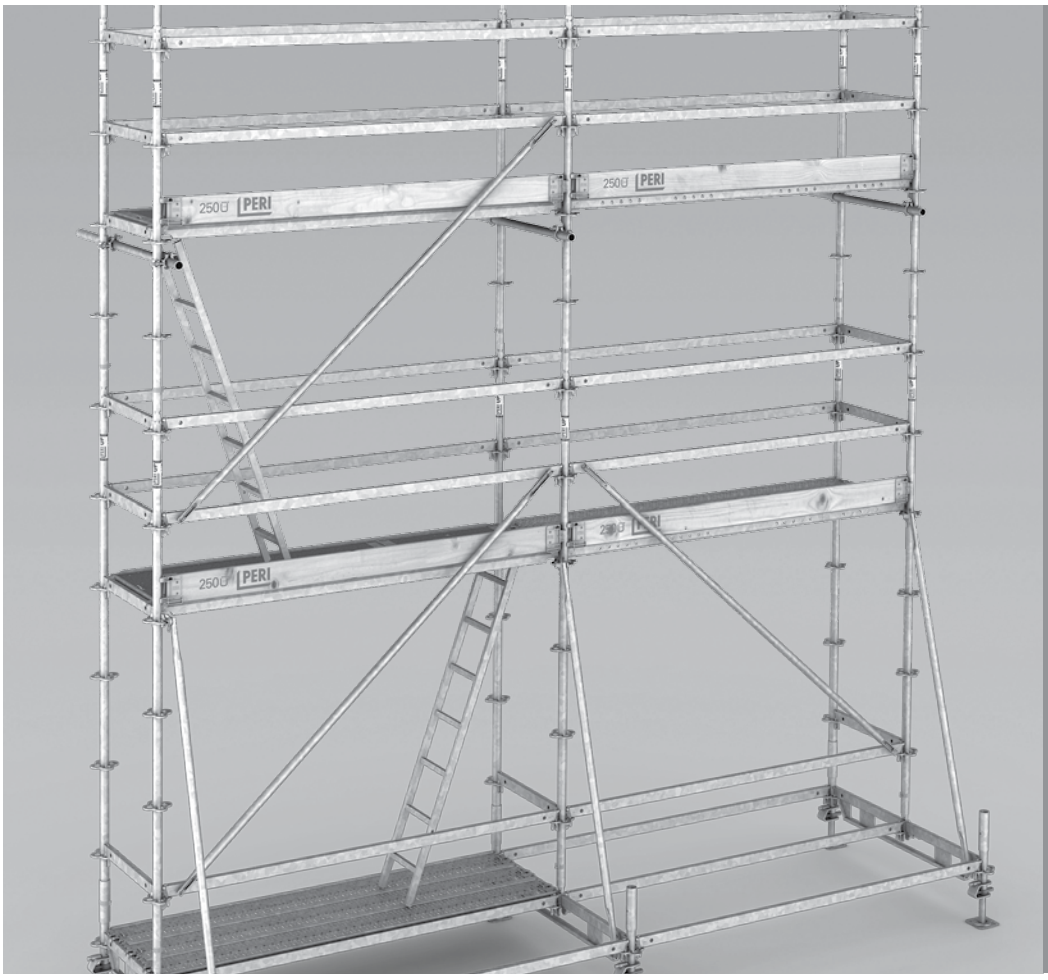
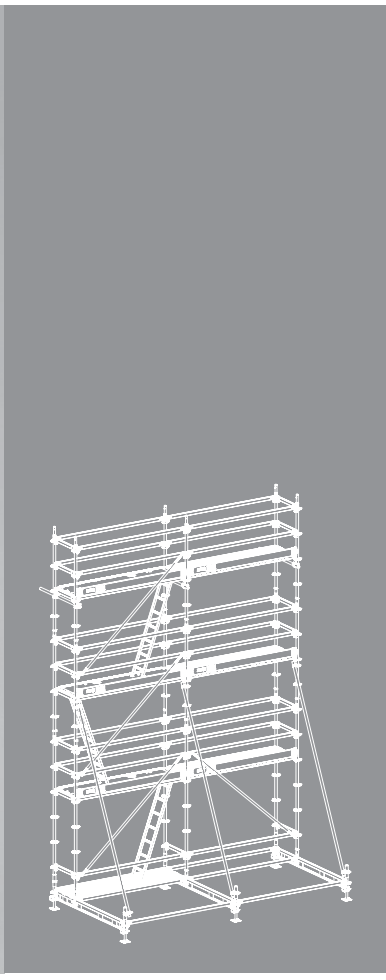
PERI UP Flex

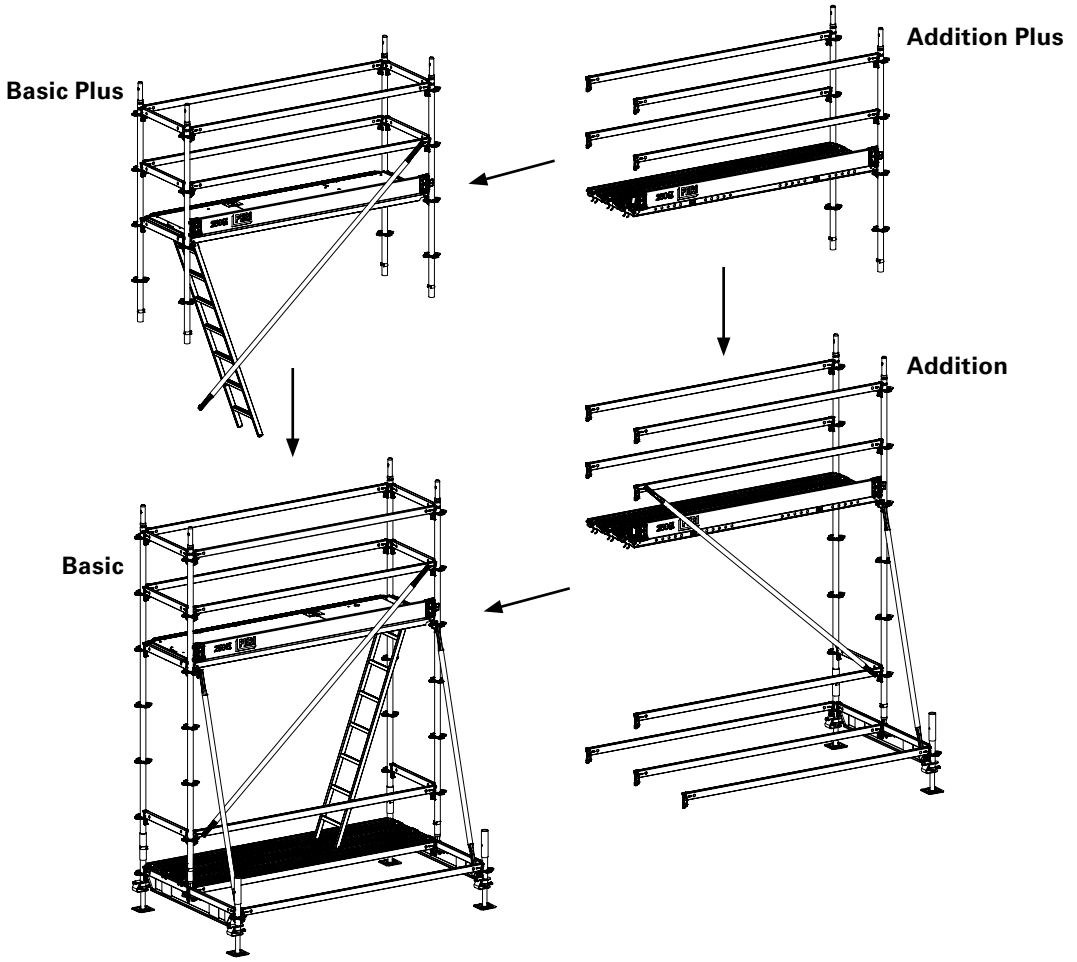
Reinforcement Scaffold 75 and 100

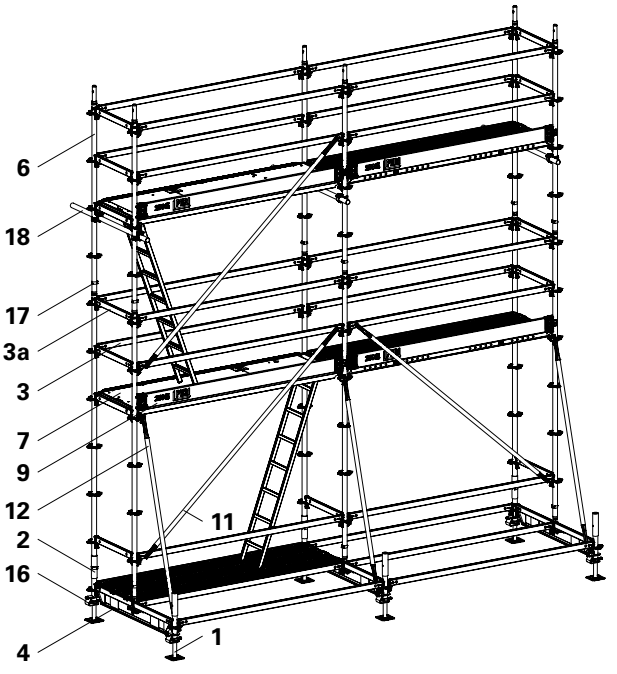
Instructions for Assembly and Use – Standard Configuration – Issue 04/2018





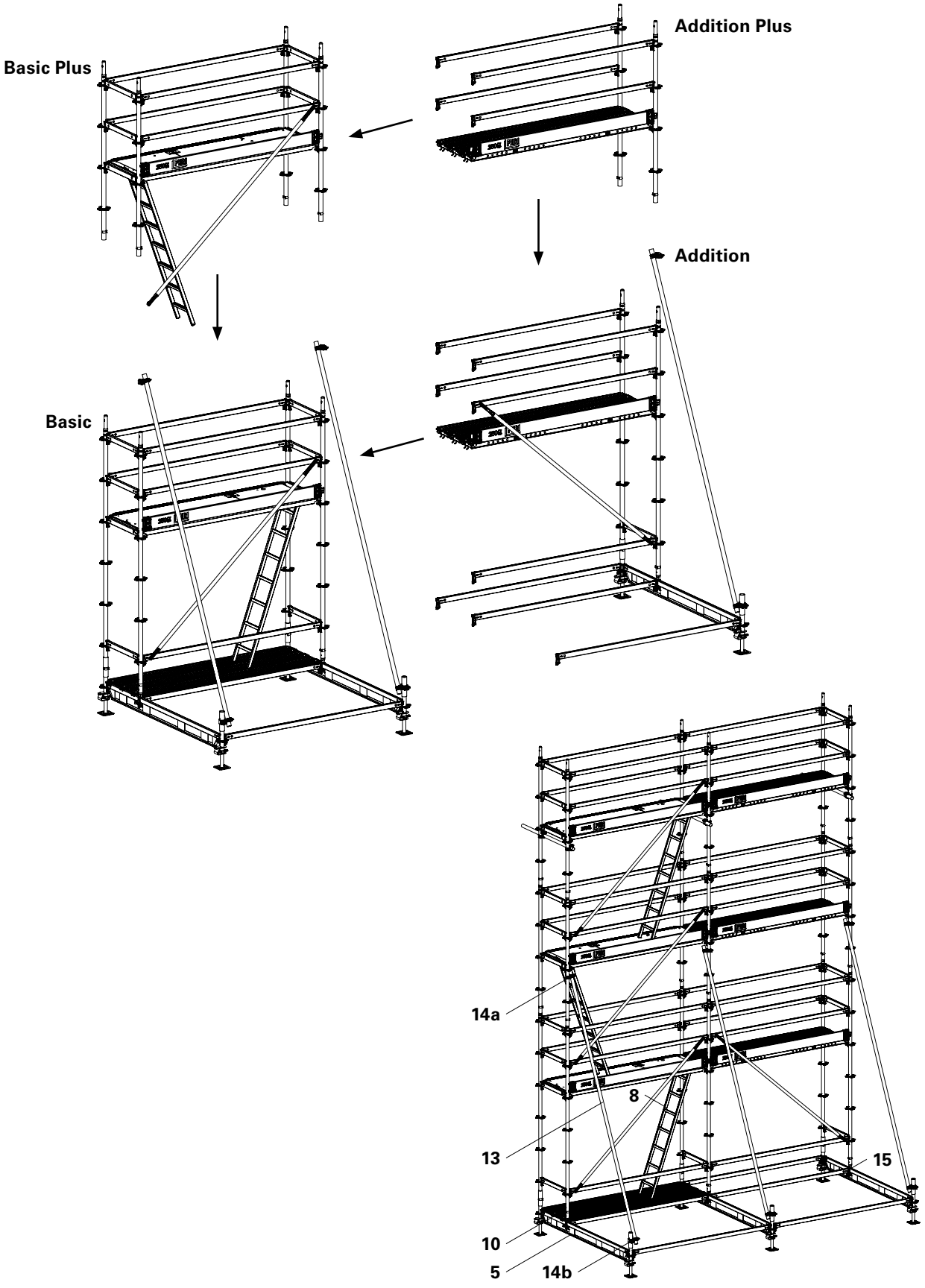
Base width 150, Ledger Heavy Duty UHV 150 Plus





Content

Base width 250 cm, Ledger Heavy Duty UHV 250 Plus



Main components

1 Adjustable Base Plate UJB
2 Base Standard UVB 24
3 Ledger UH Plus [1)]
3a Ledger UH 75 Plus [1)]
4 Ledger UHV 150 Plus
5 Ledger UHV 250 Plus
6 Standard UVR
7 Access Deck UAL-3 75 x 250/3
8 Ladder Flex UEL with Hook
9 Toeboard Wood UPF [2)]
10 Steel Deck UDG [3)]
11 Ledger Brace UBL
12 Node Brace UBK
13 Steel Scaffold Tube Ø 48.3 x 3.2
14a Swivel Coupling DK 48/48, galv.
14b Swivel Coupling DK 48/60, galv.
15 Ledger to Ledger Coupler UHA Half with Spigot
16 Spindle Locking UJS
17 Locking Pin Ø 48/57
18 Pressure Support (Steel Scaffold Tube Ø 48.3 x 3.2 + Standard Coupler NK 48/48)

[1)] Alternatively, the Ledger UH Plus can also be used instead of the Ledger UH.
[2)] Alternatively, the Toeboard Steel UPY can also be used instead of the Toebaord Wood UPF.
[3)] Alternatively, Industrial Decks UDI can be used instead of Steel Decks UDG.

Note
Item numbers beginning with the numbers 3 and 4 are only available as rental or used items.

Overview

Key

Pictogram | Definition

 Danger / Warning / Caution

 Information

 To be complied with

 Tip

Arrows

- Arrow representing an action
- Arrow representing a reaction of an action*
- Forces

* if not identical to the action arrow.

Safety instruction categories
The safety instructions alert site personnel to the risks involved and provide information on how to avoid these risks. Safety instructions are featured at the beginning of the section or ahead of the instructions, and are highlighted as follows:

Danger
This sign indicates an extremely hazardous situation which, if not avoided, will result in death or serious injury.

Warning
This sign indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Caution
This sign indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Information
This sign indicates warning of situations whereby failure to observe the information can result in material damage.

Set-up of the safety instructions

Signal word
Type and source of the danger!
Consequences of non-compliance.
⇒ Avoidance measures

Dimension specifications
Dimensions are usually given in cm. Other measurement units, e.g. m, are shown in the illustrations.

Conventions
- Instructions are numbered with: 1. ....., 2. ....., 3. .....
- The result of an instruction is shown by: →
- Position numbers are clearly provided for the individual components and are given in the drawing, e.g. **1**, in the text in brackets, for example (1).
- Multiple position numbers, i.e. alternative components, are represented with a slash: e.g. **1 / 2**.

Presentational reference
The illustration on the front cover of these instructions is understood to be a system representation only. The assembly steps presented in these Instructions for Assembly and Use are shown in the form of examples with only one component size. They are valid accordingly for all component sizes contained in the standard configuration.

For a better understanding, detailed illustrations are partly incomplete. Safety installations which have possibly not been included in these detailed drawings must nevertheless still be available.

Target groups

Contractors
These Instructions for Assembly and Use are designed for contractors who use the scaffolding either for
- assembling, modifying and dismantling purposes, or use
- it, e.g. for concreting, or
- who have it used, e.g. for forming operations.

Competent person
(Construction Site Coordinator)
The Safety and Health Protection Coordinator*
- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health plan,
- coordinates the protective measures for the contractor and site personnel so that they do not endanger each other,
- monitors compliance with the protective measures.

Competent person qualified to carry out inspections
Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the competent person qualified to carry out inspections has a reliable understanding of safety-related issues and can correctly carry out inspections. Depending on the complexity of the test to be undertaken, e.g. scope of testing, type of testing or the use of certain measuring devices, a range of specialist knowledge is necessary.

Qualified persons
The scaffolding may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. For the work to be carried out, the qualified persons must have received instructions** covering at least the following points:
- Explanation of the plan for the assembly, modification or dismantling of the scaffolding in an understandable form and language.
- Description of the measures in order to safely assemble, modify or dismantle the scaffolding.
- Designation of the preventive measures to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the scaffolding as well as the personnel concerned.
- Details regarding the permissible loads.
- Description of any other risks that are associated with the assembly, modification or dismantling procedures.

- **In other countries, ensure that the relevant national guidelines and regulations in the respective current version are complied with!**
- **If no country-specific regulations are available, it is recommended to proceed according to German guidelines and regulations.**
- **A competent person must be present on site during scaffolding operations.**

* Valid in Germany: Regulations for Occupational Health and Safety on Construction Sites 30 (RAB 30)

** Instructions are given by the contractor himself or a competent person selected by him.

Additional technical documentation

- Approvals:
  – Approval Z-8.22-863 PERI UP Flex Modular System
  – Approval Z-8.1-957 PERI UP Easy Scaffold System

- Instructions for Assembly and Use:
  – PERI UP Flex Core Components
  – PERI UP Flex Stairs 75

- Brochures:
  – PERI UP for Building Construction Projects

- Instructions for Use:
  – Pallets and Stacking Devices

Introduction

Intended use

Product description
PERI products have been designed for exclusive use in the industrial and commercial sectors by qualified personnel only.

These Instructions for Assembly and Use are based on the Approval "Z-8.22-863 PERI UP Flex Modular System".

They describe the standard configuration for a reinforcement scaffold as shoring for allowing temporary work to be carried out on higher positioned working areas.

Features
The system is based on PERI UP Flex Modular Scaffold with supplementary components.

Used as working scaffold in Load Class 1-3 according to EN 12811-1:
0.75 - 2.00 kN/m².

It fulfils wind load requirements according to DIN EN 1004 and DIN EN 12811
– for free-standing scaffold according to DIN EN 1004: q = 0.1 kN/m² (v = 12.7 m/s),
– for scaffolds with base width 150 or 250 cm deviating from DIN EN 1004 in accordance with DIN EN 12811: q = 0.2 kN/m² (v = 17.9 m/s),
– different assembly variations with up to 3 bays in longitudinal direction.

Ballast is not required as long as the scaffolding is positioned in front of a wall or formwork and can be supported by this. Units can be moved by crane due to the extremely tight connections.

System dimensions
System width: 75 cm and 100 cm
Storey height: 200 cm
Scaffold bay lengths:
150/200/250/300 cm
Max. height with:
base width 150 cm: H ≤ 660 cm
base width 250 cm: H ≤ 1080 cm
(H = underside of spindle up to level of top deck)

Instructions on use

The use in a way not intended according to the Instructions for Assembly and Use, or any use deviating from the standard configuration or the intended use represents a misapplication with a potential safety risk, e.g. risk of falling.

Deviations from the standard configuration must be verified for the application by means of separate strength and stability calculations. (Industrial Safety Regulation Appendix 1, No. 3.2.1 and explicitly reflected in the assembly instructions.)

In addition to original PERI UP Flex scaffolding components, the following original PERI UP scaffold components are used for the assembly:
these must be marked with the corresponding German approval numbers
– Z-8.1 – 957 for PERI UP Easy
– Z-8.22 – 863 for PERI UP Flex
as well as with the mark of conformity <Ü>.
The use of other products and spare parts is not allowed.
Changes to PERI components are not permitted.

Cleaning and maintenance instructions

Clean the panels after each use to maintain the value and usability of the PERI products over the long term.

Some repair work may also be inevitable due to the tough working conditions. The following points should help to keep cleaning and maintenance costs as low as possible.

Do not clean powder-coated or galvanized components with steel brushes or metal scrapers.

Mechanical components, e.g. spindles, must be cleaned of dirt or concrete residue before and after use, and then greased with a suitable lubricant.

Provide suitable support for the components during cleaning so that no unintentional change in their position is possible.

Do not clean components suspended on crane lifting gear.

Any repairs to PERI products are to be carried out by PERI qualified personnel only.

Cross-system

General
The scaffolding contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and are understood by the site personnel.

These Instructions for Assembly and Use can be used as the basis for creating a risk assessment. The risk assessment is compiled by the scaffolding contractor. However, these Instructions for Assembly and Use do not replace the risk assessment!

Always take into consideration and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, the current safety regulations and guidelines valid in the respective countries must be observed.

Materials and working areas are to be inspected on a regular basis, especially before each use and assembly, for:
- signs of damage,
- stability and
- function.

Damaged components must be exchanged immediately on site and may no longer be used.

Safety components are to be removed only when they are no longer required.

Components provided by the contractor must conform with the characteristics required in these Instructions for Assembly and Use as well as all valid construction guidelines and standards. Unless otherwise indicated, this applies in particular to:
- timber components: Strength Class C24 for Solid Wood according to EN 338.
- scaffold tubes: galvanised steel tubes with minimum dimensions of Ø 48.3 x 3.2 mm according to * EN 12811-1:2003 4.2.1.2.
- scaffold tube couplings according to EN 74.

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor.
On the basis of this risk assessment, appropriate measures for working and operational safety as well as stability are to be determined.

Corresponding proof of stability can be provided by PERI on request if the risk assessment and resulting measures to be implemented are made available.

Before and after exceptional occurrences that may have an adverse effect regarding the safety of the scaffolding system, the contractor must immediately
- create an additional risk assessment, with appropriate measures for ensuring the stability of the formwork system being carried out based on the results,
- arrange for an extraordinary inspection to be carried out by a competent person qualified to do so. The aim of this inspection is to identify and rectify any damage in good time in order to guarantee the safe use of the scaffolding system.

Exceptional occurrences can include:
- accidents,
- longer periods of non-use,
- natural events, e.g. heavy rainfall, icing, heavy snowfall, storms or earthquakes.

Assembly, modification and dismantling work
Assembly, modification or dismantling of scaffolding systems may only be carried out by qualified persons and under the supervision of a competent person. The qualified persons must have received appropriate training for the work to be carried out with regard to specific risks and dangers.

On the basis of the risk assessment and Instructions for Assembly and Use, the scaffolding contractor must create installation instructions in order to ensure safe assembly, modification and dismantling of the scaffolding system.

Before initial use, the safe functioning of the scaffold must be checked by a person qualified to carry out the inspection. The results of the inspection must be documented in an inspection record.

The scaffolding contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the scaffolding, e.g.
- safety helmet,
- safety shoes,
- safety gloves,
- safety glasses,

is available and used as intended.

If personal protective equipment (PPE) against falling from a height is required or specified in local regulations, the scaffolding contractor must determine appropriate attachment points on the basis of the risk assessment.
The PPE to prevent falling to be used is determined by the contractor.

The contractor must
- provide safe working areas for site personnel which are to be reached through the provision of safe access ways. Areas of risk must be cordoned off and clearly marked.
- ensure the stability during all stages of construction, in particular during assembly, modification and dismantling work.
- ensure and prove that all loads can be safely transferred.

Utilisation
Every contractor who uses or allows the scaffolding system or sections of the scaffolding system to be used, has the responsibility for ensuring that the equipment is in good condition.

If the scaffolding system is used successively or at the same time by several contractors, the health and safety coordinator must point out any possible mutual hazards, and all work must be then coordinated.

System-specific

Only use approved lifting gear.

In the case of a storm warning, additional measures are to be taken to supplement the available information.

Enclosure of the scaffolding or mounting of additional surfaces which are exposed to the influences of the wind changes the stability and must therefore be checked. If necessary, additional measures must be implemented.

The load-distributing support used, such as planking, must match the respective base. If several layers are required, planks are to be arranged crosswise.

Close access hatches immediately after use.

Couplers with screw closure have to be tightened using 50 Nm. This corresponds to a force of 20 kg using a lever arm length of 25 cm.

Wedge couplers are to be securely fitted using a 500 g hammer.

Storage and transportation

Store and transport components ensuring so that no unintentional change in their position is possible. Detach lifting accessories and slings from the lowered components only if they are in a stable position and no unintentional change is possible.

Do not drop the components.

Use PERI lifting accessories and slings as well as only those load-bearing points provided on the component.

During the moving procedure
- ensure that components are picked up and set down so that unintentional falling over, falling apart, sliding, falling down or rolling is avoided.
- no persons are allowed to remain under the suspended load.

Always guide pre-assembled scaffolding bays, scaffolding units or scaffolding sections with ropes when moving them by crane (see Section D1).

The access areas on the construction site must be free of obstacles and tripping hazards as well as being slip-resistant.

For transportation, the surface used must have sufficient load-bearing capacity.

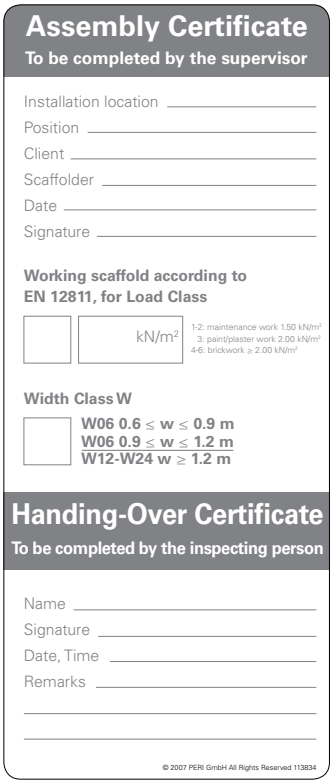
Use original PERI storage and transport systems, e.g. crate pallets, pallets or stacking devices.

Identification markings

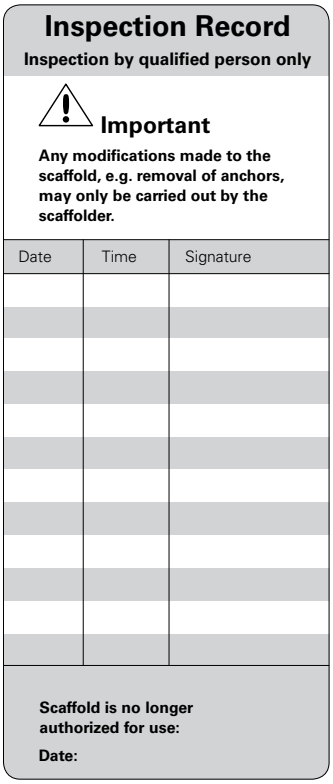
In carrying out required work, the following signs are to be observed:
If certain parts of the scaffolding are not ready for use - especially during assembly, modification work and dismantling - a “No Entry” warning sign restricting access must be clearly displayed (see Sign 1).
In addition, the area must be adequately closed off in order to prevent access to these parts.

After assembly has been completed, all scaffold entry points must clearly display the designated sign. (Sign 2)
The signs do not replace the inspection record! (Sign 2, rear side)

Sign 1



Sign 2



Sign 2, rear side

Laws and regulations

- In Germany, during the assembly, modification and dismantling as well as the use of the scaffolding, accident prevention regulations and guidelines of the employer’s liability insurance associations along with national health and safety regulations must be taken into account, in particular:
- Product Safety Act (ProdSG)
- Guideline 2009/104/EC
- Operating Safety Regulation (BetrSichV)
- Statutory Accident Insurance (DGUV) Information 201-011
- BGV A1
- TRBS 2121
- TRBS 1203
- Regulations for Occupational Health and Safety on Construction Sites 30 (RAB 30)

The latest version in each case is applicable.

In other countries, ensure that the relevant national guidelines and regulations in the respective current version are complied with!

Inspection, hand-over and utilisation

The erected scaffolding must be inspected by the scaffolding contractor in order to determine that assembly has been carried out correctly. If the contractor is convinced that the scaffolding has been correctly erected, it can then be handed over to the user. It is advisable to carry out the hand-over together with the user and, for example, document this in a written report.

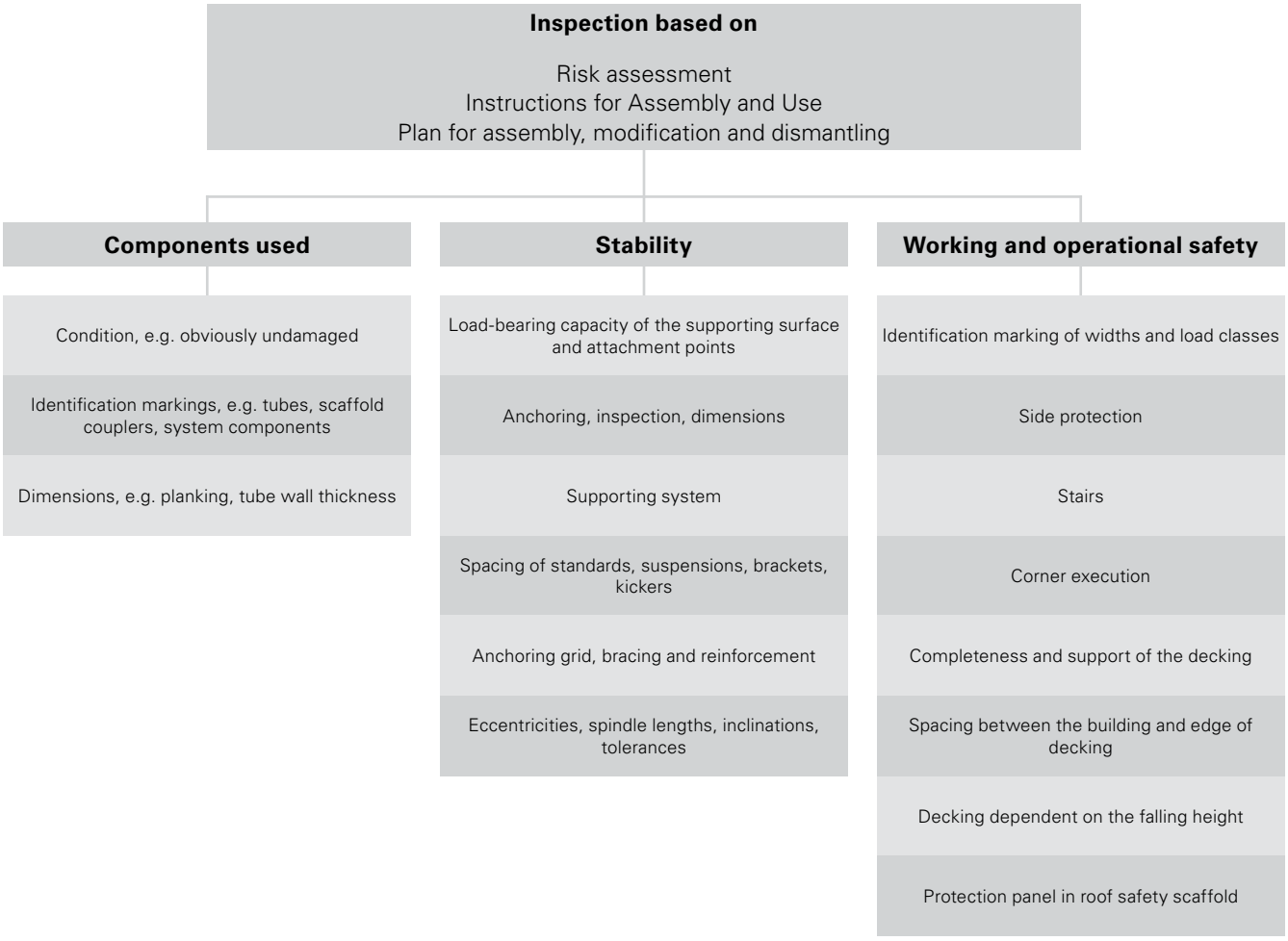
Warning

During the hand-over, the scaffold contractor must advise the user of any possible risks involved with non-intended use and his obligation to provide adequate prevention against risk and danger!

⇒ Put up safety and warning signs at the scaffold access points.

⇒ Hand-over a utilisation plan.

The contractor who uses the scaffolding must ensure that the scaffolds are maintained in proper condition and not arbitrarily altered in any way. In this respect, the qualified specialists must be instructed that if changes have obviously been made to the scaffolding construction during use, these must be reported to the respective competent person.



Source: based on TRBS 2121 Part 1

A1 Assembling the base with Ledger UHV 150

Base level

– Assembly of the reinforcement scaffold must always take place in front of a wall or secure formwork units!
– The surface used must have sufficient load-bearing capacity.

Pos.	Component	Qty.
1	Adjustable Base Plate UJB	4x
2	Base Standard UVB 24	4x
3	Ledger UH Plus	2x
4	Ledger UHV 150 Plus	2x
10	Steel Deck UDG	3x
16	Spindle Locking UJS	4x

Assembly

1. Assemble frame.
2. Horizontally align frame by adjusting the Adjustable Base Plates.
   Max. spindle adjustment range for
   – Base Plate UJB 38-50/30:
     ≤ 26 cm
   – Base Plate UJB 38-80/55:
     ≤ 39 cm
3. Establish perpendicularity of the base.
4. Secure wedges on all ledgers using a 500 g hammer.
   (Fig. A1.01a + A1.01b + A1.01c)
5. Insert Steel Deck UDG (10).
   → Lift-off prevention devices drop under the UH Ledger (4) and secure the decking.
6. Secure Adjustable Base Plate UJB with Spindle Locking UJS (16).
   (Fig. A1.01d)

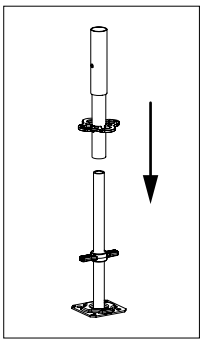


Fig. A1.01a

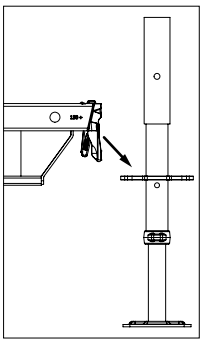


Fig. A1.01b

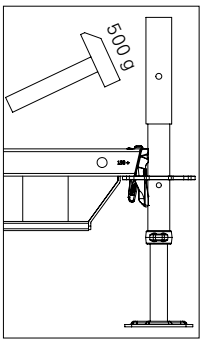


Fig. A1.01c

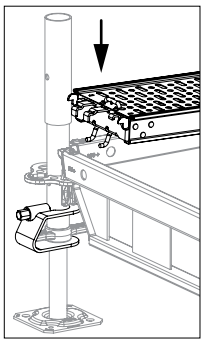


Fig. A1.01d

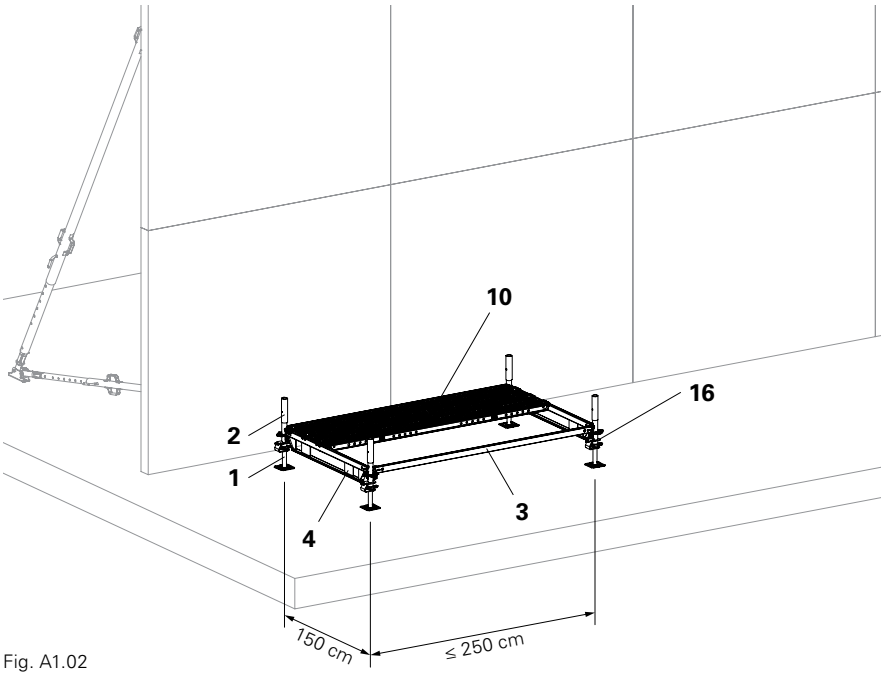


Fig. A1.02

A1 Assembling the base with Ledger UHV 150

Standards and Ledgers

Pos.	Component	Qty.
3	Ledger UH Plus	2x
3a	Ledger UH 75 Plus	4x
6	Standard UVR 300	4x
15	Ledger-to-Ledger Coupler UHA Half with Spigot	2x
17	Locking Pin Ø 48/57	4x

Assembly

1. Place Ledger-to-Ledger Coupler UHA (15) on the Ledger UHV 150 (4), do not yet secure wedges for alignment. (Fig. A1.03c)
2. Insert Standards UVR (6). (Fig. A1.03b)
3. Connect Base Standards UVB (2) and Ledger-to-Ledger Couplers UHA (15) with Standards UVR (6) by means of Locking Pins (17). (Fig. A1.03c)
4. Attach Ledgers UH (3) and securely fix with wedges. (Fig. A1.03a)
5. Securely fix wedges for Ledger to Ledger UHA (15).
6. Attach Ledgers UH 75 (3a) and securely fix wedges.

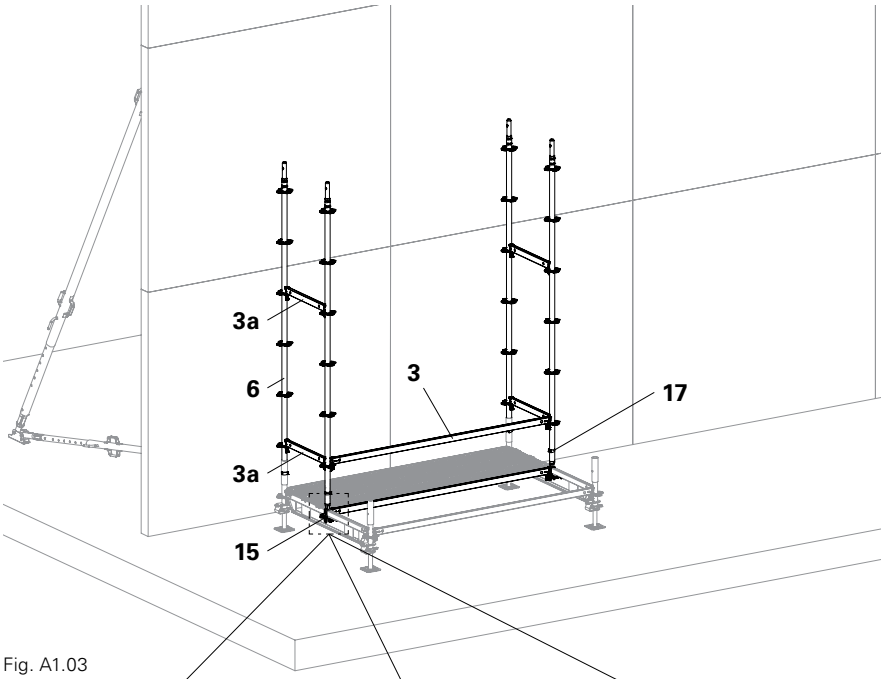


Fig. A1.03

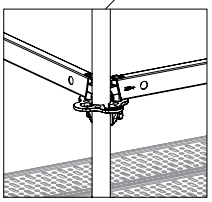


Fig. A1.03a

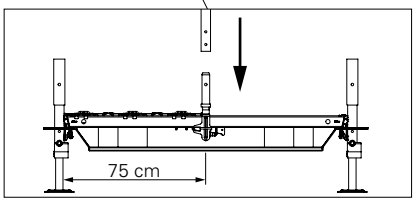


Fig. A1.03b

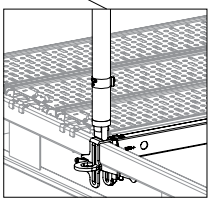


Fig. A1.03c

A1 Assembling the base with Ledger UHV 150

Attachment of base level

The base unit scaffolding can be extended by up to 2 additional bays.
Width of each bay: ≤ 300 cm.

Pos.	Component	Qty.
1	Adjustable Base Plate UJB	2x
2	Base Standard UVB 24	2x
3	Ledger UH Plus	2x
4	Ledger UHV 150 Plus	1x
16	Spindle Locking UJS	2x

Assembly

1. Place Adjustable Base Plates (1) in Base Standards (2) and attach Ledger UH (3) in the rosettes.
2. Mount on base level.
3. Horizontally align Addition by adjusting the Adjustable Base Plates (1).
4. Establish perpendicularity of the base.
5. Secure wedges on all Ledgers using a 500 g hammer.
6. Secure Adjustable Base Plate UJB with Spindle Locking UJS (16). (Fig. A1.04)

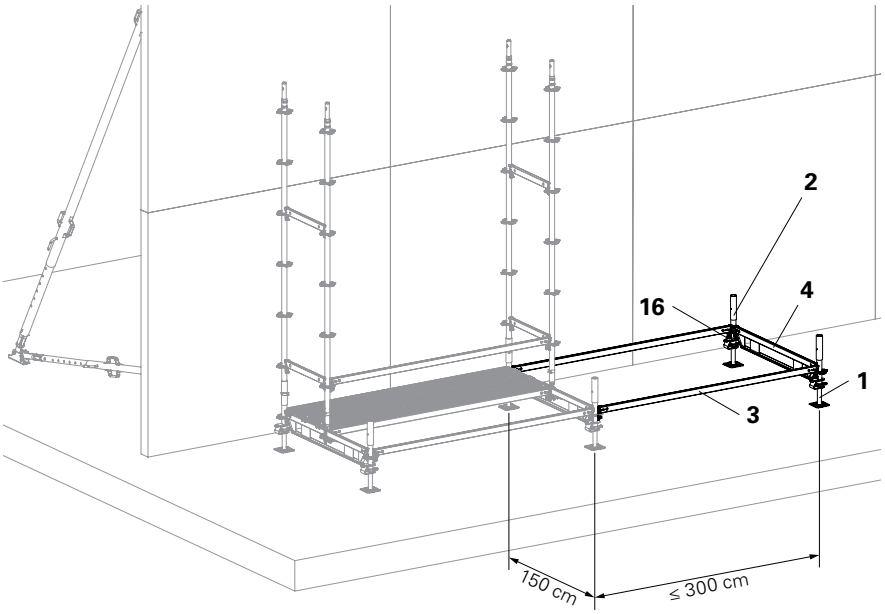


Fig. A1.04

A1 Assembling the base with Ledger UHV 150

Attachment of Standards and Ledgers

Pos.	Component	Qty.
3	Ledger UH Plus	2x
3a	Ledger UH 75 Plus	2x
6	Standard UVR 300	2x
15	Ledger-to-Ledger Coupler UHA Half with Spigot	1x
17	Locking Pin Ø 48/57	2x

Assembly

1. Place Ledger-to-Ledger Coupler UHA (15) on Ledger UHV (4), do not yet secure wedges for alignment.
2. Insert Standards UVR (6).
3. Connect Base Standards UVB (2) and Ledger-to-Ledger Coupler UHA (15) with Standards UVR (6) by means of Locking Pins (17).
4. Attach Ledgers UH (3) and securely fix wedges.
5. Attach Ledgers UH 75 (3a) and securely fix wedges.
   (Fig. A1.05)

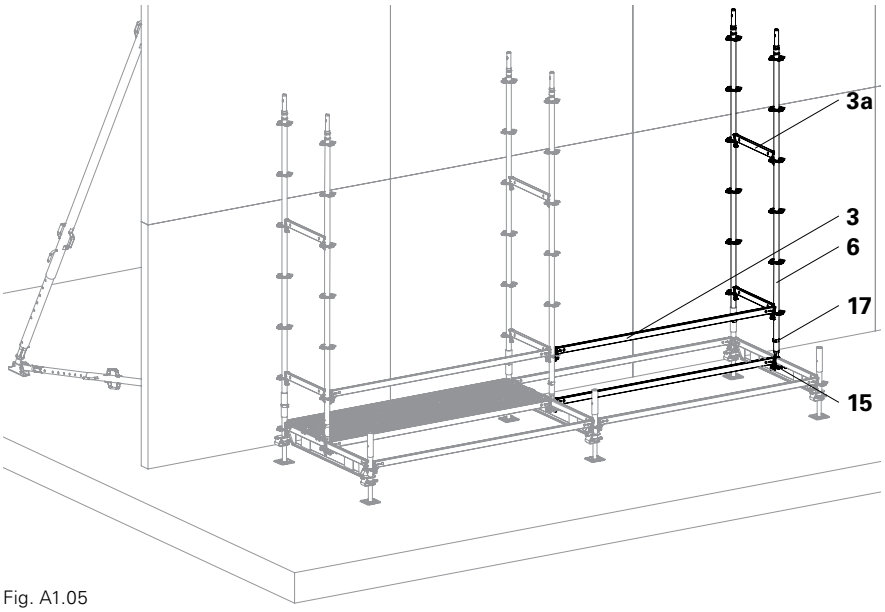


Fig. A1.05

A1 Assembling the base with Ledger UHV 150

Access decks, decking and guardrails

Warning
Risk of falling!
⇒ Use PPE to prevent falling.

Pos.	Component	Qty.
3	Ledger UH Plus	8x
3a	Ledger UH 75 Plus	4x
7	Access Deck UAL-3	1x
8	Ladder Flex UEL with Hook	1x
9	Toeboard Wood UPF	2x
10	Steel Deck UDG	3x

Assembly

1. Attach Access Deck UAL-3 (7). Standing position: below.
2. Insert Steel Deck UDG (10). Standing position: below.
   → Lift-off prevention devices drop under the UH Ledger (3a) and secure the decking.
3. Attach Ladder Flex UEL (8).
4. From the ladder:
   attach Ledger UH (3) to the outer side.
   From the decking:
   mount Ledgers as guardrails all the way round from outside to inside. Securely fix the wedges.
   (Fig. A1.06)
5. Attach Toeboard UPF (9) on the outside to the Standards. (Fig. A1.06a)

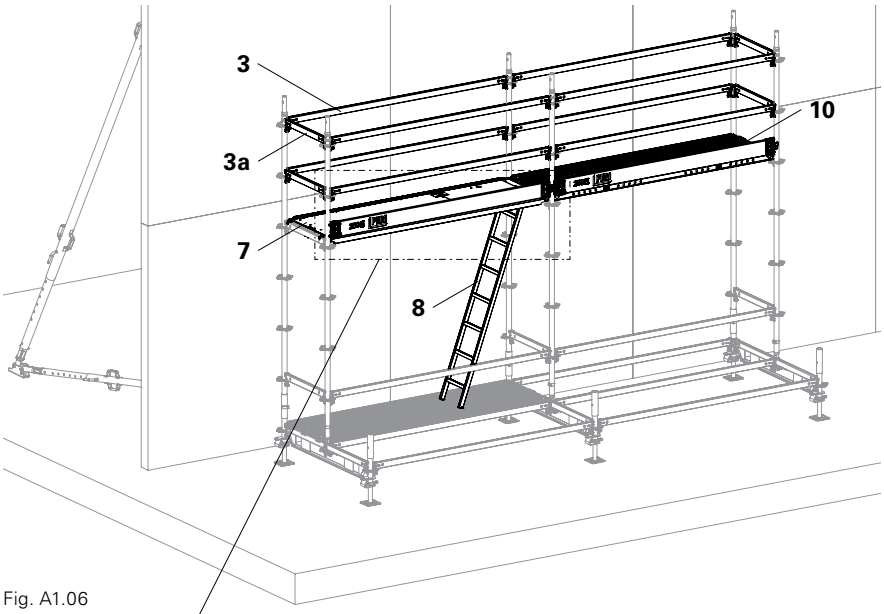


Fig. A1.06

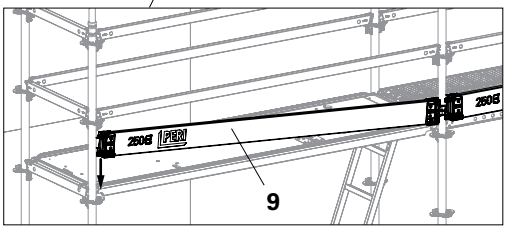


Fig. A1.06a

A1 Assembling the base with Ledger UHV 150

Stability

Warning

Risk of falling!

⇒ During the assembly work, keep the hatch closed.

Pos.	Component	Qty.
11	Ledger Brace UBL	2x
12	Node Brace UBK	3x

Assembly

1. Insert Ledger Brace UBL (11) with the lower finger in the bottom Ledger UH (3). (Fig. A1.07c + A1.07d)
2. Insert the gravity pin into the holes of the top Ledger UH (3), turn pin to secure. (Fig. A1.07e + A1.07f)
3. Mount Node Brace UBK (12) at top to Standard UVR (6). (Fig. A1.07a + A1.07b)
4. Mount Node Brace UBK (12) below on the Base Standard UVB (2).

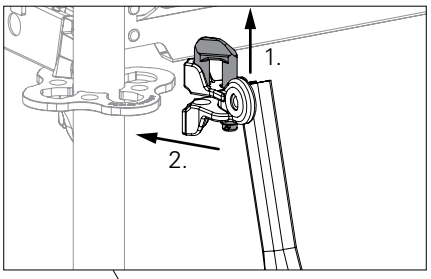


Fig. A1.07a

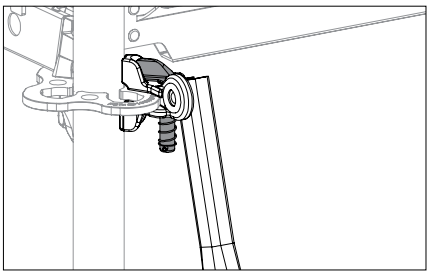


Fig. A1.07b

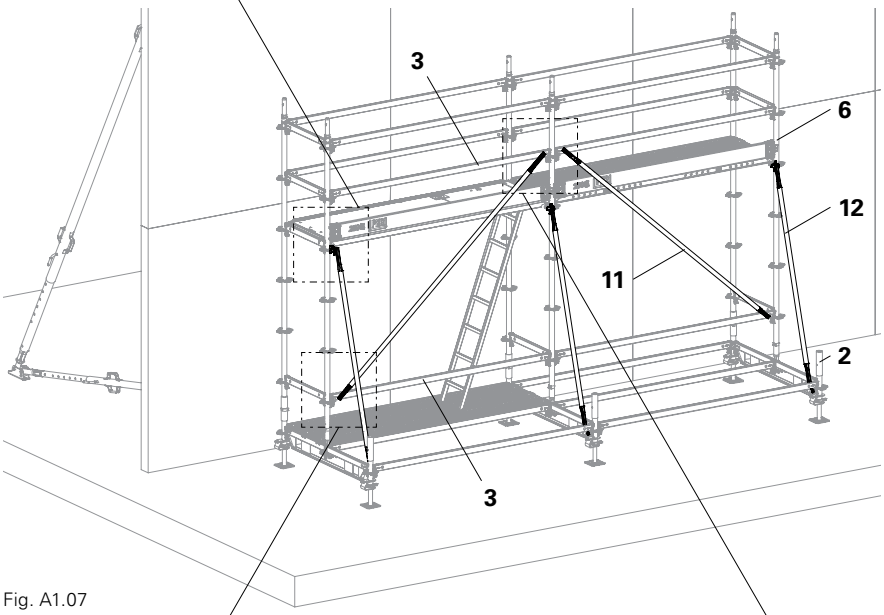


Fig. A1.07

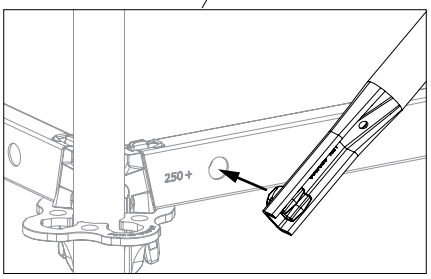


Fig. A1.07c

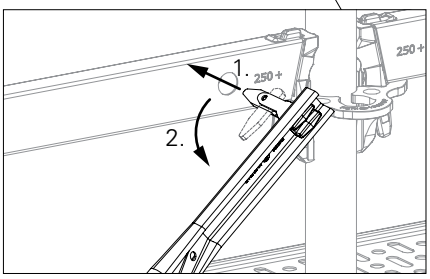


Fig. A1.07e

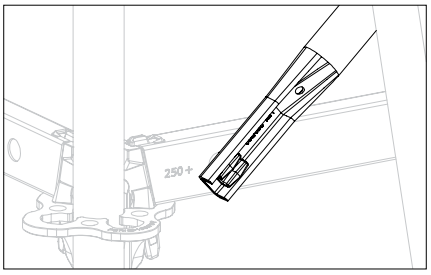


Fig. A1.07d

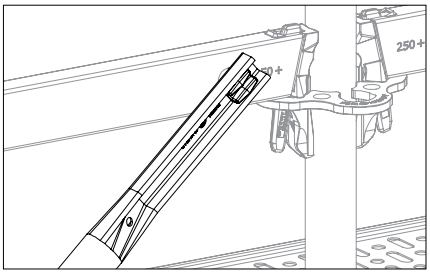


Fig. A1.07f

A2 Assembly of Extensions

Standards and Ledgers

Pos.	Component	Qty.
3a	Ledger UH 75 Plus	3x
6a	Standard UVR 200	6x
17	Locking Pin Ø 48/57	6x

Assembly

1. Insert Standards UVR (6a). Align legs in accordance with the holes.
2. Tightly connect Standards (6) (6a) by means of Locking Pins (17).
3. Attach Ledgers UH 75 (3a) and securely fix wedges. (Fig. A2.01)

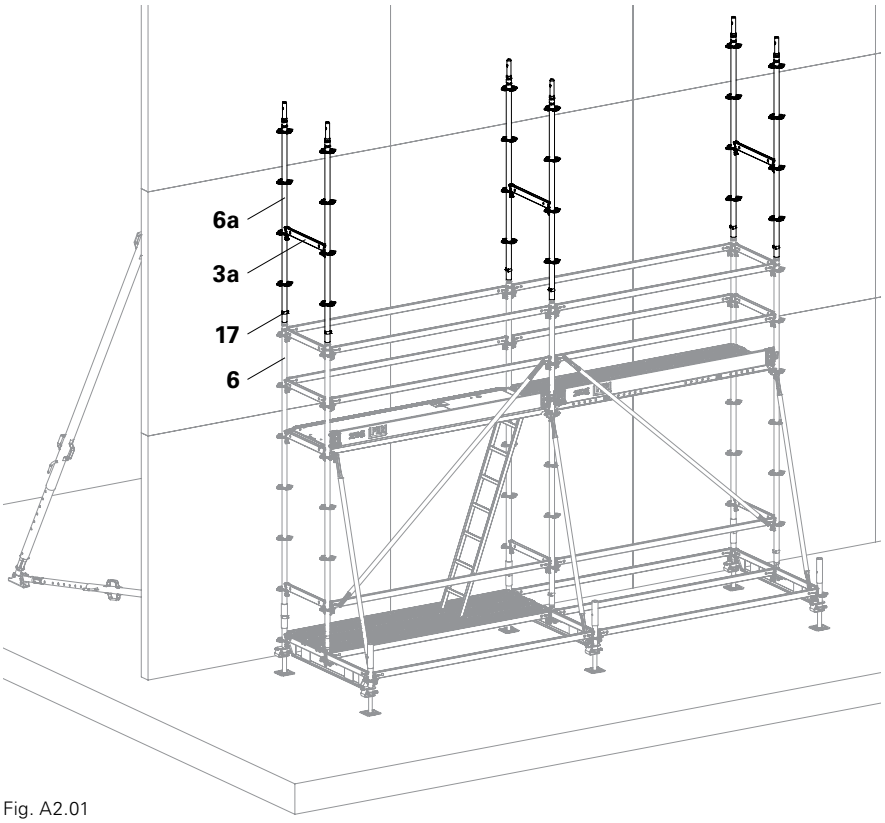


Fig. A2.01

Access decks, decking and guardrails

Warning
Risk of falling!
⇒ Use PPE to prevent falling.

Pos.	Component	Qty.
3	Ledger UH Plus	8x
3a	Ledger UH 75 Plus	4x
7	Access Deck UAL-3	1x
8	Ladder Flex UEL	1x
9	Toeboard Wood UPF	2x
10	Steel Deck UDG	3x
11	Ledger Brace UBL	1x

Assembly

1. Mount Access Deck UAL (7) and Steel Deck UDG (10) from below.
   → Lift-off prevention devices drop under the UH Ledger (3a) and secure the decking.
2. Attach Ladder Flex UEL (8).
3. From the ladder or a safe working position:
   attach Ledger UH 75 (3a) and UH (3) to the outer side.
   From the decking:
   mount ledgers as guardrails all the way round from outside to inside.
   Securely fix the wedges.
4. Attach Toeboard UPF (9) on the outside to the Standards.
5. Insert Ledger Brace UBL (11) with the lower finger into the bottom Ledger UH.
   Insert the gravity pin into the holes of the top ledger, turn pin to secure. (Fig. A2.02)

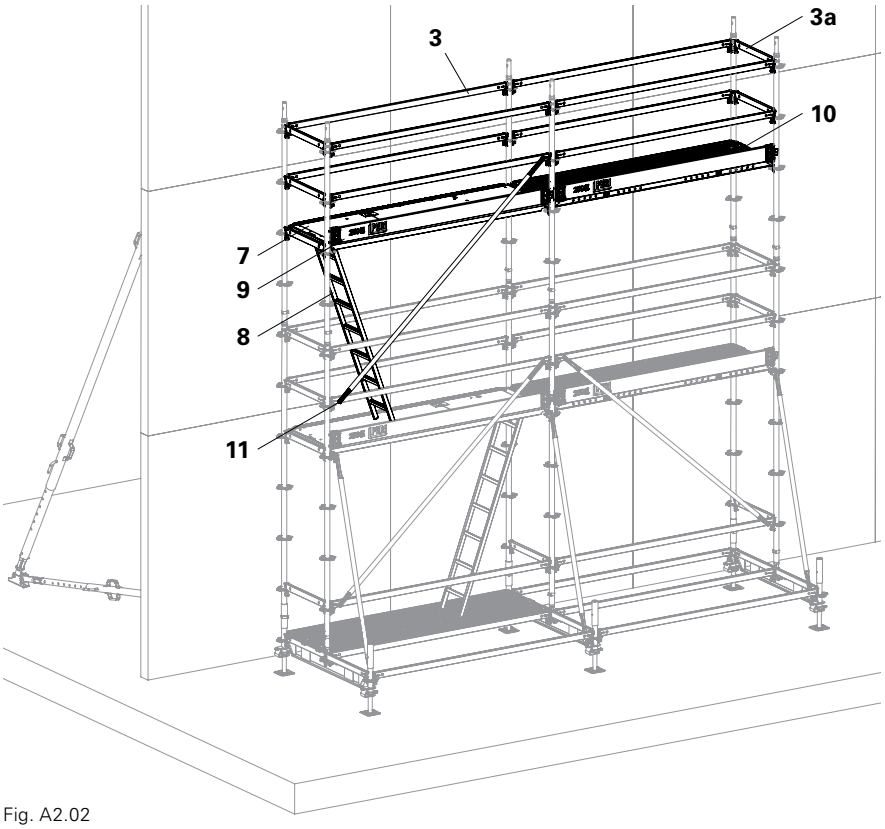


Fig. A2.02

A2 Assembly of Extensions

Additional levels

The number of extensions is limited to a maximum of 3 floors.
Max. standing height ≤ 660 cm.

Warning
Risk of falling!
⇒ During work operations, keep the hatch closed.

Assembly
Assembly process is repeated according to the steps on page 20 and 21.

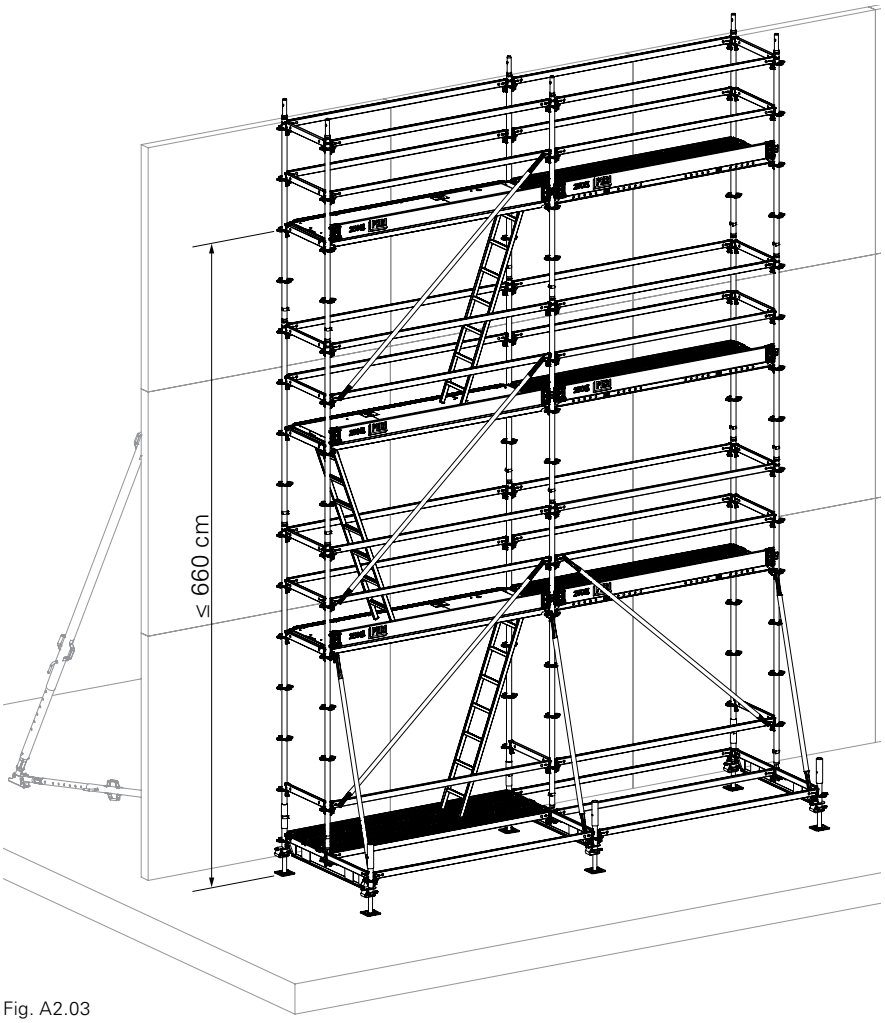


Fig. A2.03

A3 Pressure-resistant ties

Danger

Risk of injury!

⇒ The Adjustable Base Plate UJS (1) mst be secured to prevent falling out. (Fig. A3.01b)

Compression forces to the wall or formwork are to be verified on site by the contractor!

With standing heights of 424 cm and more, pressure-resistant ties are to be mounted on all standards – directly under the highest deck level – and positioned up against the wall or formwork.

Pos.	Component	Qty.
13	Steel Scaffold Tube Ø 48.3 x 3.2	3x
19	Standard Coupling NK 48/48	6x

Assembly

Directly under highest deck level.

1. Securely fix the scaffold tube (13) to the Standard UVR using standard couplers (19).
2. Adjust distance of scaffold tube from the wall.
   (Fig. A3.01a)

PERI recommends inserting an Adjustable Base Plate UJS (1) into the scaffold tube if the distance to the wall must be adjusted more often. Secure Adjustable Base Plates against falling out. (Fig. A3.01b)

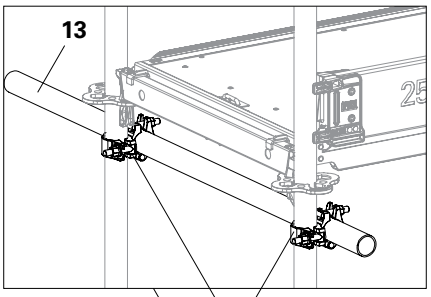


Fig. A3.01a

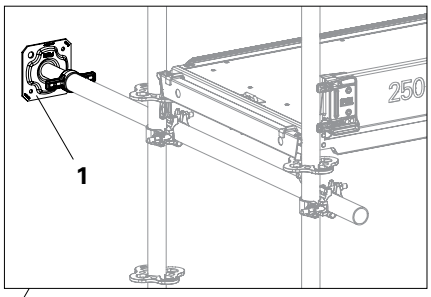


Fig. A3.01b

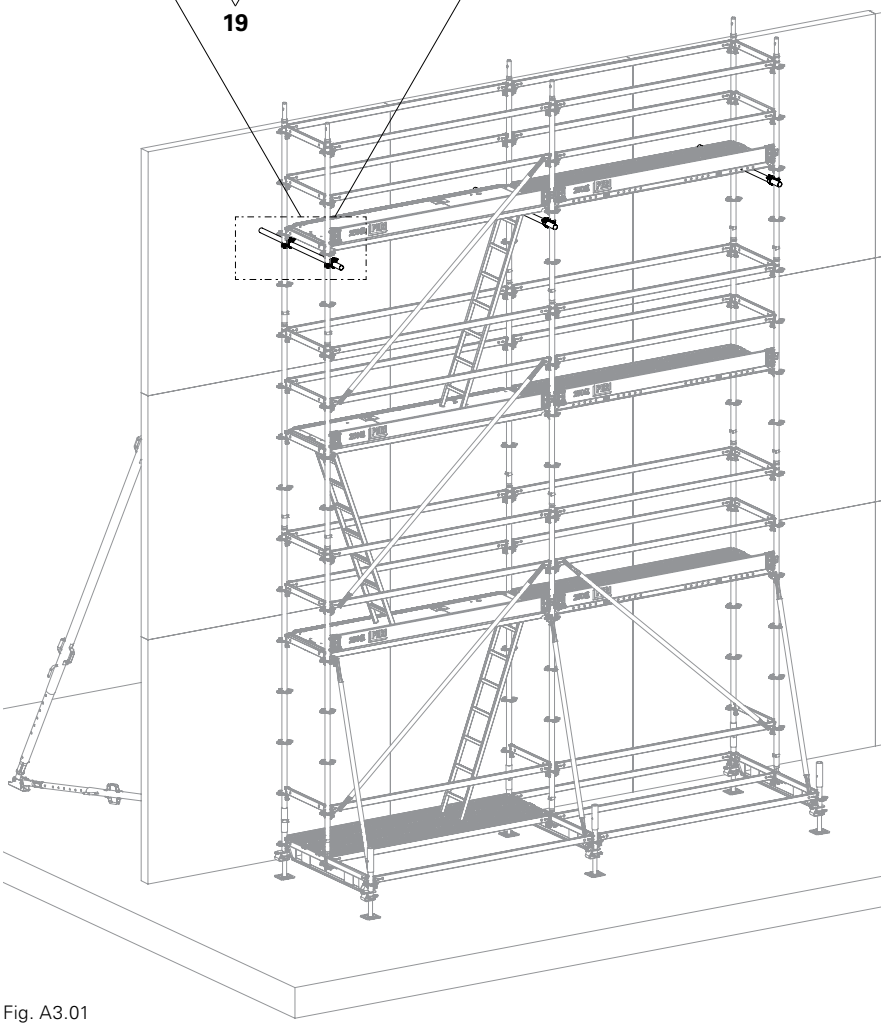


Fig. A3.01

A4 Dismantling

Recommendation

Warning

Risk of falling!

⇒ During work operations, keep the hatch closed.

⇒ Use PPE to prevent falling.

Following the completion of his own risk assessment, the scaffold contractor can also determine other dismantling options.
Dismantling takes place from top to bottom, with personnel always in a safe position.
Dismantling is carried out whilst progressively working back to the access ladder bay.

Dismantling procedure

1. From a position on the decking level:

- Ledger UH 75 opposite the hatch (Fig. A4.01a)
- Ledger UH on the inside and Toeboards (Fig. A4.01b)
- Ledger UH on the outside, from a safe position (Fig. A4.01c)
- Ledger Brace UBL - top - bottom
- Ledger UH on the inside, from a safe position (Fig. A4.01d)

1.

1.1

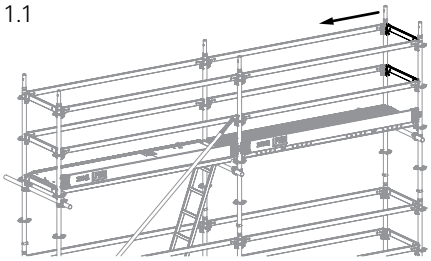


Fig. A4.01a

1.2

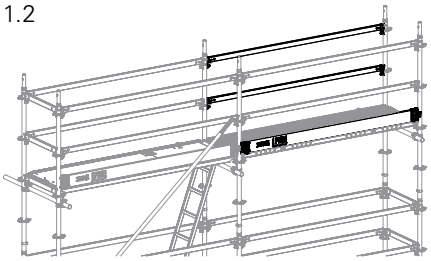


Fig. A4.01b

1.3

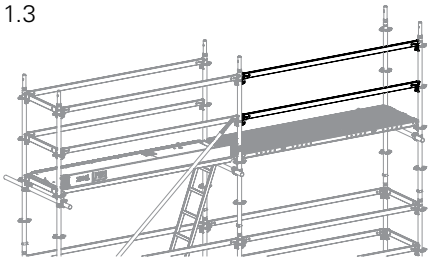


Fig. A4.01c

1.4

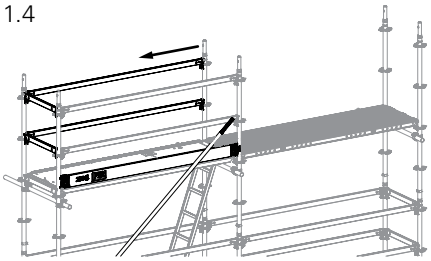


Fig. A4.01d

2. From a position on the ladder:

- Ledger UH on the outside
- Close hatch from below (Fig. A4.02)

2.

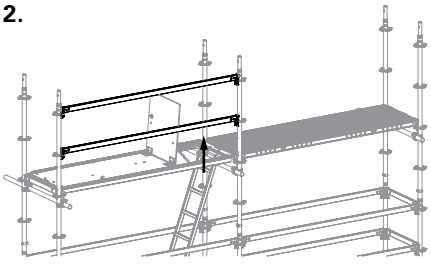


Fig. A4.02

3. From a position on the next level below:
- Ladder, access deck and top Decks UDG (Fig. A4.03a)
- Pressure-resistant ties
- Ledger UH 75
- Locking Pins Ø 48/57
- Standards UVR (Fig. A4.03b)
- Continuously dismantle reinforcement scaffold in this sequence

3.

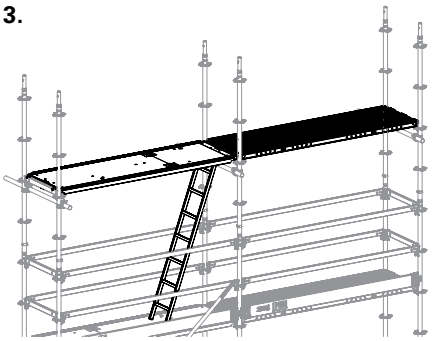


Fig. A4.03a

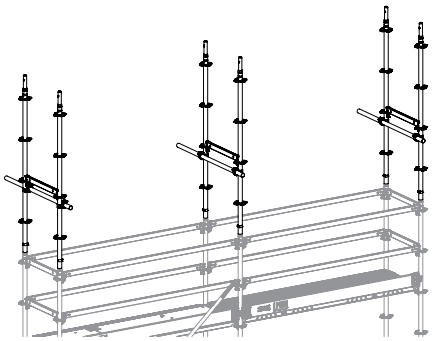


Fig. A4.03b

4. Dismantling the base level:
Dismantling to take place in this order:
- Ledger Braces UBL and Toeboards
- Ledger UH 75 and Ledger UH
- Ladder, access deck and Decks UDG
- Node Brace UBK (Fig. A4.04a)
- Ledger UH 75 and Ledger UH
- Locking Pins Ø 48/57
- Standards UVR
- Ledger-to-Ledger Coupler UHA Half with Spigot
- Ledger UHV 150 Plus
- Spindle Locking UJS
- Base Standard UVB (Fig. A4.04b)

4.

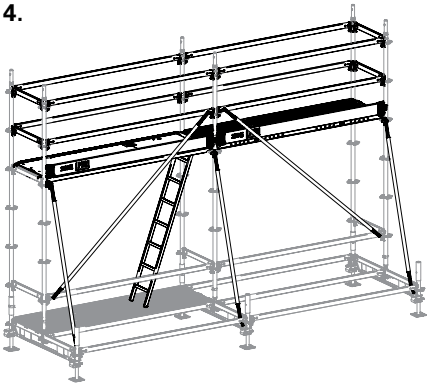


Fig. A4.04a

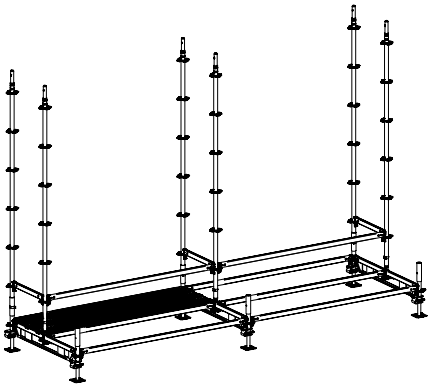


Fig. A4.04b

B1 Assembling the base with Ledger UHV 250

Base level

– Assembly of the reinforcement scaffold must always take place in front of a wall or secure formwork units!
– The surface used must have sufficient load-bearing capacity.

Pos.	Component	Qty.
1	Adjustable Base Plate UJB	4x
2	Base Standard UVB 24	4x
3	Ledger UH Plus	2x
5	Ledger UHV 250 Plus	2x
10	Steel Deck UDG	3x
16	Spindle Locking UJS	4x

Assembly

1. Assemble frame.
2. Horizontally align frame by adjusting the Adjustable Base Plates.
   Max. spindle adjustment range for
   – Base Plate UJB 38-50/30:
     ≤ 26 cm
   – Base Plate UJB 38-80/55:
     ≤ 39 cm
3. Establish perpendicularity of the base.
4. Secure wedges on all ledgers using a 500 g hammer.
   (Fig. B1.01a + B1.01b + B1.01c)
5. Insert Steel Deck UDG (10).
   → Lift-off prevention devices drop under the UH Ledger (5) and secure the decking.
6. Secure Adjustable Base Plate UJB with Spindle Locking UJS (16).
   (Fig. B1.01d)

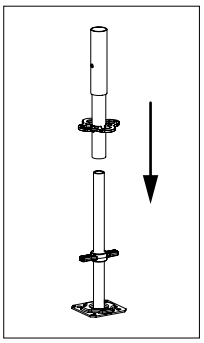


Fig. B1.01a

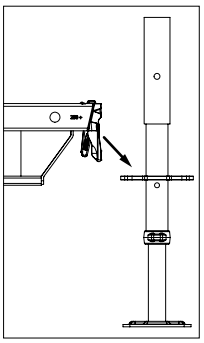


Fig. B1.01b

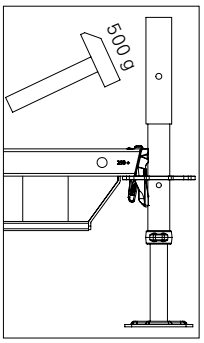


Fig. B1.01c

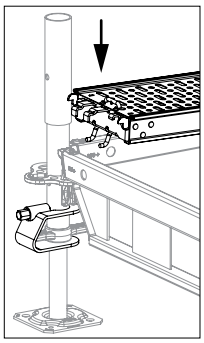


Fig. B1.01d

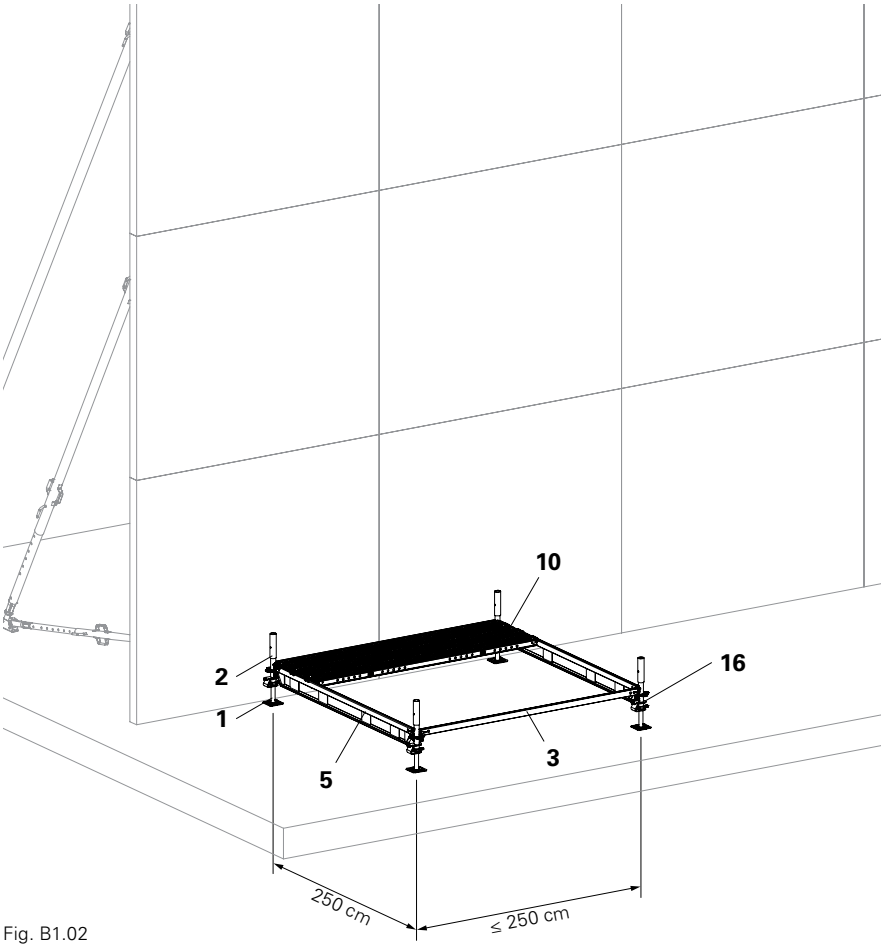


Fig. B1.02

B1 Assembling the base with Ledger UHV 250

Standards and Ledgers

Pos.	Component	Qty.
3	Ledger UH Plus	2x
3a	Ledger UH 75 Plus	4x
6	Standard UVR 300	4x
15	Ledger-to-Ledger Coupler UHA Half with Spigot	2x
17	Locking Pin Ø 48/57	4x

Assembly

1. Place Ledger-to-Ledger Coupler UHA (15) on the Ledger UHV 250 (5), do not yet secure wedges for alignment. (Fig. B1.03c)
2. Insert Standards UVR (6). (Fig. B1.03b)
3. Connect Base Standards UVB (2) and Ledger-to-Ledger Coupler UHA (15) with Standards UVR (6) by means of Locking Pins (17). (Fig. B1.03c)
4. Attach Ledgers UH (3) and securely fix with wedges. (Fig. B1.03a)
5. Securely fix wedges for Ledger-to-Ledger UHA (15).
6. Attach Ledgers UH 75 (3a) and securely fix wedges.

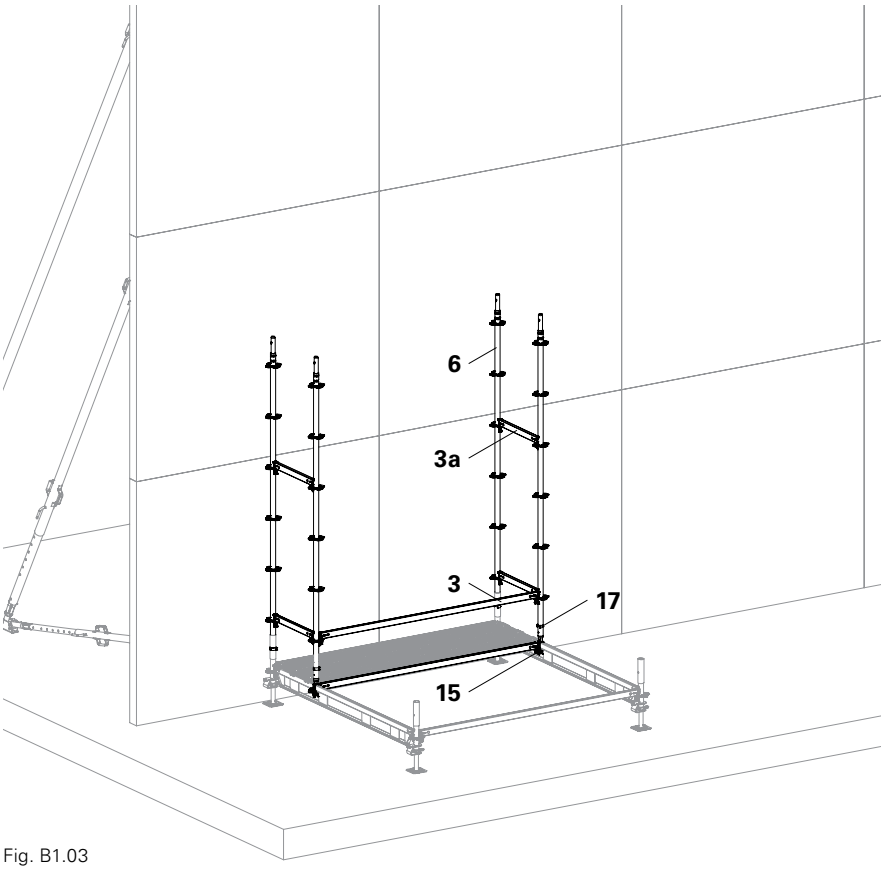


Fig. B1.03

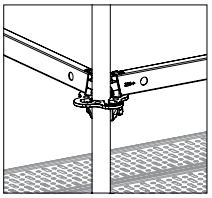


Fig. B1.03a

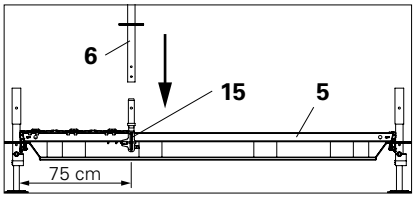


Fig. B1.03b

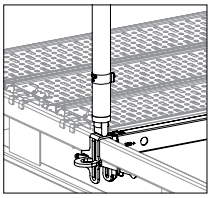


Fig. B1.03c

B1 Assembling the base with Ledger UHV 250

Attachment of base level

The base unit scaffolding can be extended by up to 2 additional bays.
Width of each bay: ≤ 300 cm.

Pos.	Component	Qty.
1	Adjustable Base Plate UJB	2x
2	Base Standard UVB 24	2x
3	Ledger UH Plus	2x
5	Ledger Heavy Duty UHV 250 Plus	1x
16	Spindle Locking UJS	2x

Assembly

1. Place Adjustable Base Plates (1) in Base Standards (2) and attach Ledger UH (3) in the rosettes.
2. Mount on base level.
3. Horizontally align Addition by adjusting the Adjustable Base Plates (1).
4. Establish perpendicularity of the base.
5. Secure wedges on all Ledgers using a 500 g hammer.
6. Secure Adjustable Base Plate UJB with Spindle Locking UJS (16). (Fig. B1.04)

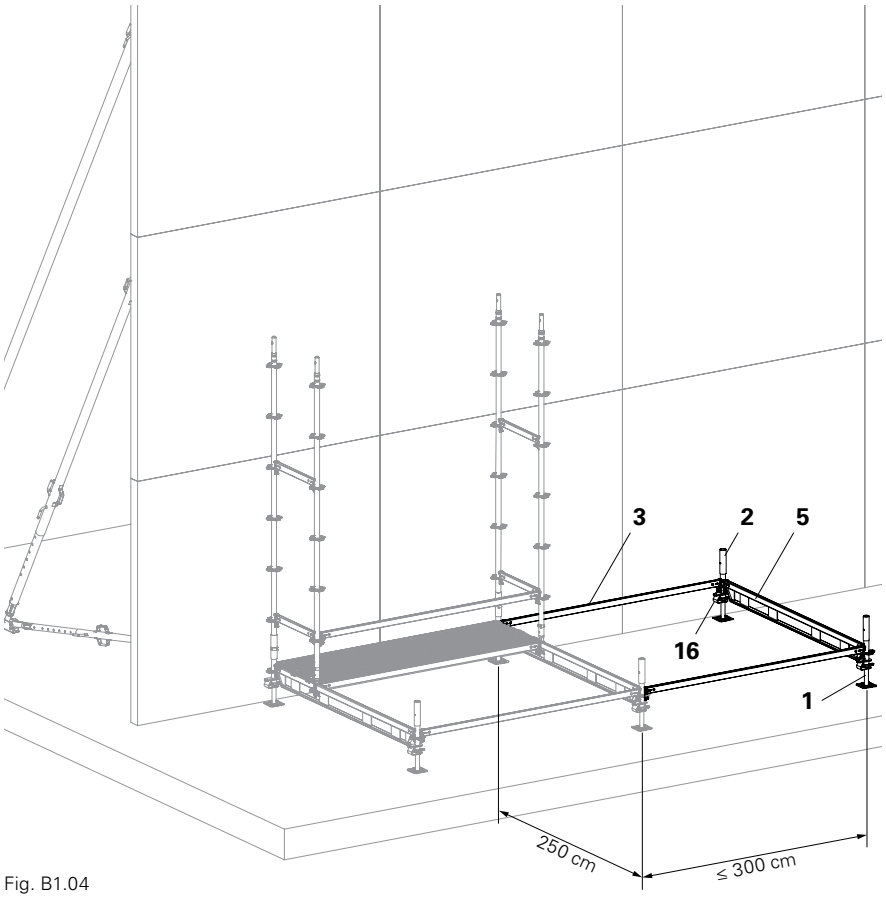


Fig. B1.04

B1 Assembling the base with Ledger UHV 250

Attachment of Standards and Ledgers

Pos.	Component	Qty.
3	Ledger UH Plus	2x
3a	Ledger UH 75 Plus	2x
6	Standard UVR 300	2x
15	Ledger-to-Ledger Coupler UHA	1x
17	Locking Pin Ø 48/57	2x

Assembly

1. Place Ledger-to-Ledger Coupler UHA (15) on Ledger UHV (5), do not yet secure wedges for alignment.
2. Insert Standards UVR (6).
3. Connect Base Standard UVB (2) and Ledger-to-Ledger Coupler UHA (15) with Standard UVR (6) by means of Locking Pins (17).
4. Attach Ledgers UH (3) and securely fix with wedges.
5. Attach Ledgers UH 75 (3a) and securely fix wedges. (Fig. B1.05)

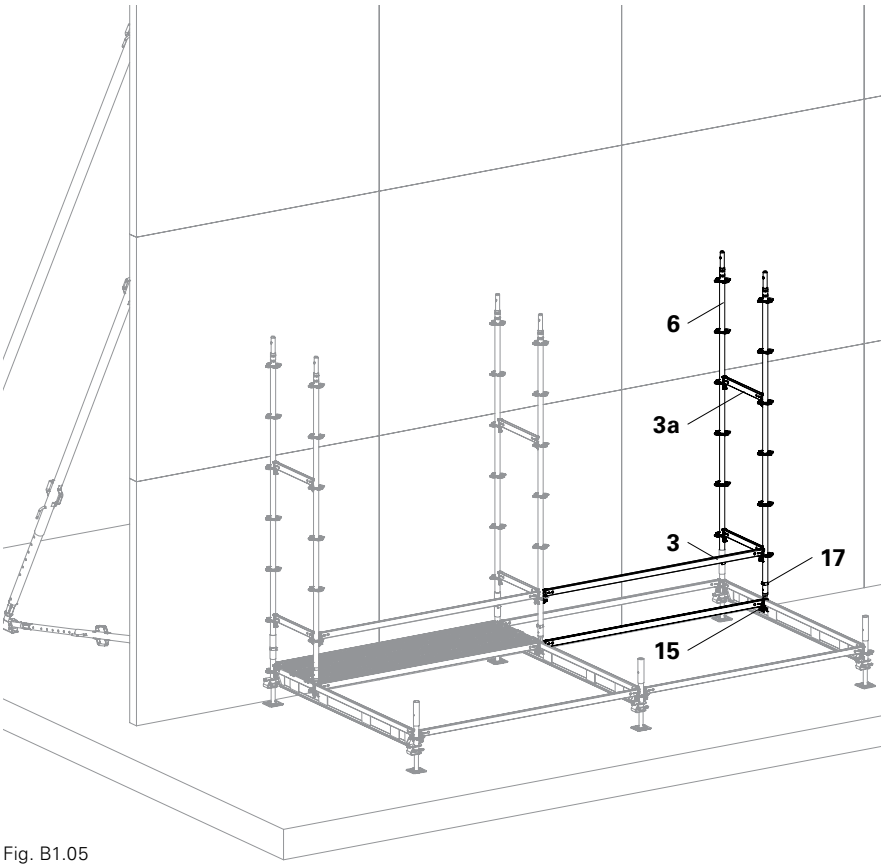


Fig. B1.05

B1 Assembling the base with Ledger UHV 250

Access decks, decking and guardrails

Warning

Risk of falling!

⇒ Use PPE to prevent falling.

⇒ During work operations, keep the hatch closed.

Pos.	Component	Qty.
3	Ledger UH Plus	8x
3a	Ledger UH 75 Plus	4x
7	Access Deck UAL-3	1x
8	Ladder Flex UEL with Hook	1x
9	Toeboard Wood UPF	2x
10	Steel Deck UDG	3x
11	Ledger Brace UBL	2x

Assembly

1. Attach Access Deck UAL-3 (7). Standing position: below.
2. Insert Steel Deck UDG (10). Standing position: below.
3. Attach Ladder Flex UEL (8).
4. From the ladder: attach Ledger UH (3) to the outer side.
   From the decking: mount Ledgers as guardrails all the way round from outside to inside. Securely fix the wedges. (Fig. B1.06)
5. Attach Toeboard UPF (9) on the outside to the Standards. (Fig. B1.06a)
6. Insert Ledger Brace UBL (11) with the lower finger in the bottom Ledger UH (3). (Fig. B1.06b + B1.06c)
7. Insert the gravity pin into the holes of the top Ledger UH (3), turn pin to secure. (Fig. B1.06d + B1.06e)

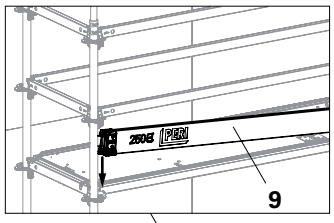


Fig. B1.06a

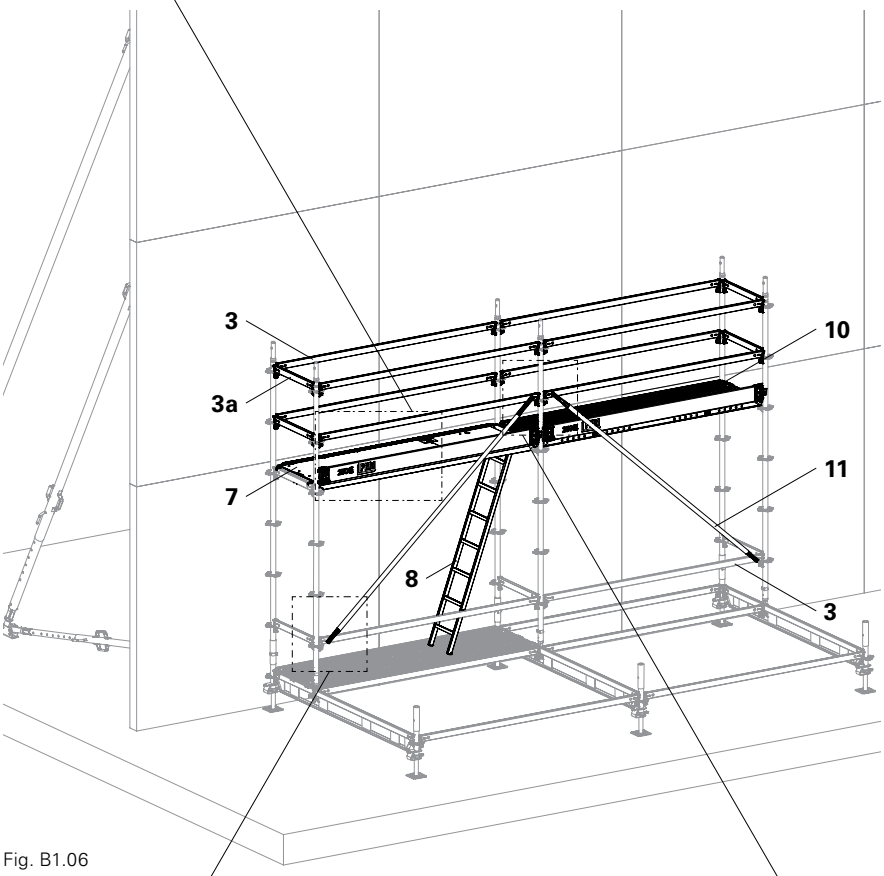


Fig. B1.06

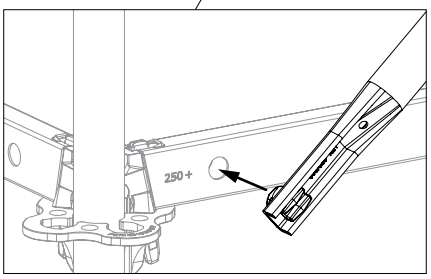


Fig. B1.06b

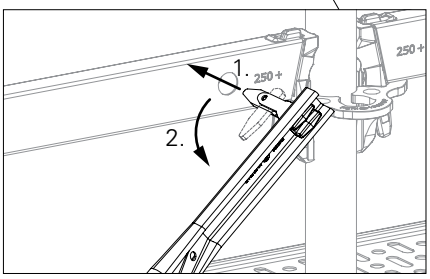


Fig. B1.06d

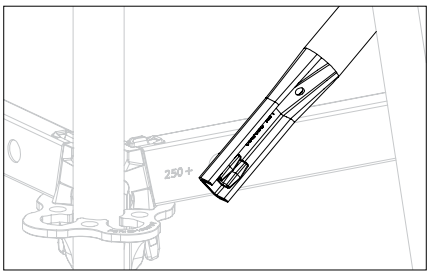


Fig. B1.06c

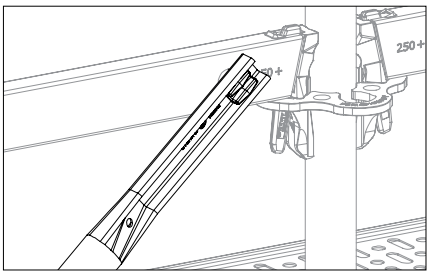


Fig. B1.06e

B2 Assembly of Extensions

Standards and Ledgers

Pos.	Component	Qty.
3a	Ledger UH 75 Plus	3x
6a	Standard UVR 200	6x
17	Locking Pin Ø 48/57	6x

Assembly

1. Insert Standards UVR (6a). Align legs in accordance with the holes.
2. Tightly connect Standards (6) (6a) by means of Locking Pins (17).
3. Attach Ledgers UH 75 (3a) and securely fix wedges. (Fig. B2.01)

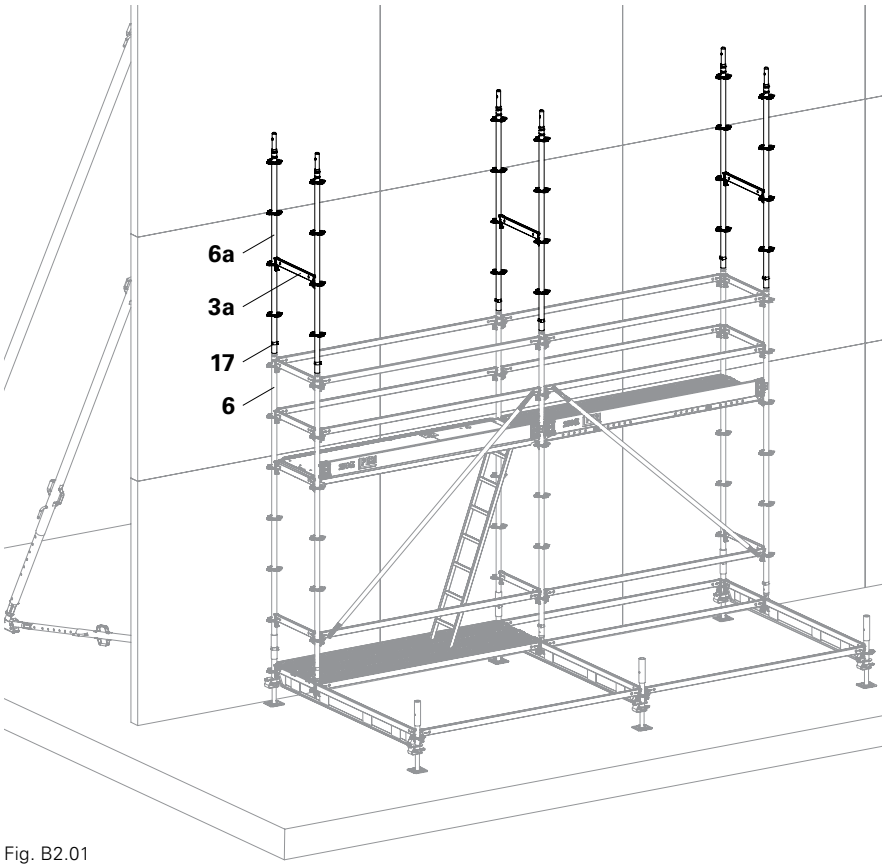


Fig. B2.01

Access decks, decking and guardrails

Warning

Risk of falling!

⇒ During work operations, keep the hatch closed.

Pos.	Component	Qty.
3	Ledger UH Plus	8x
3a	Ledger UH 75 Plus	4x
7	Access Deck UAL-3	1x
8	Ladder Flex UEL with Hook	1x
9	Toeboard Wood UPF	2x
10	Steel Deck UDG	3x
11	Ledger Brace UBL	1x

Assembly

1. Attach Access Deck UAL-3 (7). Standing position: below.
2. Insert Steel Deck UDG (10). Standing position: below.
3. Attach Ladder Flex UEL (8).
4. From the ladder or a safe working position:
   attach Ledger UH (3) to the outer side.
   From the decking:
   mount Ledgers as guardrails all the way round from outside to inside. Securely fix the wedges.
5. Attach Toeboard UPF (9) on the outside to the Standards.
6. Insert Ledger Brace UBL (11) with the finger in the lower bottom Ledger UH (3). Insert the gravity pin into the holes of the top Ledger UH (3), turn pin to secure. (Fig. B2.02)

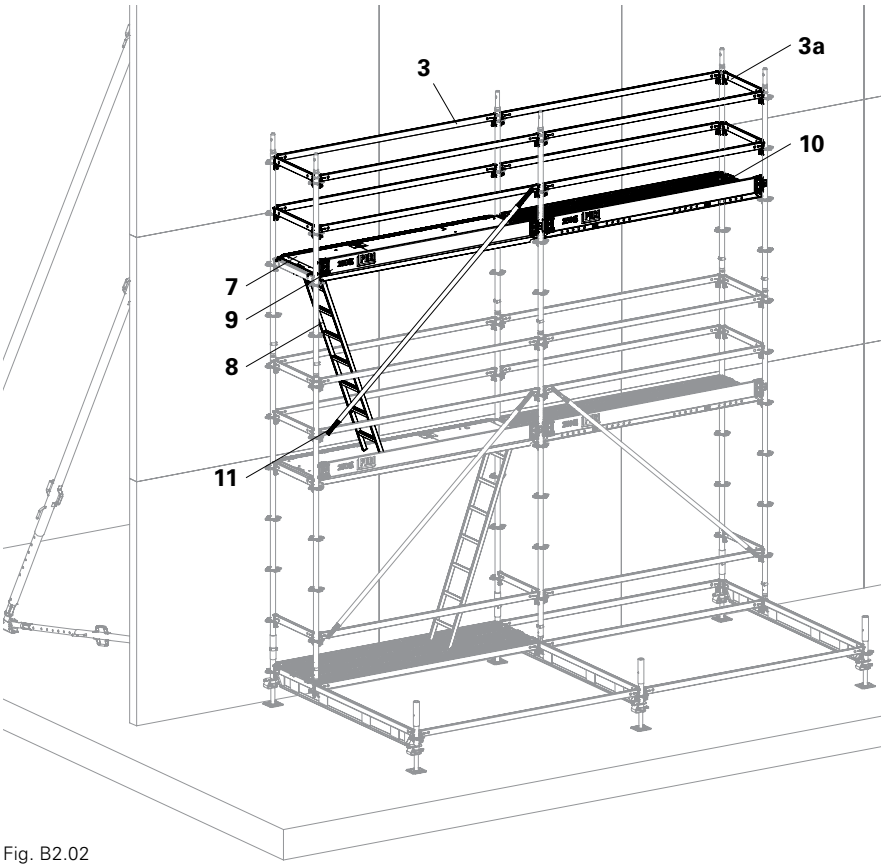


Fig. B2.02

Stability

Pos.	Component	Qty.
13	Steel Scaffold Tube Ø 48.3 x 3.2	3x
14a	Swivel Coupling DK 48/48	3x
14b	Swivel Coupling DK 48/60	3x

Assembly
Attach scaffold tubes (13) at the top to the outside Standard with Swivel Coupling 48/48 (14a) and at the bottom to the Base Standard using Swivel Coupling 48/60 (14b).
(Fig. B2.03)

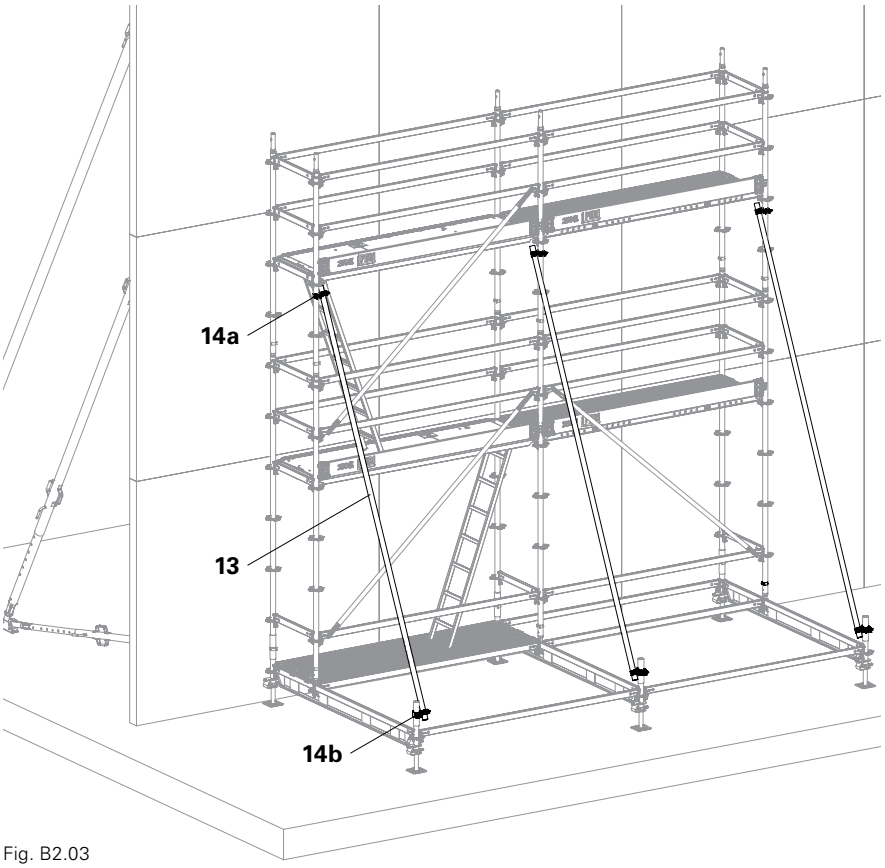


Fig. B2.03

Additional levels

Warning
Risk of falling!
⇒ During the assembly work, keep the hatch closed!

The number of additional levels is limited to a maximum of 5 floors.
Max. standing height ≤ 1060 cm.

Assembly
Assembly process is repeated according to the steps on page 31 and 32.

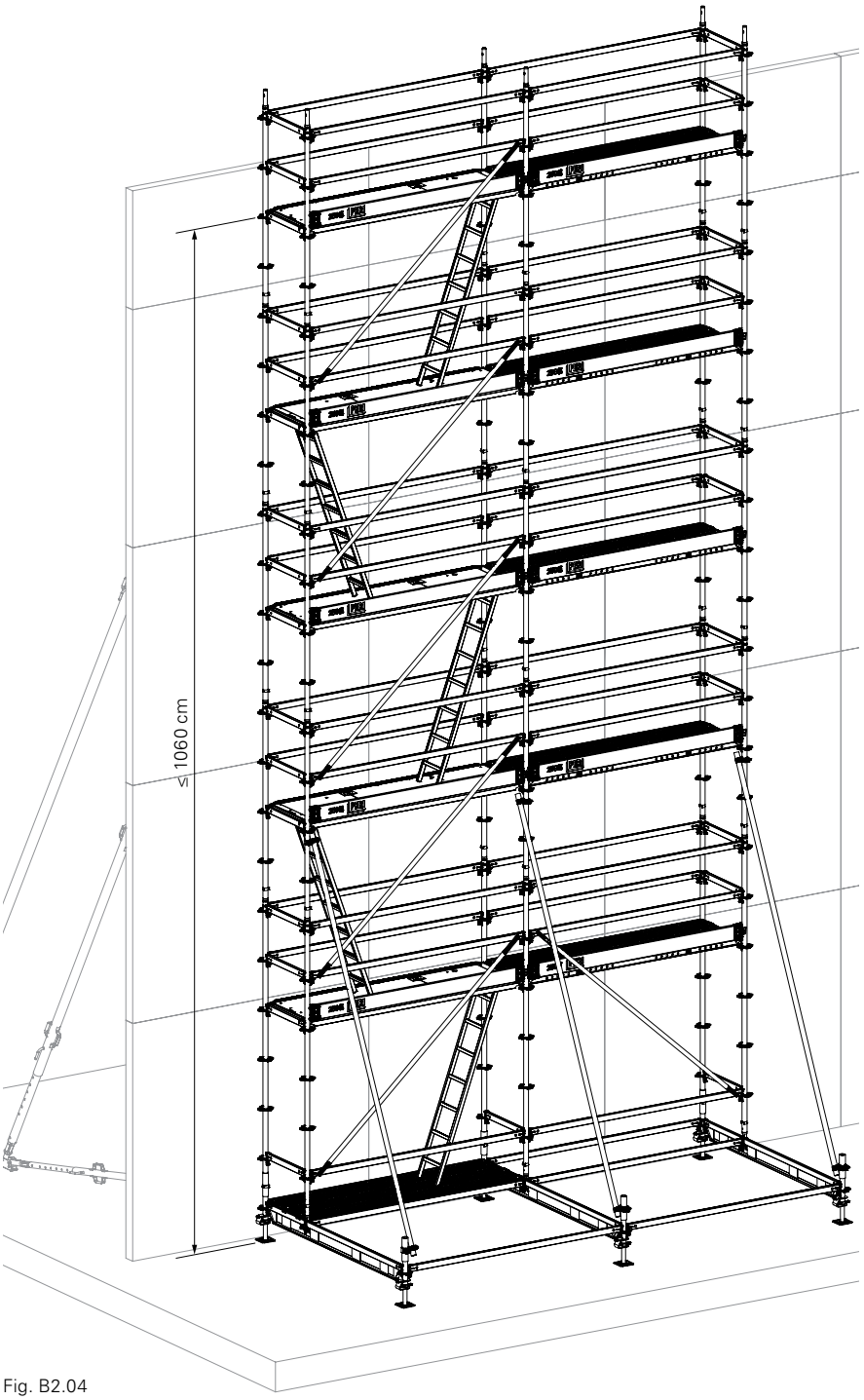


Fig. B2.04

B3 Pressure-resistant ties

Danger

Risk of injury!

⇒ The Adjustable Base Plate UJS (1) must be secured to prevent falling out. (Fig. A3.01b)

Compression forces to the wall or formwork are to be verified on site by the contractor!

With standing heights of 424 cm and more, pressure-resistant ties are to be mounted on all Standards – directly under the highest deck level – and positioned up against the wall or formwork.

Pos.	Component	Qty.
13	Steel Scaffold Tube Ø 48.3 x 3.2	3x
19	Standard Coupling NK 48/48	6x

Assembly

Directly under highest deck level.

1. Securely fix the scaffold tube (13) to the Standard UVR using Standard Couplers (19).
2. Adjust distance of scaffold tube from the wall.

PERI recommends inserting an Adjustable Base Plate UJS (1) into the scaffolding tube if the distance to the wall has to be adjusted more often. Secure Adjustable Base Plates against falling out. (Fig. B3.01b)

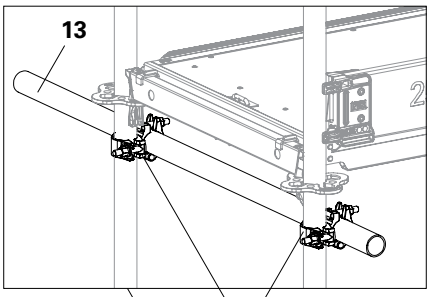


Fig. B3.01a

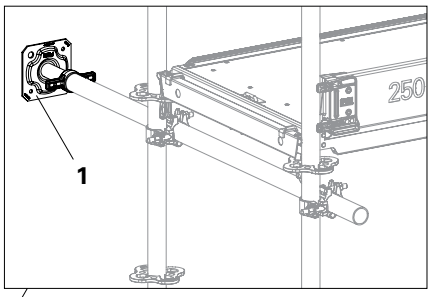


Fig. B3.01b

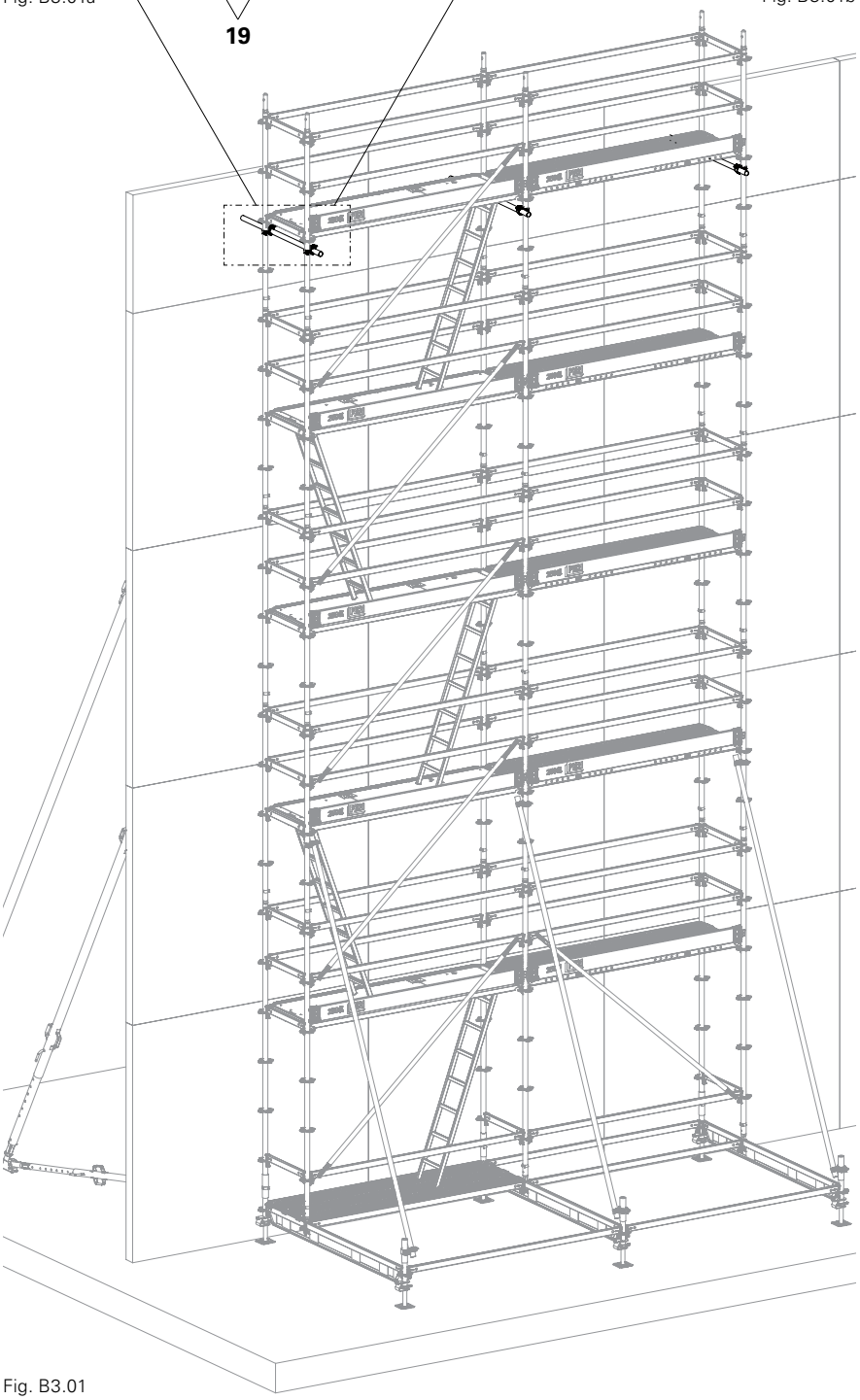


Fig. B3.01

Recommendation

Warning

Risk of falling!
⇒ During work operations, keep the hatch closed.
⇒ Use PPE to prevent falling.

Following the completion of his own risk assessment, the scaffold contractor can also determine other dismantling options.
Dismantling takes place from top to bottom, with personnel always in a safe position.
Dismantling is carried out whilst progressively working back to the access ladder bay.

Dismantling procedure

1. From a position on the decking level:
- Ledger UH 75 opposite the access ladder (Fig. A4.01a)
- Ledger UH on the inside and Toeboards (Fig. A4.01b)
- Ledger UH on the outside, from a safe position (Fig. A4.01c)
- Ledger Brace UBL - top - bottom
- Ledger UH on the inside, from a safe position (Fig. A4.01d)

1.

1.1

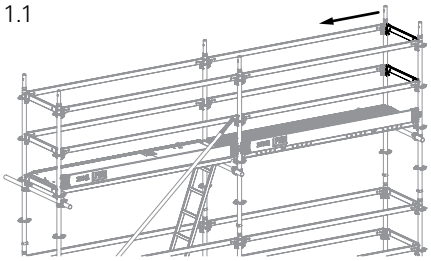


Fig. B4.01a

1.2

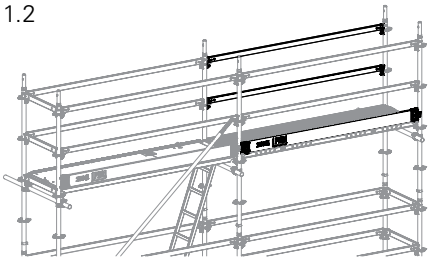


Fig. B4.01b

1.3

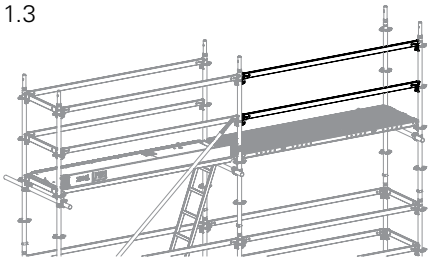


Fig. B4.01c

1.4

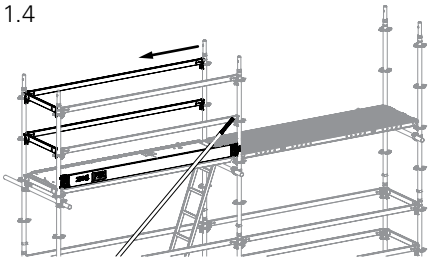


Fig. B4.01d

2. From a position on the ladder:
- Ledger UH outside
- Close hatch from below (Fig. A4.02)

2.

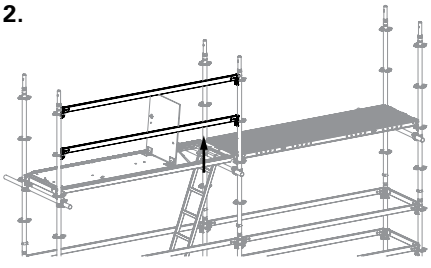


Fig. B4.02

3. From a position on the next level below:
- Ladder, access deck and top Deck UDG (Fig. A4.03a)
- Pressure-resistant ties
- Ledger UH 75
- Locking Pins Ø 48/57
- Standards UVR (Fig. A4.03b)
- Continuously dismantle reinforcement scaffold in this sequence

3.

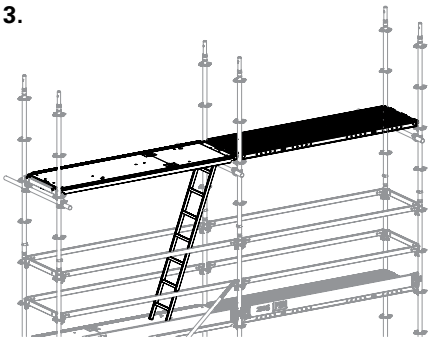


Fig. B4.03a

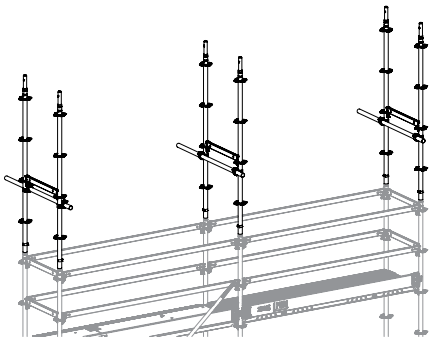


Fig. B4.03b

4. Dismantling the base level

Dismantling to take place in this order:
- Ledger Braces UBL and Toeboards
- Ledger UH 75 and Ledger UH
- Ladder, access deck and Deck UDG
- Steel Scaffold Tubes Ø 48.3 x 3.2 and Standard Couplers NK 48/48 (Fig. B4.04a)
- Ledger Braces UBL and Toeboards
- Ledger UH 75 and Ledger UH
- Ladder, access deck and Deck UDG (Fig. B4.04b)
- Ledger UH 75 and Ledger UH
- Locking Pins Ø 48/57
- Standards UVR
- Ledger-to-Ledger Coupler UHA Half with Spigot
- Ledger UHV 250 Plus
- Spindle Locking UJS
- Base Standard UVB (Fig. A4.04c)

4.

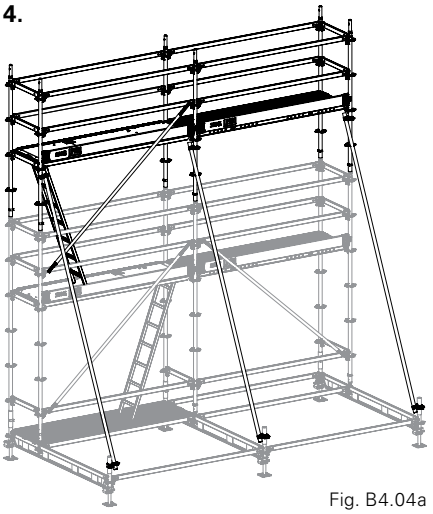


Fig. B4.04a

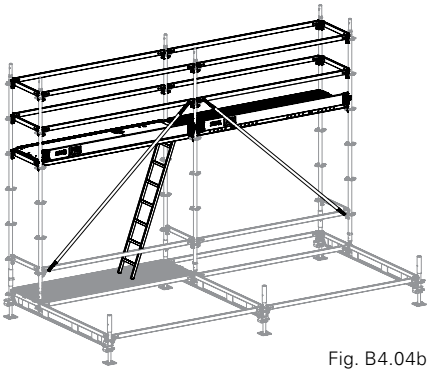


Fig. B4.04b

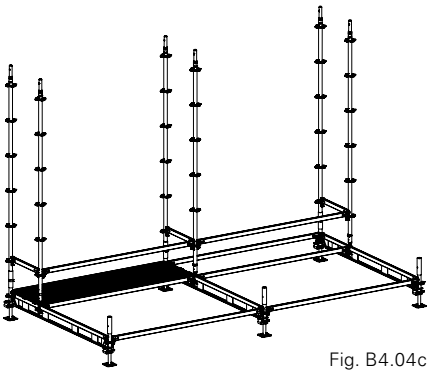
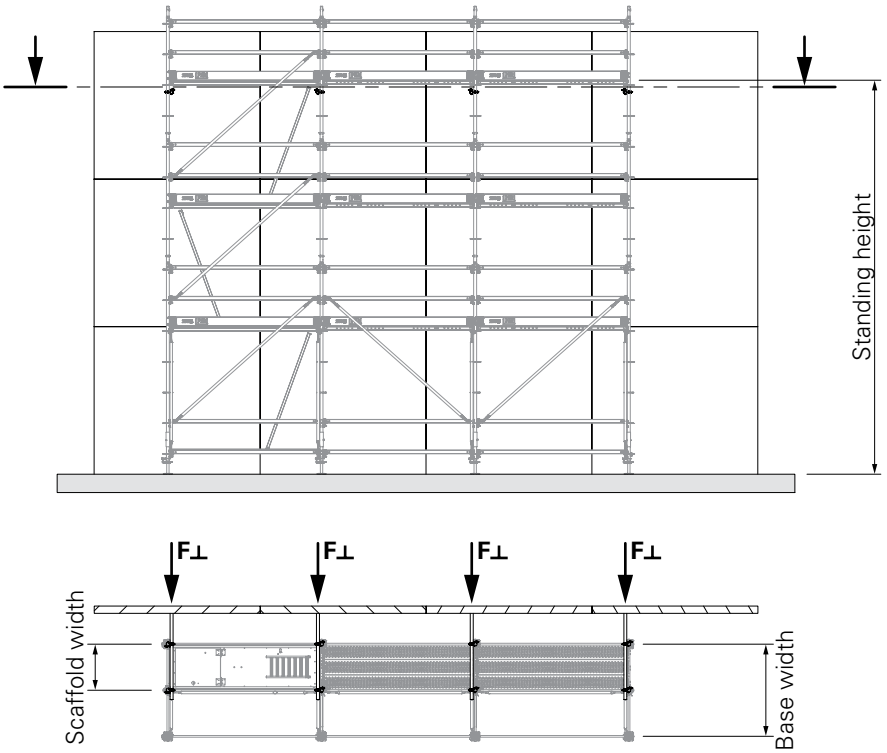


Fig. B4.04c

C4 Anchors, anchor forces

Pressure-resistant ties are used for anchoring so that moving the reinforcement scaffold by crane is possible. Pressure-resistant ties are installed directly under the highest deck level on each Standard and are supported by being positioned against secure formwork units or solid wall.

For wind speeds v > 17.9 m/s (wind force 6), the reinforcement scaffolds are to be prevented from tipping over by means of tension and compression-proof anchorage.



Compression forces F⊥ [kN]

Scaffold width 75 cm (100 cm)			
Standing height [cm]	**Base width 150 cm** Assembly on UHV 150	**Base width 250 cm** Assembly on UHV 250 / UVA 250	**Standing height [cm]**
	Up to 17.9 m/s (wind force 6) only pressure-resistant ties required		
224 – 260	no ties required	no ties required	224 – 260 / 248 – 280
424 – 460	0.5 (0.5)	no ties required	424 – 460 / 448 – 480
624 – 660	0.5 (0.5)	1.1 (1.1)	624 – 660 / 648 – 680
		1.1 (1.1)	824 – 860 / 848 – 880
		1.1 (1.1)	1024 – 1060 / 1048 – 1080

Table C4.01

Required ballast for the PERI UP Flex Reinforcement Scaffold 75 and 100 with working wind speed according to DIN EN 12811.

Scaffold width 75 cm				**Scaffold width 100 cm**				
Bays	1 bay			1 bay				**Bays**
Height / bay length [cm]	150	200	250	150	200	250	300	**Height / bay length [cm]**
224 – 260	-	-	-	40 kg	40 kg	40 kg	40 kg	224 – 260
424 – 460	160 kg	-	-	160 kg	-	-	-	424 – 460
624 – 660	400 kg	120 kg	-	400 kg	80 kg	-	-	624 – 660
824 – 880	760 kg	320 kg	-	840 kg	320 kg	-	-	824 – 880
1024 – 1080	1160 kg	560 kg	160 kg	1280 kg	640 kg	200 kg	-	1024 – 1080

Table C5.01

For smaller scaffolding dimensions, no additional ballast is required.

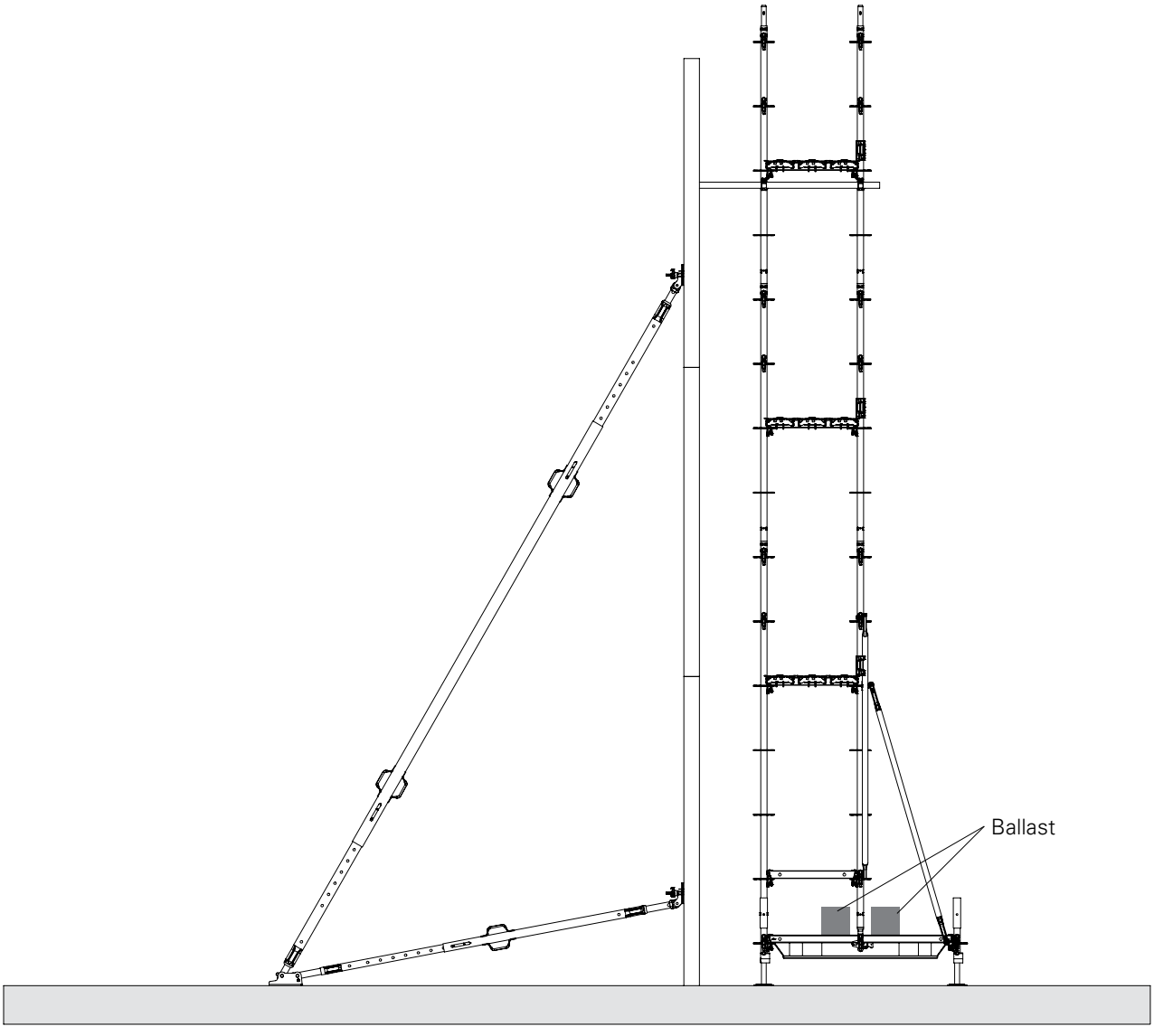


Fig. C5.01

D1 Moving by crane

Danger

Risk of injury!

⇒ Do not stand under the suspended load.

Requirements:

– Ensure that all Standards are tightly connected!
– Remove loose parts!

Load-bearing points

For moving by crane, webbing belts for example can directly be wrapped around the Standards under the rosettes (Fig. D1.01). The complete reinforcement scaffold unit is moved using four-sling lifting gear (Fig. D1.01a + D1.01b + D1.01c).

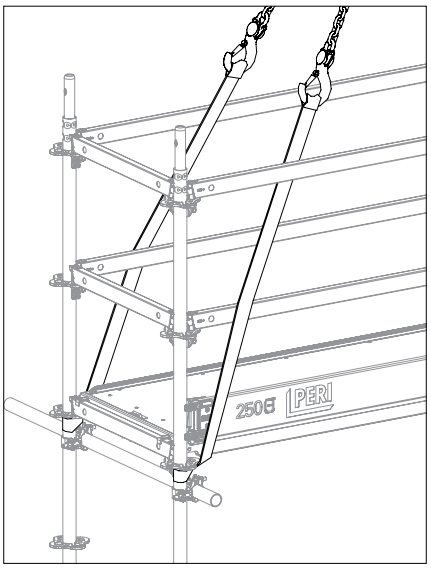


Fig. D1.01

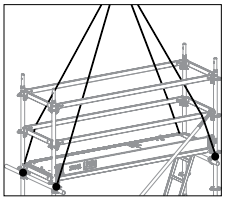


Fig. D1.01a

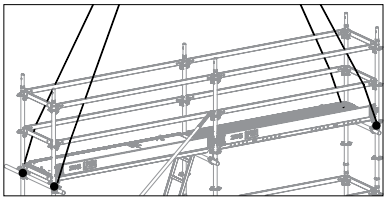


Fig. D1.01b

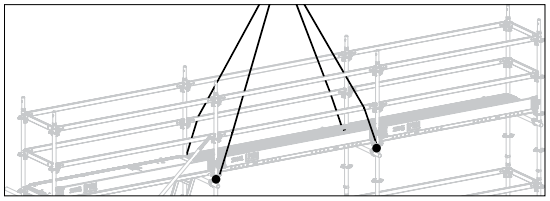


Fig. D1.01c

Dead loads

Scaffold width 75 cm (100 cm)							
Standing height [cm]	**Base width 150 cm** Assembly on UHV 150			**Base width 250 cm** Assembly on UHV 250 / UVA 250			**Standing height [cm]**
	1 bay 300 cm	2 bays 600 cm	3 bays 900 cm	1 bay 300 cm	2 bays 600 cm	3 bays 900 cm	
	max. dead load [kg]			max. dead load [kg]			
224 – 260	310 (340)	500 (550)	680 (760)	400 (430)	640 (700)	880 (960)	224 – 260 / 248 – 280
424 – 460	450 (510)	750 (850)	1040 (1180)	540 (600)	890 (990)	1230 (1380)	424 – 460 / 448 – 480
624 – 660	590 (680)	990 (1140)	1390 (1600)	680 (770)	1130 (1290)	1580 (1800)	624 – 660 / 648 – 680
				820 (930)	1380 (1580)	1940 (2230)	824 – 860 / 848 – 880
				960 (1100)	1630 (1880)	2290 (2650)	1024 – 1060 / 1048 – 1080

Table D1.01

D2 Working on the reinforcement scaffold

Assembly tips

Warning

Risk of falling!

⇒ During work operations, keep the hatch closed.

⇒ Use PPE to prevent falling.

First scaffold bay

– In order to be able to immediately install the Ledgers UH (guardrails), Standards UVR are always slotted in 1 m above the decking level.
– From a safe working position, the front side and outer Ledgers UH are installed.

Additional scaffold bays

For any additional scaffold bays, the outer Ledgers UH are mounted from a safe position (previous scaffold bay) (e.g. PPE).

End guardrail

Mount Ledger UH 75 from a safe position (previous scaffold bay) (e.g. PPE).

Reinforcement work tips

The reinforcement scaffold is positioned 30 – 80 cm in front of the primary formwork. Guardrails are therefore required on the inner side of the reinforcement scaffold. They provide a safe working position:

1. One leg is wrapped around the bottom Ledger UH.
2. Lean against the top Ledger UH and lean forward.

(Fig. D2.03)

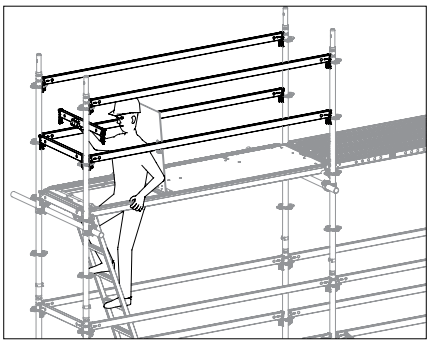


Fig. D2.01

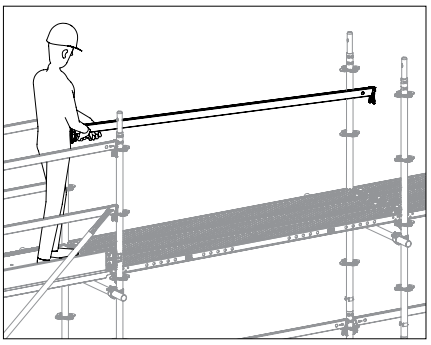


Fig. D2.02

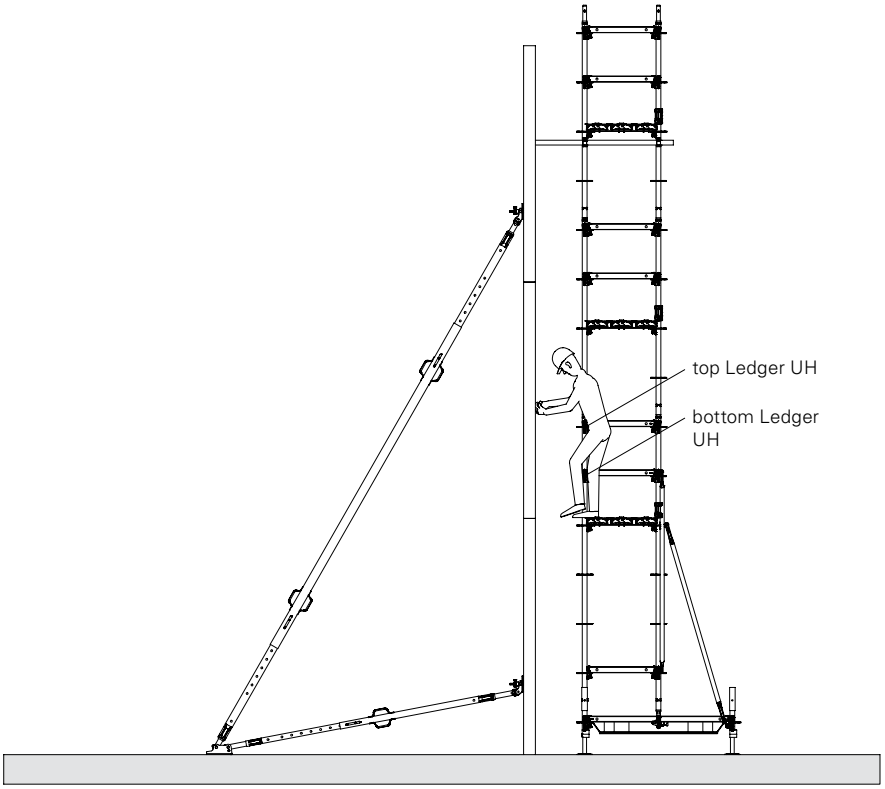


Fig. D2.03

D3 Assembly with guardrail in advance

Assembly of the reinforcement scaffold with Ledger UH as guardrail is shown in Sections A and B.

If the top Ledger is replaced by a guardrail, assembly with the guardrail in advance can then take place.

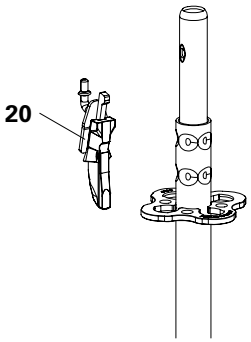
The following components are required:

20	Guardrail Holder EPW
21	Guardrail EPG
22	End Guardrail UPA in advance

Assembly

1. Insert Guardrail Holder EPW (20) into the top rosette of the Standard UVR and wedge securely.
2. Insert the first two Standards UVR. (Fig. D3.01)
3. Mount Guardrail EPG (21) on the Guardrail Holder EPW of the outer Standard. (Fig. D3.02)
4. Connect the next Standard UVR with the Guardrail UPG.
5. Insert Standard UVR complete with Guardrail EPG. (Fig. D3.03)
6. On the inner side of the next guardrail, mount Standards in advance.
7. Install Ledger UH.
8. Install End Guardrail in advance UPA (22). (Fig. D3.04)
9. Install decking or decking with ladder. (Fig. D3.05)
10. Repeat steps 3 to 8 for the next bays and mount components to ensure stability. (Fig. D3.06)

Ensure that the side protection is complete with Ledgers and Toeboards when accessing the top level.



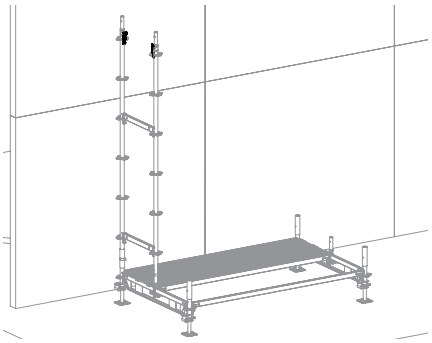


Fig. D3.01

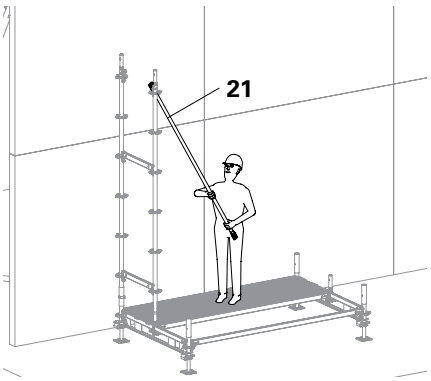


Fig. D3.02

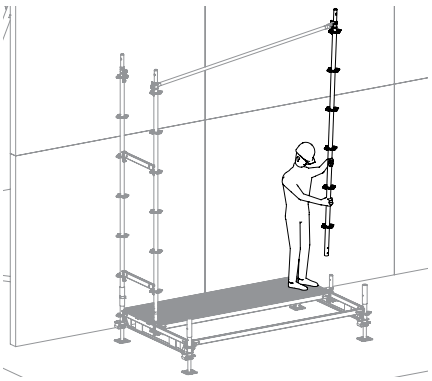


Fig. D3.03

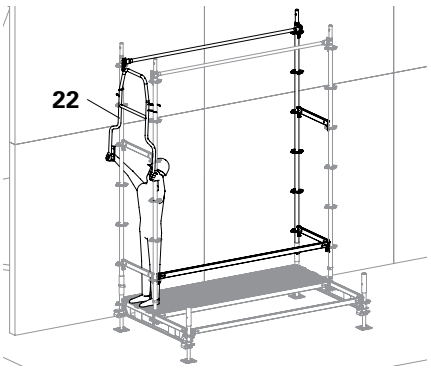


Fig. D3.04

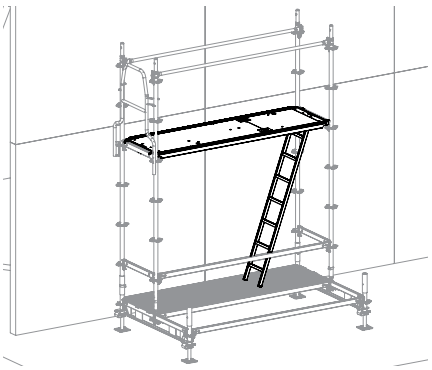


Fig. D3.05

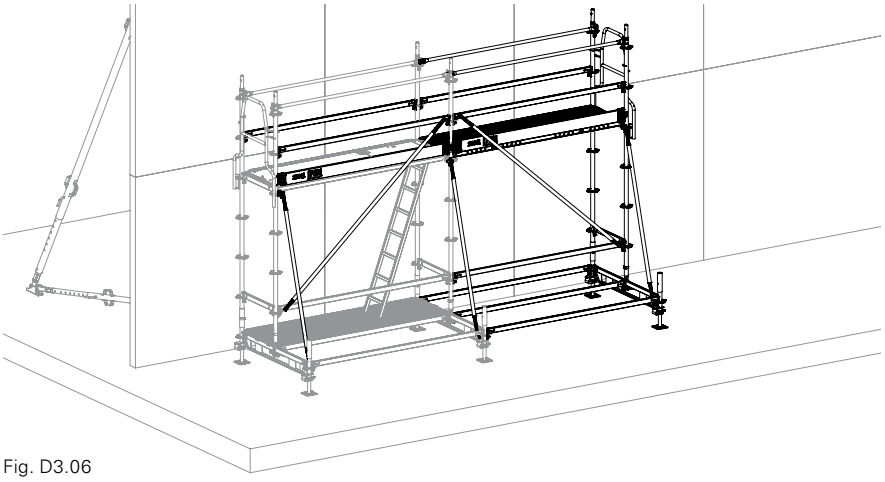


Fig. D3.06

E1 Optional/alternative components

Components are to be installed as an option or as an alternative if required by local standards and regulations.

In this example, the Locking Pins Ø 48/57 (17) have been replaced by bolts (Bolt ISO 4014 M10 x 70-8.8) and continuous side protection consisting of Ledgers UH in the bay of ascent is mounted on the ladder.

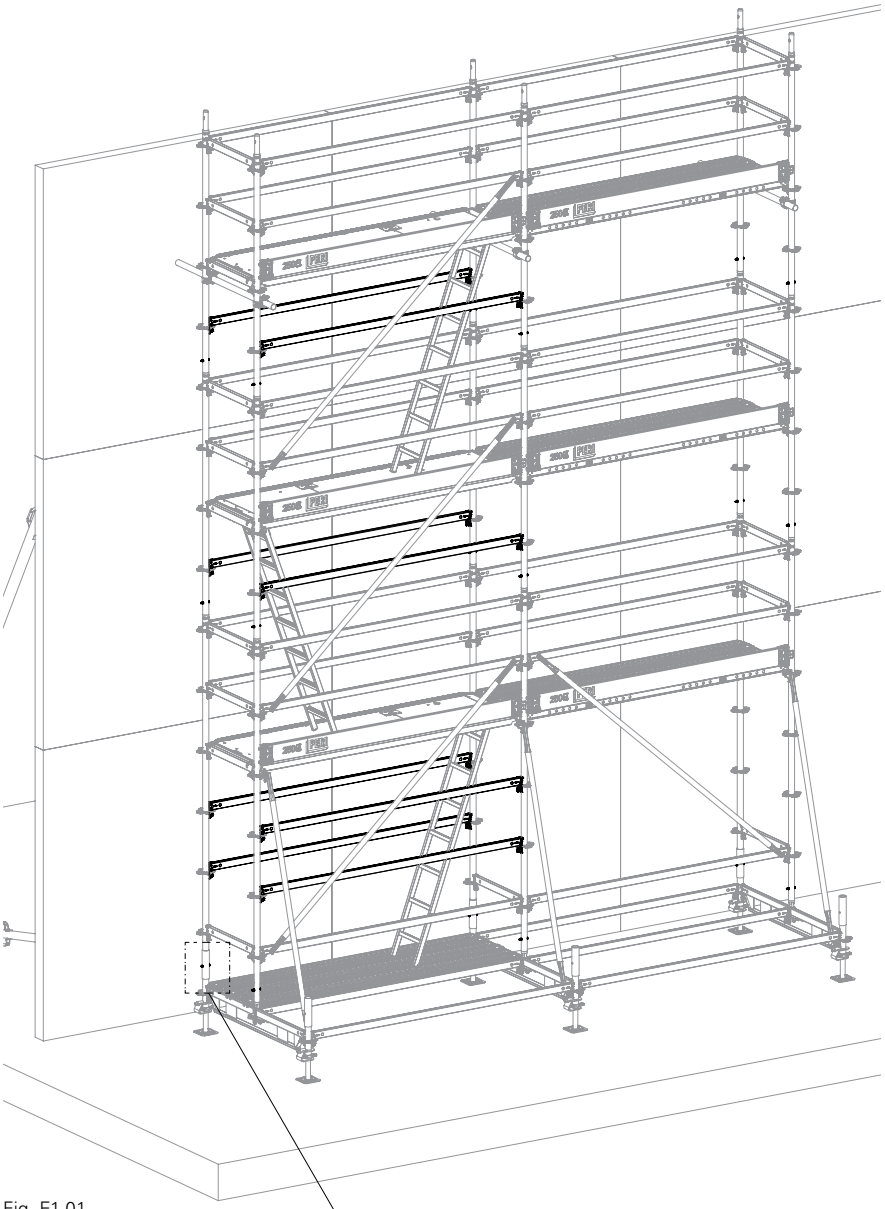


Fig. E1.01

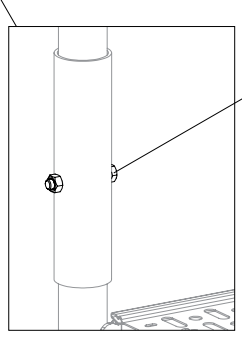


Fig. E1.01a

E2 Scaffold width 100 cm

Base width 150 cm / bay length 250

All scaffold versions can also be assembled using a width of 100 cm.

The following changes are to be made:

– Ledger UH 100 Plus (3a) instead of Ledger UH 75 Plus
– 4x Steel Deck UDG (10) instead of 3x Steel Deck UDG
– Access Deck UAL-3 + 1x Steel Deck UDG (10) instead of Access Deck UAL-3

Standing height 224 - 660 cm

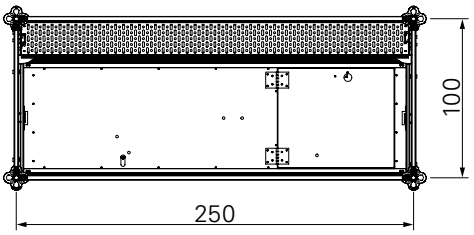


Fig. E2.01a

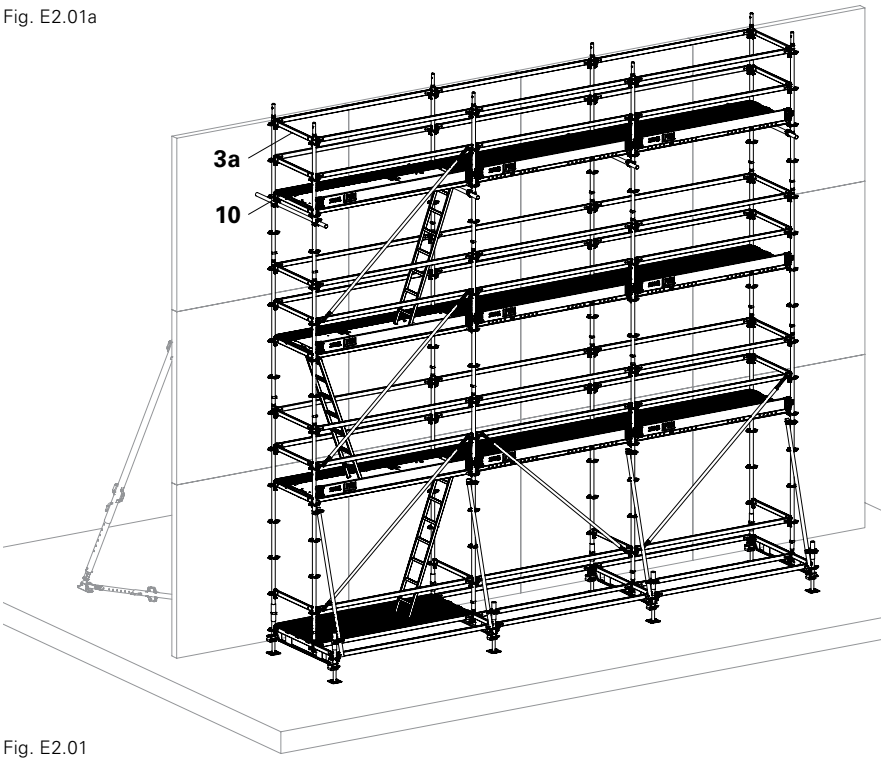


Fig. E2.01

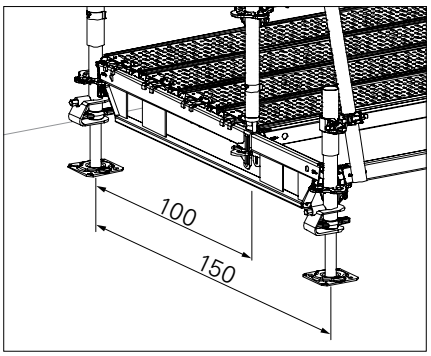


Fig. E2.01b

E2 Scaffold width 100 cm

Base width 250 cm / bay length 250

All scaffold versions can also be assembled using a width of 100 cm.

The following changes are to be made:

- Ledger UH 100 Plus (3a) instead of Ledger UH 75 Plus
- 4x Steel Deck UDG (10) instead of 3x Steel Deck UDG
- Access Deck UAL-3 + 1x Steel Deck UDG (10) instead of Access Deck UAL-3

Standing height 224 - 1060 cm

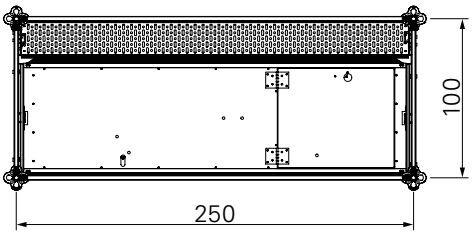


Fig. E2.02a

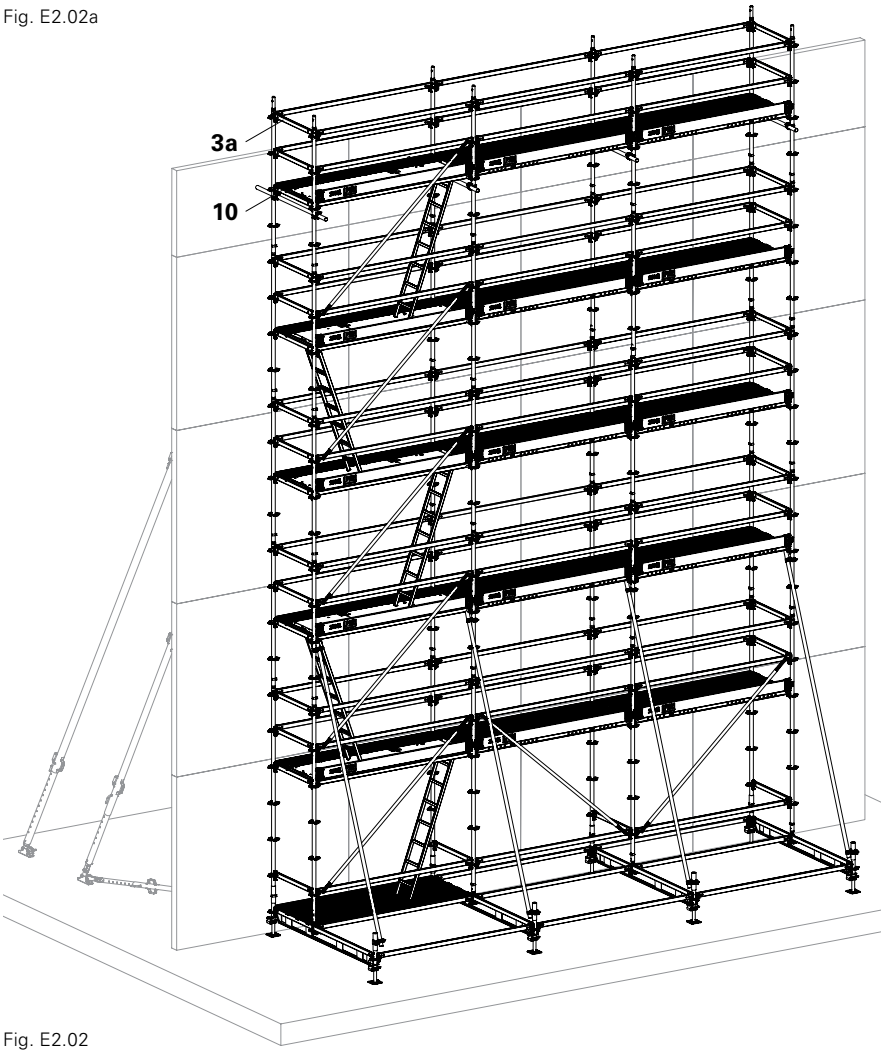


Fig. E2.02

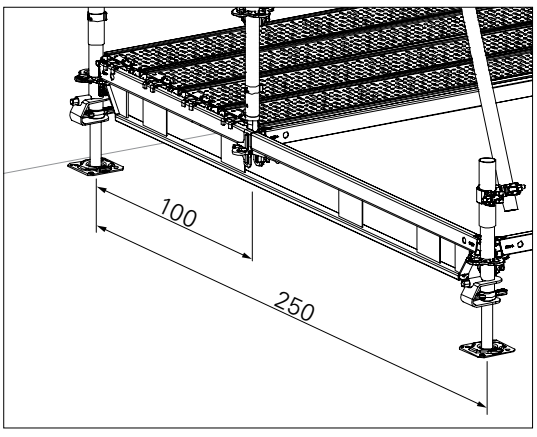


Fig. E2.02b

E3 Bay length 300 cm

Scaffold width 75 cm

For bay lengths of 300 cm and scaffold widths of 75 cm, components must be installed in addition to the Access Deck (7) in the bay of ascent.

Additional components:
- UH 75 Plus (3a)
- Ledger-to-Ledger Coupler UHA (13a)
- 2x Steel Deck UDG 25 x 75 (10)

The following changes are to be made:
- UH 300 Plus instead of Ledger UH 250 Plus

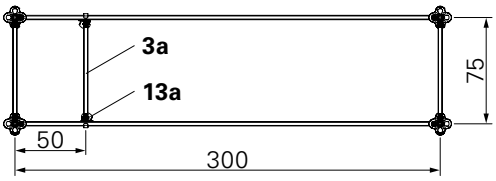


Fig. E3.01a

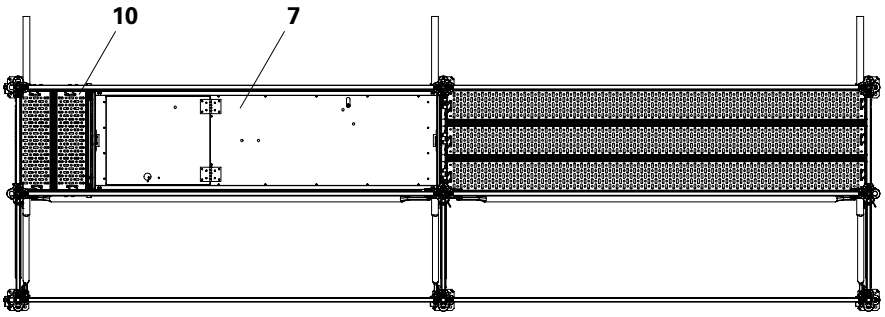


Fig. E3.01

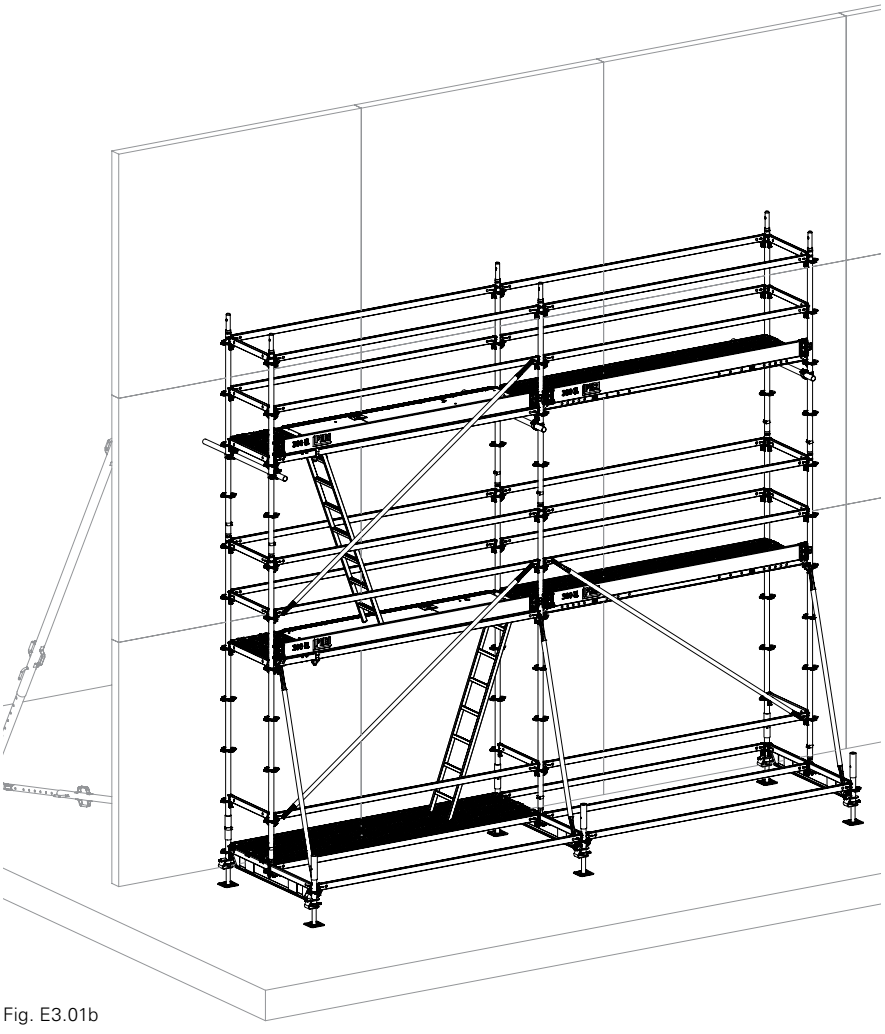


Fig. E3.01b

E3 Bay length 300 cm

Scaffold width 100 cm

For bay lengths of 300 cm and scaffold widths of 100 cm, components must be installed in addition to the Access Deck (7) in the bay of ascent.

Additional components:
- Ledger UH 100 Plus (3)
- Ledger-to-Ledger Coupler UHA (13a)
- 2x Steel Deck UDG 25 x 100 (10a)
- 1x Steel Deck UDG 25 x 250 (10)

The following changes are to be made:
- UH 300 Plus instead of Ledger UH 250 Plus

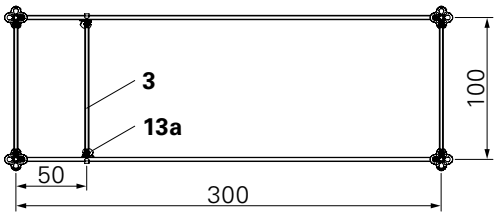


Fig. E3.02a

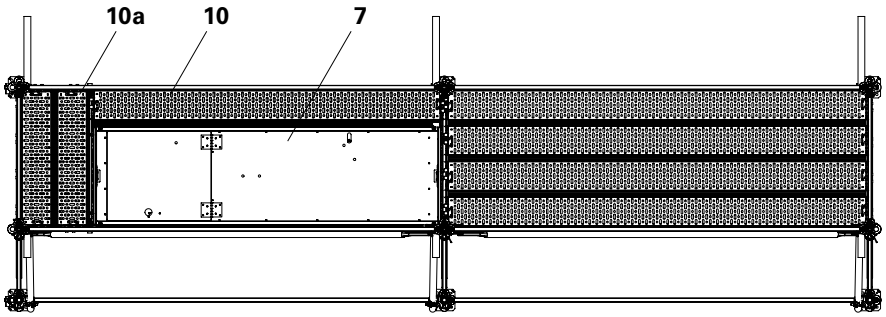


Fig. E3.02

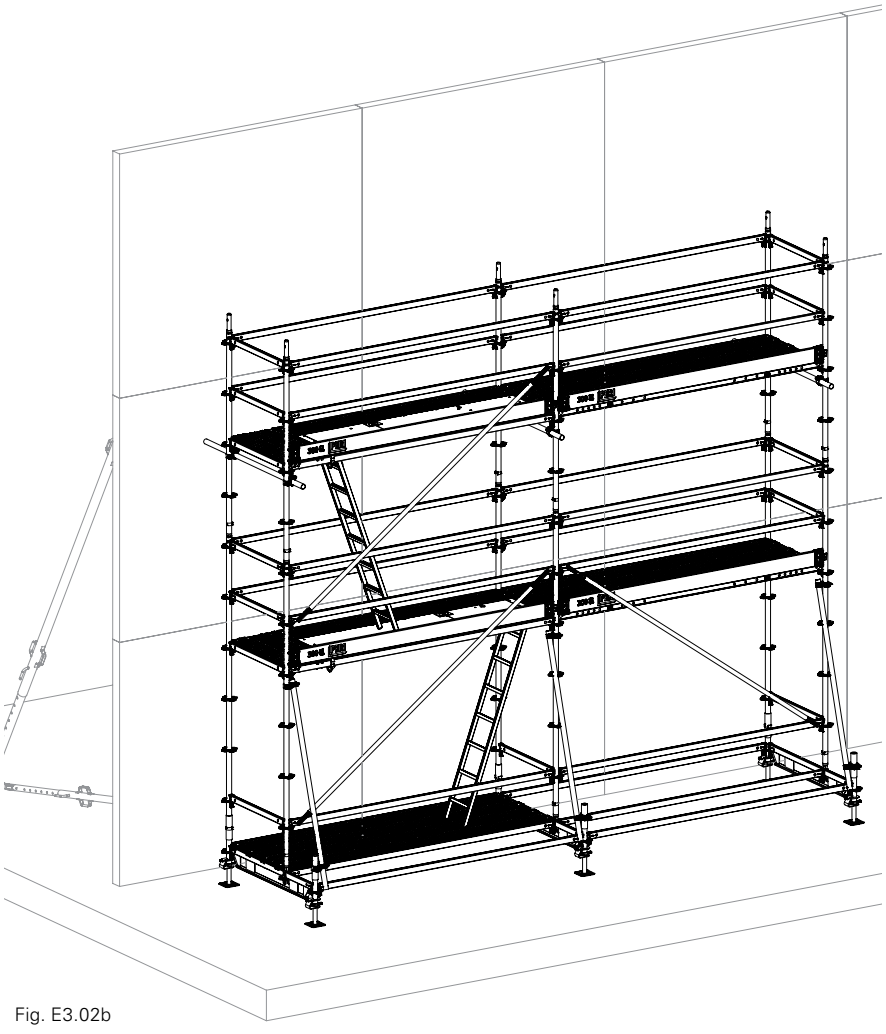


Fig. E3.02b

E4 Base Beam UVA 250

As an alternative to the Ledger UHV 250, the Base Beam UVA 250 can be used.

Assembly

1. Prepare Base Beam UVA (20) for the one-sided assembly with a 75 cm (or 100 cm) width.
2. Position Adjustable Base Plates UJB (1) with Base Beam UVA (20) (wedges are inside). Assemble frame using Ledger UH (3).
3. Horizontally align frame by adjusting the Adjustable Base Plates.
   Max. spindle adjustment range for
   – Base Plate UJB 38-50/30:
     ≤ 35 cm
   – Base Plate UJB 38-80/55:
     ≤ 35 cm
4. Establish perpendicularity of the base.
5. Insert Base Standard UVB (2) and mount Ledger UH 75 (3a).
6. Secure wedges on all Ledgers using a 500 g hammer.
7. Insert Steel Decks UDG (10). Standing position: below.
8. Secure Adjustable Base Plate UJB with Spindle Locking UJS (16). (Fig. E4.01)
9. Additional assembly as described in Sections B1 - B3. (Fig. E4.02)

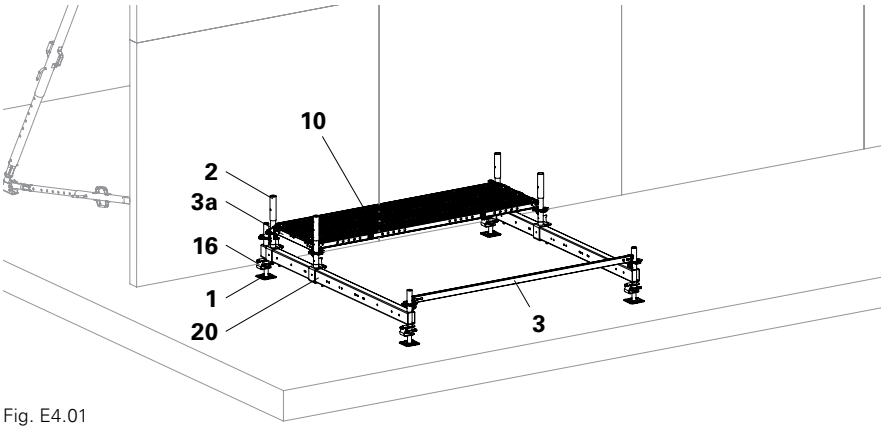


Fig. E4.01

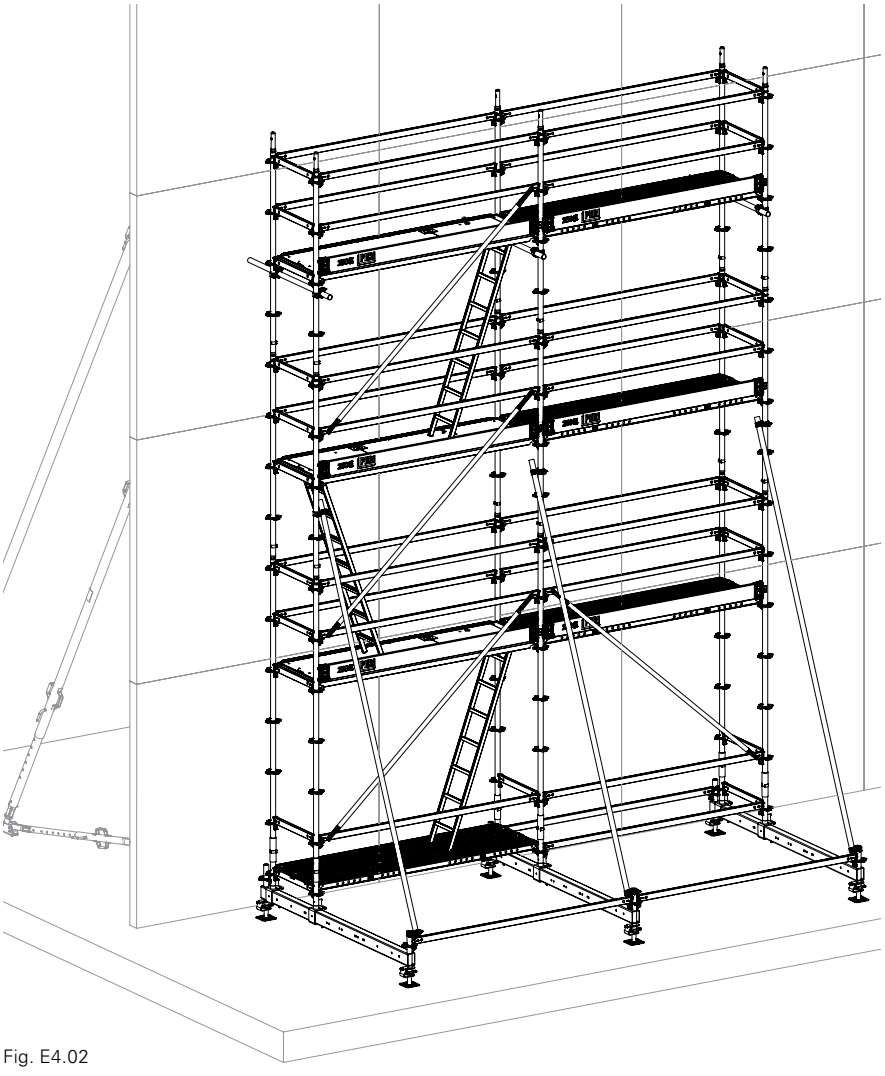


Fig. E4.02

E5 Hatch UAF

As an alternative to the Access Deck UAL-3, the Hatch UAF can be mounted.

Assembly

1. Attach Ledgers UH (3) and securely fix with wedges.
2. Securely fix wedges for Ledger-to-Ledger Coupler UHA (13a).
3. Install Ledger UH 75 (3a) on Ledger-to-Ledger Couplers UHA (13a) at spacings of 100 cm as support for Hatch UAF. (Fig. E5.01)
4. Mount Hatch UAF (21) and Steel Deck UDG (10). Standing position: below.
   → Lift-off prevention devices drop under the UH Ledger (3a) and secure the decking.
5. Attach Ladder UAF (22). (Fig. E5.02)
6. Additional assembly as described in Sections A1 - A3 or B1 - B3.

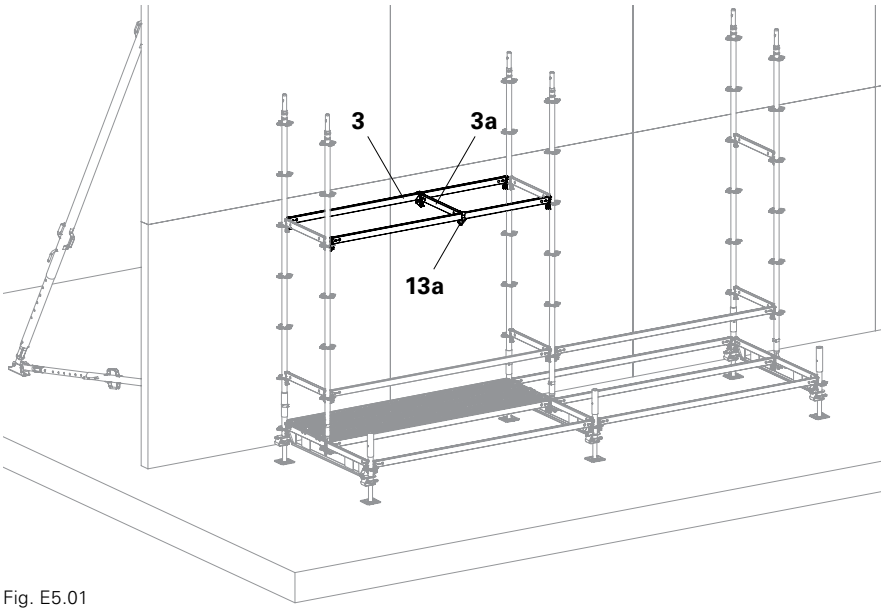


Fig. E5.01

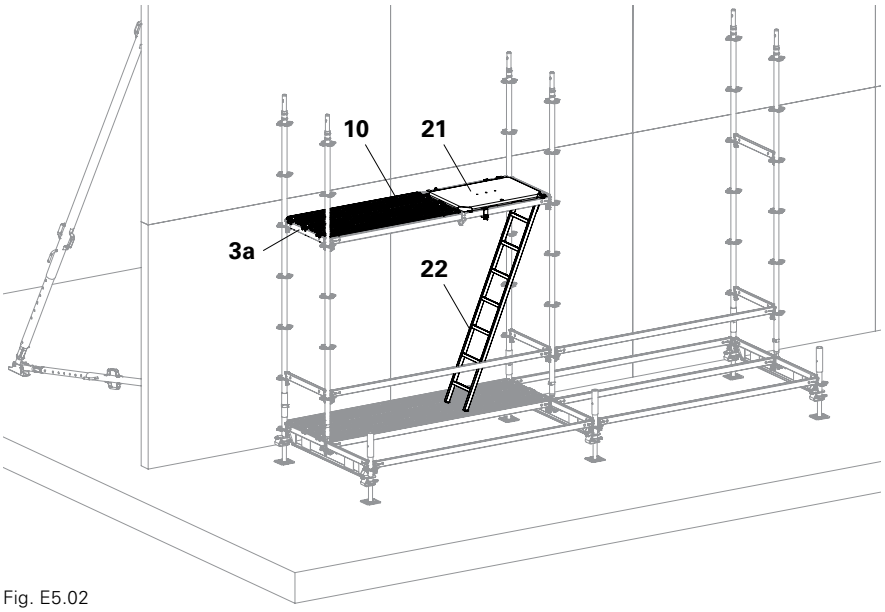


Fig. E5.02

E6 Coupler Braces UBC

Alternatively, instead of the Node Brace UBK, the Coupler Brace UBC can be mounted for stability.

Assembly
Mount Coupler Brace UBC (23) at the top to the outside Standard. Mount at bottom with Swivel Coupling 48/60 (14b) to the Base Standard UVB 24. (Fig. E6.01)

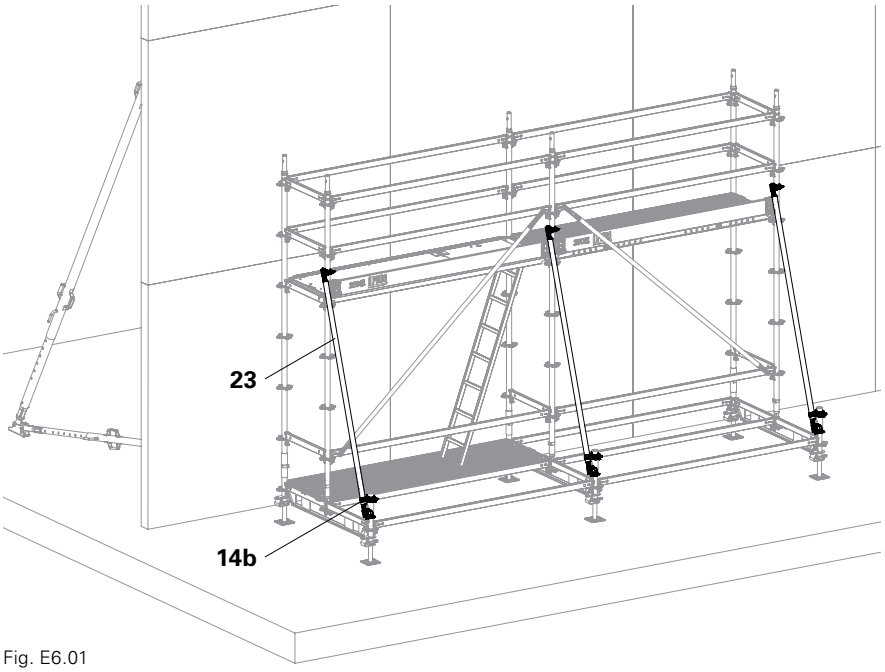


Fig. E6.01

E7 External stairs

Follow Instructions for Assembly and Use for PERI UP Flex Stairs 75.

As an alternative to the Access Deck UAL-3 and UAF-3, stairs can be mounted to the outside of the reinforcement scaffold. (Fig. E7.01)

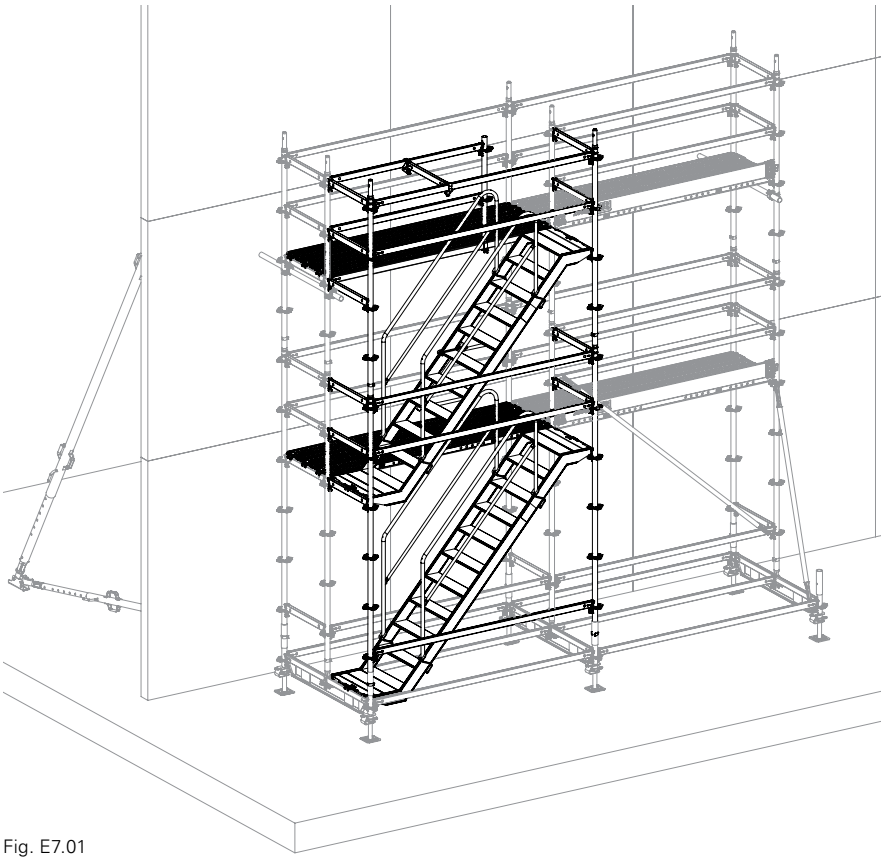
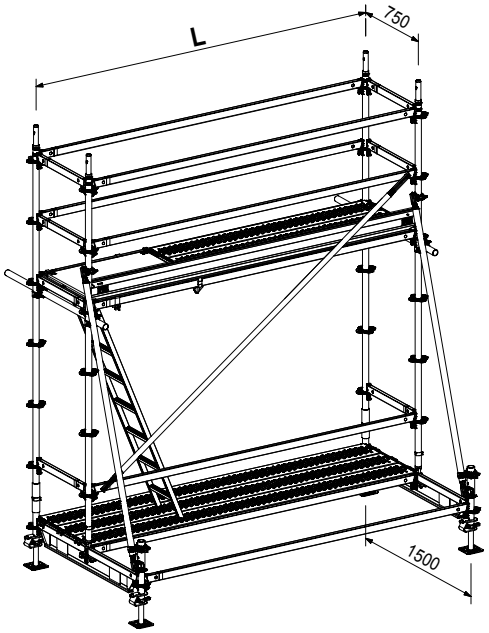


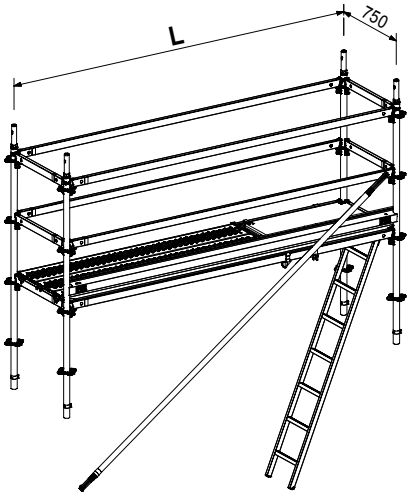
Fig. E7.01

PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg		
		Reinforcement Scaffold UDI/UDG Basic	**L**
001090	326.698	**Reinforce. Scaff. UDI/UDG Basic 200 x 150/75**	2000
001094	358.268	**Reinforce. Scaff. UDI/UDG Basic 250 x 150/75**	2500
001098	390.268	**Reinforce. Scaff. UDI/UDG Basic 300 x 150/75**	3000

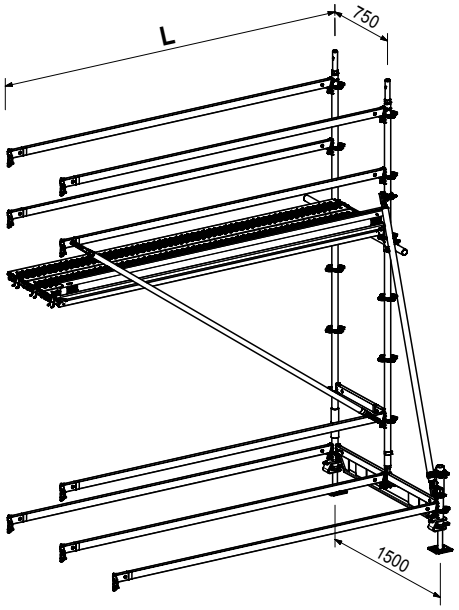


		Reinforcement Scaffold UDI/UDG Basic Plus	**L**
001091	147.758	**Reinforce. Scaff. UDI/UDG Basic Plus 200/75**	2000
001095	165.948	**Reinforce. Scaff. UDI/UDG Basic Plus 250/75**	2500
001099	184.268	**Reinforce. Scaff. UDI/UDG Basic Plus 300/75**	3000

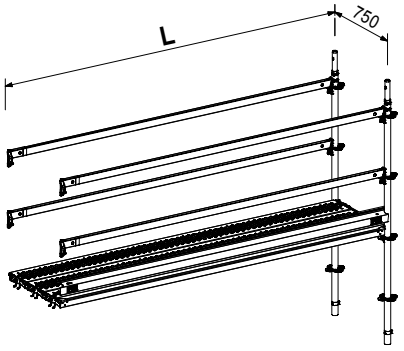


PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg	Reinforcement Scaffold UDI/UDG Add.	L
001107	164.328	**Reinforce. Scaff. UDI/UDG Add. 150 x 150/75**	1500
001092	178.038	**Reinforce. Scaff. UDI/UDG Add. 200 x 150/75**	2000
001096	198.628	**Reinforce. Scaff. UDI/UDG Add. 250 x 150/75**	2500
001100	219.618	**Reinforce. Scaff. UDI/UDG Add. 300 x 150/75**	3000

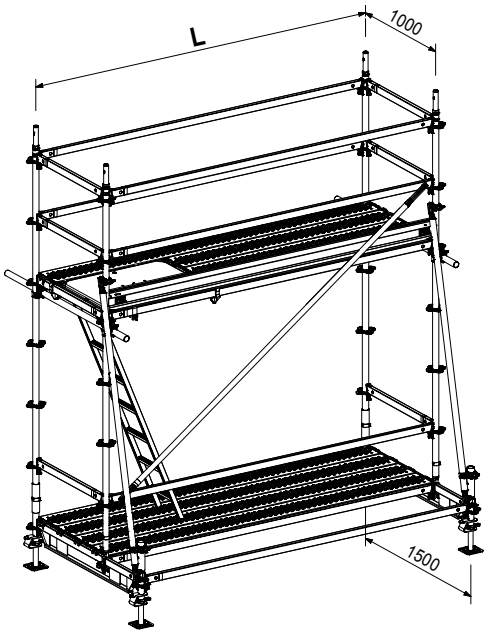


		Reinforcement Scaffold UDI/UDG Add Plus	L
001108	72.918	**Reinforce. Scaff. UDI/UDG Add. Plus 150/75**	1500
001093	87.638	**Reinforce. Scaff. UDI/UDG Add. Plus 200/75**	2000
001097	102.048	**Reinforce. Scaff. UDI/UDG Add. Plus 250/75**	2500
001101	116.768	**Reinforce. Scaff. UDI/UDG Add. Plus 300/75**	3000

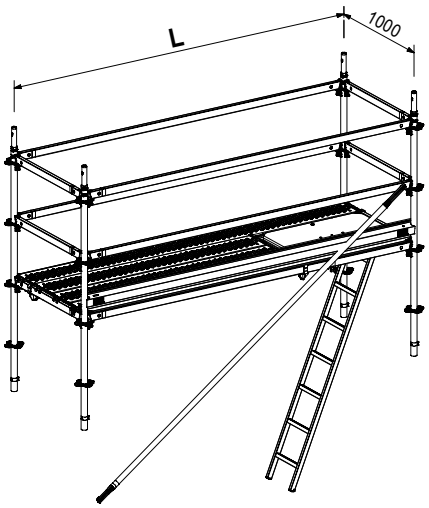


PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg		
		Reinforcement Scaffold UDI/UDG Basic	**L**
001109	372.100	**Reinforce. Scaff. UDI/UDG Basic 200 x 150/100**	2000
001113	410.390	**Reinforce. Scaff. UDI/UDG Basic 250 x 150/100**	2500
001117	449.310	**Reinforce. Scaff. UDI/UDG Basic 300 x 150/100**	3000

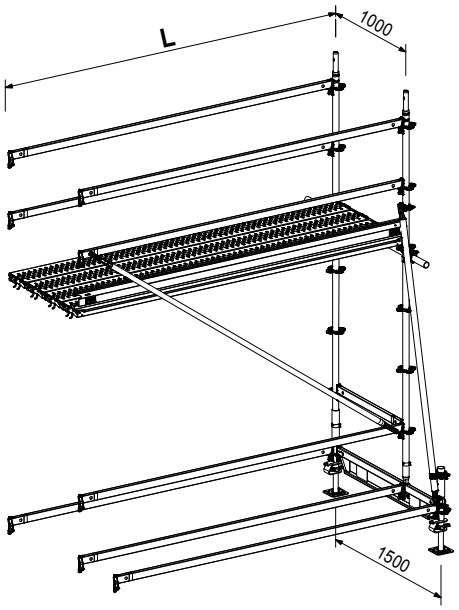


		Reinforcement Scaffold UDI/UDG Basic Plus	**L**
001110	177.640	**Reinforce. Scaff. UDI/UDG Basic Plus 200/100**	2000
001114	199.850	**Reinforce. Scaff. UDI/UDG Basic Plus 250/100**	2500
001118	222.290	**Reinforce. Scaff. UDI/UDG Basic Plus 300/100**	3000

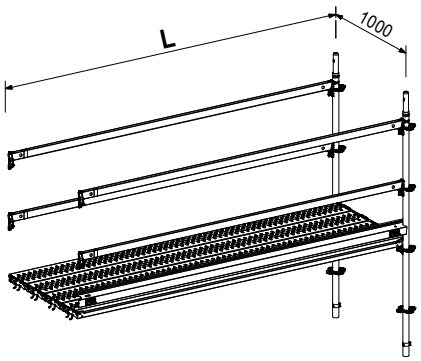


PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg	Reinforcement Scaffold UDI/UDG Add.	L
001121	169.958	**Reinforce. Scaff. UDI/UDG Add. 150 x 150/100**	1500
001111	193.558	**Reinforce. Scaff. UDI/UDG Add. 200 x 150/100**	2000
001115	216.848	**Reinforce. Scaff. UDI/UDG Add. 250 x 150/100**	2500
001119	240.638	**Reinforce. Scaff. UDI/UDG Add. 300 x 150/100**	3000

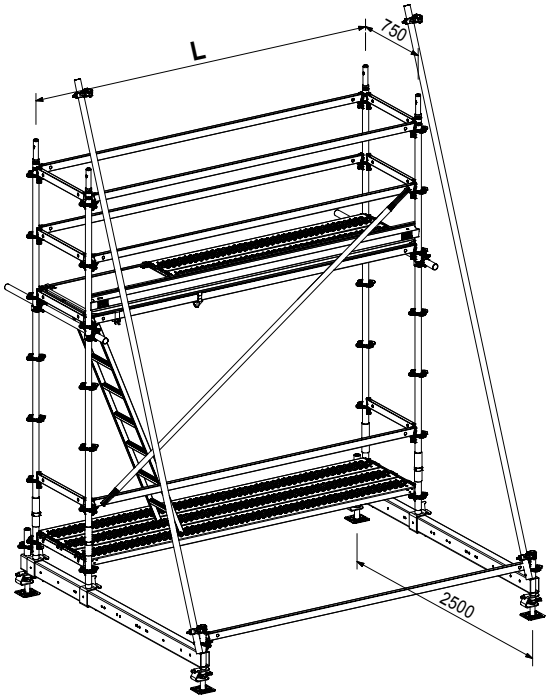


		Reinforcement Scaffold UDI/UDG Add. Plus	L
001122	83.988	**Reinforce. Scaff. UDI/UDG Add. Plus 150/100**	1500
001112	101.498	**Reinforce. Scaff. UDI/UDG Add. Plus 200/100**	2000
001116	118.608	**Reinforce. Scaff. UDI/UDG Add. Plus 250/100**	2500
001120	136.128	**Reinforce. Scaff. UDI/UDG Add. Plus 300/100**	3000

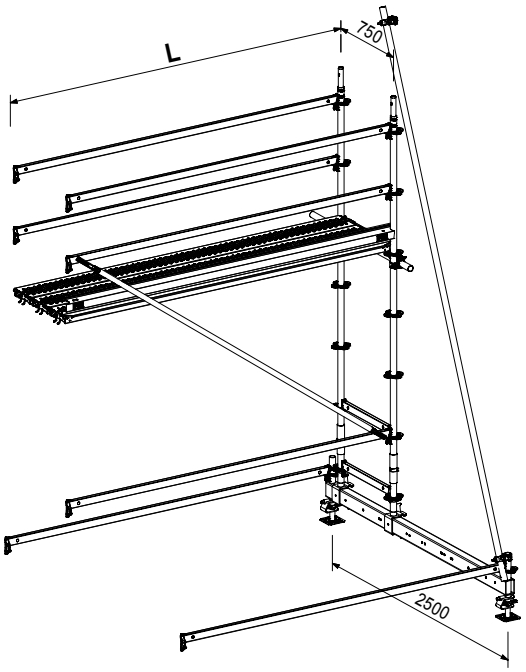


PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg	Reinforcement Scaffold UDI/UDG Basic UVA	L
001123	401.134	**Reinforce. Scaff. Basic UVA 200 x 250/75**	2000
001125	431.384	**Reinforce. Scaff. Basic UVA 250 x 250/75**	2500
001127	462.064	**Reinforce. Scaff. Basic UVA 300 x 250/75**	3000



Item no.	Weight kg	Reinforcement Scaffold UDI/UDG Add. UVA	L
001129	192.756	**Reinforce. Scaff. Add. UVA 150 x 250/75**	1500
001124	212.236	**Reinforce. Scaff. Add. UVA 200 x 250/75**	2000
001126	231.506	**Reinforce. Scaff. Add. UVA 250 x 250/75**	2500
001128	251.176	**Reinforce. Scaff. Add. UVA 300 x 250/75**	3000



PERI UP Flex Reinforcement Scaffold 75 and 100

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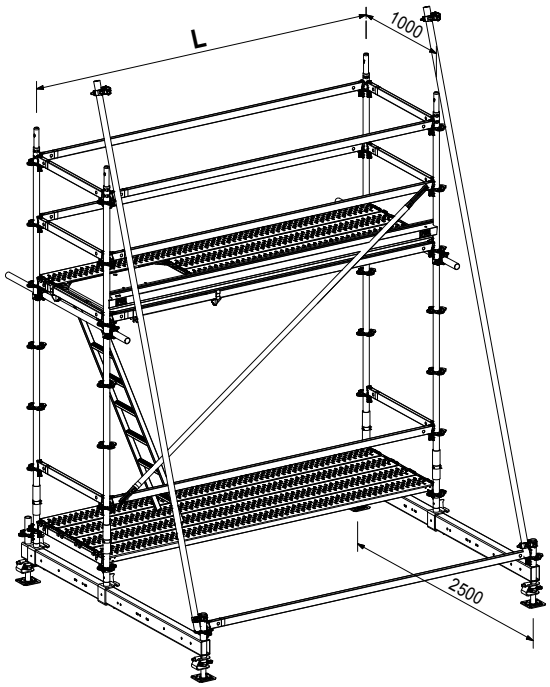
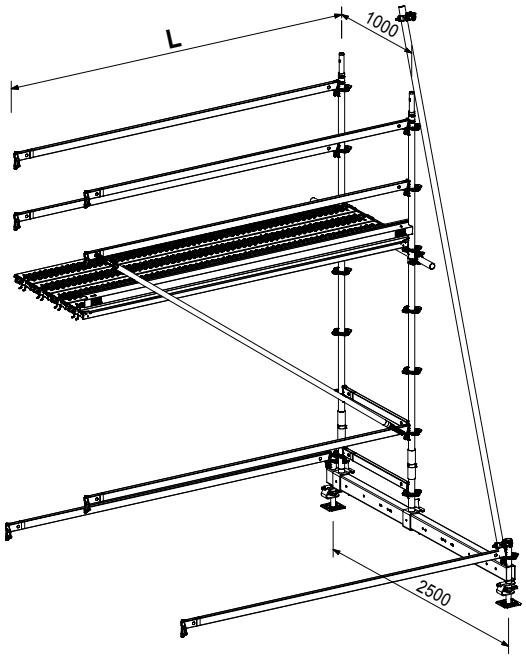
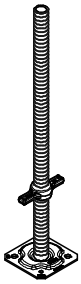
001130	449.856	**Reinforce. Scaff. Basic UVA 200 x 250/100**	2000
001132	486.826	**Reinforce. Scaff. Basic UVA 250 x 250/100**	2500
001134	524.426	**Reinforce. Scaff. Basic UVA 300 x 250/100**	3000

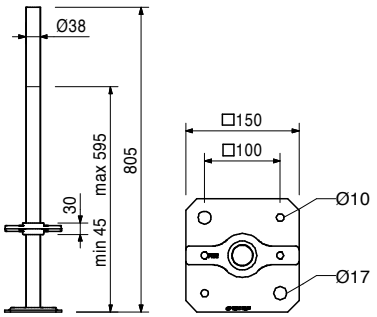


		Reinforcement Scaffold UDI/UDG Add. UVA	**L**
001136	207.146	**Reinforce. Scaff. Add. UVA 150 x 250/100**	1500
001131	229.416	**Reinforce. Scaff. Add. UVA 200 x 250/100**	2000
001133	251.386	**Reinforce. Scaff. Add. UVA 250 x 250/100**	2500
001135	273.856	**Reinforce. Scaff. Add. UVA 300 x 250/100**	3000

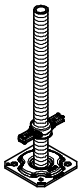


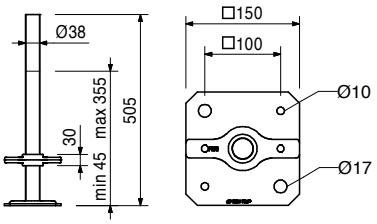
Item no.	Weight kg		
100242	4.570	**Adj. Base Plate UJB 38-80/55**	**Note** With captive yellow Quick Jack Nut.



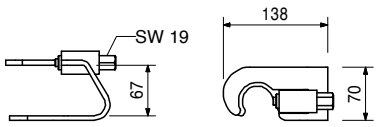


100411	3.390	**Adj. Base Plate UJB 38-50/30**	**Note** With captive red Quick Jack Nut.

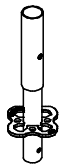


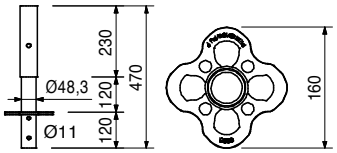


100863	1.020	**Spindle Locking UJS** Secures the Adjustable Base Plates and Section Spindles Ø 38 mm in the leg while moving.	**Technical Data** Permissible load 1.5 kN.

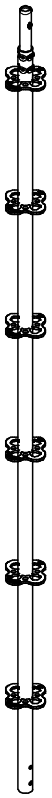


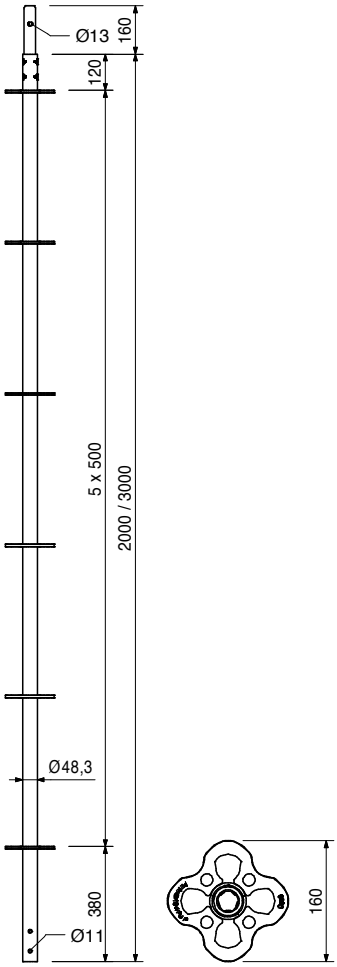
100014	2.470	**Base Standard UVB 24** For assembly directly on the base spindle.	



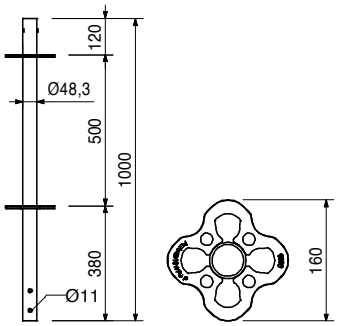


Item no.	Weight kg	
		Standards UVR
100009	10.000	**Standard UVR 200**
100012	14.700	**Standard UVR 300**





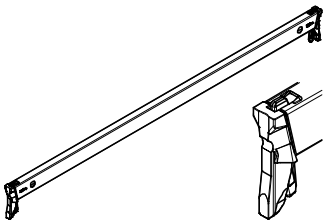
100000	4.610	**Top Standard UVH 100** Without spigot for supporting head spindles.

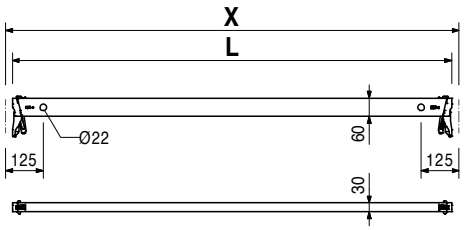


PERI UP Flex Reinforcement Scaffold 75 and 100

Item no.	Weight kg		L	X
		Ledgers UH Plus		
114595	2.070	**Ledger UH 50 Plus**	454	500
114629	2.730	**Ledger UH 75 Plus**	704	750
114632	4.390	**Ledger UH 100 Plus**	954	1000
114641	4.710	**Ledger UH 150 Plus**	1454	1500
117032	5.380	**Ledger UH 175 Plus**	1704	1750
114645	6.040	**Ledger UH 200 Plus**	1954	2000
114648	7.360	**Ledger UH 250 Plus**	2454	2500
114651	8.680	**Ledger UH 300 Plus**	2954	3000

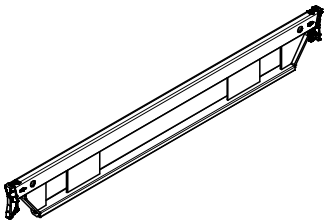
Note
Longitudinally-stamped for easier identification.

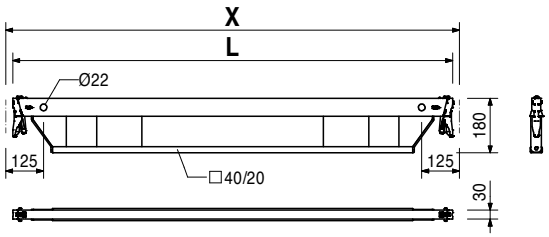




			L	X
		Ledger UHV Plus		
114681	10.900	**Ledger UHV 150 Plus**	1454	1500
114691	17.900	**Ledger UHV 250 Plus**	2454	2500

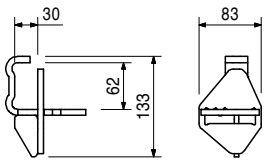
For high loads, e.g. material storage.



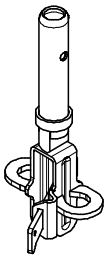


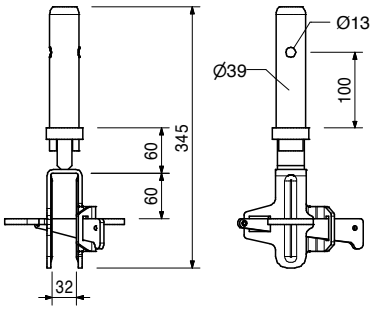
101731	0.841	**Ledger to Ledger Coupler UHA**

For connecting ledger to ledger at right-angles.



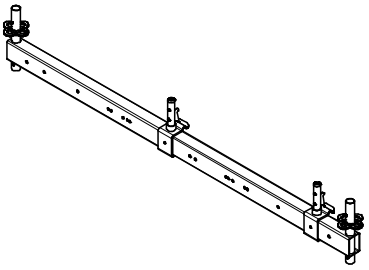
110792	1.900	**Ledger to Ledger Coupler UHA Half w. Spigot**

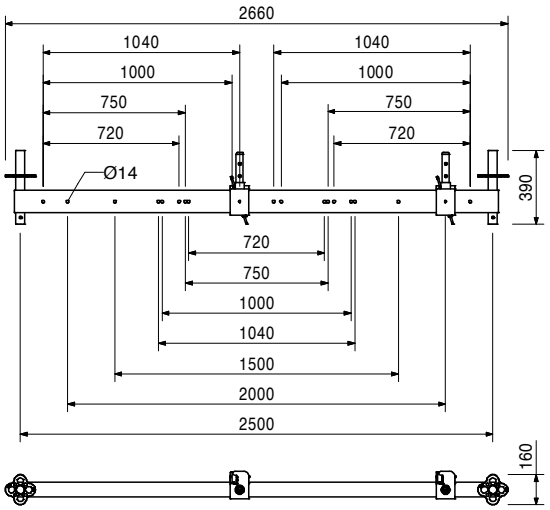




Item no.	Weight kg	
100870	40.700	**Base Beam UVA 250**

For free-standing and mobile scaffold units. For symmetric and antimetric assembly of UP T 72/T 104 and Rosett 72, 75, 100, 104 and symmetric assembly of Rosett b = 75, 100, 150, 200 and 250 cm.



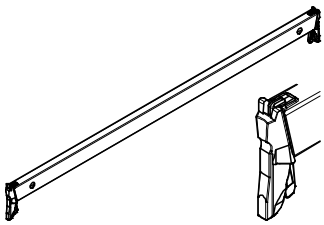


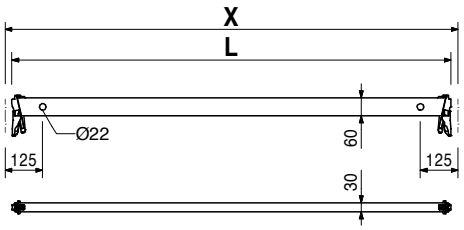
		Ledgers UH
404779	2.040	**Ledger UH 50**
400017	2.700	**Ledger UH 75**
401159	3.360	**Ledger UH 100**
400021	4.690	**Ledger UH 150**
400023	6.020	**Ledger UH 200**
400025	7.340	**Ledger UH 250**
400027	8.670	**Ledger UH 300**

L	X
454	500
704	750
954	1000
1454	1500
1954	2000
2454	2500
2954	3000

Note

Longitudinally-stamped and with coloured label for easier identification.
Ledgers UH can be replaced by ledgers UH Plus.





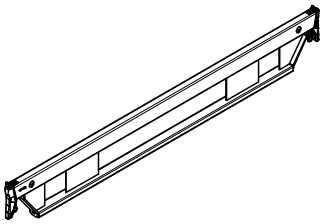
Item no.	Weight kg	
		Ledger UHV
409107	10.900	**Ledger UHV 150**
409109	18.000	**Ledger UHV 250**

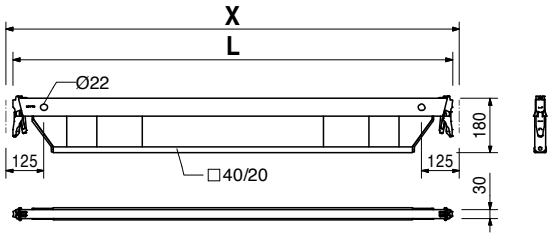
For high loads, e.g. material storage.

L	X
1454	1500
2454	2500

Note

Ledgers UHV can be replaced by ledgers UHV Plus.





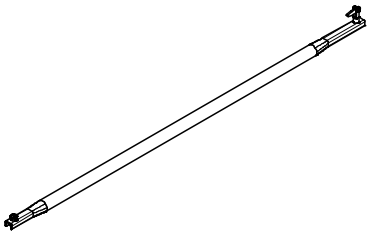
Item no.	Weight kg	
		Ledger Braces UBL
100057	6.380	**Ledger Brace UBL 150/200**
100061	7.150	**Ledger Brace UBL 200/200**
100065	8.050	**Ledger Brace UBL 250/200**
100069	9.040	**Ledger Brace UBL 300/200**

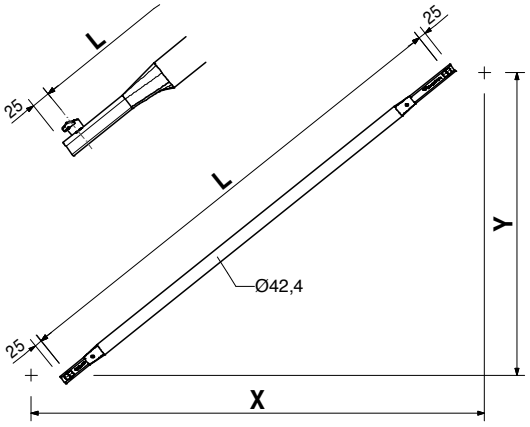
Attach using holes in the ledger.

L	X	Y
2358	1500	2000
2658	2000	2000
3010	2500	2000
3400	3000	2000

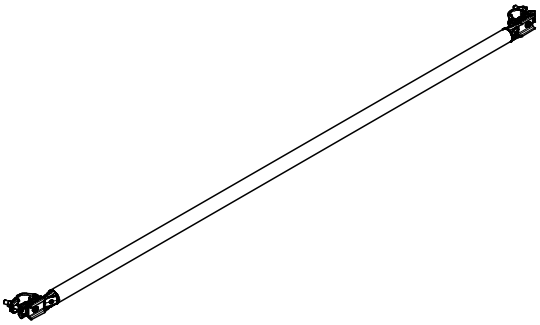
Note

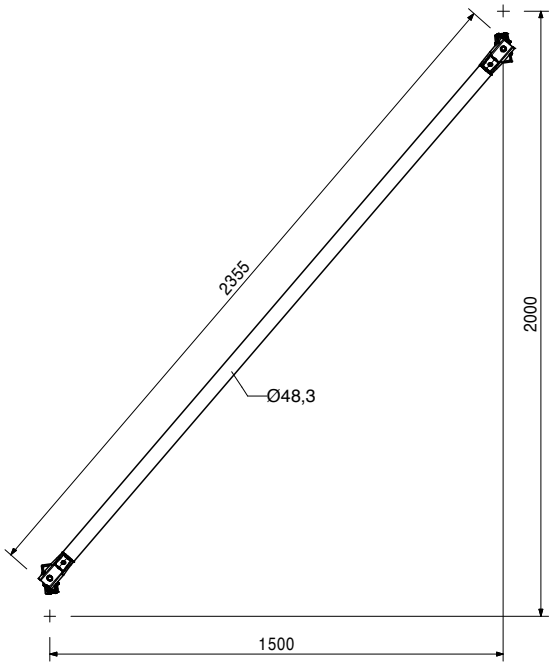
Longitudinally-stamped for easier identification.



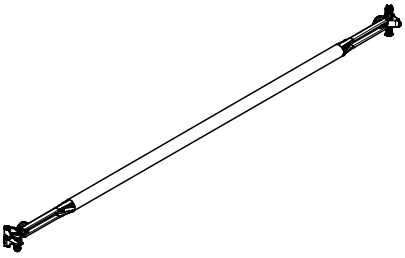


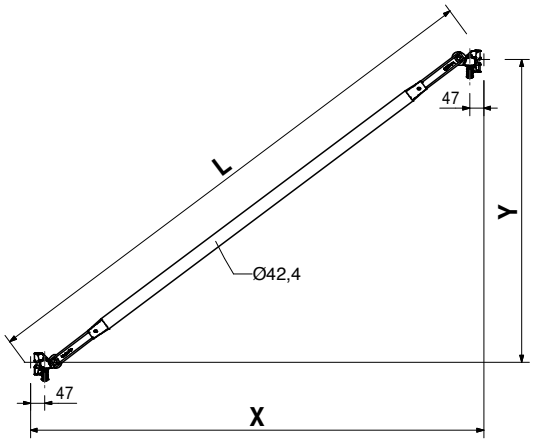
Item no.	Weight kg	
100416	9.520	**Coupler Brace UBC 150/200** For special applications. For connecting to Scaffold Tube Ø 48 mm.





			L	X	Y
		Node Brace UBK			
124170	6.770	**Node Brace UBK 75/200**	2190	750	2000
100572	7.590	**Node Brace UBK 150/200**	2539	1500	2000





PERI UP Flex Reinforcement Scaffold 75 and 100

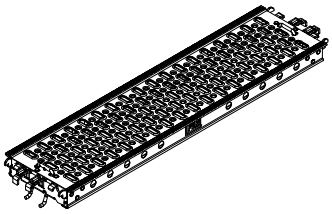
Item no.	Weight kg	
		Steel Decks UDG 25
124121	5.260	**Steel Deck UDG 25 x 75**
124118	6.630	**Steel Deck UDG 25 x 100**
124112	9.410	**Steel Deck UDG 25 x 150**
124109	12.200	**Steel Deck UDG 25 x 200**
123771	14.900	**Steel Deck UDG 25 x 250**
124915	17.700	**Steel Deck UDG 25 x 300**

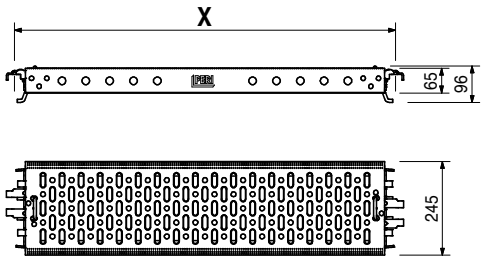
Mounted on Ledger UH.

X	perm. p [kN/m²]	max. p [kN/m²]
750	6.0	40.0
1000	6.0	40.0
1500	6.0	19.6
2000	6.0	10.9
2500	4.5	6.9
3000	3.0	4.7

Note

perm. p according to DIN EN 12811-1.
max. p = < maximum possible load without deflection limitation.





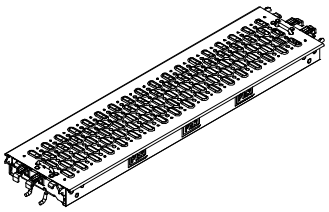
Item no.	Weight kg	
		Industrial Decks UDI 25
105925	5.520	**Industrial Deck UDI 25 x 75**
106092	6.950	**Industrial Deck UDI 25 x 100**
107002	9.790	**Industrial Deck UDI 25 x 150**
108380	12.700	**Industrial Deck UDI 25 x 200**
108540	15.500	**Industrial Deck UDI 25 x 250**
108689	18.400	**Industrial Deck UDI 25 x 300**

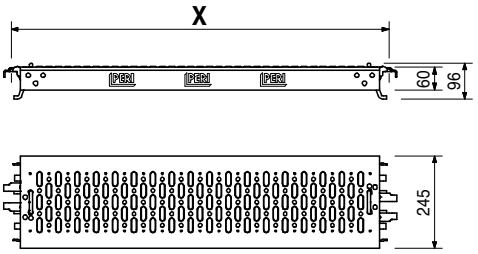
Mounted on Ledger UH.

X	perm. p [kN/m²]	max. p [kN/m²]
750	6.0	40.0
1000	6.0	40.0
1500	6.0	19.6
2000	6.0	10.9
2500	4.5	6.9
3000	3.0	4.7

Note

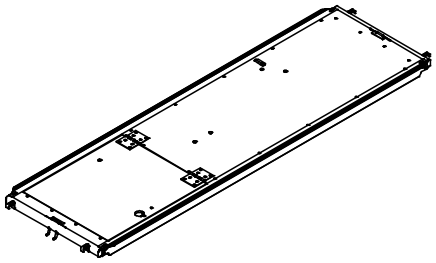
perm. p according to DIN EN 12811-1.
max. p = < maximum possible load without deflection limitation.

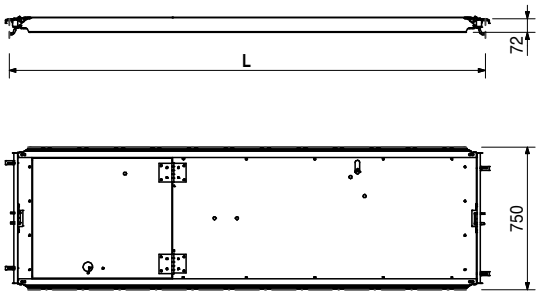




Item no.	Weight kg		L
		Access Decks UAL-3	
126393	15.600	**Access Deck UAL-3, 75 x 150/3**	1500
126392	19.600	**Access Deck UAL-3, 75 x 200/3**	2000
126314	23.500	**Access Deck UAL-3, 75 x 250/3**	2500

Technical Data
Load Class 3, 2.0 kN/m².

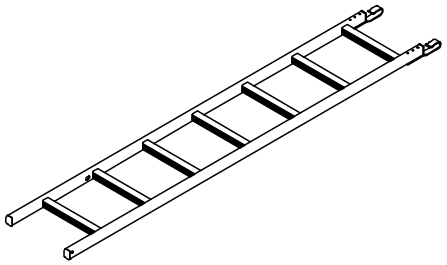


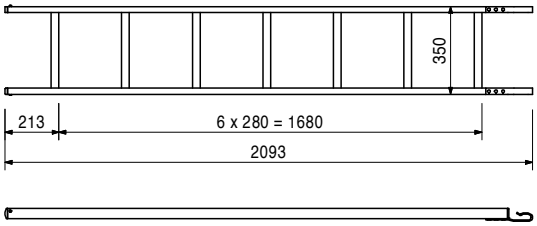


Accessories

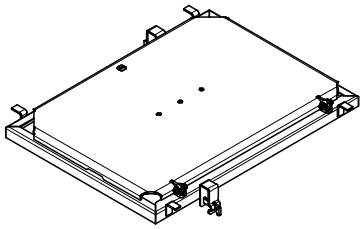
126318	3.750	**Ladder Flex UEL with hook**

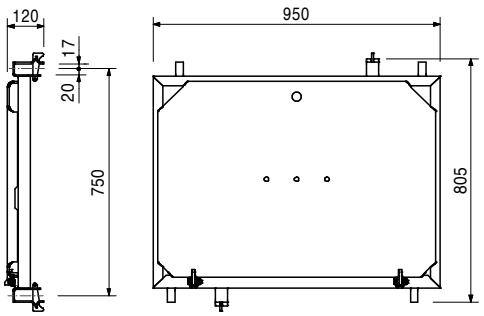
126318	3.750	**Ladder Flex UEL with hook**





109755	15.600	**Hatch UAF 75 x 100**

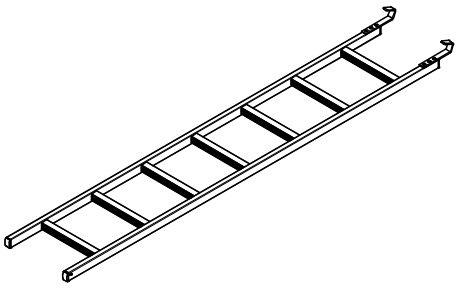


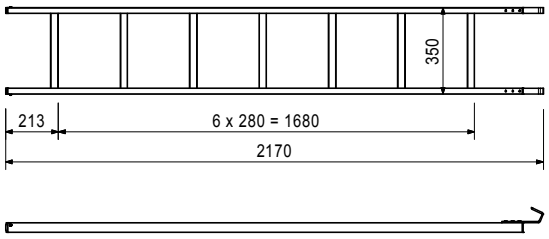


Accessories

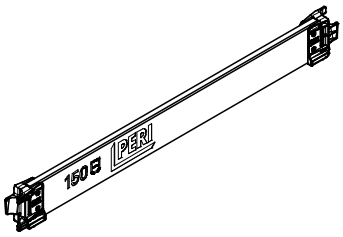
109879	3.820	**Ladder UAF 200, Alu**

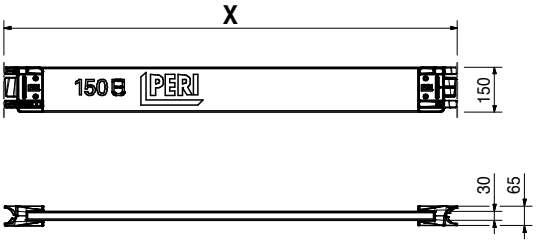
Item no.	Weight kg	
109879	3.820	**Ladder UAF 200, Alu** For mounting to Hatch UAF.





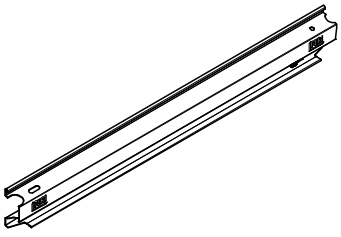
		Toeboards Wood UPF	L	X
129498	3.320	**Toeboard Wood UPF 150**	1495	1500
129500	4.390	**Toeboard Wood UPF 200**	1995	2000
129502	5.460	**Toeboard Wood UPF 250**	2495	2500
129504	6.520	**Toeboard Wood UPF 300**	2995	3000

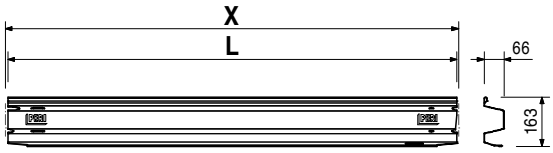




		Toeboards Steel UPY	L	X
110160	3.000	**Toeboard Steel UPY 150**	1486	1500
110176	4.030	**Toeboard Steel UPY 200**	1986	2000
110208	5.060	**Toeboard Steel UPY 250**	2486	2500
110211	6.100	**Toeboard Steel UPY 300**	2986	3000

Note
- Standard: Surface galvanized and yellow painted.
- Individual design of the Toeboards regarding colouring and imprint possible on request

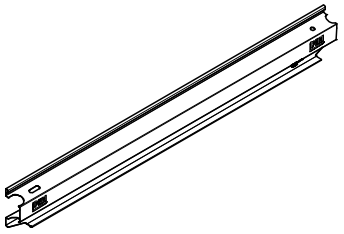


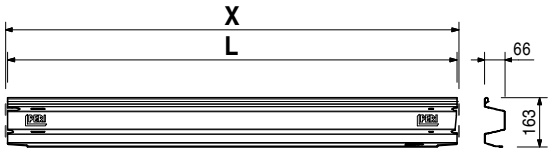


PERI UP Flex Reinforcement Scaffold 75 and 100

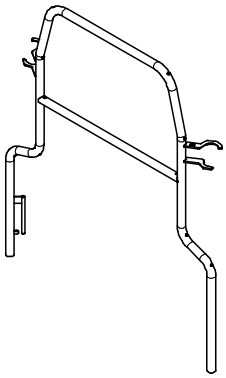
Item no.	Weight kg		L	X
		Toeboards Steel UPY, galv.		
123694	3.000	**Toeboard Steel UPY 150, galv.**	1486	1500
123696	4.030	**Toeboard Steel UPY 200, galv.**	1986	2000
123698	5.060	**Toeboard Steel UPY 250, galv.**	2486	2500
123700	6.100	**Toeboard Steel UPY 300, galv.**	2986	3000

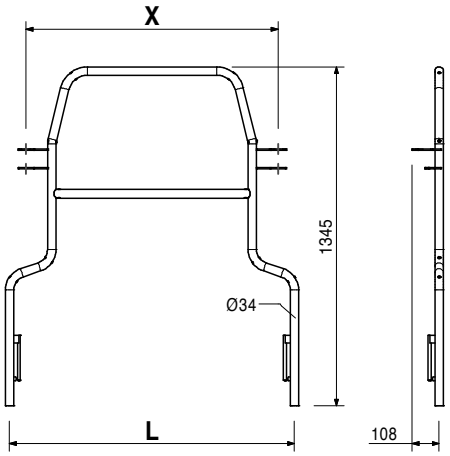
Note
Surface: galvanized.





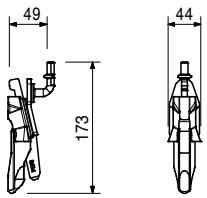
			L	X
		Advance Guardrails UPA		
130577	6.500	**Advance Guardrail UPA 75**	881	750
130583	7.600	**Advance Guardrail UPA 100**	1131	1000





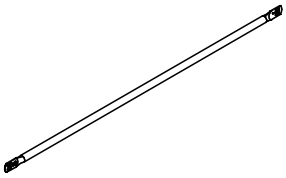
130562	0.623	**Guardrail Holder EPW**

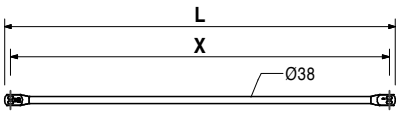
For mounting Guardrails EPG to the rosettes.



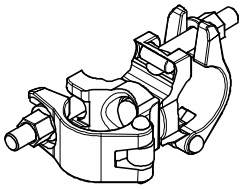
Item no.	Weight kg		L	X
		Guardrails EPG		
130195	2.480	**Guardrail EPG 150**	1565	1500
130197	3.280	**Guardrail EPG 200**	2065	2000
130199	4.090	**Guardrail EPG 250**	2565	2500
130201	4.890	**Guardrail EPG 300**	3065	3000

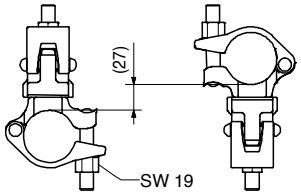
Note
Longitudinally-stamped for easier identification.



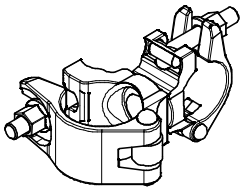


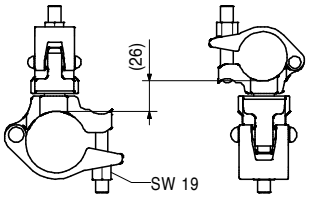
017010 | 1.400 | **Swivel Coupling DK 48/48, galv.**
For Scaffold Tubes Ø 48 mm.



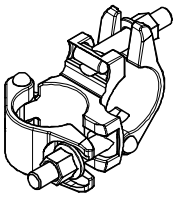


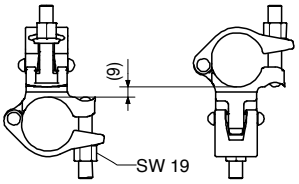
017000 | 1.540 | **Swivel Coupling DK 60/48, galv.**
For Scaffold Tubes Ø 48 mm and Ø 60 mm.



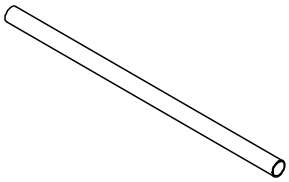


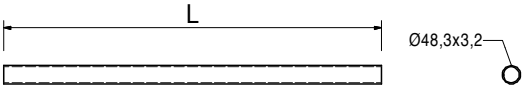
017020 | 1.120 | **Standard Coupler NK 48/48, galv.**
For Scaffold Tubes Ø 48 mm.



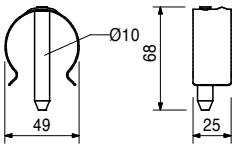


			L
		Scaff. Tubes Steel Ø 48.3 x 3.2, l	
026412	7.100	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 2.0 m**	2000
026419	17.750	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 5.0 m**	5000

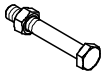


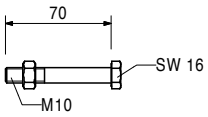


Item no.	Weight kg	
111053	0.059	**Locking Pin Ø 48/57** As tension-proof connection of standards with a diameter of 48 up to 57 mm.



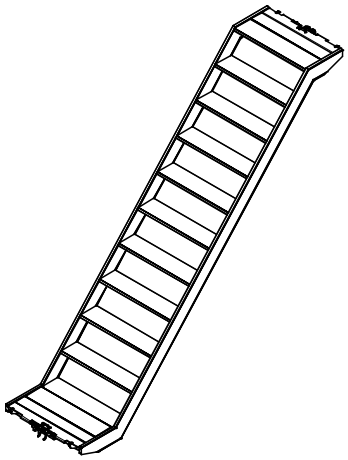
100719	0.060	**Bolt ISO 4014 M10 x 70-8.8 MU** As tension-proof connection of standards for suspended scaffolds or lattice girders.

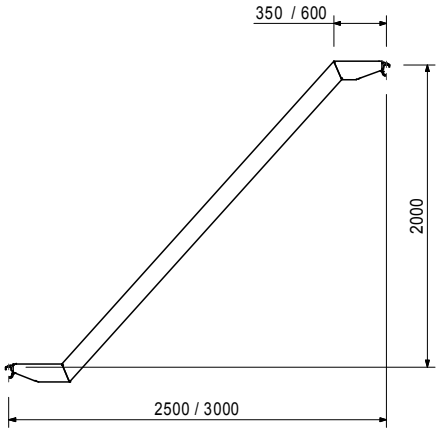




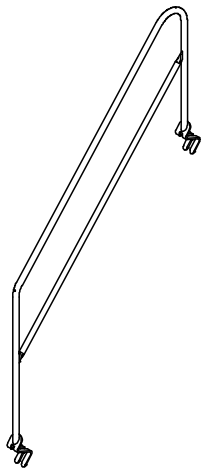
111117	28.000	**Staircase UAS 75 x 250/200, Alu** Assembly on Ledgers UH.

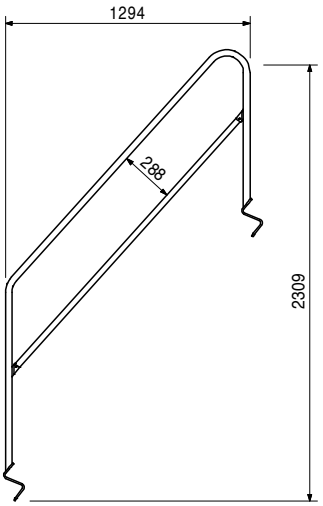
Technical Data
Permissible load 2.0 kN/m².



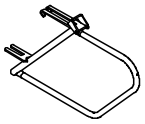


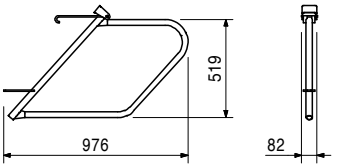
Item no.	Weight kg	
100742	10.000	**Stair Guardrail UAG** Suitable for Staircases UAS 64 x 250/200, UAS 64 x 300/200, UAS 75 x 250/200 and UAS 75 x 300/200 as internal and external guardrail.





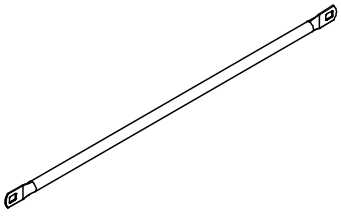
100830	4.970	**Stair Guardrail UAH** For fixing to the stringers of the Staircase Units UAS 64 x 250/200, UAS 64 x 300/200, UAS 75 x 250/200, UAS 75 x 300/200.

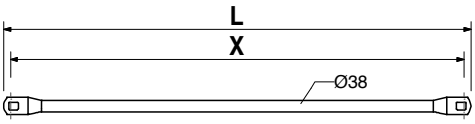




			L	X
		Guardrails UPG		
100265	2.410	**Guardrail UPG 150**	1546	1500
100266	3.220	**Guardrail UPG 200**	2046	2000
100267	4.020	**Guardrail UPG 250**	2546	2500
100268	4.820	**Guardrail UPG 300**	3046	3000

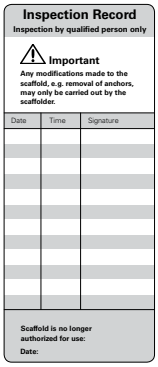
Note
Longitudinally-stamped and with coloured label for easier identification.

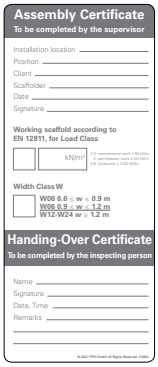




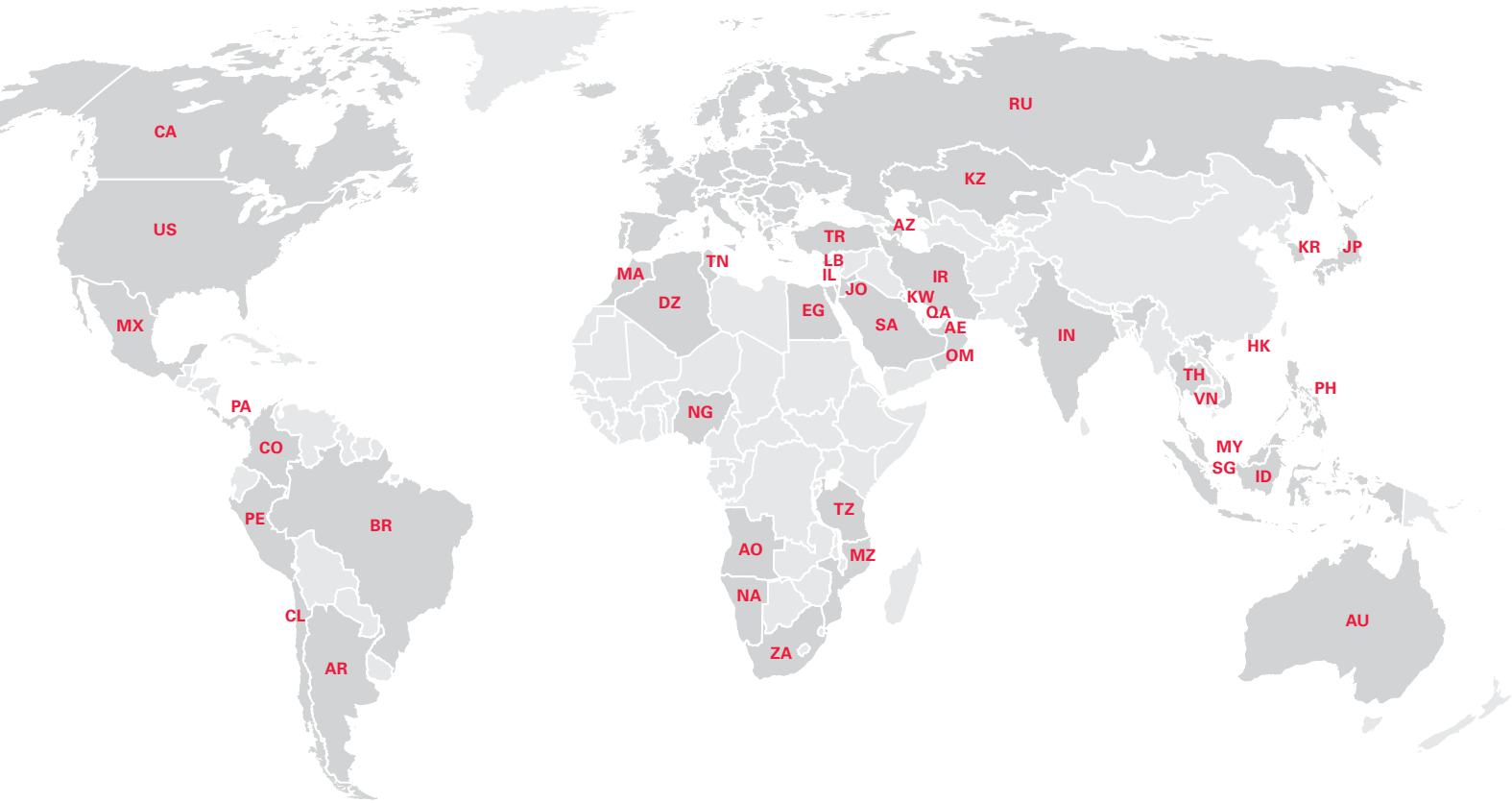
Item no.	Weight kg	
113832	0.035	**PERI UP Scaffold Tag** To cordon off scaffolding areas not yet authorized for use. With the exception of inserting the PERI UP Assembly Certificate.

		Neue Gruppe	Note
113833	0.005	**PERI UP Assembly Certificate, D**	Front side: Assembly report for release of scaffolding. Rear side: Test report
113834	0.005	**PERI UP Assembly Certificate, EX**	
113829	0.005	**PERI UP Assembly Certificate, F**	
113835	0.005	**PERI UP Assembly Certificate, CDN**	
113836	0.005	**PERI UP Assembly Certificate, ES**	
113837	0.005	**PERI UP Assembly Certificate, PT**	
113838	0.005	**PERI UP Assembly Certificate, PL**	
113839	0.005	**PERI UP Assembly Certificate, CZ**	
115739	0.005	**PERI UP Assembly Certificate, TR**	
115729	0.005	**PERI UP Assembly Certificate, SK**	
125180	0.005	**PERI UP Assembly Certificate, AUS/NZ**	
124052	0.005	**PERI UP Assembly Certificate, EST**	
124645	0.005	**PERI UP Assembly Certificate, FIN**	
117692	0.005	**PERI UP Assembly Certificate, LT**	
126647	0.005	**PERI UP Assembly Certificate, H** Inserted into the PERI UP Scaffold Tag.	





PERI International



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