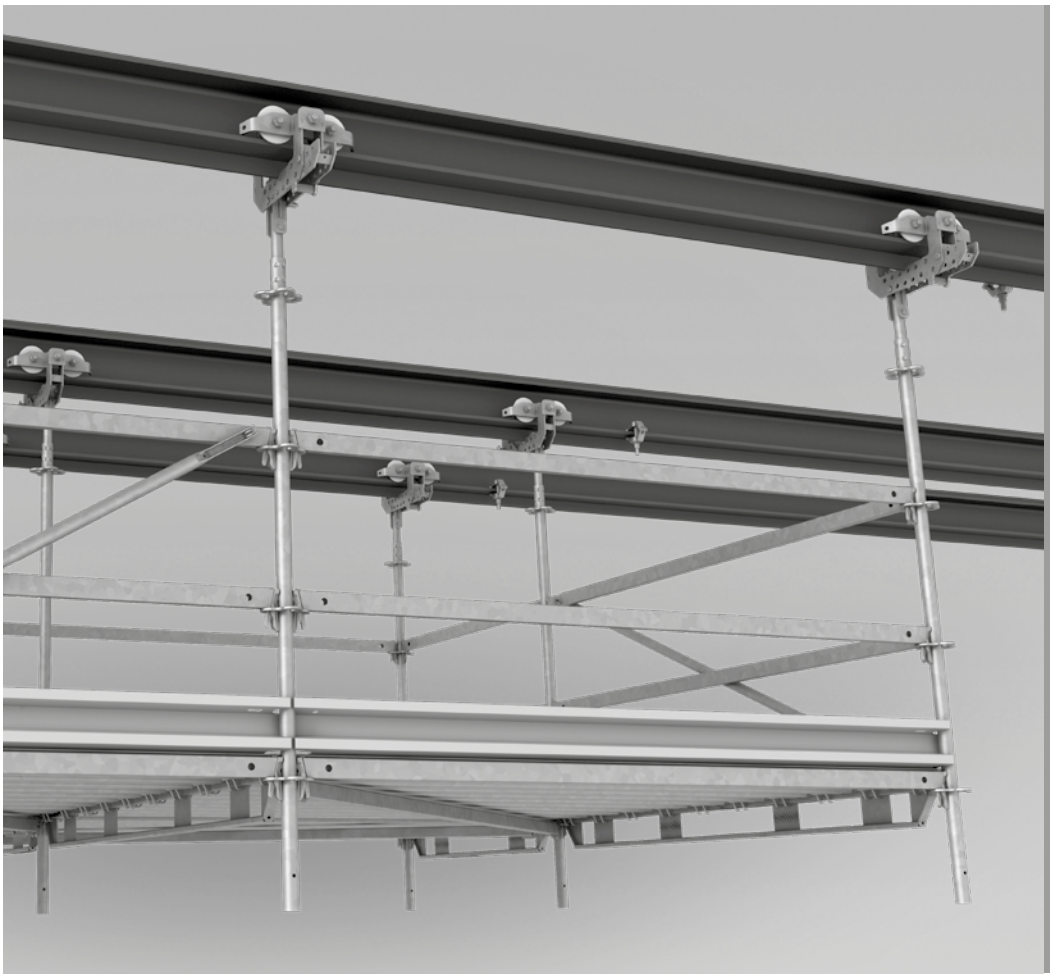
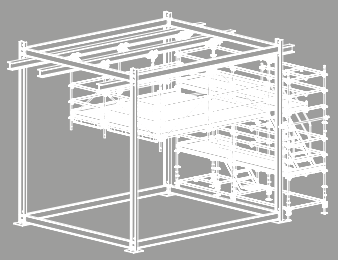
PERI UP Flex
Suspended Scaffold

Instructions for Assembly and Use – Standard Configuration – Issue 03/2021

incl. supplemental pages PERI UP Flex 2nd generation





Content

Overview

	Main components	1
	Key	2
	Presentational reference	2

Introduction

	Target groups	3
	Additional technical documentation	3
	Intended use	4
	Instructions on use	4
	Care and maintenance instructions	4

Safety instructions

	Cross-system	5
	General information on suspended scaffolds	6
	System-specific	8
	Anchoring	8
	Inspecting the anchoring	8
	Storage and transportation	8
	Warning signs	9
	Laws and regulations	9
	Inspection, hand-over and utilization	10
	Fixing points for PPE	11
	Measures to prevent tipping	12

Assembly of mobile suspended scaffold

A1	Prerequisites	13
A2	Assembly of Trolley UFS 20	16
A3	Assembly of Standard UVR	18
A4	Configuration of the first frame	20
A5	Configuration of the second frame	21
A6	Assembly of the first longitudinal ledger	22
A7	Assembly of additional longitudinal ledgers	23
A8	Assembly of the horizontal bracing	24
A9	Assembly of Deck UDG	26
A10	Assembly of additional bays	28
A11	Assembly of Ledger Brace UBL	29
A12	Assembly of Toeboard UPY	30
A13	Moving the Main Beam Clamp	32
A14	Bracing	33

Load-bearing capacities

B1	Standard UVR	34
B2	Top Standard UVH	35
B3	Flange Coupler UEC	36
B4	Trolley UFS 20	38

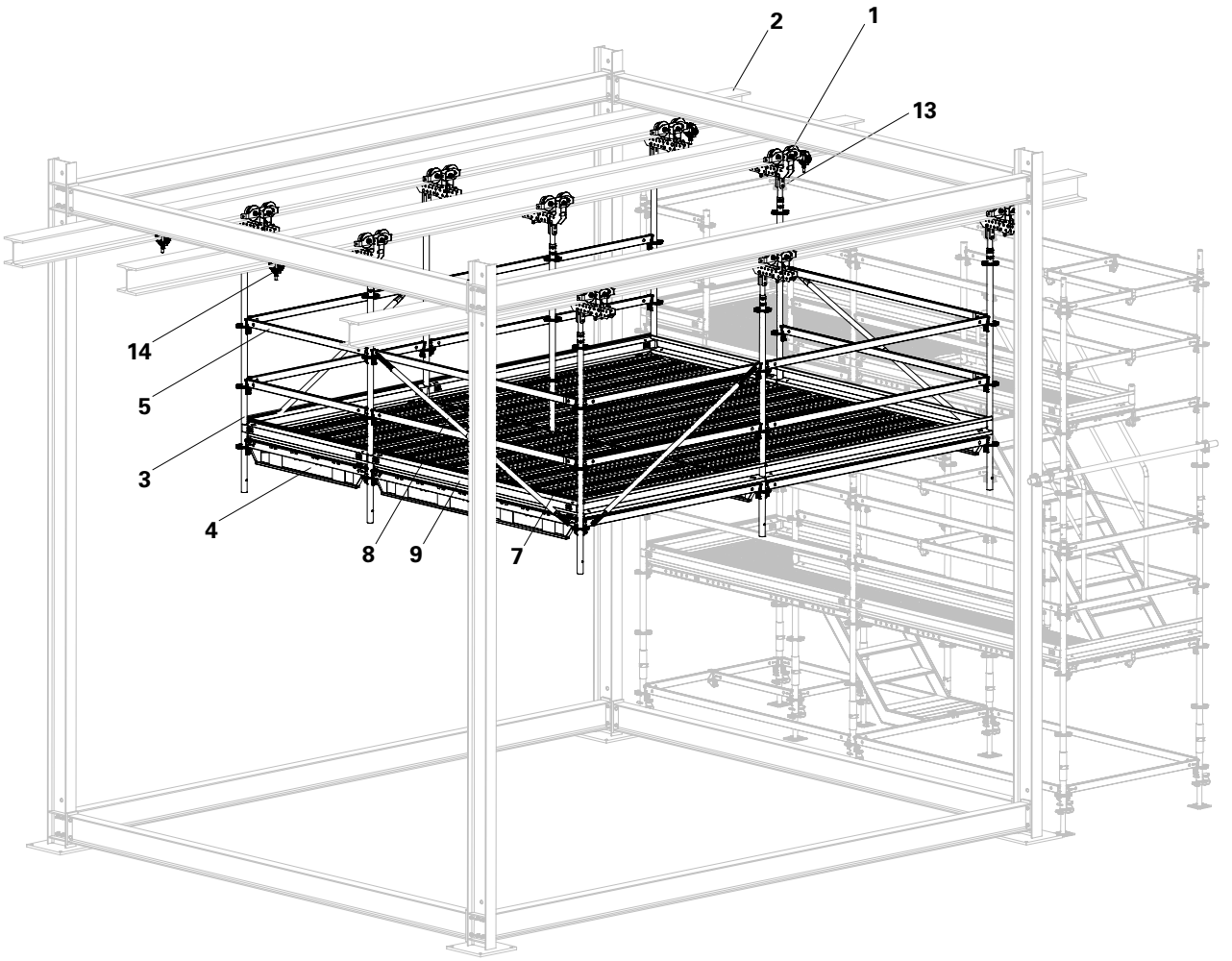
Components

	PERI UP Flex Modular Scaffolding	40

supplemental pages PERI UP Flex 2nd generation I-VIII

Overview

Main components



1 Trolley UFS 20
2 I-shaped steel girder
3 Standard UVR
4 Heavy-Duty Ledger UHV
5 Ledger UH
6 Horizontal Brace (covered)
7 Deck UDG
8 Ledger Brace UBL
9 Toeboard UPY
10 Top Standard UVH (not shown)
11 Spigot ULT 32 (not shown)
12 Flange Coupler UEC (not shown)
13 Bolt M10x70, Grade 8.8 with Nut
14 Main Beam Clamp
15 Standard Coupler (not shown)
16 Scaffold Tube (not shown)

Key

Pictogram | Definition


Safety instructions


Note


Visual check


Tip


Correct application


Misapplication

Dimension specifications
Dimensions are usually given in mm. Other units of measure, e.g. cm, are specified 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**.

Arrows


Arrow representing an action


Forces

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. The safety installations which have possibly not been featured in these detailed drawings must nevertheless still be available.

Target groups

Scaffolding contractors/building contractors
These Instructions for Assembly and Use are designed for contractors who use the scaffolds either for
- assembling, modifying and dismantling operations, or
- use them e.g. for concreting, or
- for other operations, e.g. carpentry or electrical work.

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 personnel
Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the competent person 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 a certain measuring device, a range of specialist knowledge is necessary.

Qualified specialists
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 specialists must have received instructions** which contain at least the following points:
- An explanation of the plan for the assembly, modification or dismantling of the scaffolding in an understandable form and language.
- Description of 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!

* 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-8.1-863: "PERI UP Flex" Modular System
- Instructions for Assembly and Use:
– Basic information: PERI UP Rosett Flex, Modular Scaffolding with UDI / UDG
– PERI UP Rosett Flex Instructions for Assembly and Use, Working Scaffold 100 with Deck UDI
– PERI UP Flex Staircase 75 Instructions for Assembly and Use
– PERI UP Flex Staircase 100 and 125 Instructions for Assembly and Use
– PERI UP Flex LGS Weather Protection Roof Instructions for Assembly and Use
- Instructions for Use:
– Pallets and Stacking Devices
- Design Tables:
– PERI UP Flex Design Tables
- Brochures:
– PERI UP Rosett Flex: the modular system scaffolding
– PERI UP access technology for construction sites, industry and public areas

Intended use

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

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

These Instructions for Assembly and Use describe standard configurations for suspended scaffolds as working scaffolding with length-based or area-oriented decking levels.

The loads are transferred from the decking to horizontal intermediate supports, e.g. ledgers or lattice girders.

From there, the loads are transferred via the nodal points of the scaffolding to vertical tension rods which are anchored to the structure to be scaffolded.

An integral part of these Instructions for Assembly and Use are PERI UP solutions for anchoring the tension rods to steel beams or similar.

Features
Suspended scaffolds are based on the PERI UP Flex modular scaffolding and are either
– securely fixed to steel beams of the structure using scaffold tubes and flange couplings, or
– can be moved with the trolley mounted on the steel beams of the structure.

The permissible loads must be determined and documented according to the individual project.

Transfer of the vertical and horizontal forces from the dead, live, wind and reinforcement loads into the load-bearing structure or the building is to be verified separately in each individual case.

Technical data
Deck widths: 25/50/75/100/125/150/200/250/300 cm
Scaffold bay lengths: 25/50/75/100/125/150/200/250/300 cm

Instructions on use

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

Only PERI original components may be used. The use of other products and spare parts is not allowed.

Changes to PERI components are not permitted.

Care and maintenance instructions

In order to maintain the value and operational readiness of the PERI products over the long term, clean the elements after each use.

Some repair work may also be inevitable due to the tough working conditions.

The following points should help to keep care 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 when suspended on a crane.

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

Cross-system

General
The scaffold 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. 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 must be observed in the respective countries where they are being used.

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

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 available.

Before and after exceptional occurrences that may have an adverse effect regarding the safety of the formwork 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,
- and arrange for an extraordinary inspection by a competent person. 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 scaffolds may only be carried out by qualified specialists under the supervision of a competent person. The qualified specialists 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 competent person. The result 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) is required or specified in local regulations, the scaffold contractor must determine appropriate attachment points on the basis of the risk assessment. The personal protective equipment against 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 of the formwork.
- ensure and prove that all loads are safely transferred.

Utilization
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.

General information on suspended scaffolds

Proof of usability
For suspended scaffolds, proof of usability is to be provided in accordance with the overview.

As suspended scaffolds can seldom be realized according to a generally accepted standard configuration, usability must often be proved by means of project-specific verifications.

In the process, particular attention is to be paid to the transfer of the vertical and horizontal forces from the dead, live, wind and reinforcement loads into the load-bearing structure or the building.

The safe transfer of all loads from the suspended scaffold into the existing supporting structure must be checked with the responsible structural engineer.

The overall construction is to be secured against oscillation (e.g. through bracing against adjacent components).

All specifications which could affect the stability of the suspended scaffold are to be disclosed to the users in a plan for the utilization (intended use) including the permissible loads.

In addition, the scaffolding must be marked clearly for each user.

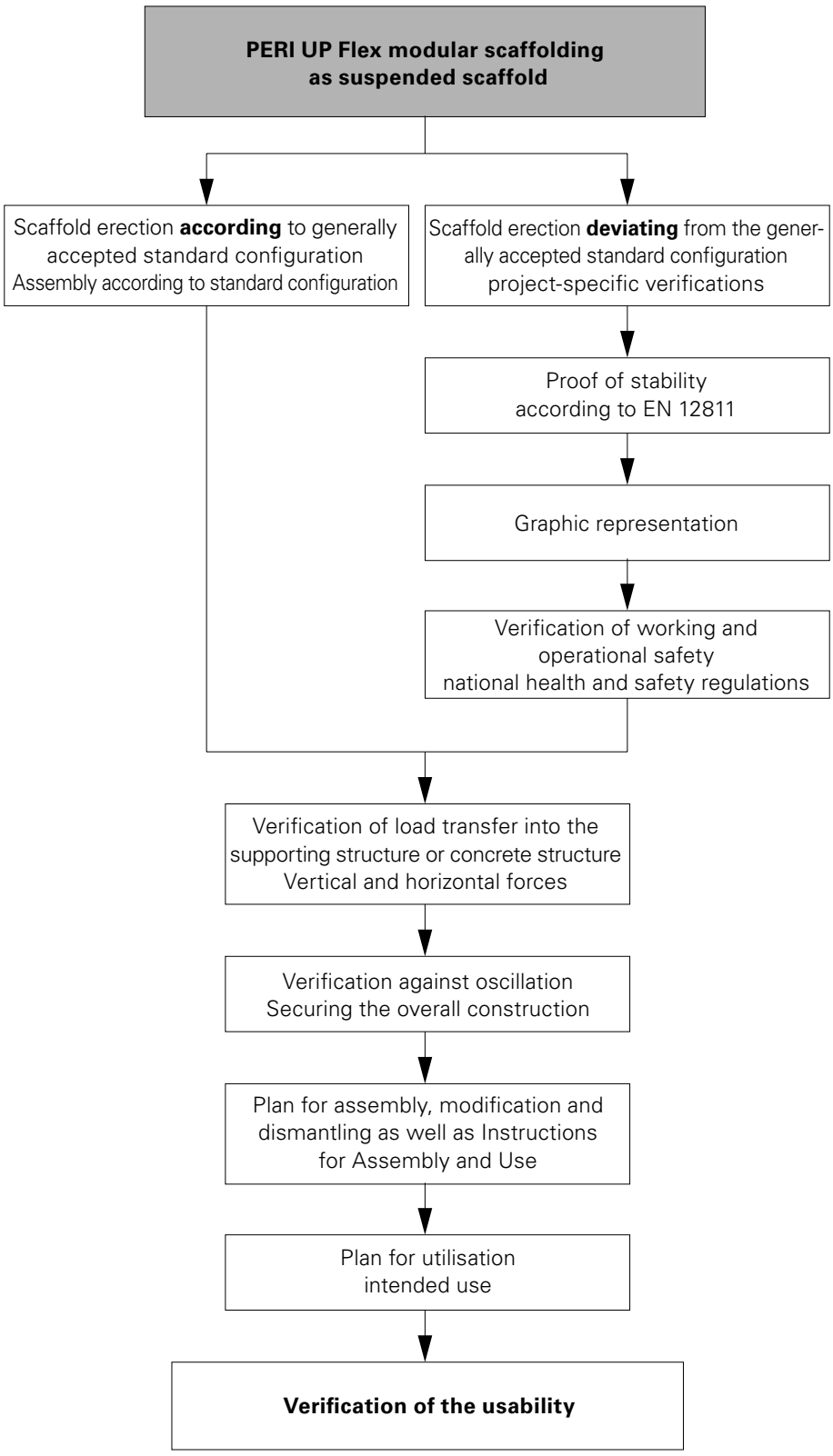


Fig. 01

General information on suspended scaffolds

Load assumptions
Depending on the work to be carried out, different load concepts can be determined for suspended scaffolds as the basis for the proof of stability.

Live loads
For live loads, determination of Load Classes 1 to 6 (LC 1 to 6) according to EN 12811 apply. Any deviations can be, for example, agreed on as follows:

- Work only on the slab: limitation of the uniformly distributed nominal load to an area of 6 m² in the most unfavourable position. The remaining area must be taken into account with at least the loads of Load Class 1. (Fig. 02)
- Work in the immediate area of enclosing walls: limitation of the uniformly distributed nominal load to a circumferential edge strip with a width b = 1.50 m. The remaining area must be taken into account with at least the loads of Load Class 1. (Fig. 03)
- Areas for material storage: increase of the uniformly distributed nominal load for material storage on a defined and marked area.
- Sandblasting: project-specific specifications are required regarding the weight of the blasting material together with the weight of the colour particles removed and, if necessary, moisture content along with determining measures for removing the blasting material. Recommendation: use at least LC 4 (3.0 kN m²).

Wind loads
Due to the frequently exposed position of suspended scaffolds, wind loads are to be determined very carefully according to the local conditions and the applicable standards.

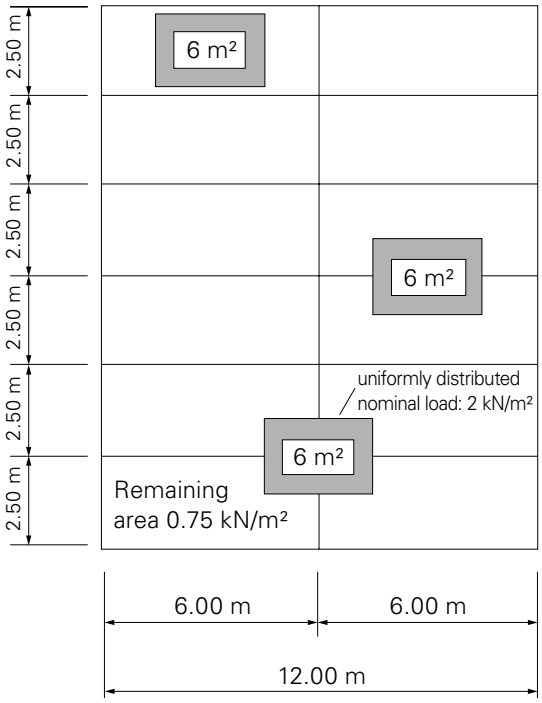


Fig. 02

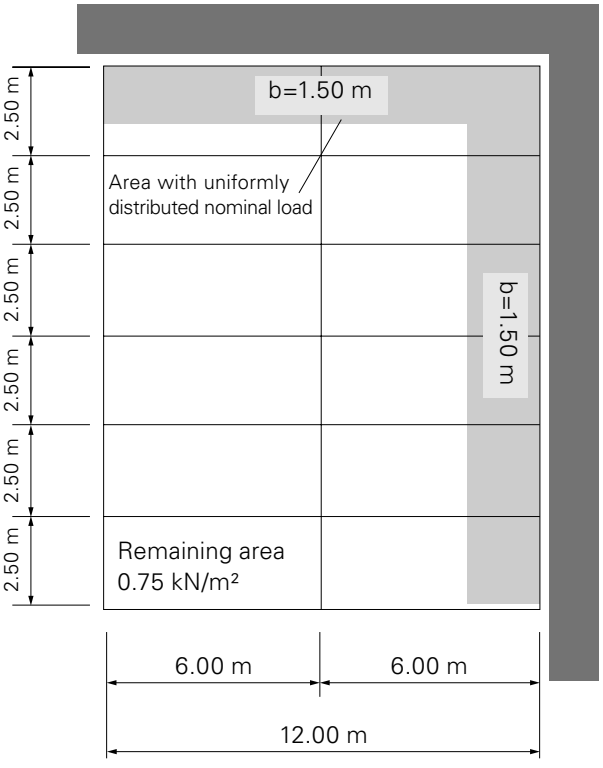


Fig. 03

System-specific

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 with 50 Nm. This corresponds to a force of 20 kg using a lever arm length of 25 cm.

Secure wedges using a 500 g hammer.

Anchoring

The anchoring forces and the position of the anchoring are described in the section on bearing forces.

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.

Anchors should be installed progressively along with the erection of the scaffolding.

The anchoring forces must be transferred into sufficiently load-bearing anchorage, e.g. the building, via wall ties and fastening means.

The anchoring and its components must be inspected by a competent person selected by the scaffolding contractor.

Inspecting the anchoring

Load tests must be carried out at the place of use.

Load tests are to be carried out using suitable test equipment.

The test load must be 1.2 times more than the required anchoring force $F_{\perp}$.

The scope of testing must, however, include a minimum of 5 load tests for all dowels used for concrete anchoring bases (at least 10 %) and for other building materials (at least 30 %).

Storage and transportation

Store and transport components ensuring 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.

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

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

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

Signs

In carrying out the 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 (Fig. 04).
In addition, it must be made clear through appropriate physical means that the scaffold is not fully erected and may not be accessed.

After assembly has been completed, all scaffold entry points must clearly display the designated sign. (Fig. 05)
The signs do not replace the inspection record! (Fig. 06)



Fig. 04

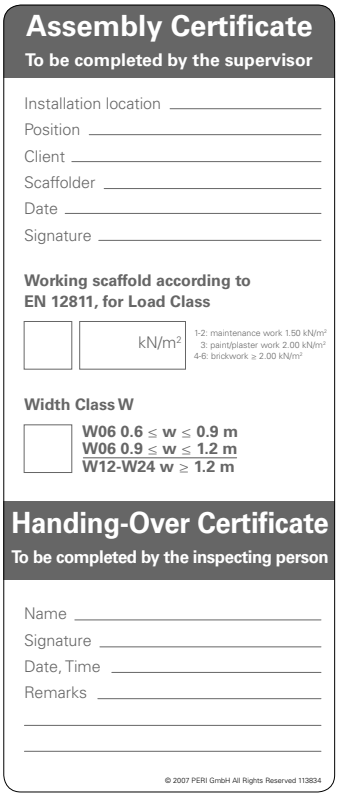


Fig. 05

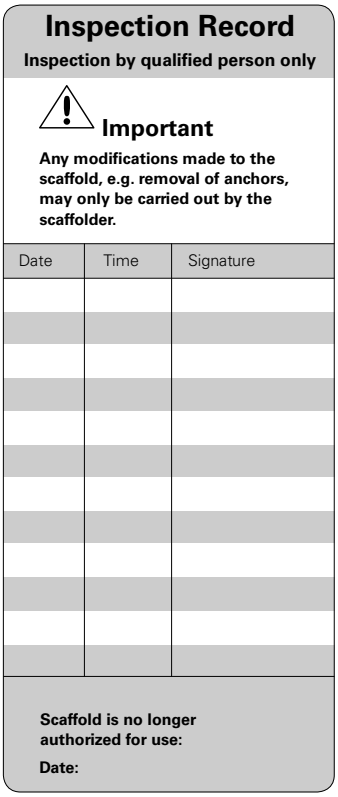


Fig. 06

Laws and regulations

When assembling, modifying and dismantling as well as when using the scaffolding in Germany, accident prevention regulations and guidelines of the employer's liability insurance associations along with national health and safety regulations must be complied with, in particular:
– Product Safety Act (ProdSG)
– Guideline 2009/104/EC
– Operating Safety Regulation (BetrSichV)
– BGI / BGV-I 663 (Trade Association Regulations)
– BGI / BGV-I 5080 (Trade Association Regulations)
– TRBS 2121 (Technical Regulations for Operational Safety)
– TRBS 1203 (Technical Regulations for Operational Safety)
– 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.
(Fig. 07)

During the hand-over, the scaffolding contractor must advise the user of the 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.

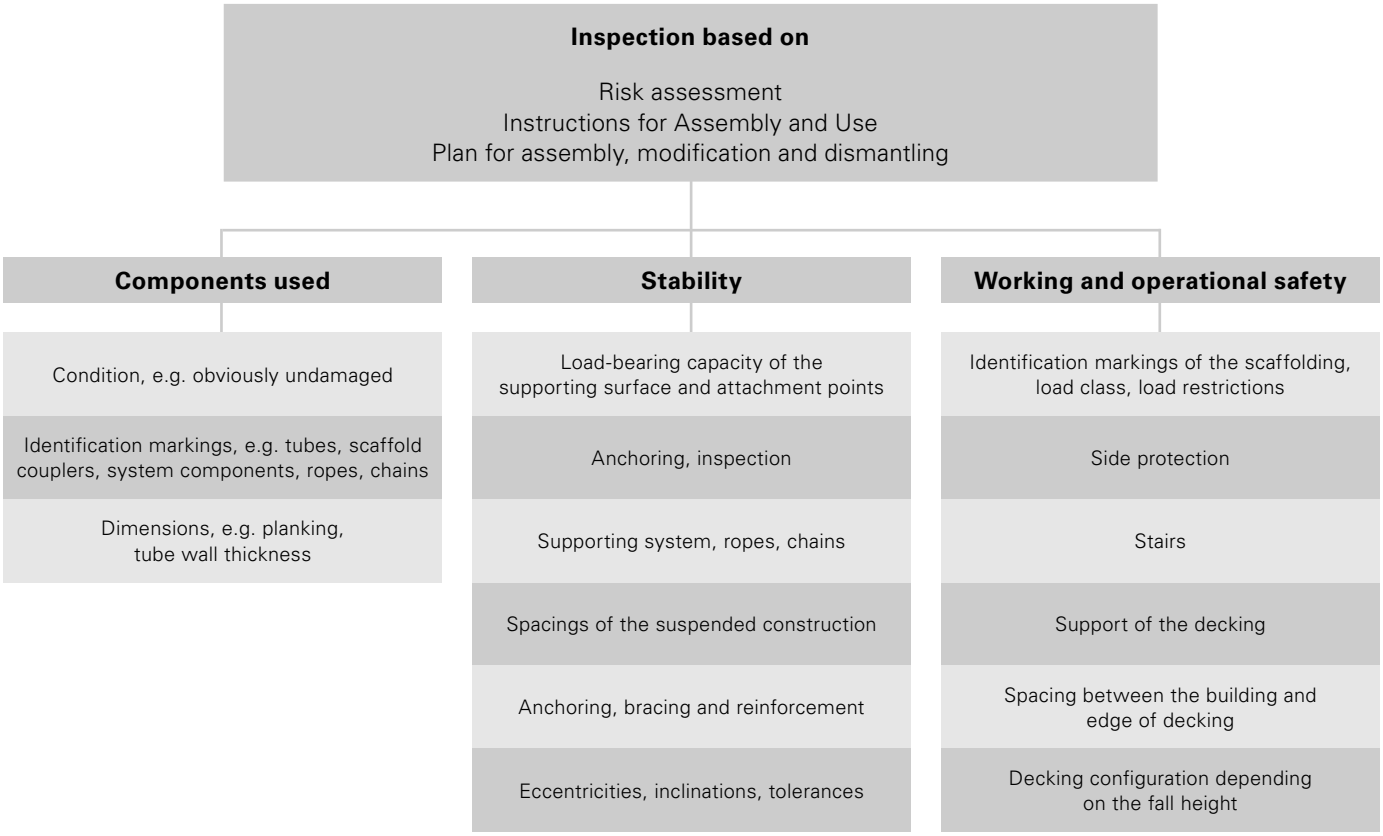


Fig. 07

Source:
Technical Regulations for Scaffolding, FRG 2, Suspended Scaffold as Facade or Birdcage Scaffolding, Edition 01.2010,
Federal Guild for Scaffolding Craft.

Attachment points for PPE

Each specified attachment point is intended for securing only one person!

Illustrations are shown with the attachment points.
Example:
1 Attachment point on assembly level 1.

General information
- The use of personal protective equipment to prevent falling is regulated in the project-related risk assessment that has been prepared by the contractor (user).
- When using personal protective equipment to prevent falling from a height, all valid standards and safety regulations are to be taken into consideration by the scaffolding contractor.
- Each scaffold assembly is to be secured against tipping by the user.
- The application is valid for assembly, modification and dismantling operations.

Prerequisites
- The scaffold assembly underneath the final assembly level has been fully completed. This means, all ledgers and diagonal bracing have been installed and the decking is in place as the topmost assembly level.
- The joints of the topmost standards must lie underneath the last assembly level.

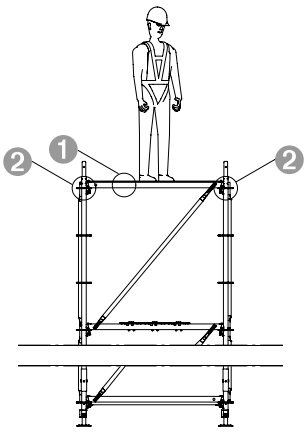


Fig. 08

Attachment points
Standard ends in the last assembly level (Fig. 08):
- each ledger in the assembly level 1
- each rosette in the assembly level 2

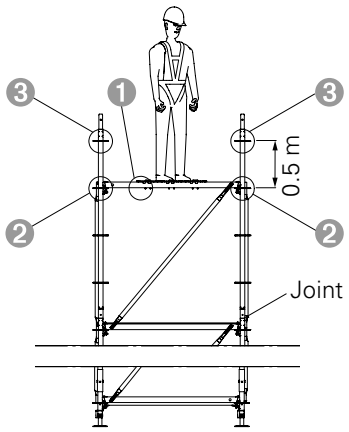


Fig. 09

Attachment points
Standard ends 0.5 m above the last assembly level (Fig. 09):
- each ledger in the assembly level 1
- each rosette up to max. 0.5 m above the last assembly level 2 3

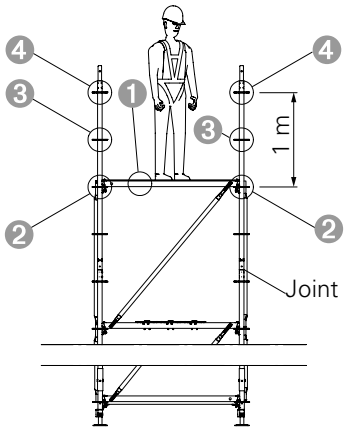


Fig. 10

Attachment points
Standard ends 1.0 m above the last assembly level (Fig. 10):
- each ledger in the assembly level 1
- each rosette up to max. 1.0 m above the last assembly level 2 3 4

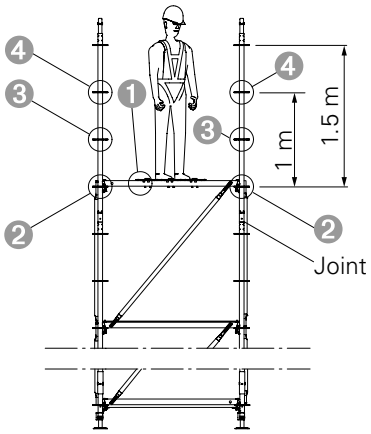


Fig. 11

Attachment points
Standard ends 1.5 m above the last assembly level (Fig. 11):
- each ledger in the assembly level 1
- each rosette up to max. 1.0 m above the last assembly level 2 3 4

Measures to prevent tipping

Risk of tipping!
Proof of stability is required!

- Anchoring of the scaffold assembly to a suitable structure, e.g. building, abutment, columns.
- Connecting the scaffold assembly by means of Ledgers UH; alternatively, with scaffold tubes and couplers. (Fig. 12)
- Connecting the scaffold assembly with other system components to form stable units. (Fig. 13)

Ratio of scaffold height to the smallest erection width: less than 3:1.

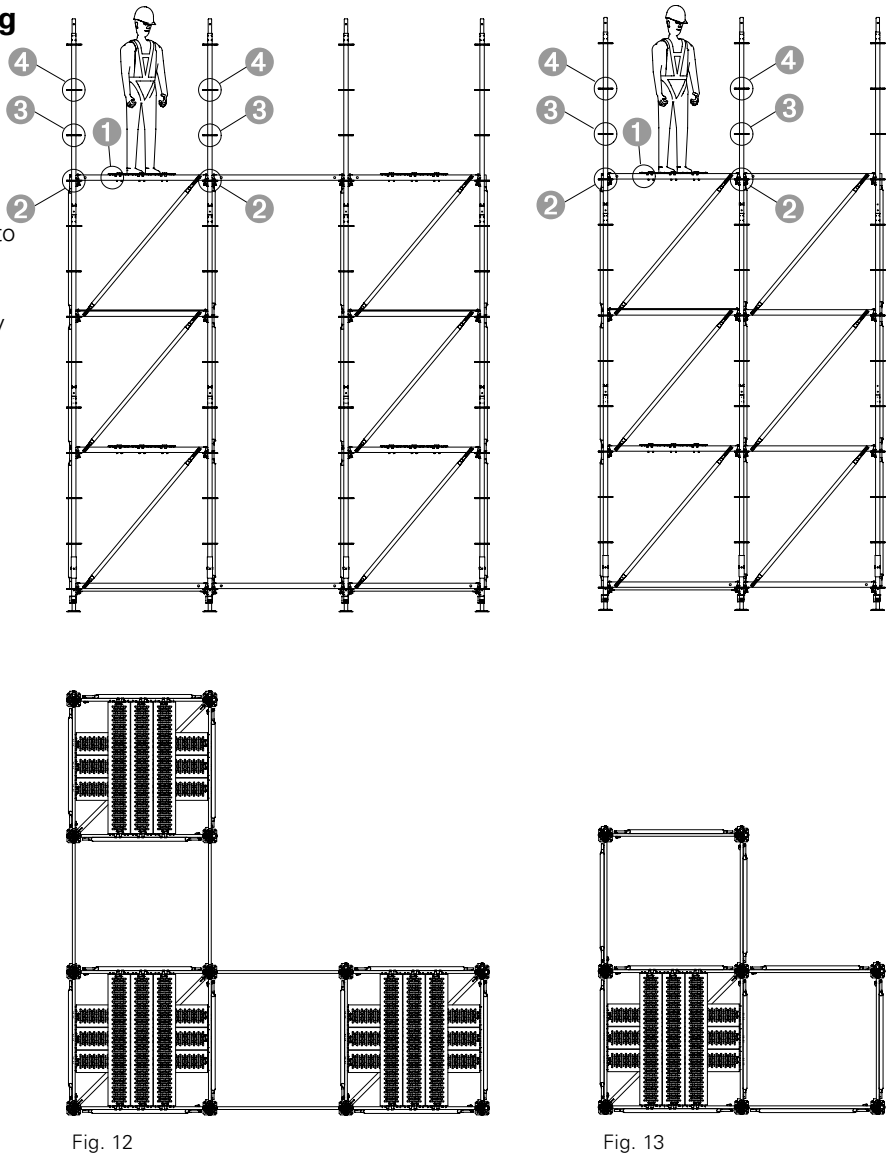


Fig. 12

Fig. 13

A1 Prerequisites

Select a safe assembly area for erection, e.g. a PERI UP facade scaffold.

In the Instructions for Assembly and Use, a PERI UP facade scaffold with access by means of the PERI UP Flex Stair 75 is shown as an example.
(Fig. A1.01)

More information can be found in the Instructions for Assembly and Use for PERI UP Flex Stair 75.

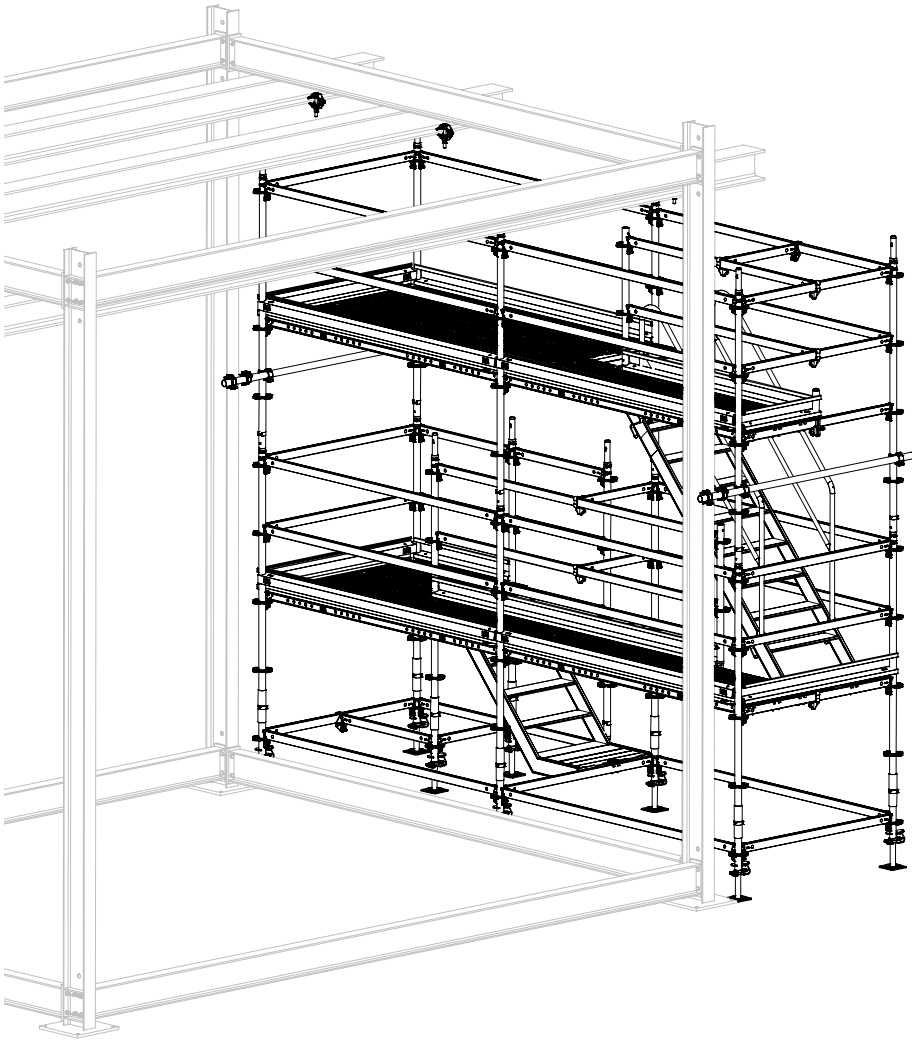


Fig. A1.01

Trolley UFS 20

Connection to an I-shaped steel profile

Components

1 Trolley UFS 20
1.1 Guide arm
1.2 Flanged wheel
1.3 Flanged wheel
1.4 Movable arm
1.5 Standard support
1.6 Bolt for the movable arm
1.7 Cotter pin
1.8 Bolt for standard support
2 I-shaped steel girder

(Fig. A1.02 + A1.03)

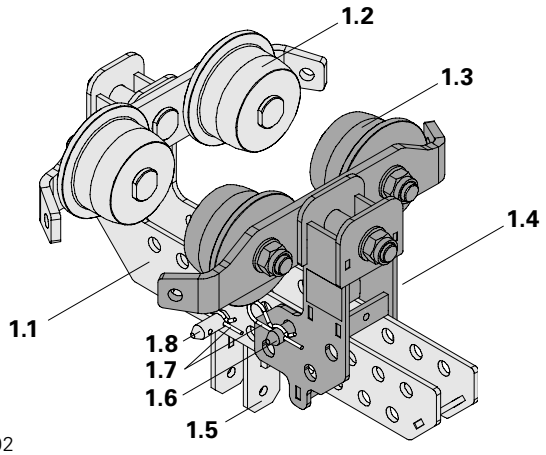


Fig. A1.02

The I-shaped steel girder is not a PERI product.

With the Trolley UFS 20 (1), standards can be mounted on the I-shaped steel girders (2), and moved.

The position of the flanged wheels (1.2/1.3) can be adjusted by means of the movable arm (1.4) in order to accommodate different flange widths.

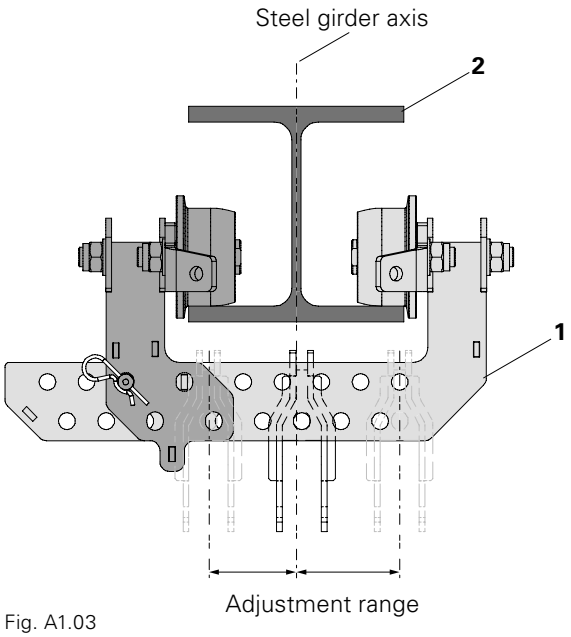


Fig. A1.03

Standard support

The standard support (1.5) allows a standard arrangement independent of the steel girder axis.

Thereby the spacings of the adjacent standards can be adjusted so that, in spite of the actual spacing between the steel girders, an extension of the suspended scaffold using the 25 cm system grid is always possible. Time-consuming adjustments with tubes and couplers are no longer required.

Depending on the flange width and the position of the movable arm, lateral displacements of the standard axis are possible up to 155 mm vis-á-vis the axis of the steel girder.

For utilizing the maximum adjustment possibilities, adjacent trolleys can be oriented to the right and left by means of the movable arm. Thus, adjustment ranges are accumulated.
(Fig. A1.04)

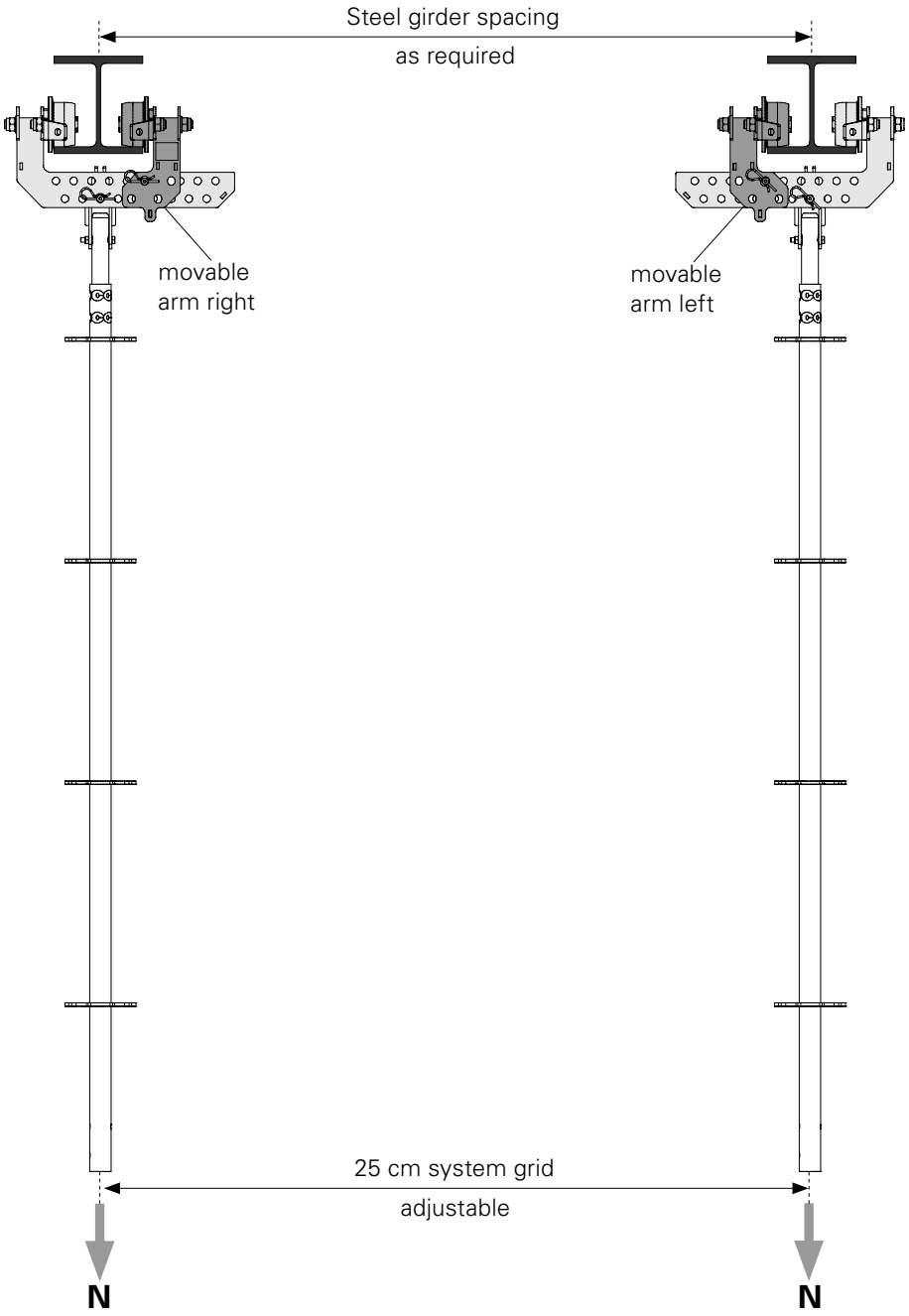


Fig. A1.04

Assembly of Trolley UFS 20

When mounting the Trolley UFS 20, ensure that the standard support (1.5) is secured by means of bolts (1.8) and cotter pins (1.7) in order to prevent any movement. Then remove the bolt (1.6) of the movable arm (1.4) on the ground. Move the moveable arm (1.4) so that the opening between the flanged wheels (1.2/1.3) is large enough to encompass the flange of the steel girder (2). (Fig. A2.01)

Hold the trolley with both hands ensuring that the movable arm (1.4) is safely controlled and does not slip away from the guide arm (1.1).
(Fig. A2.04 + A2.05)

Firstly, the flanged wheels (1.2) on the guide arm (1.1) are positioned on the flange of the steel girder (2).
(Fig. A2.02)

Then place the flanged wheels (1.3) on the other side of the flange and push the rims of all wheels as close as possible to the flange. Secure the movable arm (1.4) with bolts (1.6) and cotter pins (1.7) using the next possible locking position.
(Fig. A2.03)

Immediately secure all trolleys, e.g. through main beam clamps, to prevent any rolling away! For steel girders inclined in a longitudinal direction, precautionary measures to prevent rolling away must be in place before the trolleys are installed!

The flanged wheels must lie as close as possible to the flange; to achieve this, use the closest possible locking position. The additional loads from eccentricities are thus kept as small as possible.

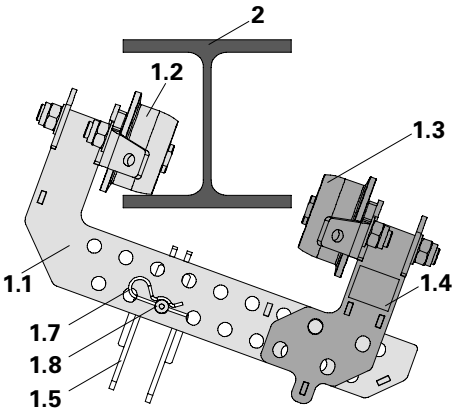


Fig. A2.01

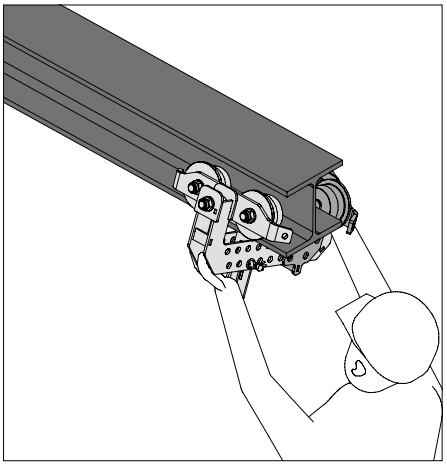


Fig. A2.04

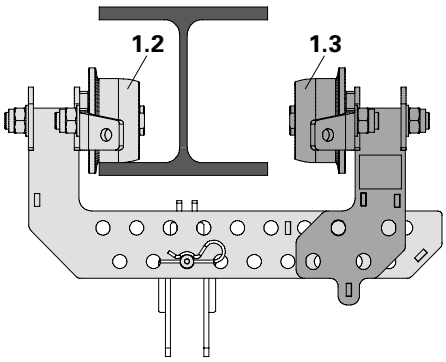


Fig. A2.02

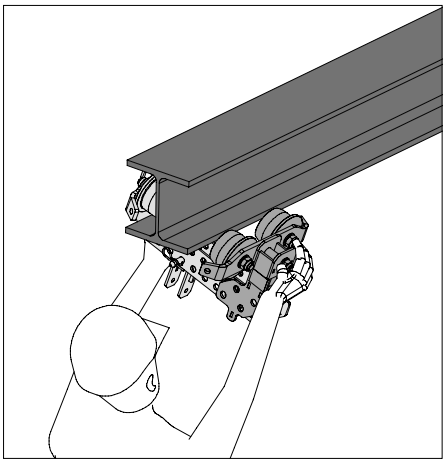


Fig. A2.05

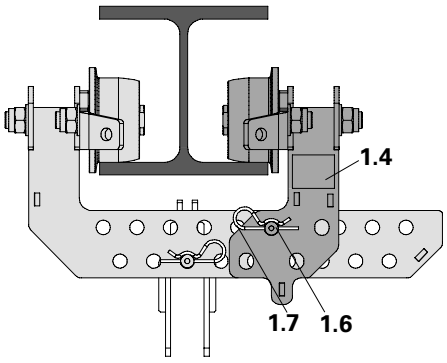


Fig. A2.03

A2 Assembly of Trolley UFS 20

Components

1	Trolley UFS 20
2	I-shaped steel girder
14	Main Beam Clamp

Assembly

1. Mount Main Beam Clamp (14).
2. Mount Trolley (1) on steel girder (2).
3. Secure movable arm (1.3) with bolt (1.5) and cotter pin (1.6) to prevent any movement.
4. Secure the trolley on both sides against rolling away, e.g. by means of main beam clamps.
5. Repeat assembly steps 1 to 4 until one trolley is mounted and secured on every steel girder.
   → One trolley is mounted and secured on each steel girder. (Fig. A2.06)

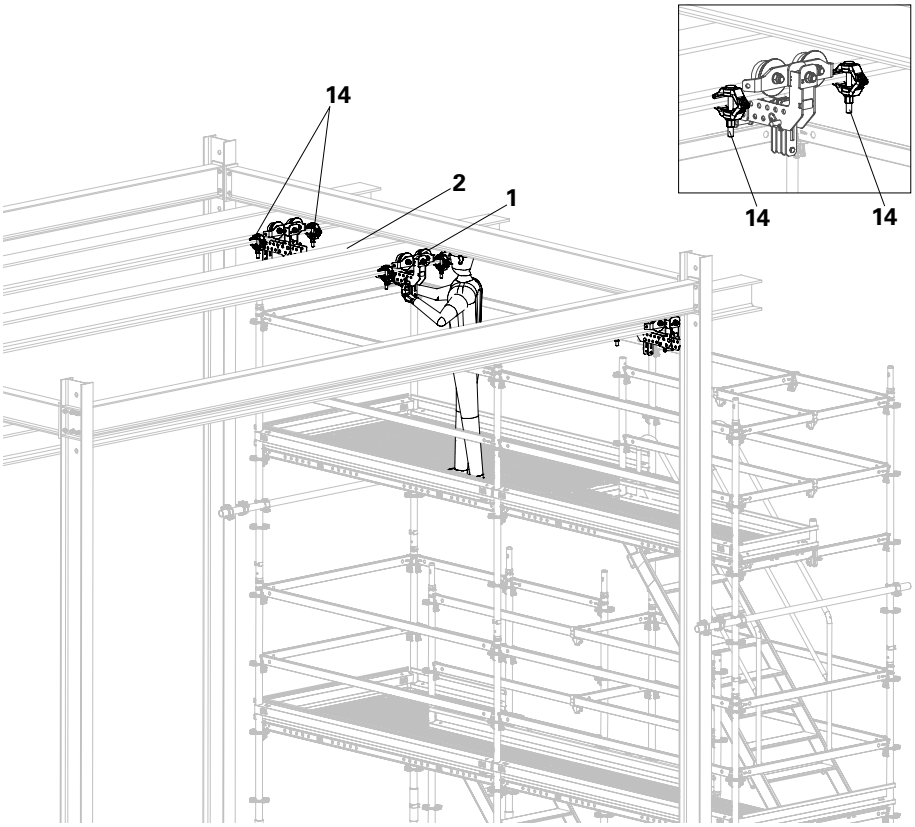


Fig. A2.06

A3 Assembly of Standard UVR

Connect the embossed spigot of the Standard UVR (3.1) with Bolts M10x70, Grade 8.8 (13) to the standard support (1.4) of the trolley.
(Fig. A3.01)

Alternatively, Top Standards UVH can also be used with Connectors ULT and Bolts M10x70, Grade 8.8.

Standards UVR and Top Standards UVH must be connected to each other as well as to the standard support using Bolts M10x70 mm, Grade 8.8.

Permanent securing by means of lock nuts or self-locking nuts is recommended for safety reasons.

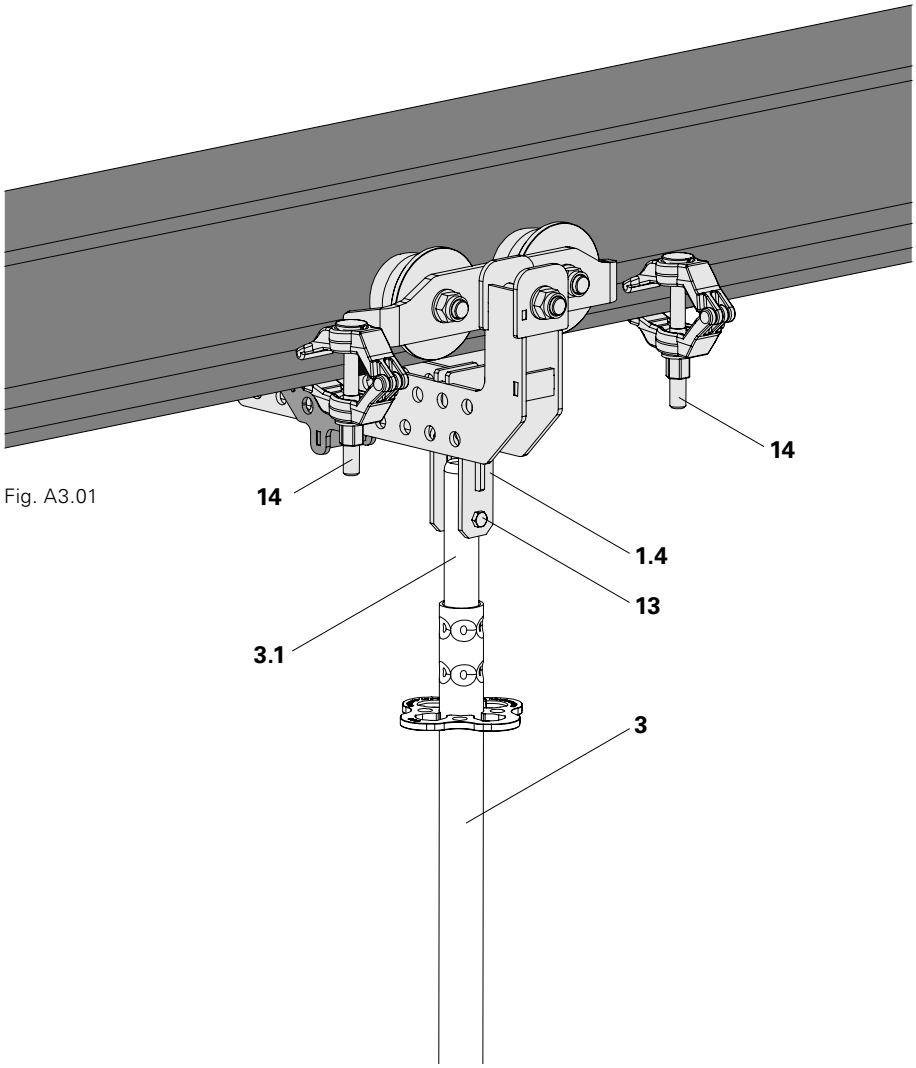


Fig. A3.01

A3 Assembly of Standard UVR

Components

1	Trolley UFS 20
1.4	Standard support
3	Standard UVR
3.1	Spigot for Standard UVR
13	Bolt M10x70, Grade 8.8 with Nut
14	Main Beam Clamp

Assembly

1. Mount Standard UVR (3) and secure with Hex. Bolts M10x70-8.8 (4).
2. Adjust the ledger spacings roughly to accommodate the grid dimension.
   → The Standards UVR are tightly connected with the trolley and the standard spacings are roughly adjusted. (Fig. A3.02)

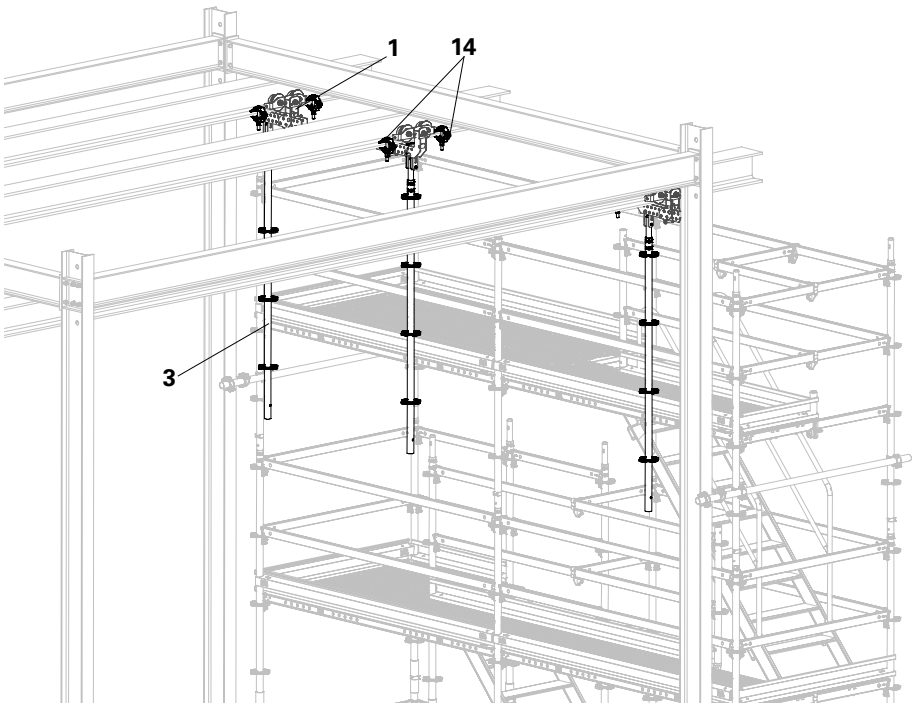


Fig. A3.02

A4 Configuration of the first frame

Components

1 Trolley UFS 20
1.4 Standard Support
4 Heavy-Duty Ledger UHV
5 Ledger UH

Assembly

1. Slide the main beam clamps behind the frame one after the other in longitudinal direction until another frame can be mounted.
2. Depending on the load, install Ledger UH (5) or Heavy-Duty Ledger UHV (4) as support for the decking.
3. Install Ledgers UH (5) as guardrails. (Fig. A4.01 + A4.02 + A4.02a)
4. Securely fix wedges of all ledgers using a 500 g hammer. (Fig. A4.03)
5. Secure the standard supports by means of bolts and cotter pins.
6. Push the first frame in the longitudinal direction until an additional frame can be mounted. (Fig. A4.04)

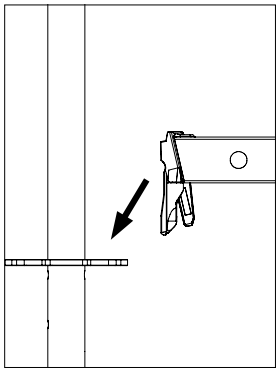


Fig. A4.01

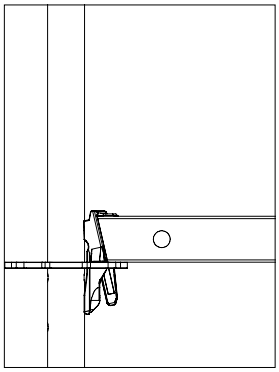


Fig. A4.02

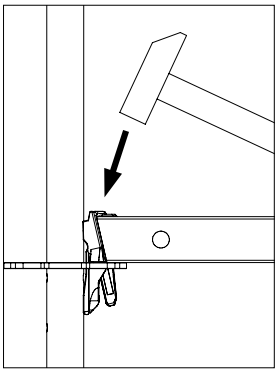


Fig. A4.03

Top view:

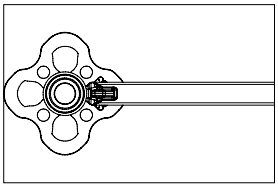


Fig. A4.02a

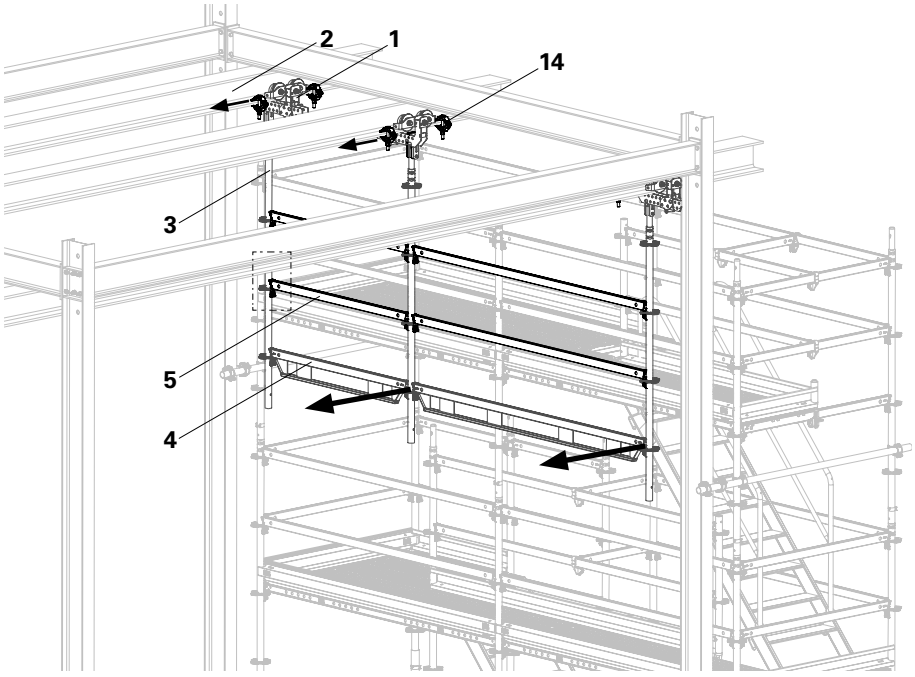


Fig. A4.04

A5 Configuration of the second frame

Components

1 Trolley UFS 20
3 Standard UVR
4 Heavy-Duty Ledger UHV
5 Ledger UH
13 Bolt M10x70, Grade 8.8 with Nut

Assembly

1. Repeat the assembly steps for the Trolley UFS
2. Repeat the assembly steps for the Standard UVR
3. Repeat the steps for the configuration of the first frame

Install ledgers as guardrails only at the two ends of the scaffold.

→ The second frame is now assembled. (Fig. A5.01)

With this assembly version, no guardrails are necessary as an additional bay is subsequently mounted.

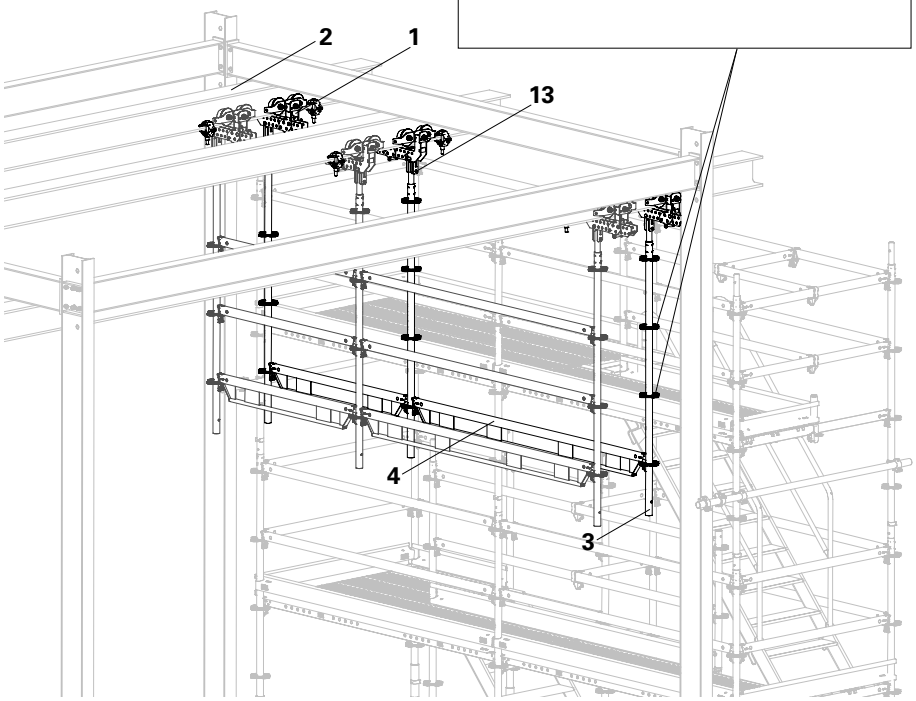


Fig. A5.01

A6 Assembly of the first longitudinal ledger

Connection of the first frame with the second frame.

Components

5	Ledger UH

Assembly

1. Connect the first and second frame with a short ledger (5).
2. Move the main beam clamps (14) one after the other. (Fig. A6.01 + A6.02)
3. Dismantle the short ledger (5) whilst simultaneously firmly holding the first frame.
4. Attach Ledger UH (5) to the rosette of a standard of the first frame. (Fig. A6.03 + A6.04)
5. Push the first frame carefully in the longitudinal direction with the help of the ledger until the rear end of the ledger can be attached.
6. Install Ledger UH (5).
   → The first and second frame are connected by means of a Ledger UH.

The wedges of the ledgers fall automatically into the rosettes and thereby hold the component in a secure position.

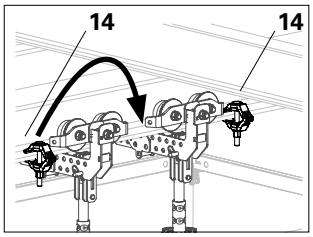


Fig. A6.01

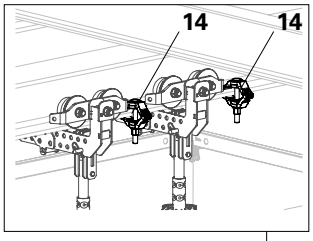


Fig. A6.02

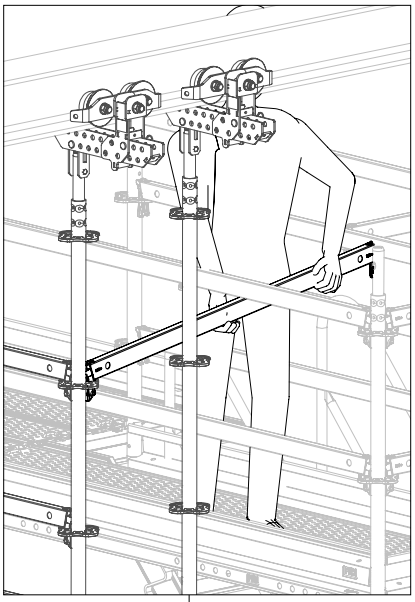


Fig. A6.03

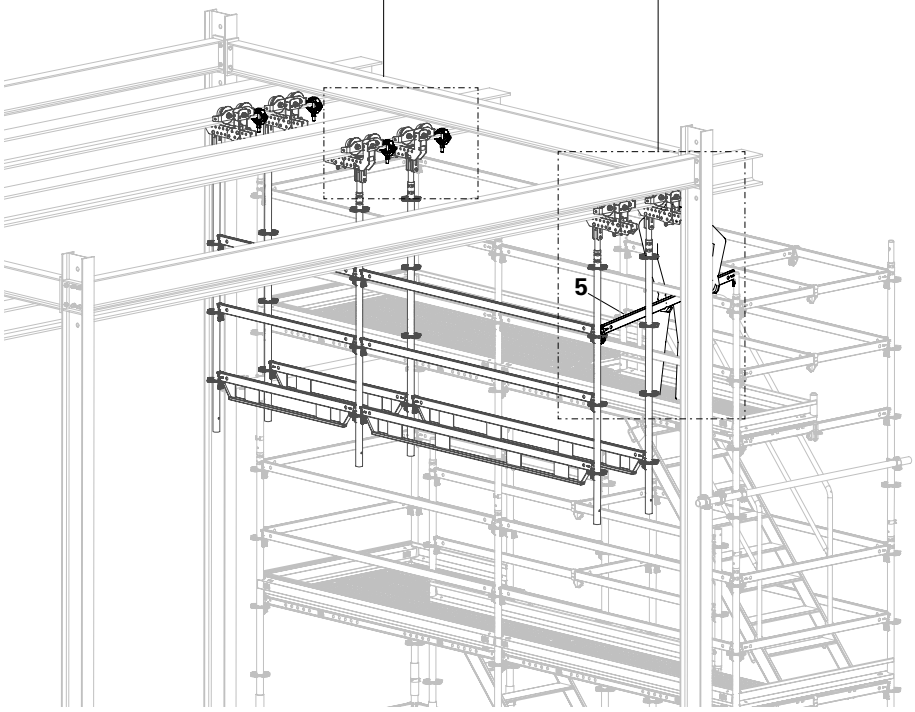


Fig. A6.04

A7 Assembly of additional longitudinal ledgers

Install all additional longitudinal ledgers for connecting the first and second frame.

Components	
5	Ledger UH

Assembly

1. Mount the next Ledger UH (5) between the standards of the first and second frame.
2. Repeat assembly step 1 until all other longitudinal ledgers have been installed.
3. Securely fix all wedges which are attached to the second Standard UVR with a 500 g hammer. (Fig. A7.01)
   → The first frame and second frame are connected by means of several Ledgers UH. (Fig. A7.02)

If ledgers on the decking level serve as a support for decks, then the permissible load must be checked and, if necessary, Heavy-Duty Ledgers UHV must be used.

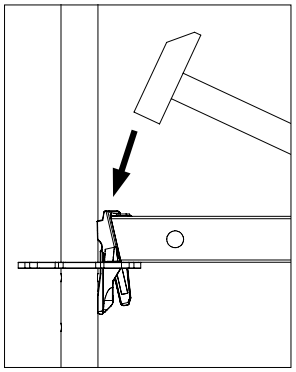


Fig. A7.01

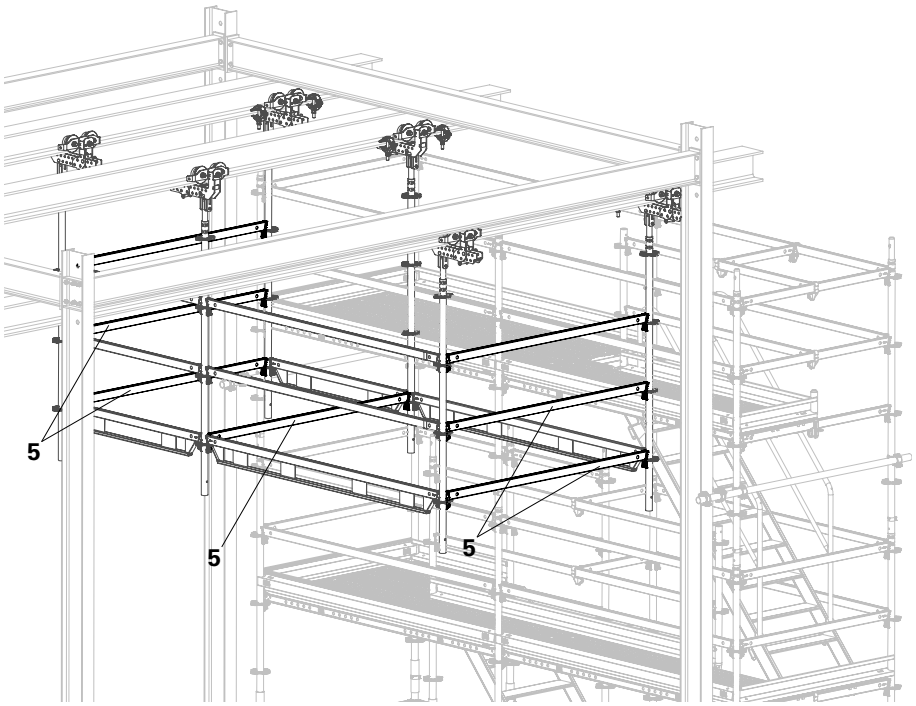


Fig. A7.02

A8 Assembly of the horizontal bracing

Bracing of the suspended scaffold

Components

6 Horizontal Brace
6.1 Nose
6.2 Slider
6.3 Securing Pin

Install the braces from below so that the decking can be mounted from above.

Assembly

1. Attach the nose (6.1) of the horizontal brace (6) from below into the rosette of the first frame. (Fig. A8.01)
2. Turn the end of the horizontal brace (6) upwards until the hook can be inserted into the rosette of the second frame. (Fig. A8.02 + A8.03)
3. Push the slider (6.2) of the horizontal brace forwards. (Fig. A8.04)

If the securing pin falls downwards, the horizontal brace has been correctly installed and secured.
(Fig. A8.05 + A8.05a)
If the securing pin has not automatically fallen downwards, it must be pushed downwards by hand.

Has the securing pin dropped down into the elongated hole?
(Fig. A8.05 + A8.05a)

4. Repeat assembly steps 1 to 3 until all other horizontal braces have been installed.
   → All horizontal braces are now installed and secured. (Fig. A8.06)

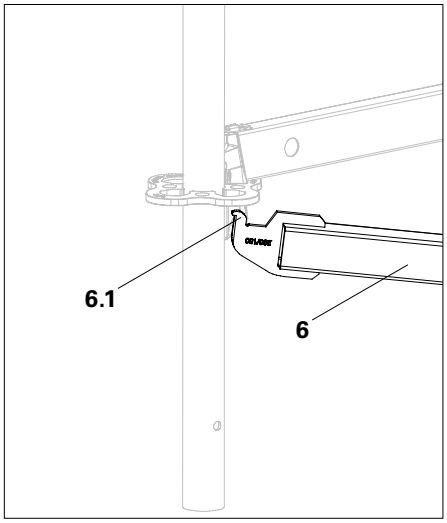


Fig. A8.01

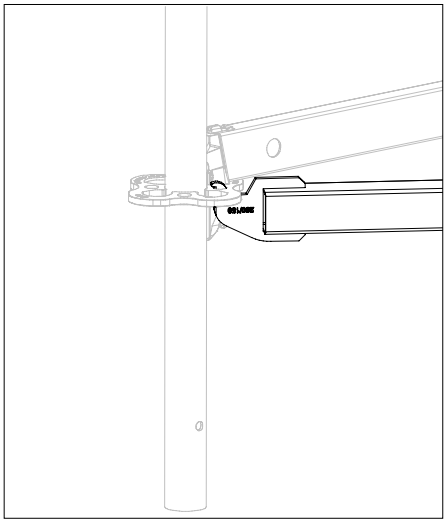


Fig. A8.02

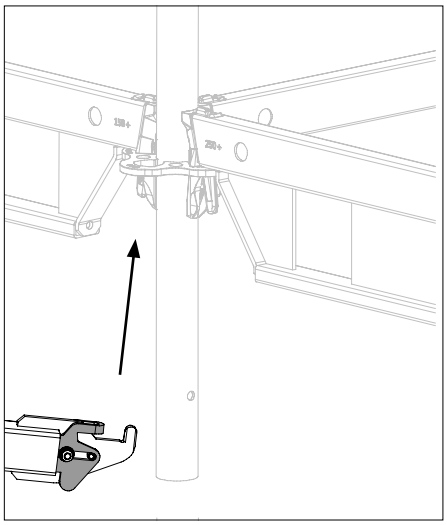


Fig. A8.03

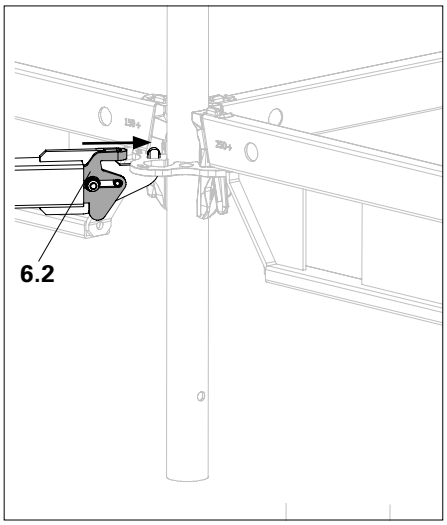


Fig. A8.04

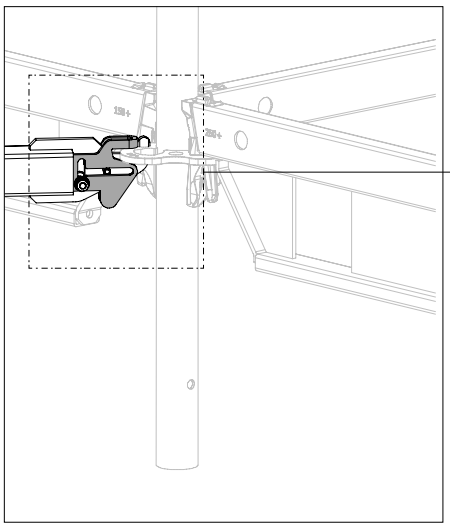


Fig. A8.05

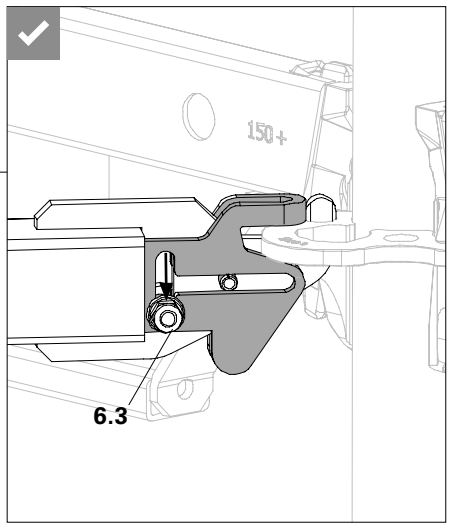


Fig. A8.05a

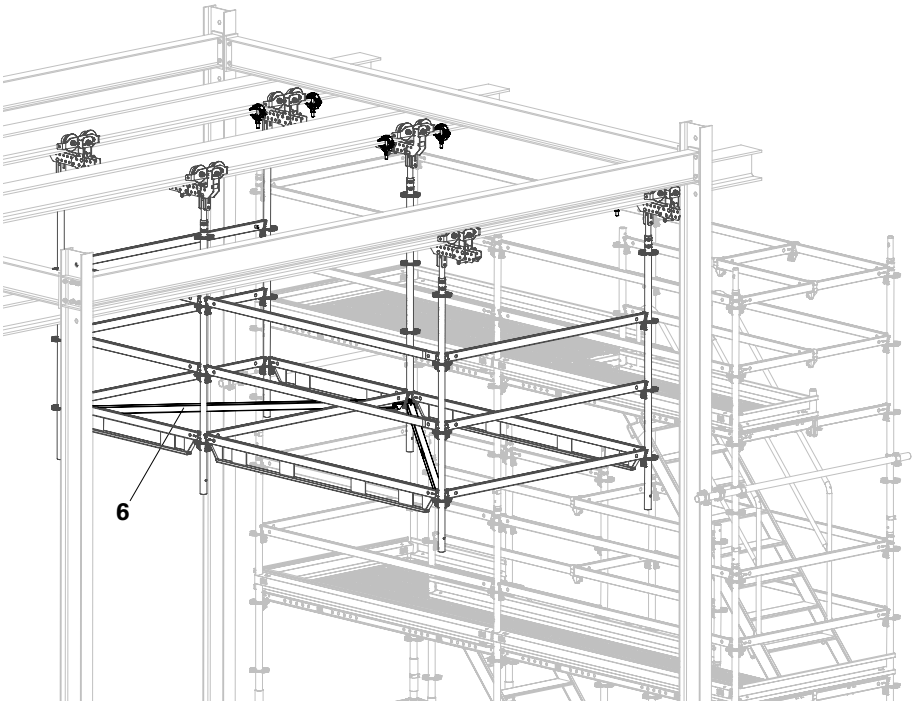


Fig. A8.06

A9 Assembly of Deck UDG

– Insert decking in a longitudinal direction.Accessing the suspended scaffold is not necessary.
– Installation of the first deck begins at the system axis of the ledgers or standards. (Fig. A9.01 + A9.02)

Components

7	Deck UDG

Assembly

1. Install the first Deck UDG (7) with the head in the Ledger UH of the first frame.
   (Fig. A9.03)
2. Insert and engage the rear end of the first deck into the Ledger UH of the second frame.
   (Fig. A9.04)

Is the clamp for protection against lifting flush with the decking?
(Fig. A9.05 + A9.05a)

3. Repeat assembly steps 1 and 2 until all additional decks have been installed.
   → The bay is now completely covered with decking.
   (Fig. A9.06)

Side view:

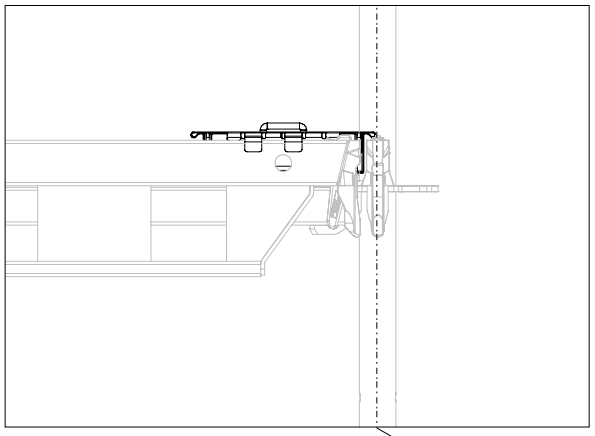


Fig. A9.01

System axis

Top view:

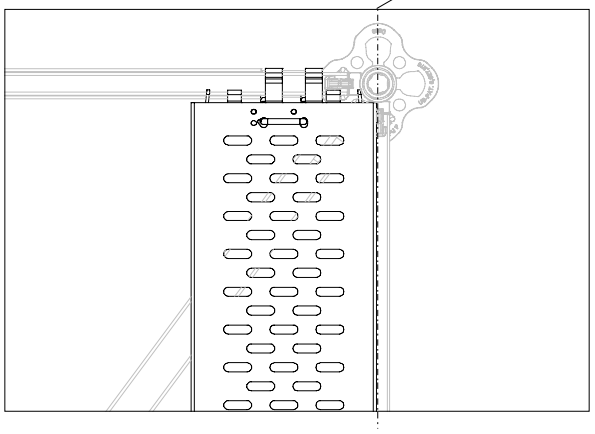


Fig. A9.02

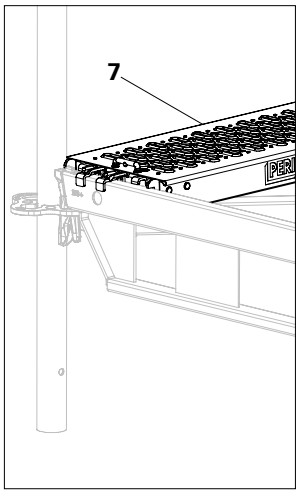


Fig. A9.03

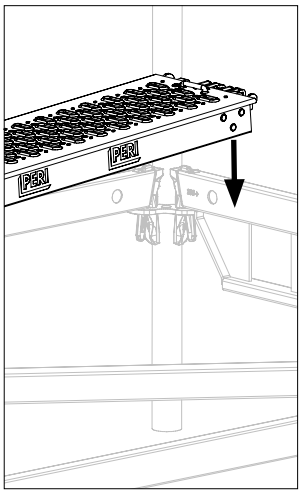


Fig. A9.04

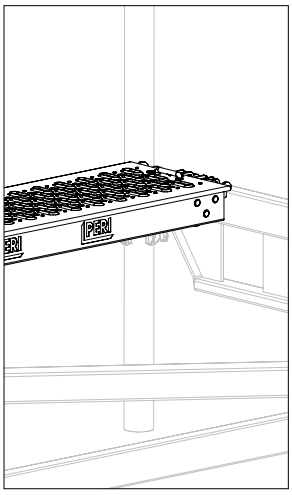


Fig. A9.05

If the clamp for protection against lifting protrudes, the deck is not secured. (Fig. A9.05b)
To secure the deck, press the clamp downwards by hand until the clamp closes flush with the deck. (Fig. A9.05a)

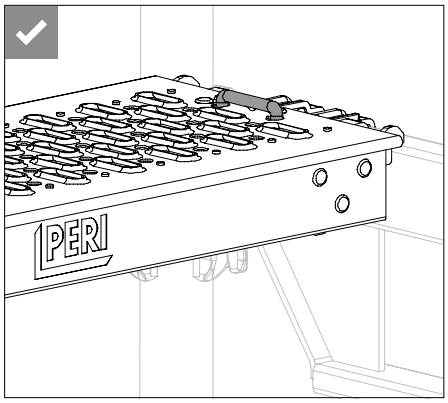


Fig. A9.05a

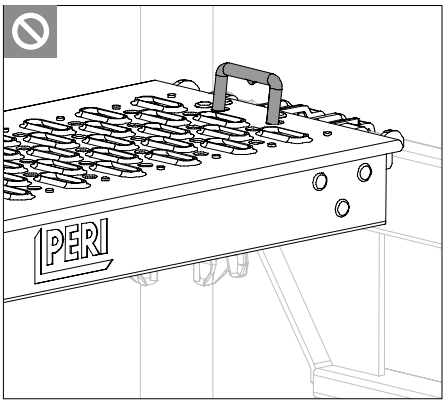


Fig. A9.05b

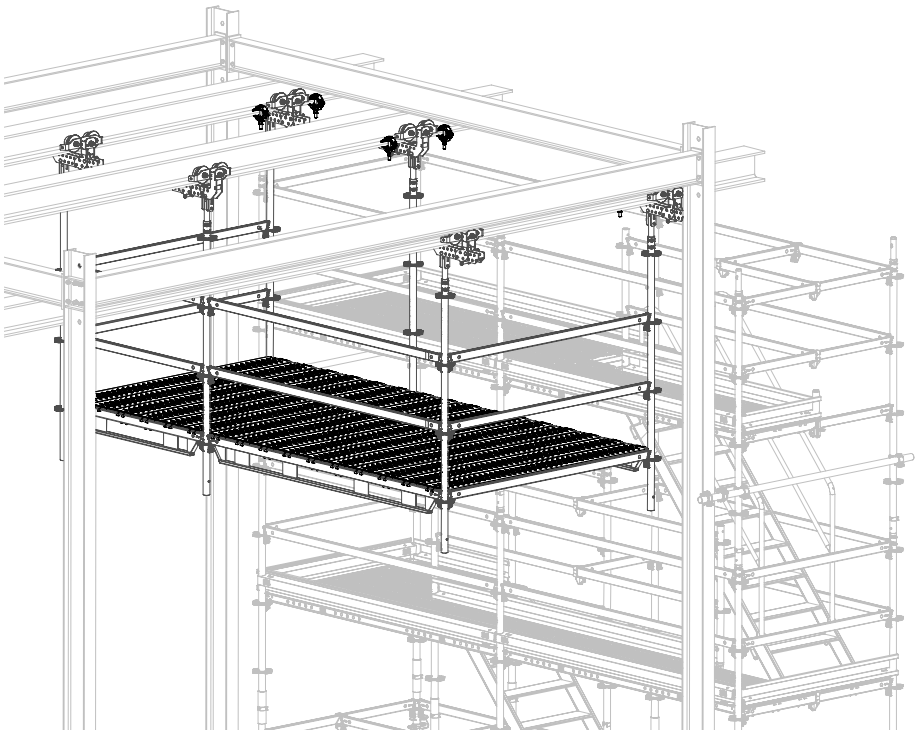


Fig. A9.06

A10 Assembly of additional bays

For assembling additional bays, follow the assembly instructions described so far step by step.

Assembly

1. Repeat the assembly steps for the Trolley UFS.
2. Repeat the assembly steps for the Standard UVR.
3. Repeat the assembly steps for the configuration of the second frame.
4. Repeat the assembly steps for the assembly of the first longitudinal ledger.
5. Repeat the assembly steps for the assembly of additional longitudinal ledgers.
6. Repeat the assembly steps for the assembly of the horizontal bracing.
7. Repeat the assembly steps for the assembly of the Deck UDG.
   → An additional bay is now mounted. (Fig. A10.02)

With this assembly version, no guard-rails are necessary in one bay which adjoins the erection scaffold.This bay is used in the following working steps as access to the suspended scaffold.

When first entering the platform, all wedges must be immediately checked and, if necessary, secured with a 500 g hammer.
(Fig. A11.01)

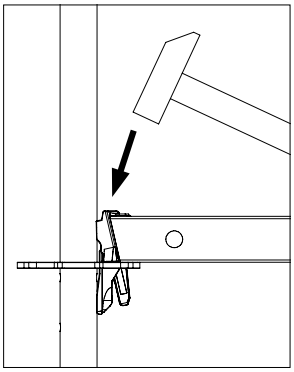


Fig. A10.01

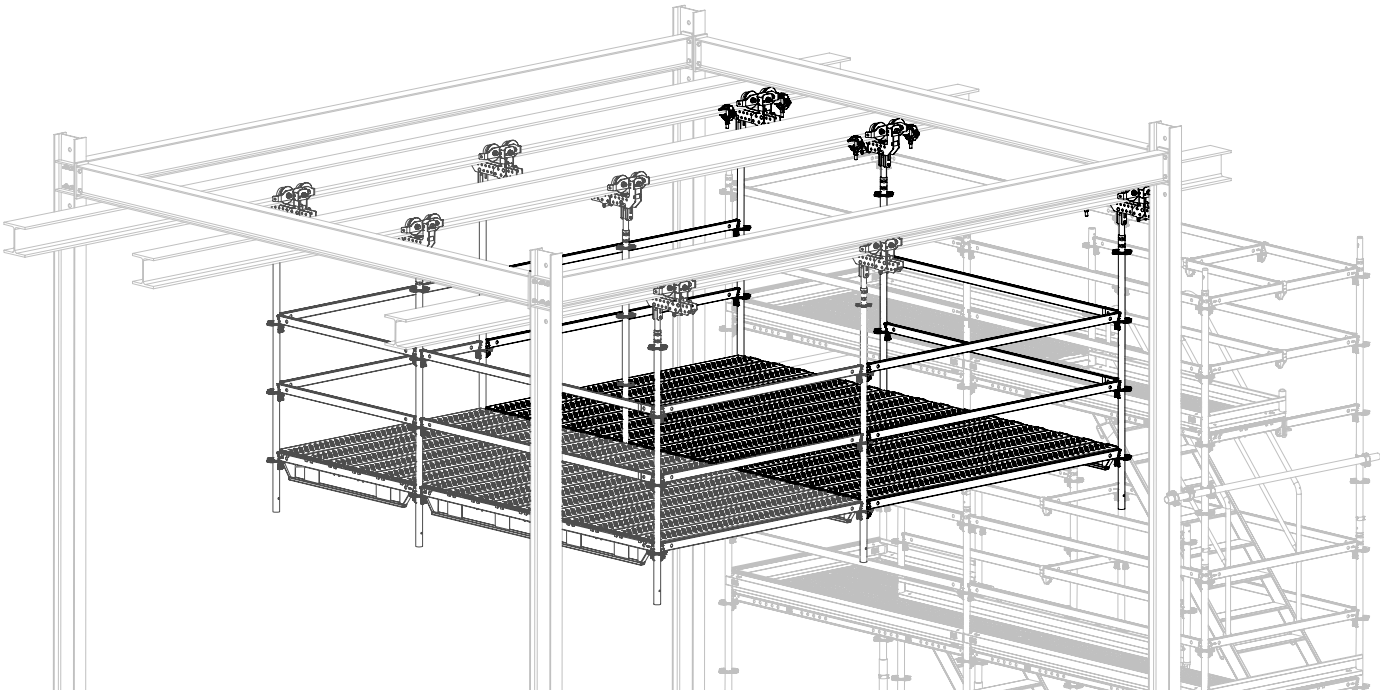


Fig. A10.02

A11 Assembly of Ledger Brace UBL

For bracing within the suspended scaffold, install Ledger Braces UBL (8) according to the implementation plan.

Components

8 Ledger Brace UBL
8.1 Finger
8.2 Gravity Pin

Assembly

1. Insert finger (8.1) of the Ledger Brace UBL (8) into the bottom Ledger UH. (Fig. A11.01a)
2. Pivot the gravity pin (8.2) and insert into the hole of the top Ledger UH. (Fig. A11.01b)
3. Turn gravity pin (8.2) to secure. (Fig. A11.01c)
4. Repeat assembly steps 1 to 3 until all other ledger braces have been installed.
   → The ledger braces are now correctly installed and secured. (Fig. A11.01)

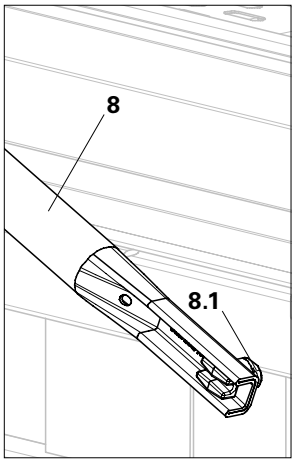
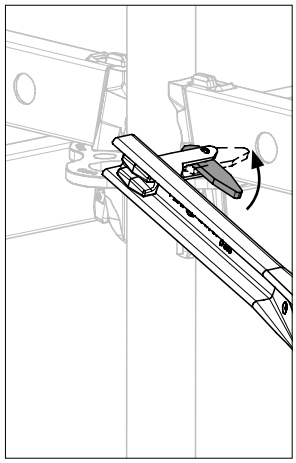


Fig. A11.01a


Fig. A11.01b

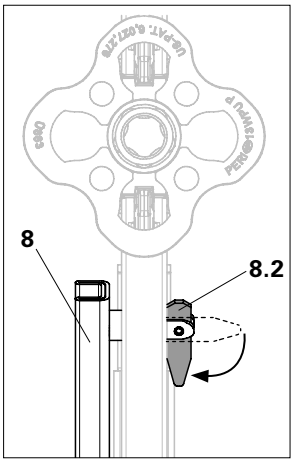
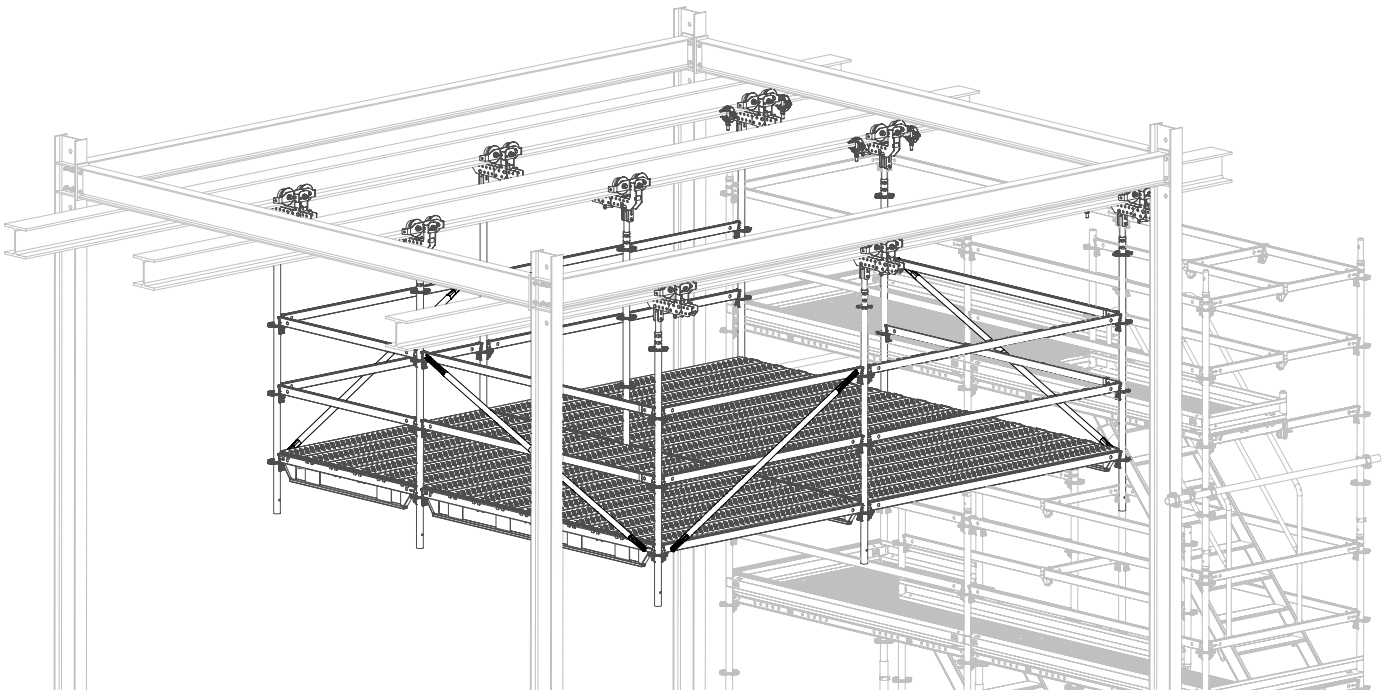


Fig. A11.01c


Fig. A11.01

A12 Assembly of Toeboard UPY

Components

3	Standard UVR
9	Toeboard UPY
9.1	Recess
9.2	Elongated hole
9.3	Semi-circle
9.4	Drilled hole

– When inserting the Toeboard UPY, ensure that the PERI logo is not upside down. (Fig. A12.01)
– Take into consideration the different ends of the Toeboard UPY.
  – Side with recess (9.1) and elongated hole (9.2). (Fig. A12.01a)
  – Side with semi-circle (9.3) and drilled hole (9.4). (Fig. A12.01b)

Assembly of the straight side
Toeboard UPY:
1. Place recess (9.1) obliquely on the Standard UVR (3). (Fig. A12.02a)
2. Pivot in the direction of the second Standard UVR (3). (Fig. A12.02a)
3. Semi-circle (9.3) must be positioned at the level of the Standard UVR, then lower. (Fig. A12.02c)
   → Toeboard UPY is now positioned.

When installing the Toeboard UPY at the corner, ensure that the elongated holes (9.2) or drilled holes (9.4) are always aligned with each other. (Fig. A12.03a/A12.03b)

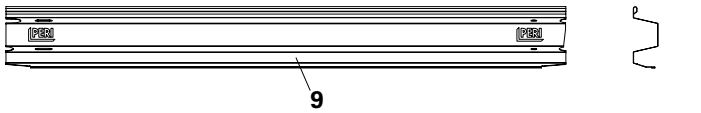


Fig. A12.01

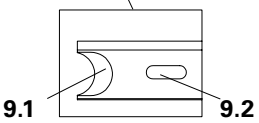


Fig. A12.01a

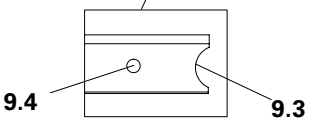


Fig. A12.01b

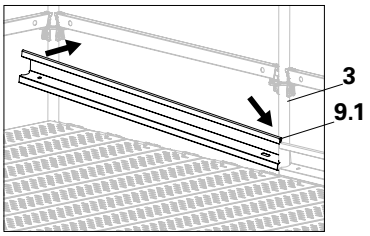


Fig. A12.02a

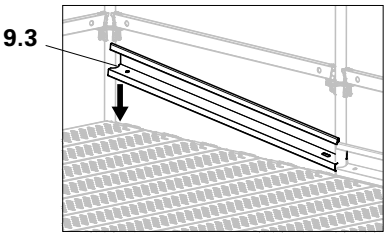


Fig. A12.02b

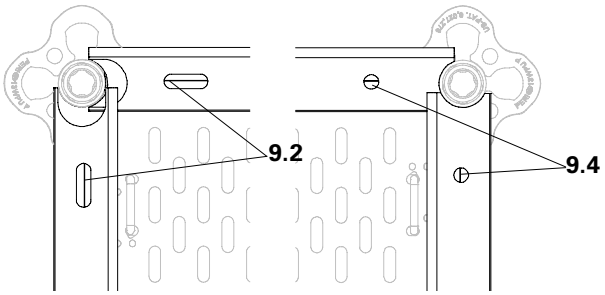
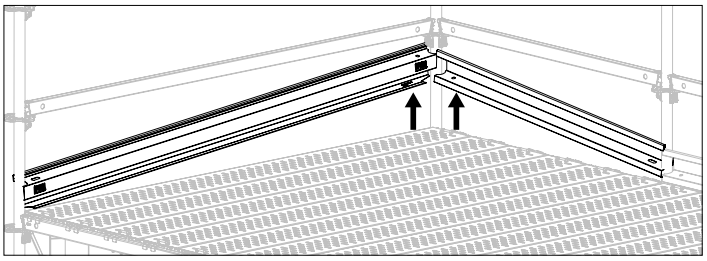
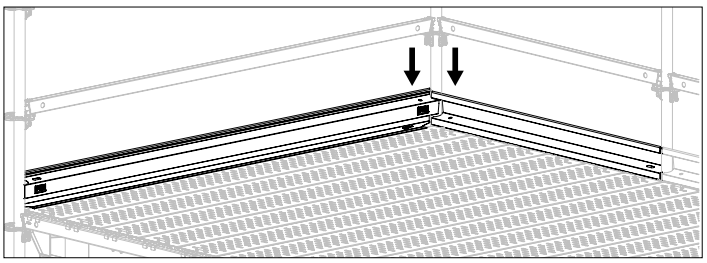


Fig. A12.03a

Fig. A12.03b


Fig. A12.04a


Fig. A12.04b

A12 Assembly of Toeboard UPY

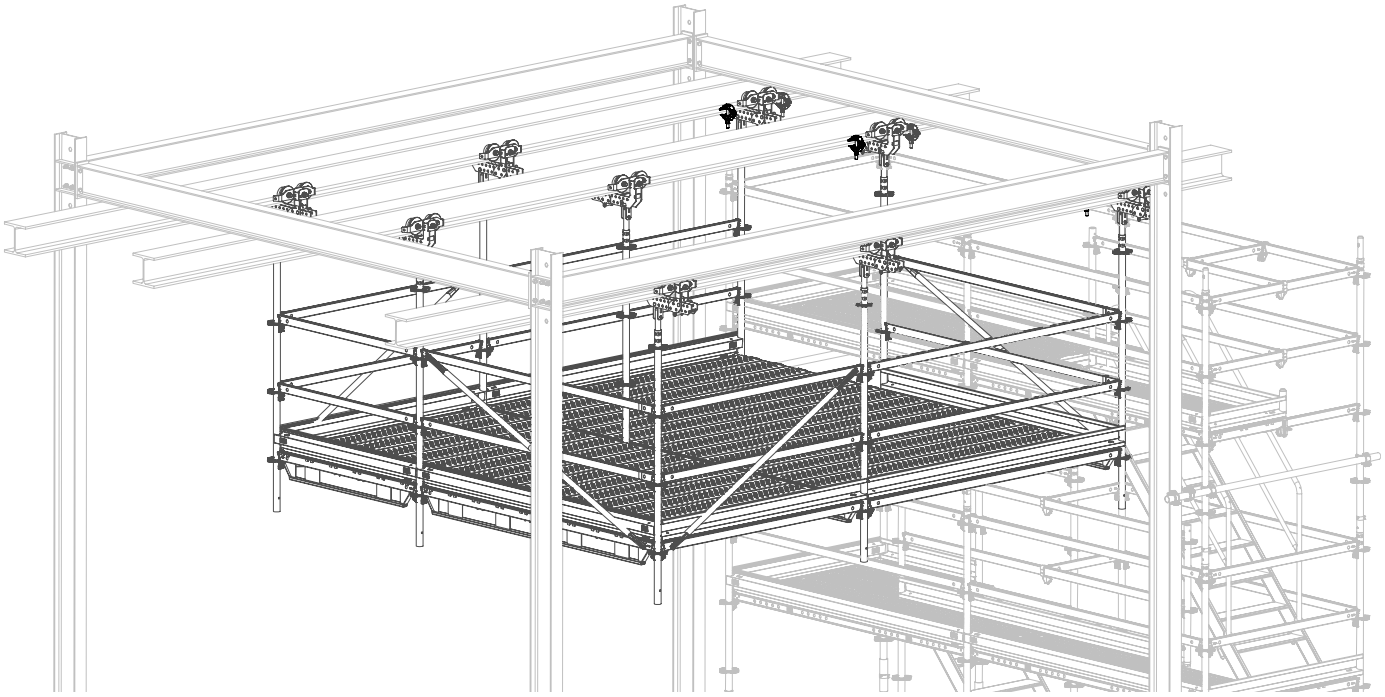


Fig. A12.05

Corner assembly
Toeboard UPY:
1. Place recess (9.1) obliquely on the Standard UVR (3). (Fig. A12.02a)
2. Pivot in the direction of the second Standard UVR (3). (Fig. A12.02b)
3. Semi-circle (9.3) must be positioned at the level of the Standard UVR.
4. Lift both Toeboards UPY. (Fig. A12.04a)
5. Lower both Toeboards UPY simultaneously. (Fig. A12.04b)
   → Toeboards UPY are now positioned. (Fig. A12.05)

A13 Moving the Main Beam Clamp

In order to secure the suspension scaffold against rolling away, the main beam clamps mounted behind the last frame must be moved one after the other. (Fig. A13.01)

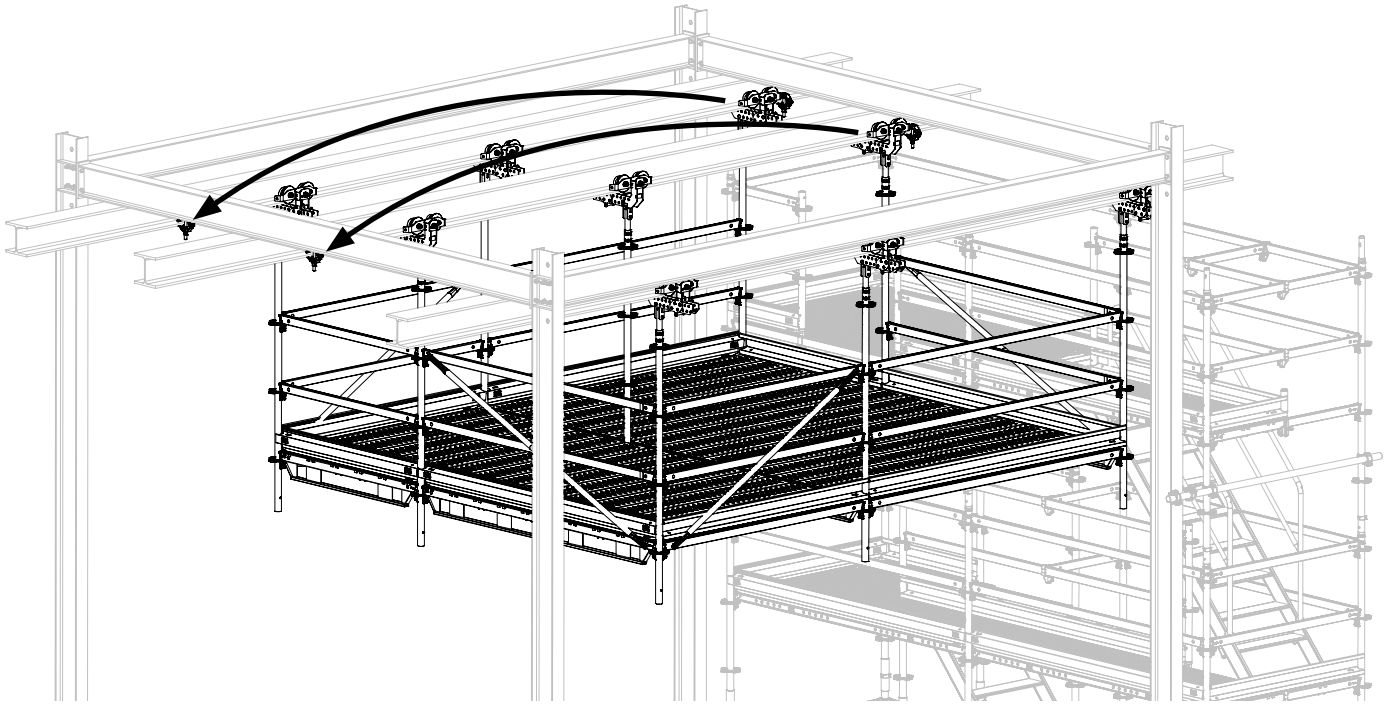


Fig. A13.01

Bracing is used to transfer horizontal forces as well as preventing pendulum movements. The bracing is installed in accordance with the implementation plan.
Suitable and proven constructions can be used for bracing purposes.
For example, bracing the suspended scaffold with tubes and couplers or with crossed tension belts against the structure or structural parts such as columns or slabs.

- The trolley is not suitable for transferring horizontal forces arising from the effects of the wind, or the bracing!
- Secure the entire suspended scaffold against unintended rolling away and displacement by means of clamping jaws or other suitable equipment!

Components

12	Flange Coupler UEC
15	Standard Coupler
16	Scaffold Tube

- With this assembly variant, a construction consisting of tubes, Flange Couplers UEC and standard couplers is used for bracing the suspended scaffold. (Fig. A14.01 + A14.01a)
- Static proof is necessary for transferring the forces and transmitting them into the ground.

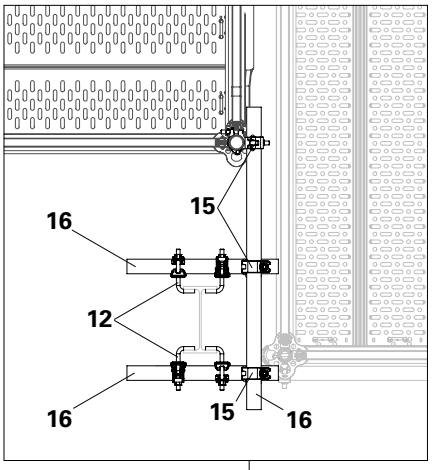


Fig. A14.01a

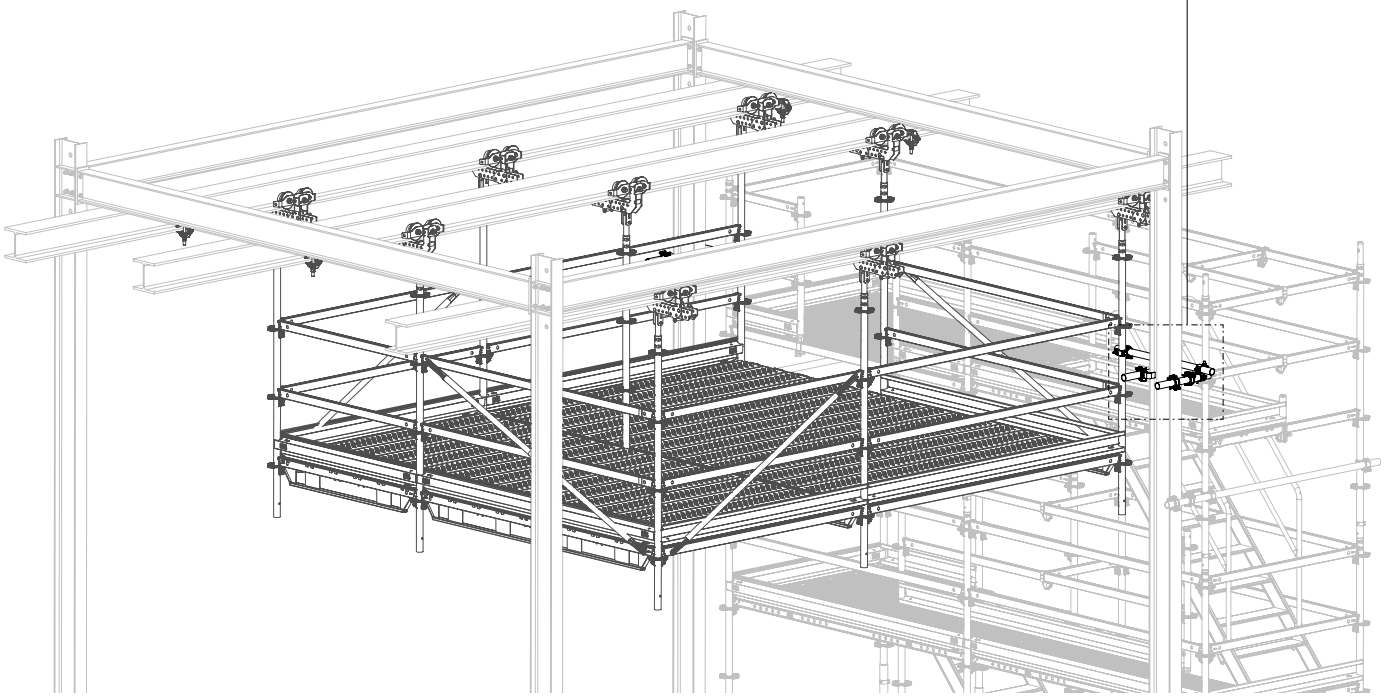


Fig. A14.01

Permissible tension force 20.60 kN

The bottom standard is connected to the top standard by a bolt.
The embossed spigot of the bottom standard is verified for this connection! (See Approval Z-8.22-863)

Components

3	Standard UVR	2x
13	Bolt M10x70, Grade 8.8 with Nut	1x

(Fig. B1.01 + B1.01a)

Permanent securing by means of lock nuts or self-locking nuts is recommended for safety reasons.

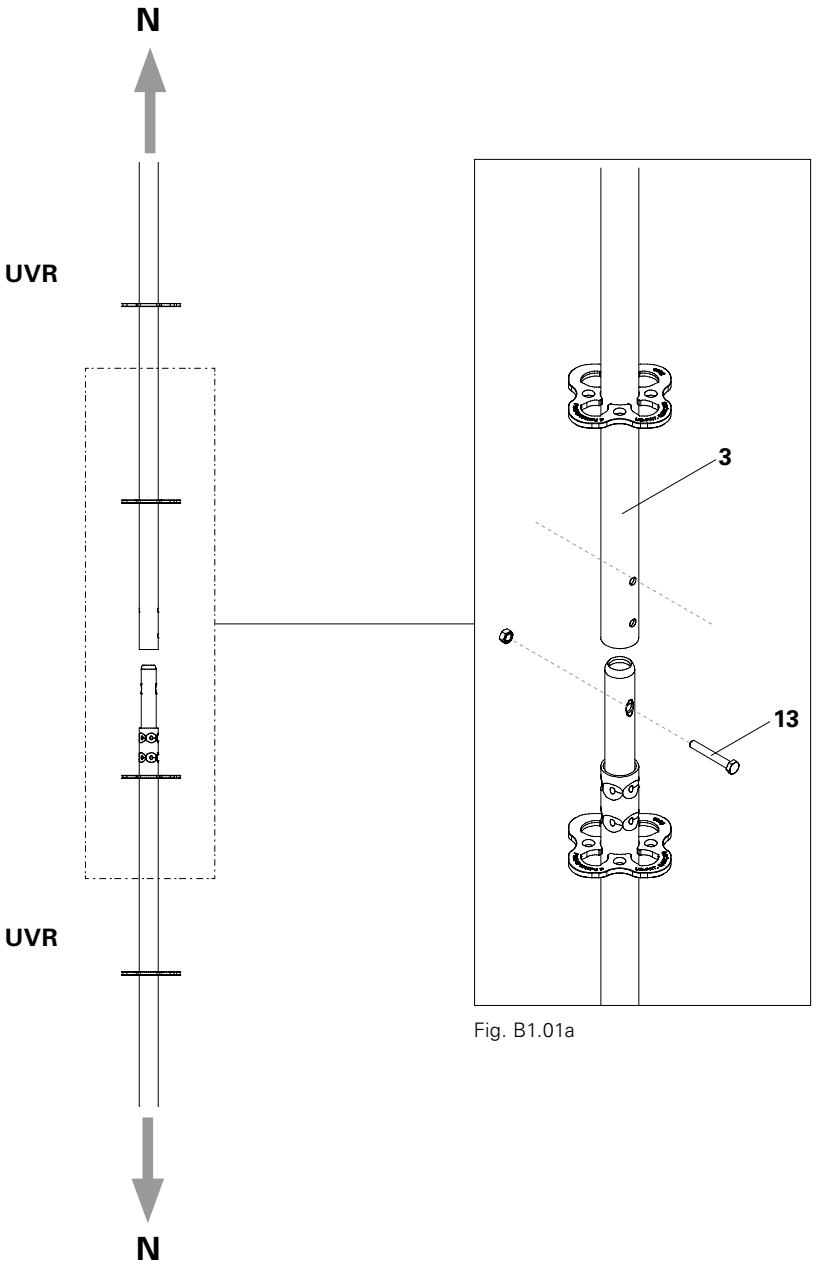


Fig. B1.01a

Fig. B1.01

Permissible tension force 21.70 kN

Both Top Standards UVR are connected to each other by means of the Connector ULT and two bolts.

Components

10	Top Standard UVH	2x
11	Spigot ULT 32	1x
13	Bolt M10x70, Grade 8.8 with Nut	2x

(Fig. B2.01 + B2.01a)

Permanent securing by means of lock nuts or self-locking nuts is recommended for safety reasons.

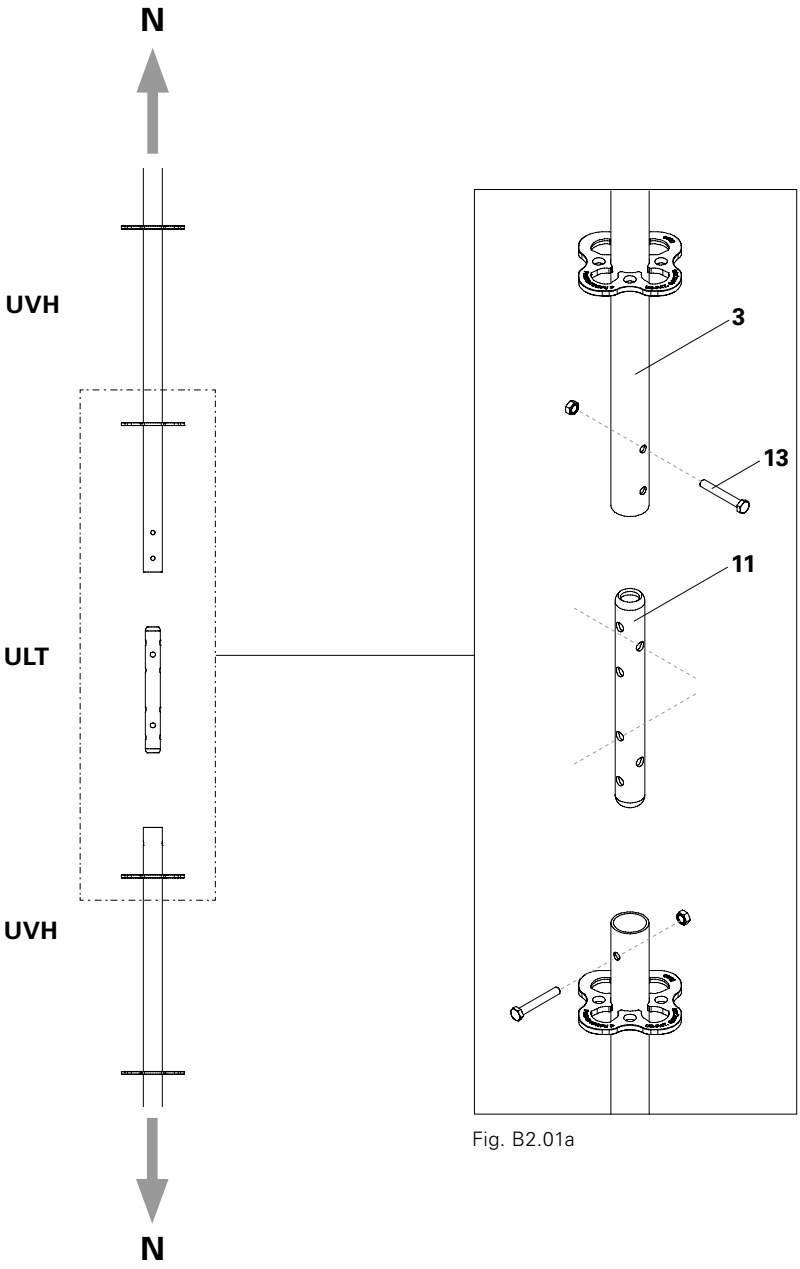


Fig. B2.01a

Fig. B2.01

B3 Flange Coupler UEC

Connection to an I-shaped steel girder
(Fig. B3.01)

Verification of the steel girder must be provided by the contractor.

Components

12	Flange Coupler UEC

(Fig. B3.01)

With two Flange Couplers UEC (12), one scaffold tube can be clamped to an I-girder which serves as the basis for continued assembly with a system scaffold.

Important: the flange couplers must encompass the girder flange up to the start of the curvature in order to keep the bending load to a minimum.
(Fig. B3.02 + B3.03)

Technical data
Free choice of flange widths:
$b_f = (b\text{-}t_s) / 2 \geq 40$ mm
Flange thicknesses:
$t_f \leq 39$ mm
Permissible suspended load:
see values
and Design Tables

Further assembly on the scaffold tube with couplers or other components requires additional verification.

- The transfer of forces via the scaffold tubes into the steel girders requires additional verification. It is possible to limit the permissible load on the entire connection!
- Verification for the scaffold tube must be additionally carried out and is not included in the given permissible loads!

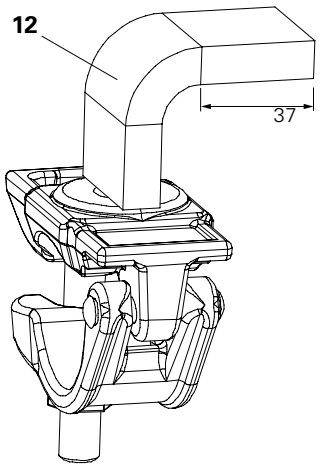


Fig. B3.01

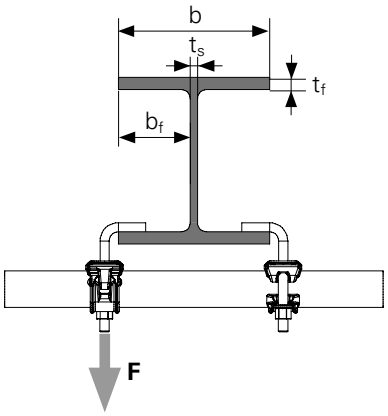


Fig. B3.02

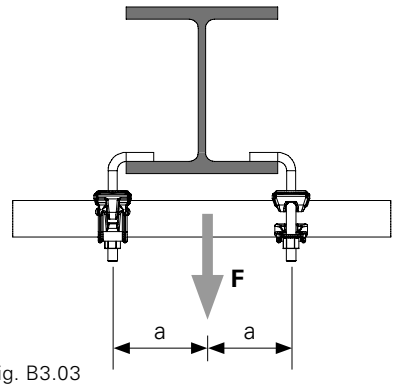


Fig. B3.03

max. F kN
9.00

max. F kN
18.00

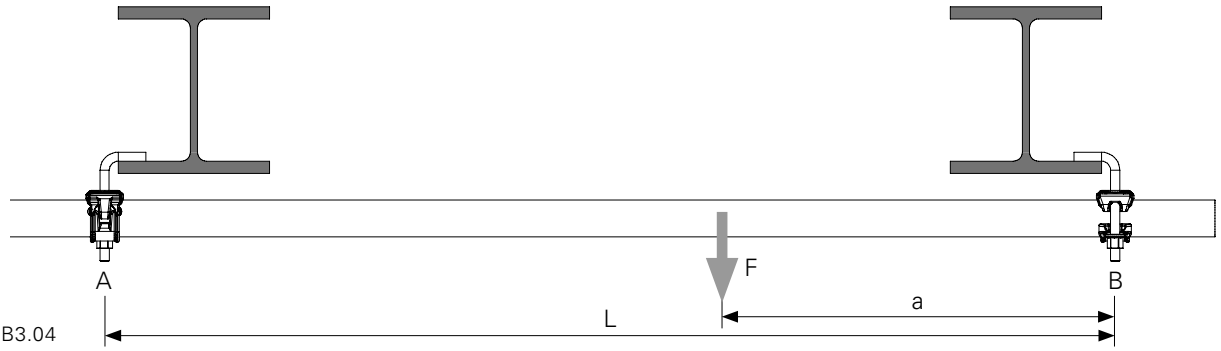


Fig. B3.04

max. F (also see table) kN
max. F ≤ 9.0 * [L/(L-a)] mit A ≤ 9.0 kN and B ≤ 9.0 kN

Verification for the scaffold tube must be additionally carried out and is not included in the given permissible loads! (Tab. 01 + Tab. 02)

L	a = x*L x	max. F kN	max. A kN	max. B kN
1.0	0.0	9.00	0.00	9.00
1.0	0.1	10.00	1.00	9.00
1.0	0.2	11.25	2.25	9.00
1.0	0.3	12.86	3.86	9.00
1.0	0.4	15.00	6.00	9.00
1.0	0.5	18.00	9.00	9.00
1.0	0.6	15.00	9.00	6.00
1.0	0.7	12.86	9.00	3.86
1.0	0.8	11.25	9.00	2.25
1.0	0.9	10.00	9.00	1.00
1.0	1.0	9.00	9.00	0.00
		= A + B	≤ 9.0 kN	≤ 9.0 kN

Tab. 01

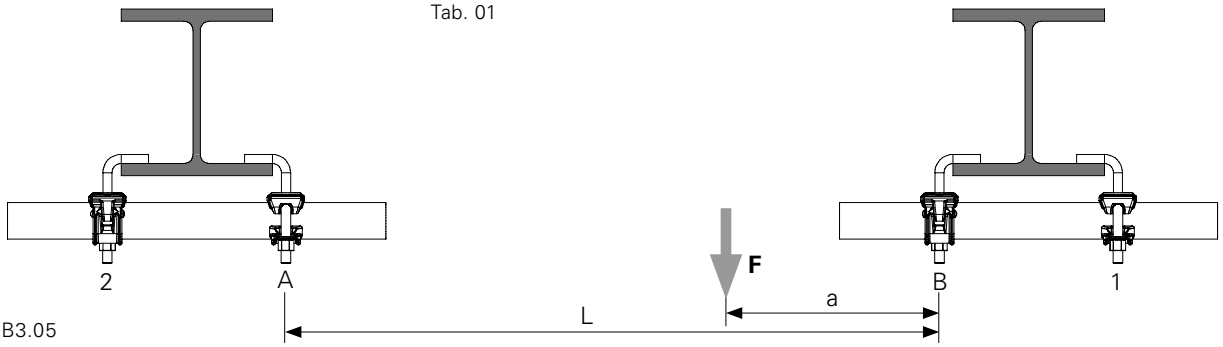


Fig. B3.05

max. F (also see tables) kN
max. F ≤ 9.0 * [L/(L-a)] mit A ≤ 9.0 kN and B ≤ 9.0 kN

Flange couplers at points 1 and 2 lift upwards and therefore cannot transmit any loads!

L	a = x*L x	max. F kN	max. A kN	max. B kN
1.0	0.0	9.00	0.00	9.00
1.0	0.1	10.00	1.00	9.00
1.0	0.2	11.25	2.25	9.00
1.0	0.3	12.86	3.86	9.00
1.0	0.4	15.00	6.00	9.00
1.0	0.5	18.00	9.00	9.00
1.0	0.6	15.00	9.00	6.00
1.0	0.7	12.86	9.00	3.86
1.0	0.8	11.25	9.00	2.25
1.0	0.9	10.00	9.00	1.00
1.0	1.0	9.00	9.00	0.00
		= A + B	≤ 9.0 kN	≤ 9.0 kN

Tab. 02

Verification of the steel girder must be provided by the contractor.

Technical data
Trolley UFS 20 is usable for:
Flange widths: from 200 – 320 mm
Flange thicknesses: ≤ 40 mm
(Fig. B4.03)

Girder inclination:
for 15 to 20 mm flange thickness: ≤6.3°
for 40 mm flange thickness: ≤3°

Adjustment range of the standard support:
Side movable arm: ≤ 90 mm
Side guide arm: ≤ 155 mm

Flanged wheel:
Material: polyamide
Temperature range: -30° bis +80°C

perm. vertical load: 20 kN (2.0 t)

The trolley is not suitable for transferring horizontal forces arising from the effects of the wind, or the bracing!

Connecting the standards
Standards UVR can be mounted as planned on the standard supports of the trolley using Bolts M10x70, Grade 8.8 (see Section B1).
(Fig. B4.02)

Alternatively, Top Standards UVH can also be used with Connectors ULT and Bolts M10x70, Grade 8.8 (see Section B2).

Details regarding the permissible loads of the individual connections are given in the previous sections.

Standards UVR and Top Standards UVH must be connected to each other as well as to the standard support using Bolts M10x70 mm, Grade 8.8.

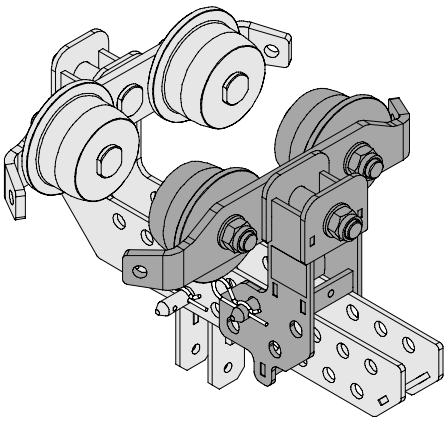


Fig. B4.10

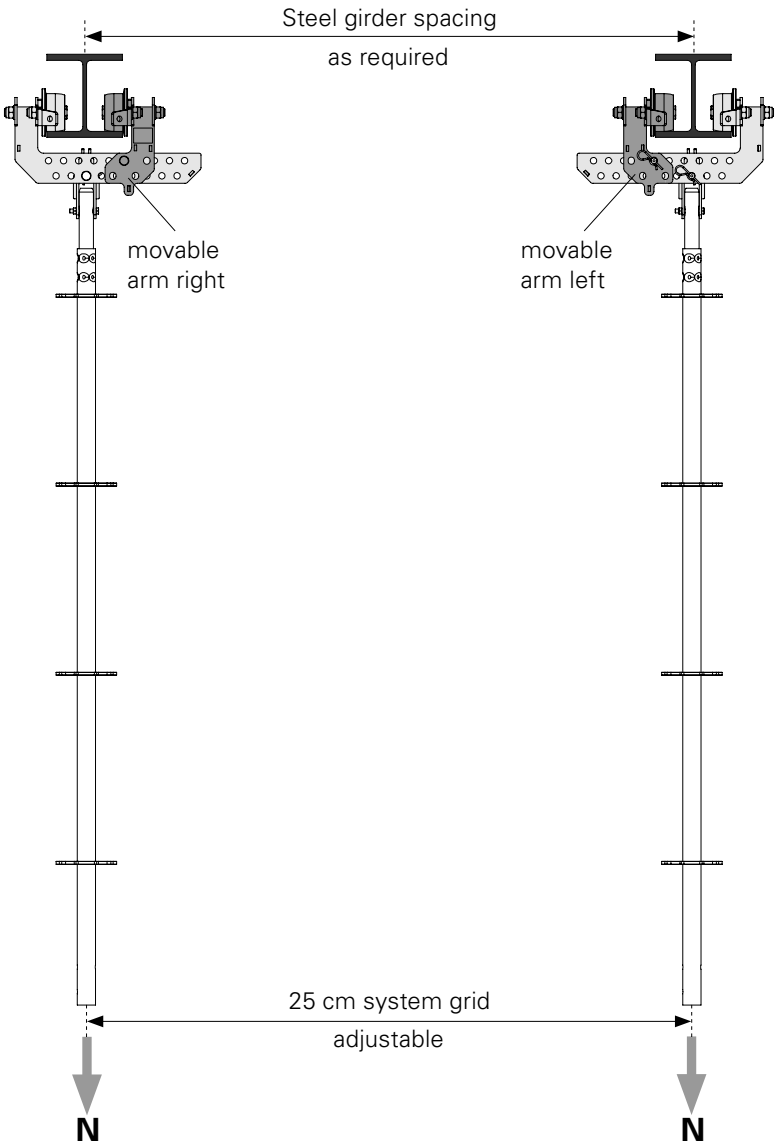


Fig. B4.02

The flanged wheels must encompass the flange of the steel girder as closely as possible.

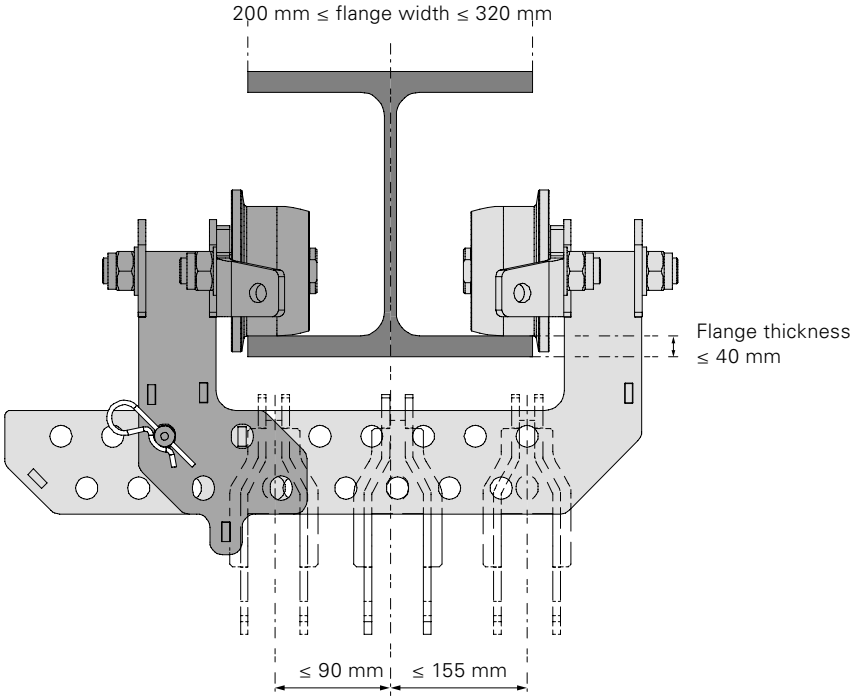
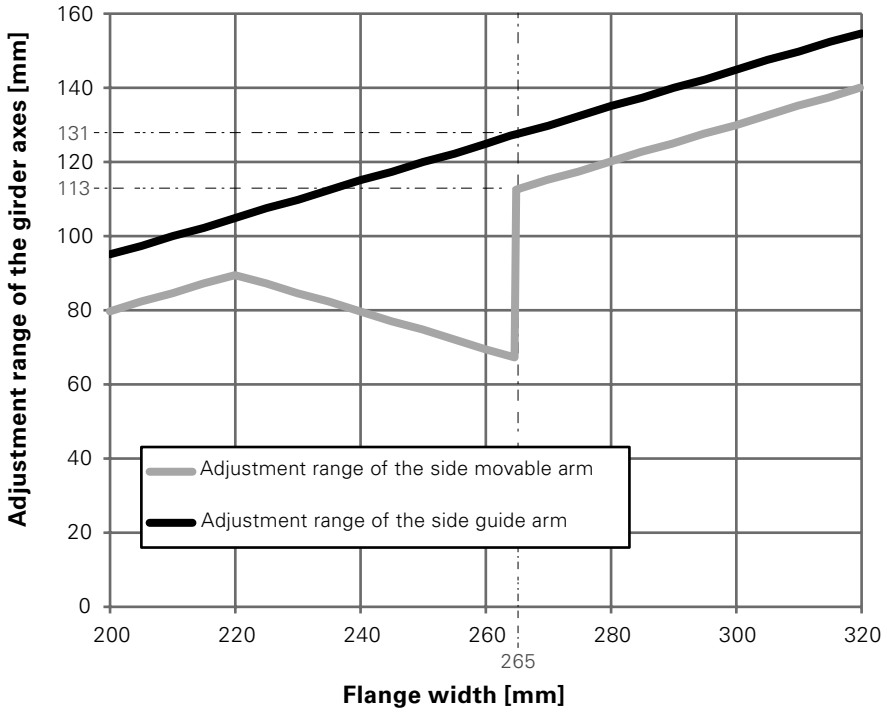
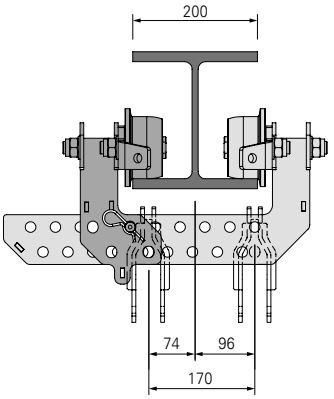


Fig. B4.03

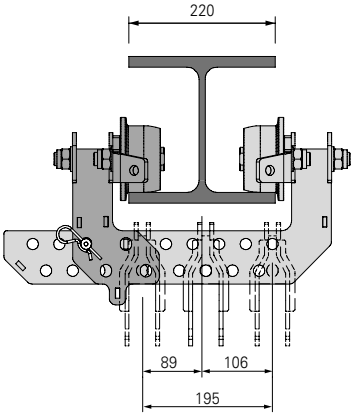
Adjustment range of the side movable arm:
up to 90 mm
(measured from the girder axis)

Adjustment range of the side guide arm:
up to 155 mm
(measured from the girder axis)

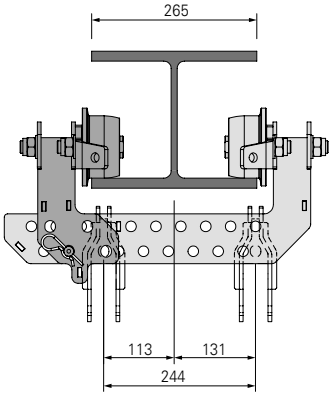




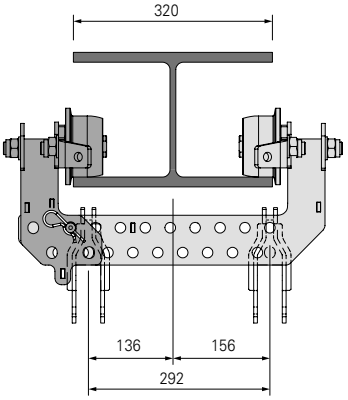
Flange width: 200
Adjustable width: 170



Flange width: 220
Adjustable width: 195

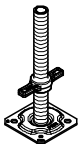


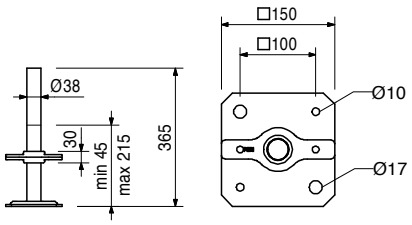
Flange width: 265
Adjustable width: 244



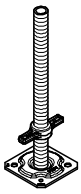
Flange width: 320
Adjustable width: 292

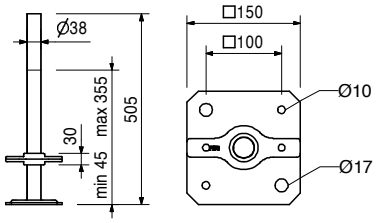
Item no.	Weight kg		
116762	2.870	**Adj. Base Plate UJB 38-36/17**	**Note** With captive white Quick Jack Nut.



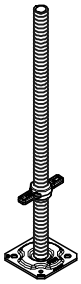


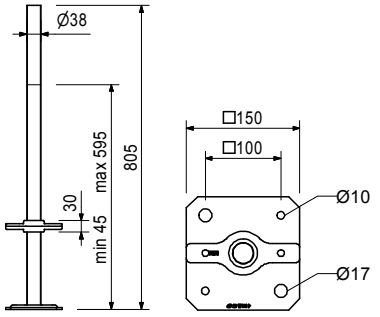
100411	3.420	**Adj. Base Plate UJB 38-50/30**	**Note** With captive red Quick Jack Nut.



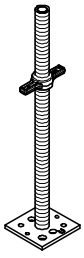


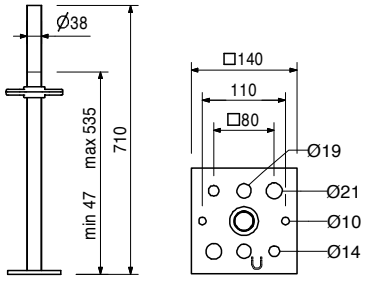
100242	4.570	**Adj. Base Plate UJB 38-80/55**	**Note** With captive yellow Quick Jack Nut.



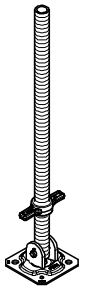


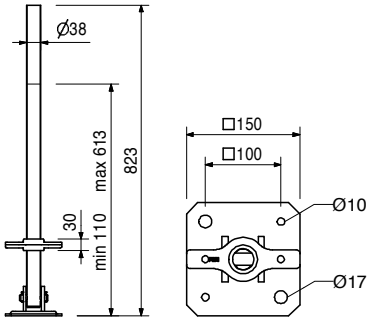
019780	5.250	**Base Spindle TR 38-70/50** For heavily loaded shoring.	**Note** With captive silver Quick Jack Nut.





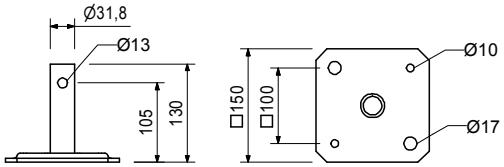
Item no.	Weight kg		
100159	5.150	**Adj. Base Plate UJS 38-80/50 Swivel**	**Note** With captive yellow Quick Jack Nut.





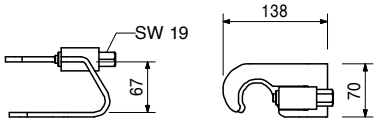
100244	1.200	**Base Plate UJP** Without height adjustment.	



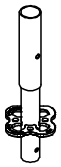


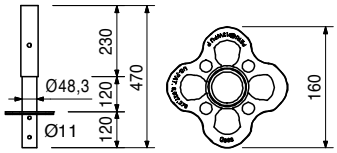
100863	1.020	**Spindle Locking UJS** Secures the Adjustable Base Plates and Section Spindles Ø 38 mm in the leg while moving.	**Technical Data** Permissible load 1.5 kN.





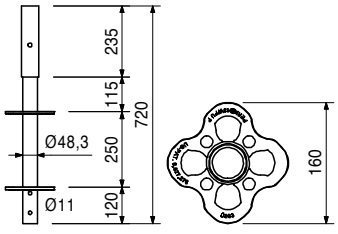
100014	2.470	**Base Standard UVB 24** For assembly directly on the base spindle.	



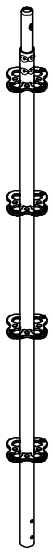


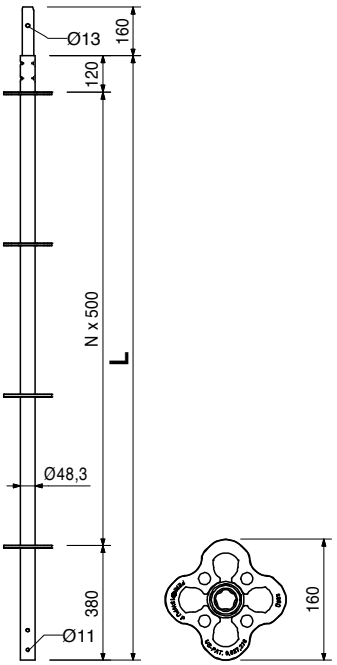
117194	3.980	**Base Standard UVB 49** For assembly directly on the base spindle. Reduces necessary spindle extension lengths through distance between rosettes of 25 cm.	





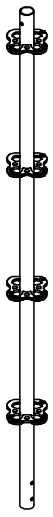
Item no.	Weight kg	Standards UVR	L
102859	3.080	**Standard UVR 50**	500
101306	5.380	**Standard UVR 100**	1000
102860	7.690	**Standard UVR 150**	1500
100009	10.000	**Standard UVR 200**	2000
100012	14.700	**Standard UVR 300**	3000
100013	19.200	**Standard UVR 400**	4000

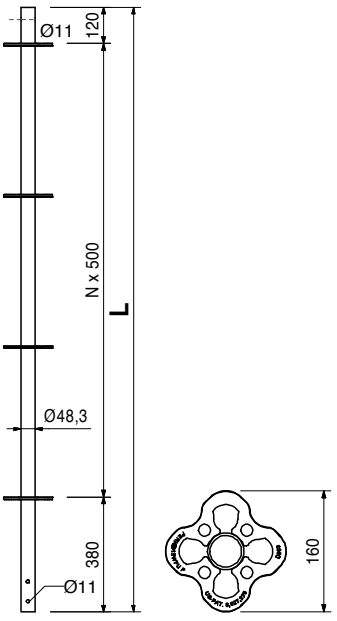




Item no.	Weight kg	Top Standards UVH	L
101309	2.510	**Top Standard UVH 50**	500
100000	4.610	**Top Standard UVH 100**	1000
117195	7.600	**Top Standard UVH 125**	1250
100003	6.920	**Top Standard UVH 150**	1500
100005	9.240	**Top Standard UVH 200**	2000
100007	11.500	**Top Standard UVH 250**	2500

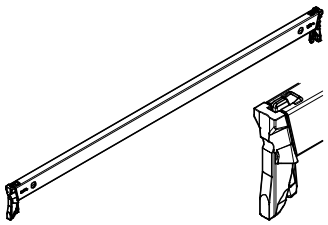
Without spigot for supporting head spindles.

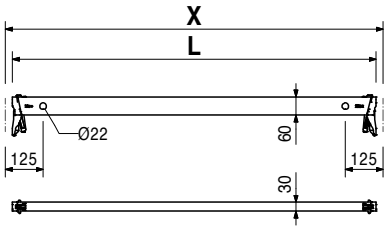




Item no.	Weight kg	Ledgers UH Plus	L	X	Sticker
114613	1.420	**Ledger UH 25 Plus**	204	250	
125840	1.770	**Ledger UH 37.5 Plus**	329	375	
114595	2.070	**Ledger UH 50 Plus**	454	500	
114629	2.730	**Ledger UH 75 Plus**	704	750	White
114632	4.460	**Ledger UH 100 Plus**	954	1000	White
114638	5.430	**Ledger UH 125 Plus**	1204	1250	
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	
116356	6.700	**Ledger UH 225 Plus**	2204	2250	
114648	7.360	**Ledger UH 250 Plus**	2454	2500	
114651	8.680	**Ledger UH 300 Plus**	2954	3000	

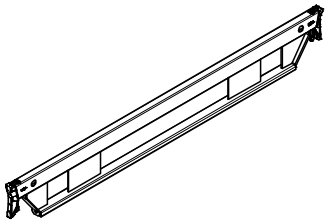
Note
Longitudinelly-stamped and with coloured label for easier identification.

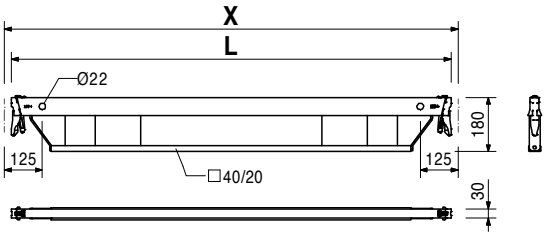




		Ledgers UHV	L	X
114681	11.000	**Ledger UHV 150 Plus**	1454	1500
114687	14.900	**Ledger UHV 200 Plus**	1954	2000
114691	18.100	**Ledger UHV 250 Plus**	2454	2500
114695	21.800	**Ledger UHV 300 Plus**	2954	3000

For high loads, e.g. material storage.

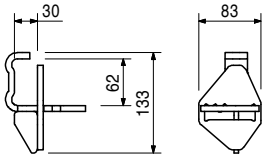




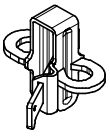
101731	0.841	**Ledger to Ledger Coupler UHA**

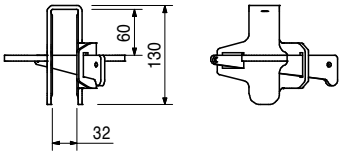
For connecting ledger to ledger at right-angles.



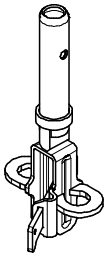


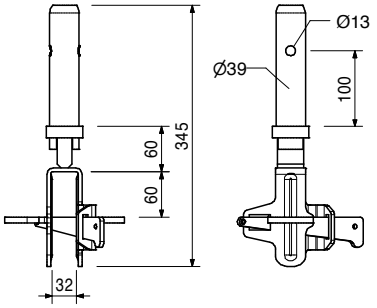
110793	1.090	**Ledger to Ledger Coupler UHA Half**



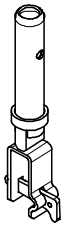


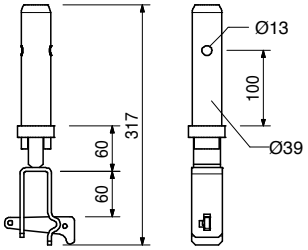
Item no.	Weight kg	
110792	1.900	**Ledger to Ledger Coupler UHA Half w. Spigot**



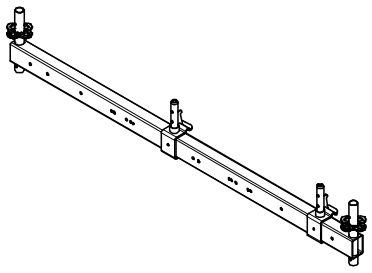


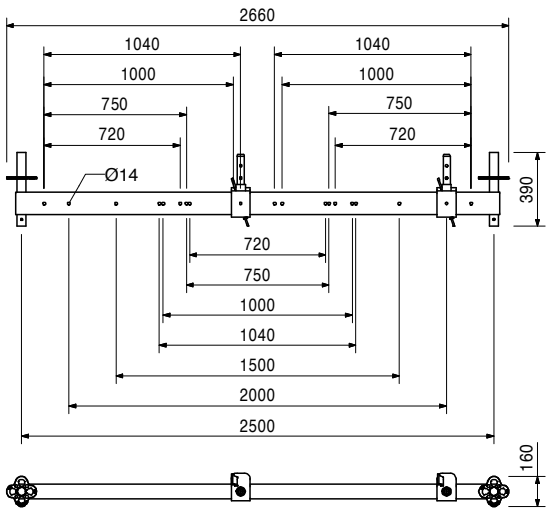
109764	1.250	**UH Spigot**





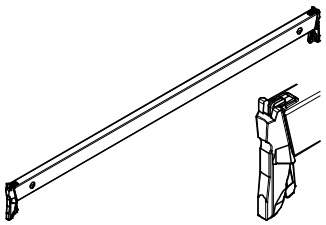
100870	40.700	**Base Beam UVA 250** For free-standing and mobile scaffold units. For symmetric and antimetric assembly of UP T 72/T 104 and Rosett 72, 75, 100, 104 and symmetric assembly of Rosett b = 75, 100, 150, 200 and 250 cm.

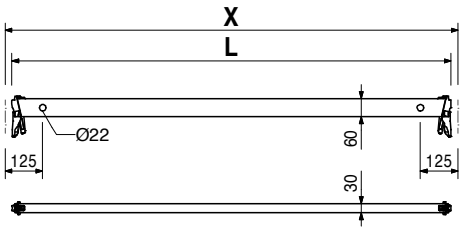




Item no.	Weight kg	Ledgers UH	L	X	Sticker
404780	1.390	**Ledger UH 25**	204	250	
404779	2.040	**Ledger UH 50**	454	500	
400017	2.710	**Ledger UH 75**	704	750	White
401159	3.370	**Ledger UH 100**	954	1000	White
410347	4.020	**Ledger UH 125**	1204	1250	
400021	4.690	**Ledger UH 150**	1454	1500	
400023	6.020	**Ledger UH 200**	1954	2000	White
400025	7.340	**Ledger UH 250**	2454	2500	Red
400027	8.670	**Ledger UH 300**	2954	3000	Black

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

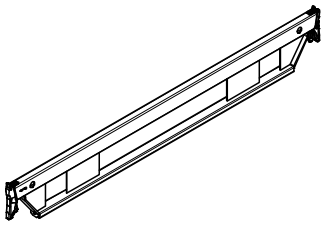


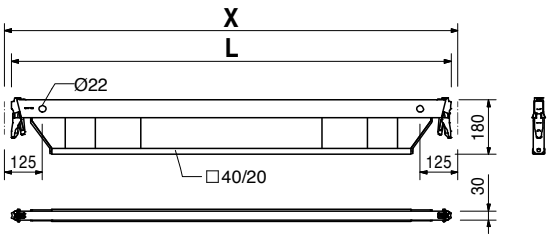


Item no.	Weight kg	Ledgers UHV	L	X
409107	10.900	**Ledger UHV 150**	1454	1500
409108	14.800	**Ledger UHV 200**	1954	2000
409109	18.000	**Ledger UHV 250**	2454	2500
409110	21.800	**Ledger UHV 300**	2954	3000

For high loads, e.g. material storage.

Note
Ledgers UHV can be replaced by ledgers UHV Plus.



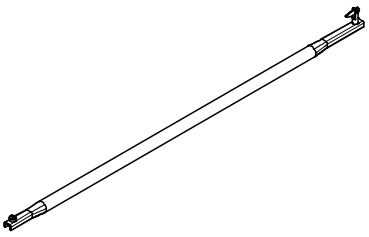


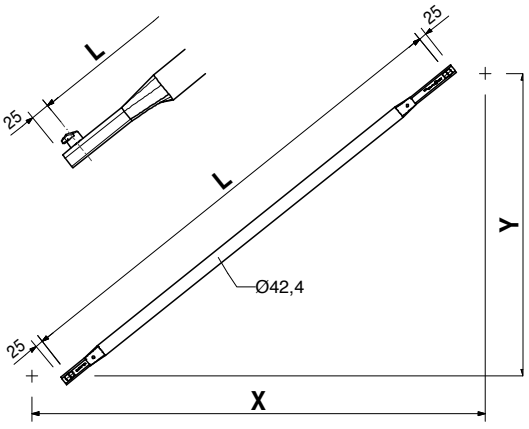
Item no.	Weight kg	Ledger Braces UBL	L	X	Y	Sticker
115156	2.660	**Ledger Brace UBL 100/50**	901	1000	500	
115513	4.640	**Ledger Brace UBL 100/150**	1677	1000	1500	
115157	5.810	**Ledger Brace UBL 100/200**	2136	1000	2000	
107867	3.790	**Ledger Brace UBL 150/50**	1347	1500	500	
100055	4.440	**Ledger Brace UBL 150/100**	1601	1500	1000	
102846	5.340	**Ledger Brace UBL 150/150**	1953	1500	1500	
100057	6.380	**Ledger Brace UBL 150/200**	2358	1500	2000	
109034	6.740	**Ledger Brace UBL 175/200**	2500	1750	2000	
104391	5.000	**Ledger Brace UBL 200/50**	1820	2000	500	
100059	5.500	**Ledger Brace UBL 200/100**	2016	2000	1000	
102862	6.240	**Ledger Brace UBL 200/150**	2305	2000	1500	
100061	7.160	**Ledger Brace UBL 200/200**	2658	2000	2000	White
117689	7.580	**Ledger Brace UBL 225/200**	2829	2250	2000	
100063	6.640	**Ledger Brace UBL 250/100**	2462	2500	1000	
102861	7.260	**Ledger Brace UBL 250/150**	2705	2500	1500	
100065	8.050	**Ledger Brace UBL 250/200**	3010	2500	2000	Red
104762	7.490	**Ledger Brace UBL 300/50**	2795	3000	500	
100067	7.830	**Ledger Brace UBL 300/100**	2926	3000	1000	
104766	8.360	**Ledger Brace UBL 300/150**	3133	3000	1500	
100069	9.050	**Ledger Brace UBL 300/200**	3400	3000	2000	Black

Mounted in the holes of the ledger.

Note

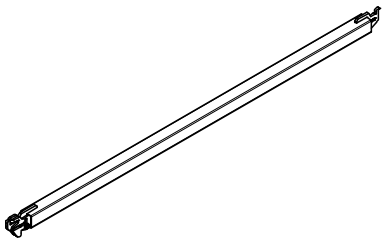
Longitudinally-stamped and with coloured label for easier identification.
UBL 150/250 identical to UBL 300/50.
UBL 225/150 identical to UBL 175/200.
UBL 250/50 identical to UBL 200/150.
UBL 75/200 identical to UBL 225/50.
UBL 100/100 identical to Diagonal Strut ST 100 (Item no. 019940).

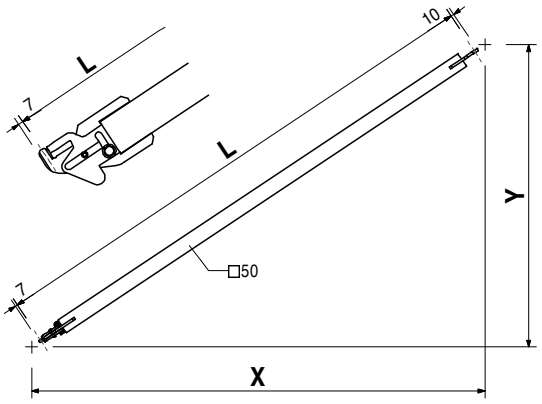




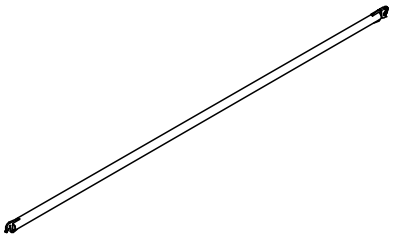
Item no.	Weight kg	H-Braces UBH Flex	L	X	Y
114818	4.580	**H-Brace UBH Flex 100/100**	1335	1000	1000
114904	5.620	**H-Brace UBH Flex 125/125**	1689	1250	1250
114821	5.720	**H-Brace UBH Flex 150/100**	1725	1500	1000
114908	6.160	**H-Brace UBH Flex 150/125**	1874	1500	1250
114912	6.650	**H-Brace UBH Flex 150/150**	2042	1500	1500
114820	7.000	**H-Brace UBH Flex 200/100**	2161	2000	1000
124097	7.770	**H-Brace UBH Flex 200/150**	2422	2000	1500
114916	8.730	**H-Brace UBH Flex 200/200**	2749	2000	2000
114896	8.120	**H-Brace UBH Flex 250/75**	2541	2500	750
114819	8.350	**H-Brace UBH Flex 250/100**	2620	2500	1000
124101	8.990	**H-Brace UBH Flex 250/150**	2838	2500	1500
114996	8.640	**H-Brace UBH Flex 250/125**	2720	2500	1250
114920	9.830	**H-Brace UBH Flex 250/200**	3123	2500	2000
114928	10.800	**H-Brace UBH Flex 250/250**	3456	2500	2500
114900	9.540	**H-Brace UBH Flex 300/75**	3025	3000	750
114892	9.730	**H-Brace UBH Flex 300/100**	3092	3000	1000
124105	10.300	**H-Brace UBH Flex 300/150**	3279	3000	1500
114924	11.000	**H-Brace UBH Flex 300/200**	3528	3000	2000
114932	11.900	**H-Brace UBH Flex 300/250**	3826	3000	2500
114936	12.900	**H-Brace UBH Flex 300/300**	4163	3000	3000

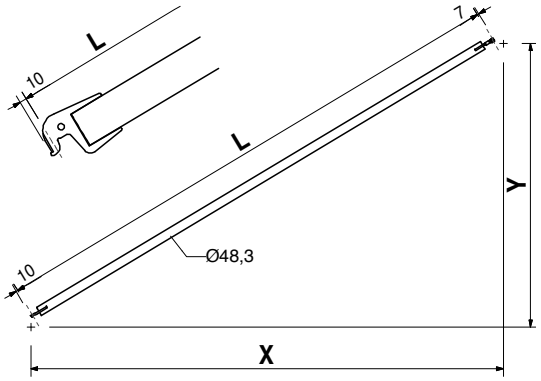
For horizontal bracing of towers. Also useable underneath deckings UDI and UDG.



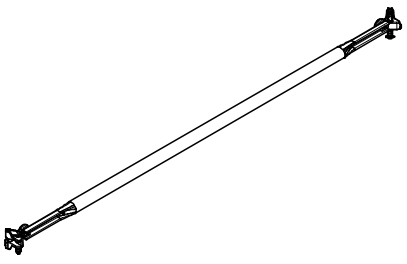


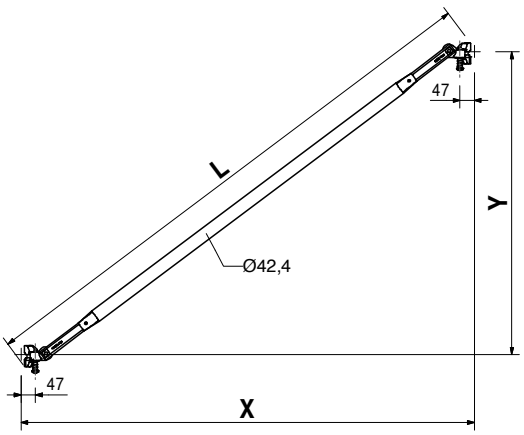
Item no.	Weight kg	Horizontal Braces UBH	L	X	Y
100042	7.350	**Horizontal Brace UBH 150/150**	2042	1500	1500
107815	8.700	**Horizontal Brace UBH 200/150**	2422	2000	1500
100047	9.870	**Horizontal Brace UBH 200/200**	2749	2000	2000
106931	10.200	**Horizontal Brace UBH 250/150**	2838	2500	1500
104356	11.300	**Horizontal Brace UBH 250/200**	3123	2500	2000
100049	12.400	**Horizontal Brace UBH 250/250**	3456	2500	2500
100051	11.800	**Horizontal Brace UBH 300/150**	3279	3000	1500
123483	12.700	**Horizontal Brace UBH 300/200**	3528	3000	2000
102617	13.800	**Horizontal Brace UBH 300/250**	3826	3000	2500
100053	15.000	**Horizontal Brace UBH 300/300**	4164	3000	3000





		Node Braces UBK	L	X	Y	Sticker
124170	6.780	**Node Brace UBK 75/200**	2190	750	2000	
112926	6.990	**Node Brace UBK 100/200**	2285	1000	2000	
115354	5.220	**Node Brace UBK 125/100**	1625	1250	1000	
112765	7.260	**Node Brace UBK 125/200**	2401	1250	2000	
100981	5.710	**Node Brace UBK 150/100**	1821	1500	1000	
100973	6.580	**Node Brace UBK 150/150**	2152	1500	1500	
100572	7.600	**Node Brace UBK 150/200**	2539	1500	2000	
100985	6.790	**Node Brace UBK 200/100**	2246	2000	1000	
106630	7.510	**Node Brace UBK 200/150**	2521	2000	1500	
100573	8.390	**Node Brace UBK 200/200**	2860	2000	2000	White
100989	7.940	**Node Brace UBK 250/100**	2696	2500	1000	
106624	8.540	**Node Brace UBK 250/150**	2930	2500	1500	
100574	9.310	**Node Brace UBK 250/200**	3226	2500	2000	Red
100993	9.130	**Node Brace UBK 300/100**	3131	3000	1000	
100575	10.300	**Node Brace UBK 300/200**	3625	3000	2000	Black





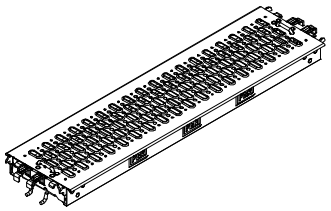
Item no.	Weight kg	
		Industrial Decks UDI 25
404029	4.090	**Industrial Deck UDI 25 x 50**
405925	5.520	**Industrial Deck UDI 25 x 75**
406092	6.950	**Industrial Deck UDI 25 x 100**
406880	8.380	**Industrial Deck UDI 25 x 125**
407002	9.790	**Industrial Deck UDI 25 x 150**
408380	12.700	**Industrial Deck UDI 25 x 200**
408540	15.500	**Industrial Deck UDI 25 x 250**
408689	18.400	**Industrial Deck UDI 25 x 300**

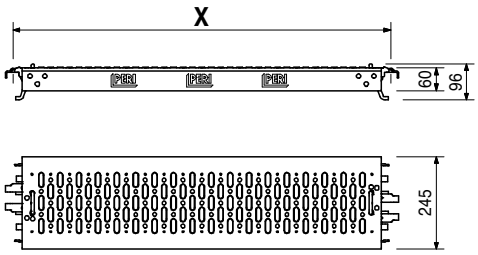
Mounted on Ledgers UH.

X	perm. p [kN/m²]	max. p [kN/m²]
500	6.0	40.0
750	6.0	40.0
1000	6.0	40.0
1250	6.0	28.4
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.





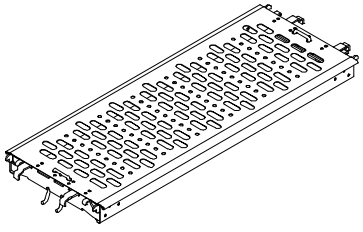
Item no.	Weight kg	
		Industrial Decks UDI 37.5
111685	5.110	**Industrial Deck UDI 37.5 x 50**
111687	6.790	**Industrial Deck UDI 37.5 x 75**
111686	8.460	**Industrial Deck UDI 37.5 x 100**
111860	10.100	**Industrial Deck UDI 37.5 x 125**
111863	11.800	**Industrial Deck UDI 37.5 x 150**
111864	15.200	**Industrial Deck UDI 37.5 x 200**
111865	18.500	**Industrial Deck UDI 37.5 x 250**
111969	21.900	**Industrial Deck UDI 37.5 x 300**

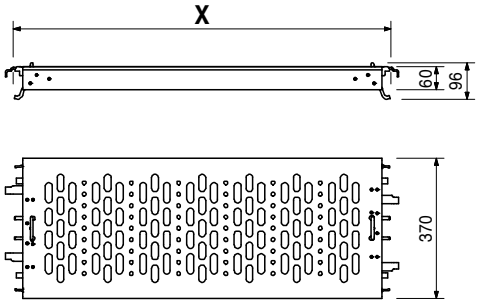
Mounted on Ledgers UH.

X	perm. p [kN/m²]	max. p [kN/m²]
500	6.0	40.0
750	6.0	26.7
1000	6.0	20.0
1250	6.0	16.0
1500	6.0	13.3
2000	6.0	10.0
2500	4.5	7.5
3000	3.0	5.2

Note

UDI 37.5 is offered as a "safe assembly".
perm. p according to DIN EN 12811-1.
max. p = maximum possible load without deflection limitation.





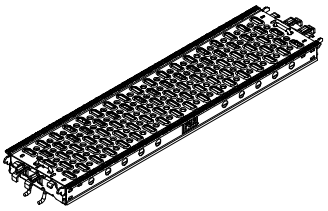
Item no.	Weight kg	
		Steel Decks UDG 25
124124	3.880	**Steel Deck UDG 25 x 50**
124121	5.260	**Steel Deck UDG 25 x 75**
124118	6.630	**Steel Deck UDG 25 x 100**
124115	8.010	**Steel Deck UDG 25 x 125**
124112	9.410	**Steel Deck UDG 25 x 150**
124109	12.200	**Steel Deck UDG 25 x 200**
123771	14.900	**Steel Deck UDG 25 x 250**
124915	17.700	**Steel Deck UDG 25 x 300**

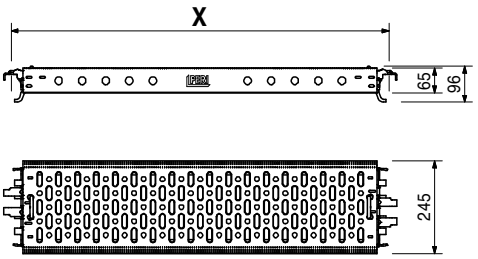
Mounted on Ledgers UH.

X	perm. p [kN/m²]	max. p [kN/m²]
500	6.0	40.0
750	6.0	40.0
1000	6.0	40.0
1250	6.0	28.4
1500	6.0	19.6
2000	6.0	10.9
2500	4.5	6.9
3000	3.0	4.7

Note

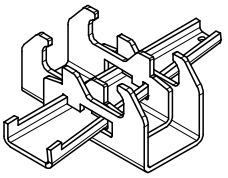
Perm. p according to DIN EN 12811-1.
max. p = maximum possible load without deflection limitation.

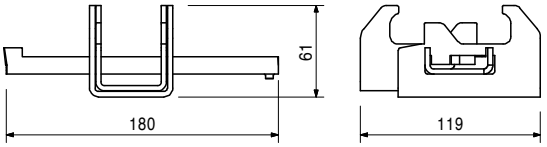




111011	0.797	**Deck Link Plate UDC**

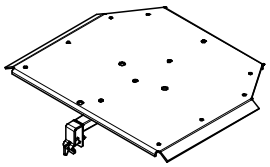
Connects two industrial decks.

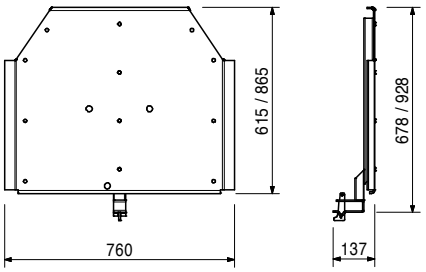




		Bottom Sheetings UDP
111101	7.780	**Bottom Sheeting UDP 75**
112809	10.900	**Bottom Sheeting UDP 100**

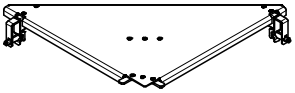
Mounted on UH Ledgers. Closes gaps between bays during scaffold installation on circular structures.

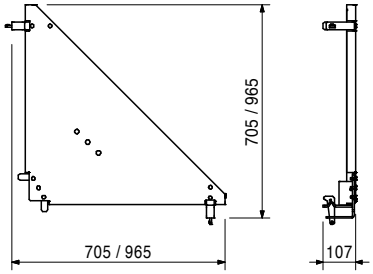




Item no.	Weight kg	
		Corner Sheetings UDC
114148	4.890	**Corner Sheeting UDC 75**
113358	10.000	**Corner Sheeting UDC 100**

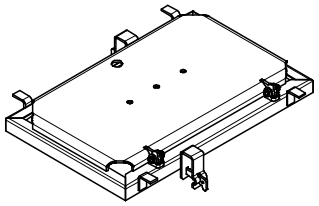
Mounted on UH Ledgers. For internal corners of platforms on circular containers.

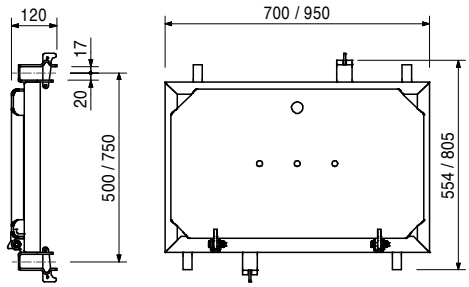




		Hatchs UAF
109783	9.330	**Hatch UAF 50 x 75**
109755	15.700	**Hatch UAF 75 x 100**

Mounted on UH Ledgers.





Accessories

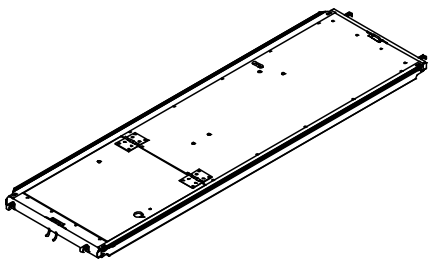
109879	3.820	**Ladder UAF 200, Alu**

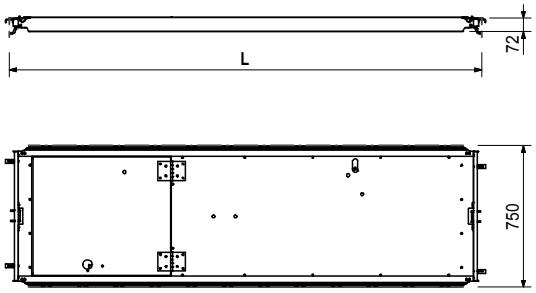
		Access Decks UAL-3
126393	15.600	**Access Deck UAL-3, 75 x 150/3**
126392	19.600	**Access Deck UAL-3, 75 x 200/3**
126314	23.500	**Access Deck UAL-3, 75 x 250/3**

L
1500
2000
2500

Technical Data

Load Class 3, 2.0 kN/m².

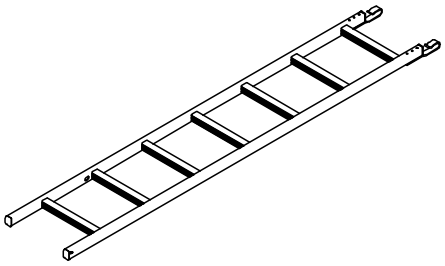


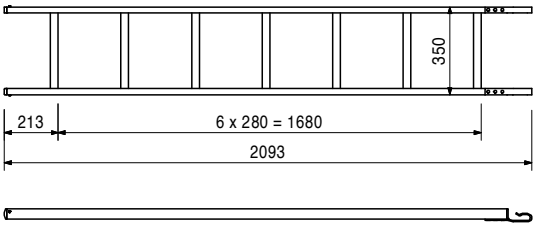


Accessories

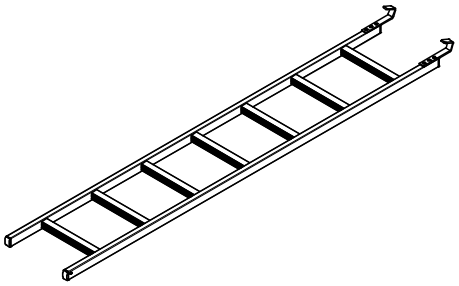
126318	3.750	**Ladder Flex UEL with hook**

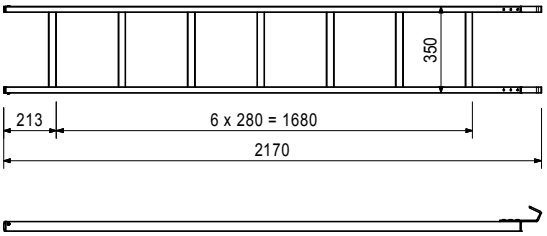
Item no.	Weight kg	
126318	3.750	**Ladder Flex UEL with hook**





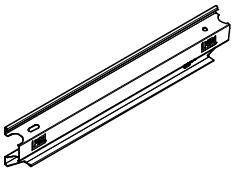
109879	3.820	**Ladder UAF 200, Alu** For mounting to Hatch UAF.

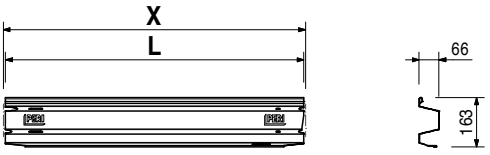




		Toeboards Steel UPY	**L**	**X**
110213	0.928	**Toeboard Steel UPY 50**	486	500
110526	1.380	**Toeboard Steel UPY 72**	706	720
110514	1.440	**Toeboard Steel UPY 75**	736	750
110073	1.960	**Toeboard Steel UPY 100**	986	1000
110076	2.050	**Toeboard Steel UPY 104**	1016	1040
110160	3.000	**Toeboard Steel 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

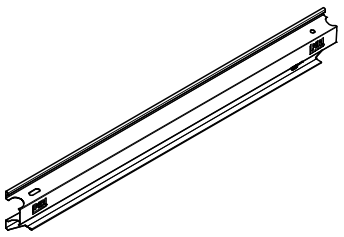
Note
Surface: galvanized and yellow coated.

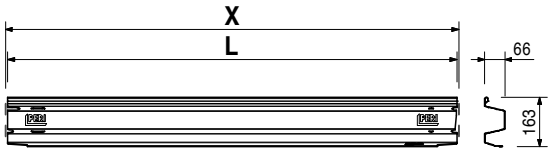




Item no.	Weight kg	Toeboards Steel UPY, galv.	L	X
117495	0.929	**Toeboard Steel UPY 50, galv.**	486	500
117938	1.380	**Toeboard Steel UPY 72, galv.**	706	720
117518	1.450	**Toeboard Steel UPY 75, galv.**	736	750
117981	1.960	**Toeboard Steel UPY 100, galv.**	986	1000
123597	2.050	**Toeboard Steel UPY 104, galv.**	1026	1040
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

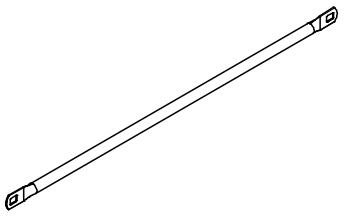
Note
Surface: galvanized.

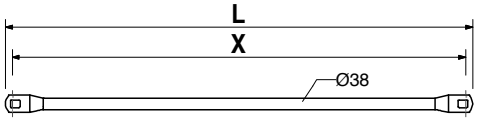




		Guardrails UPG	L	X	Sticker
100265	2.410	**Guardrail UPG 150**	1546	1500	
100266	3.220	**Guardrail UPG 200**	2046	2000	White
100267	4.020	**Guardrail UPG 250**	2546	2500	Red
100268	4.820	**Guardrail UPG 300**	3046	3000	Black

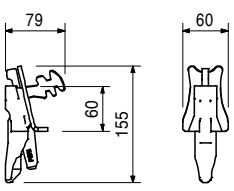
Note
Longitudinally-stamped and with coloured label for easier identification.



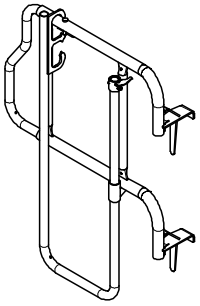


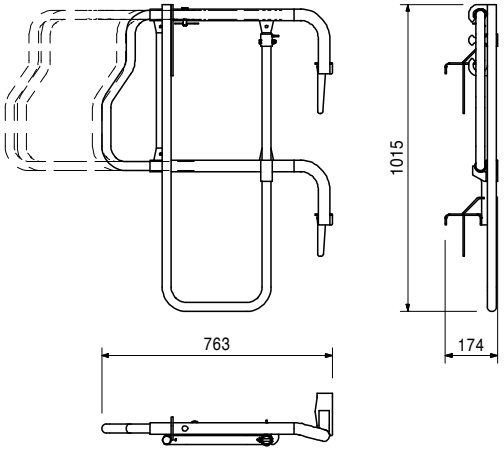
		Guardrail Coupler UPW	
104412	0.711	**Guardrail Coupler UPW** For mounting the Guardrail UPG to the rosettes.	**Note** Assembly with guardrail in advance.





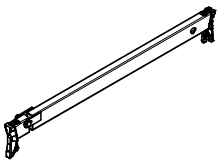
Item no.	Weight kg		
115655	11.100	**End Guardrail in Advance UPA Rosett**	**Note** With extendible guardrail, fits in R72, R75, R100 and R104.

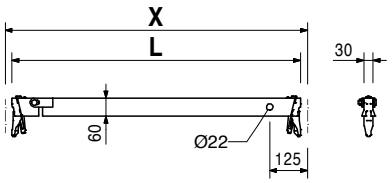




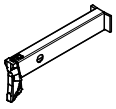
			L	X
		Swing Ledgers UPK		
110072	4.050	**Swing Ledger UPK 75**	704	750
116695	4.630	**Swing Ledger UPK 100**	954	1000
117192	4.310	**Swing Ledger UPK 125**	1204	1250

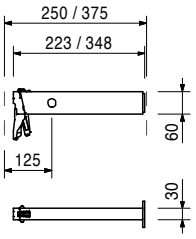
Upwards opening ledger.





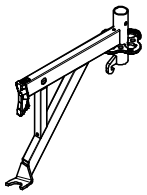
		Supports UC	**Note**
115959	1.160	**Support UC 25**	Small console with end stop for the secure positioning of the decks.
115962	1.480	**Support UC 37.5**	

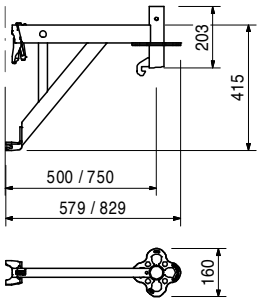




Item no.	Weight kg	
		Consoles UCM
110483	4.480	**Console UCM 50-2**
111128	5.720	**Console UCM 75-2**

With connection for Console Bracket Brace UCM.



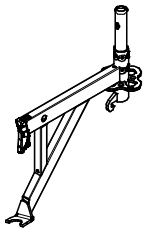


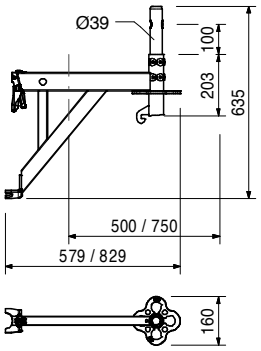
Accessories

111053	0.059	**Locking Pin Ø 48/57**
100301	1.020	**Spigot ULT 32**

		Consoles UCM with Spigot
112676	5.280	**Console UCM 50 with Spigot**
112678	6.520	**Console UCM 75 with Spigot**

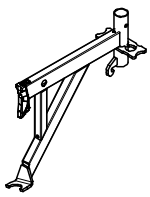
With connection for Console Bracket Brace UCM.

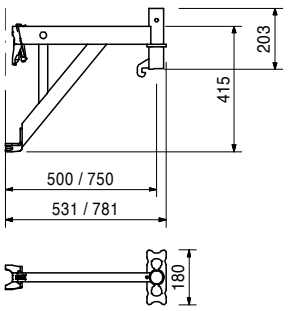




		Consoles UCM with half Rosett
112690	4.370	**Console UCM 50 with half Rosett**
112693	5.610	**Console UCM 75 with half Rosett**

With connection for Console Bracket Brace UCM.

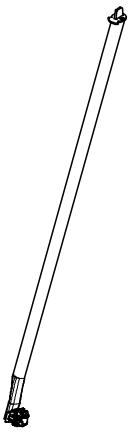


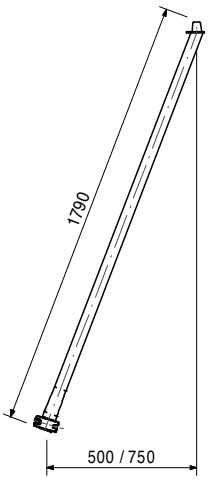


Accessories

111053	0.059	**Locking Pin Ø 48/57**
100301	1.020	**Spigot ULT 32**

Item no.	Weight kg	
112717	7.000	**Console Bracket Brace UCM** For increasing the load-carrying capacity of Consoles UCM 50 and UCM 75 with yellow coupling.

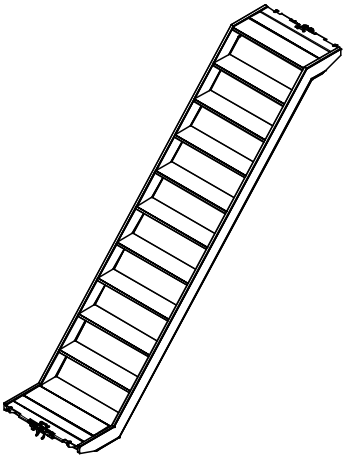


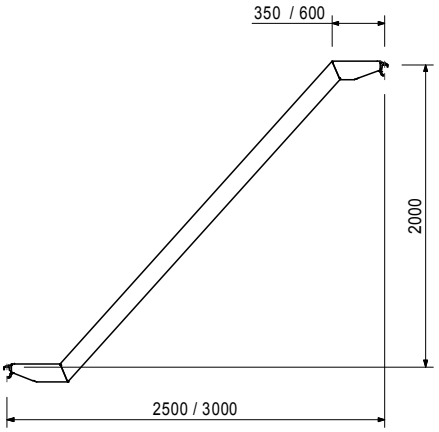


		Staircase UAS 75
111117	28.000	**Staircase UAS 75 x 250/200, Alu**
111124	32.900	**Staircase UAS 75 x 300/200, Alu**

Assembly on Ledgers UH.

Technical Data
Permissible load 2.0 kN/m².

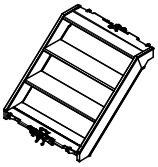


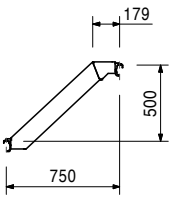


113228	10.100	**Staircase UAS 75 x 75/50, Alu**

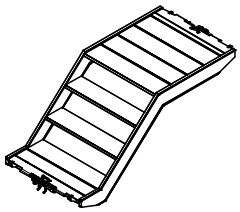
Assembly on Ledgers UH.

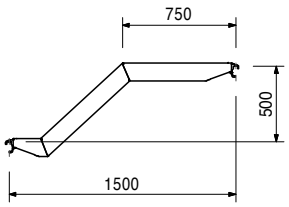
Technical Data
Permissible load 2.0 kN/m².



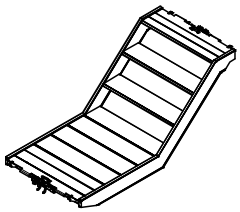


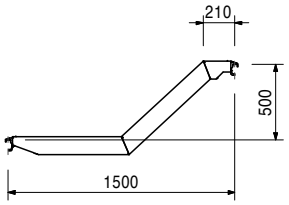
Item no.	Weight kg		
111087	17.500	**Staircase UAS 75 x 150/50 T, Alu** Assembly on Ledgers UH.	**Technical Data** Permissible load 2.0 kN/m².



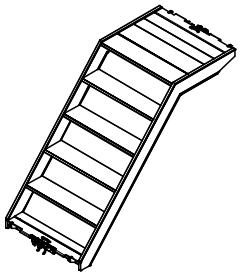


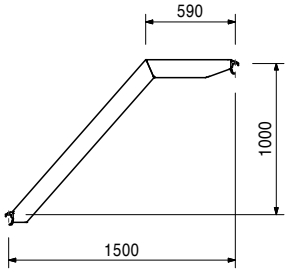
111095	17.500	**Staircase UAS 75 x 150/50 S, Alu** Assembly on Ledgers UH.	**Technical Data** Permissible load 2.0 kN/m².



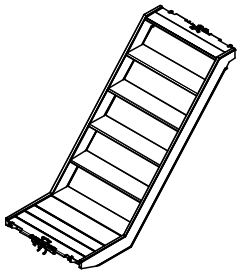


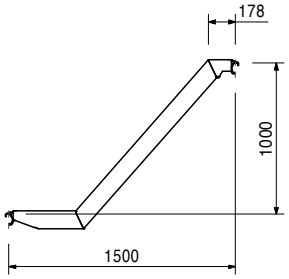
111103	17.900	**Staircase UAS 75 x 150/100, Alu** Assembly on Ledgers UH.	**Technical Data** Permissible load 2.0 kN/m².



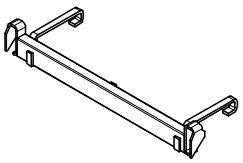


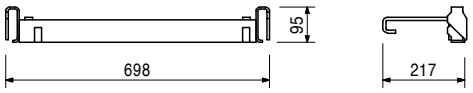
114536	17.900	**Staircase UAS 75 x 150/100 S, Alu** Assembly on Ledgers UH.	**Technical Data** Permissible load 2.0 kN/m².



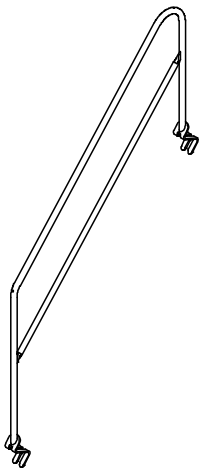


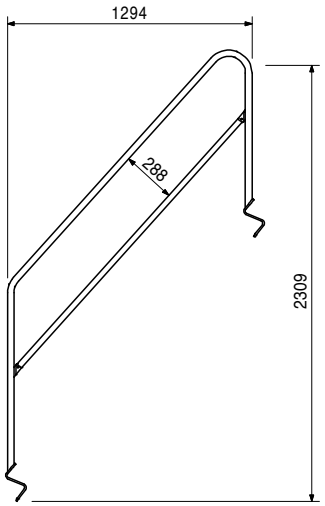
Item no.	Weight kg	
115189	3.080	**Waler on Staircase UAS 75** Mounted on the treads of the staircase. Allows installation of Industrial Decks Steel UDI or UDG.



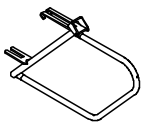


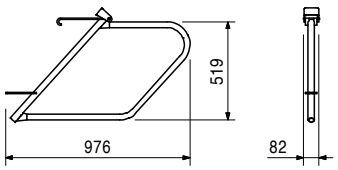
100742	10.000	**Stair Guardrail UAG** Suitable for Staircases UAS 64 x 250/200, UAS 64 x 300/200, UAS 75 x 250/200 and UAS 75 x 300/200 as internal and external guardrail.





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.

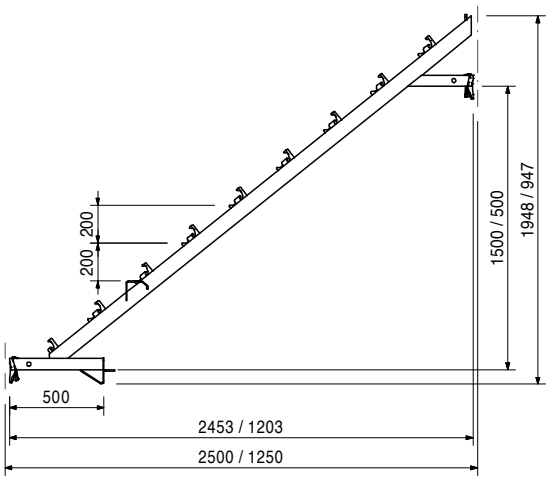




Item no.	Weight kg	
		Stair Stringers UA
114731	9.780	**Stair Stringer UA 125/100**
109219	15.800	**Stair Stringer UA 250/200**

Technical Data
Permissible load 3.0 KN/m².

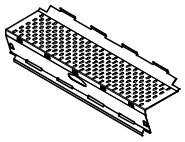


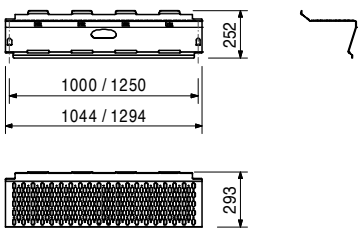


		Stair Steps UAR
109198	7.390	**Stair Step UAR 100**
114179	9.250	**Stair Step UAR 125**

Tread for Stair Stringer UA. Non-slip due to perforated surface.

Technical Data
Permissible load 3.0 kN/m².

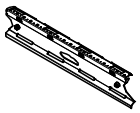


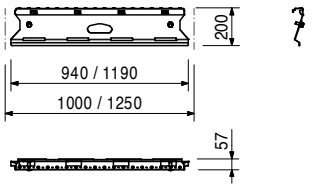


		End Steps UAE
109208	5.610	**End Step UAE 100**
114180	6.590	**End Step UAE 125**

Last step for the Stair Stringer UA. Secures all steps.

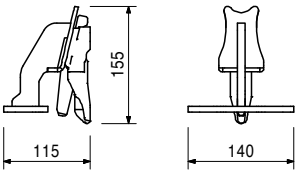
Technical Data
Permissible load 3.0 kN/m².





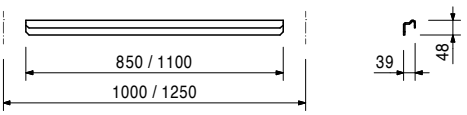
Item no.	Weight kg		
124266	1.230	**Distance Piece UA 76**	**Note** Allows connection of Node Braces UBK as guard-rail with 76 mm distance to all crossing parts.



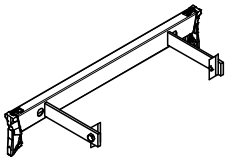


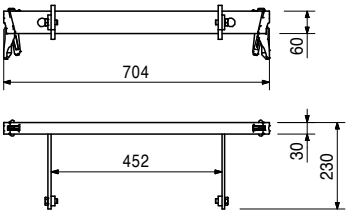
		Edge Profiles UH	
114349	0.770	**Edge Profile UH 100**	
114621	0.997	**Edge Profile UH 125**	
		Assembly on UH Ledger for anti-slip protection on the first step at start of stairs with Stair Stringer UA.	





124813	4.050	**Ladder Connection UAC-2**	**Complete with** 1 pc. 051410 Ladder 180/6, galv. **Note** For connection of Ladder 180/6 (Item no- 051410) with PERI UP Standards.



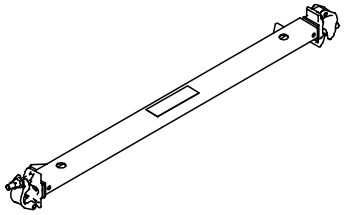


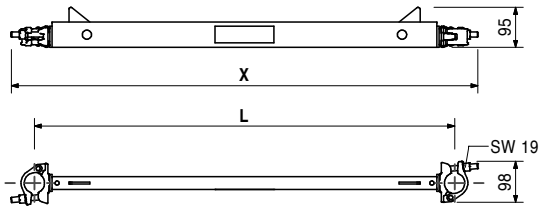
Accessories

051410	11.700	**Ladder 180/6, galv.**
051460	2.180	**Ladder Base, galv.**
103724	10.400	**End Ladder 180/2, galv.**
104132	15.600	**Ladder Safety Cage 75, galv.**
051450	25.200	**Ladder Safety Cage 150, galv.**

Item no.	Weight kg		L	X
		Coupler Ledgers UHC		
127533	3.100	**Coupler Ledger UHC 75**	750	860
127537	4.900	**Coupler Ledger UHC 100**	1000	1110

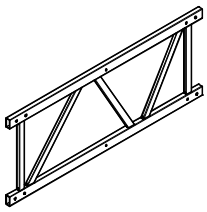
For decking levels at any height and bracing of lattice Girders.

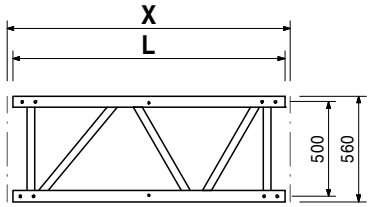




			L	X
		Additional Elements ULS Flex		
124781	15.400	**Additional Element ULS 150 Flex**	1441	1500
124790	12.700	**Additional Element ULS 125 Flex**	1191	1250
124795	10.500	**Additional Element ULS 100 Flex**	941	1000

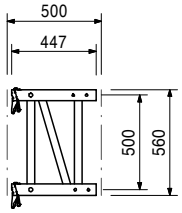
Note
Only usable with End Element ULS 50 Flex and Connector ULS Flex.





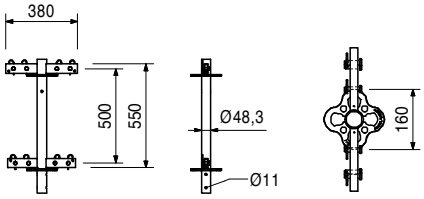
124805	6.460	**End Element ULS 50 Flex**	**Note** End element for the extension of Additional Element ULS Flex.





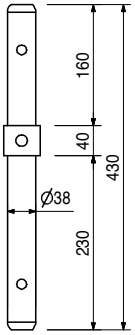
Item no.	Weight kg		
124806	5.990	**Connector ULS Flex**	**Complete with** 8 pc. 124771 Bolt Ø 12 x 44, galv. 8 pc. 018060 Cotter Pin 4/1, galv.





105372	1.340	**Spigot w. Spacer URE 4/42** For attaching to Collar URP and Connector ULS Flex; spacer allows assembly in grid system.	**Note** For attaching to Head Frame EVH with Easy; spacer allows assembly in grid system.

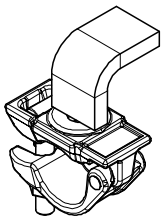


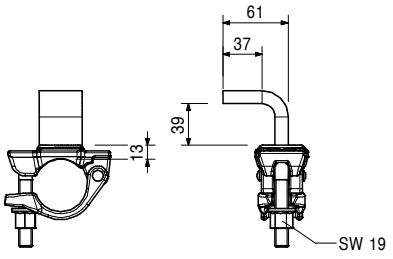


Accessories

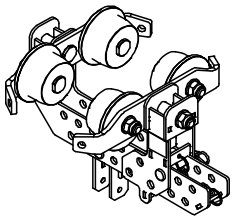
780356	0.011	**Nut ISO 7042 M10-8, galv.**
100719	0.060	**Bolt ISO 4014 M10 x 70-8.8 MU**

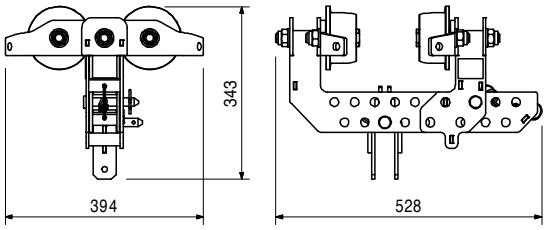
113726	0.908	**Flange Coupler UEC** For connecting Scaffold Tubes to Steel Girders with flange.



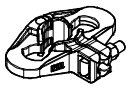


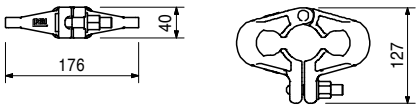
Item no.	Weight kg		
126497	17.400	**Trolley UFS 20** Allows connection of standards UVR to I-shaped steelgirders for moveable suspended scaffolds.	**Complete with** 2 pc. 018050 Pin Ø 16 x 65/86, galv. 2 pc. 018060 Cotter Pin 4/1, galv. **Note** Follow Instructions for Assembly and Use!





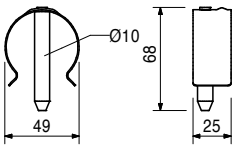
116306	1.700	**Rosett Coupler UEV 180°**	



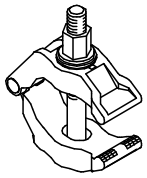


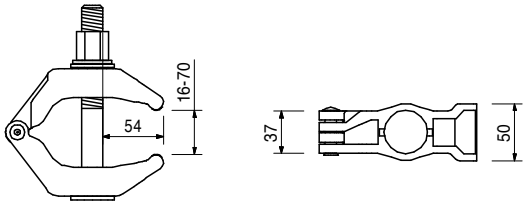
111053	0.059	**Locking Pin Ø 48/57** As tension-proof connection of standards with a diameter of 48 up to 57 mm.	



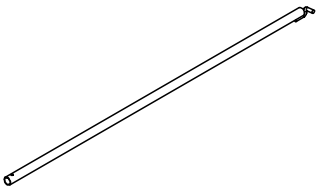


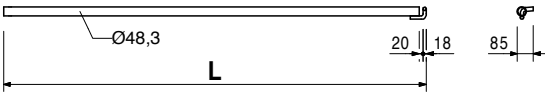
106183	2.200	**Main Beam Clamp HD 70 mm, galv.** For connecting crossed girders.	**Note** Take official approval into consideration!





Item no.	Weight kg		
		Wall Ties UWT	**L**
100088	1.920	**Wall Tie UWT 45**	488
100091	4.680	**Wall Tie UWT 110**	1138
100093	5.870	**Wall Tie UWT 140**	1438
102951	7.060	**Wall Tie UWT 170**	1738
102954	9.050	**Wall Tie UWT 220**	2238
102957	11.000	**Wall Tie UWT 270**	2738

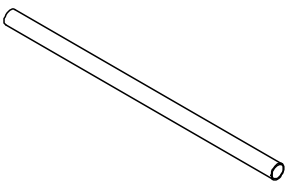


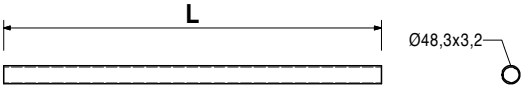


		Ring Bolts UFE	**Note**
100693	0.169	**Ring Bolt UFE 12/90**	With marking for screw-in depth.
100694	0.190	**Ring Bolt UFE 12/120**	
100695	0.250	**Ring Bolt UFE 12/190**	
		For assembling the Wall Tie UWT. Wall Insert UFI 14 required.	

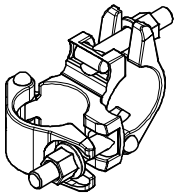
		Wall Inserts UFI
100696	0.007	**Wall Insert UFI 14/70**
100697	0.009	**Wall Insert UFI 14/100**
100698	0.010	**Wall Insert UFI 14/135**

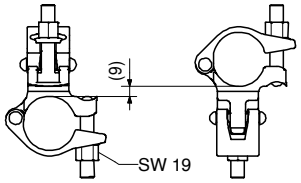
Item no.	Weight kg		
		Scaffold Tubes Steel Ø 48.3 x 3.2	**L**
026415	3.550	**Scaff. Tube Steel Ø 48.3 x 3.2, special length**	
026417	0.000	**Cutting Cost Scaffold Tube**	
026411	3.550	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 1.0 m**	1000
026412	7.100	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 2.0 m**	2000
026413	10.650	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 3.0 m**	3000
026414	14.200	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 4.0 m**	4000
026419	17.750	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 5.0 m**	5000
026418	21.600	**Scaff. Tube Steel Ø 48.3 x 3.2, l = 6.0 m**	6000



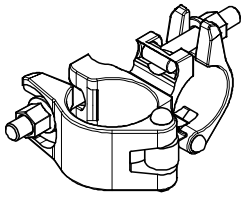


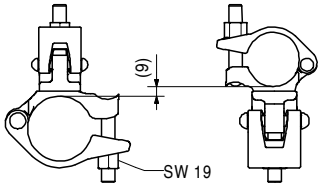
Item no.	Weight kg	
017020	1.120	**Standard Coupler NK 48/48, galv.** For Scaffold Tubes Ø 48 mm.



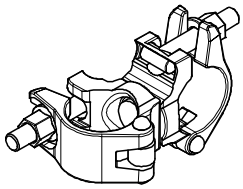


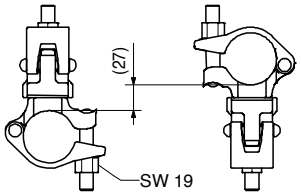
017030	1.400	**Double Coupler NK 60/48, galv.** For Scaffold Tubes Ø 48 mm and Ø 60 mm.



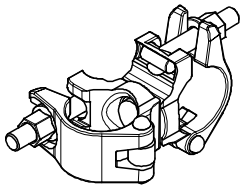


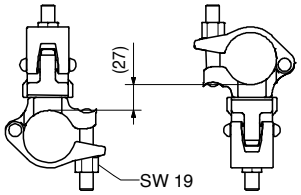
102400	1.100	**Swivel Coupling DK 38/48, galv.** For Scaffold Tubes Ø 48 mm and Ø 38 mm.



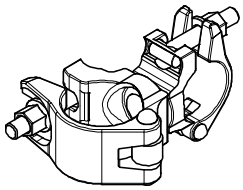


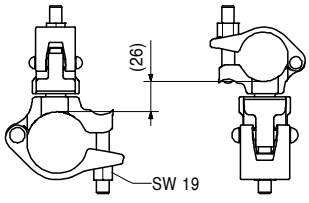
017010	1.400	**Swivel Coupling DK 48/48, galv.** For Scaffold Tubes Ø 48 mm.



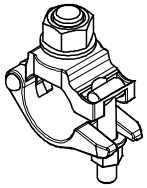


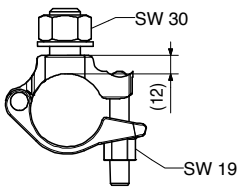
017000	1.540	**Swivel Coupling DK 60/48, galv.** For Scaffold Tubes Ø 48 mm and Ø 60 mm.



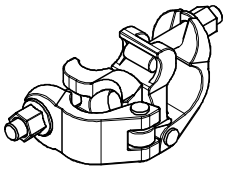


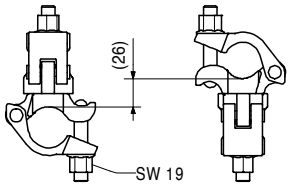
017040	0.850	**Screw-On Coupler AK 48, galv.** For Scaffold Tubes Ø 48 mm.



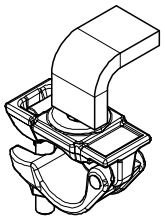


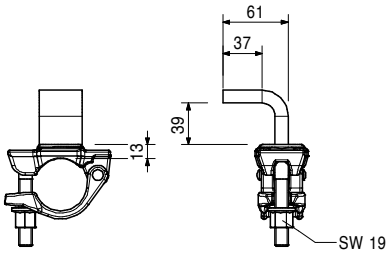
Item no.	Weight kg	
017070	1.100	**Swivel Coupling DK 33.7/38, galv.** For Scaffold Tubes Ø 33, 7/38 mm.



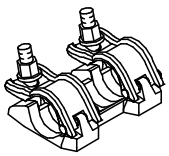


113726	0.908	**Flange Coupler UEC** For connecting Scaffold Tubes to Steel Girders with flange.





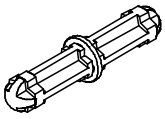
100908	1.400	**Tension Coupler Ø 48,3 mm, galv.** For tensile-proof connections of scaffold tubes Ø 48 mm.

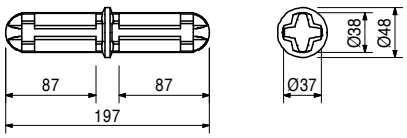


Accessories

100909	1.000	**Tube Connector Ø 48,3 mm, galv.**

100909	1.000	**Tube Connector Ø 48,3 mm, galv.** Shear connection of scaffold tubes Ø 48 mm.

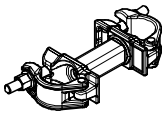


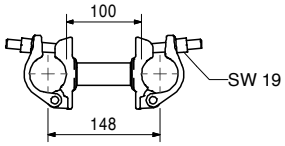


Accessories

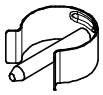
100908	1.400	**Tension Coupler Ø 48,3 mm, galv.**

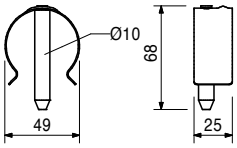
100750	1.300	**Spacer UEC 10, galv.** For connecting Standards Ø 48 mm to external and internal corners.



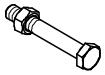


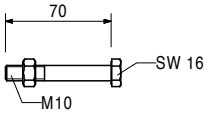
Item no.	Weight kg	
111053	0.059	**Locking Pin Ø 48/57** As tension-proof connection of standards with a diameter of 48 up to 57 mm.





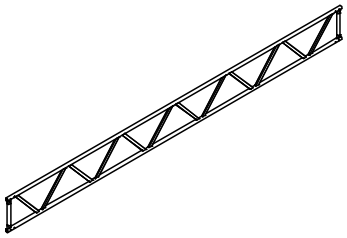
100719	0.060	**Bolt ISO 4014 M10 x 70-8.8 MU** As tension-proof connection of standards for suspended scaffolds or lattice girders.

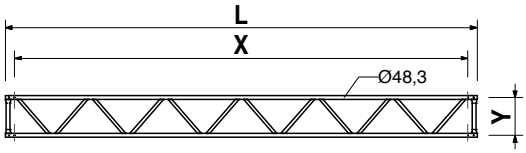




		Latt. Girders Steel ULS	L	X	Y
100330	41.700	**Latt. Girder Steel ULS 50/425**	4250	4000	500
100336	50.900	**Latt. Girder Steel ULS 50/525**	5250	5000	500
100339	60.200	**Latt. Girder Steel ULS 50/625**	6250	6000	500
100185	54.800	**Latt. Girder Steel ULS 70/525**	5250	5000	700
100183	64.500	**Latt. Girder Steel ULS 70/625**	6250	6000	700
100852	83.600	**Latt. Girder Steel ULS 70/825**	8250	8000	700

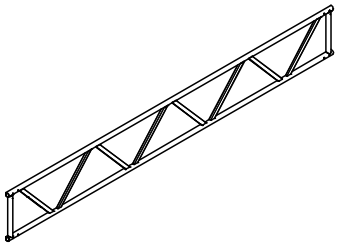
To bridge openings. For system-free application.

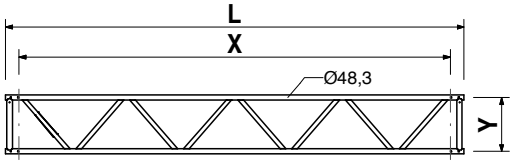




		Latt. Girders Alu ULA	L	X	Y
101656	18.400	**Latt. Girder Alu ULA 50/425 HD**	4250	4000	500
101657	22.500	**Latt. Girder Alu ULA 50/525 HD**	5250	5000	500
101658	26.500	**Latt. Girder Alu ULA 50/625 HD**	6250	6000	500
101659	37.400	**Latt. Girder Alu ULA 70/825 HD**	8250	8000	700

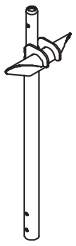
To bridge openings. For system-free application.

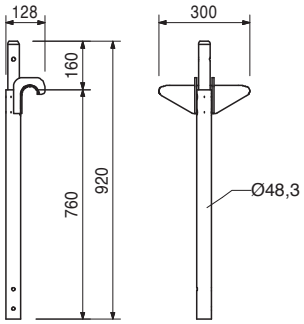




Item no.	Weight kg	
100529	5.260	**Starter Tube ULB 50/70** For Lattice Girder ULS and ULA.

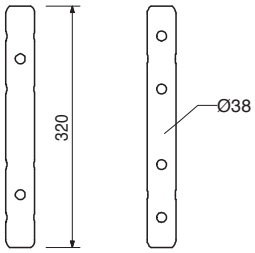
Note
Only use with system-free girder assembly.





100301	1.020	**Spigot ULT 32** Lose pin for connecting Scaffold Tubes Ø 48.3 x 3.2 mm, e.g. top standards, lattice girders.





Accessories

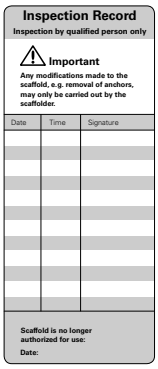
111053	0.059	**Locking Pin Ø 48/57**
100719	0.060	**Bolt ISO 4014 M10 x 70-8.8 MU**

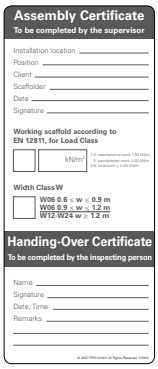
113832	0.035	**PERI UP Scaffold Tag** To cordon off scaffolding areas not yet authorized for use. With the exception of inserting the PERI UP Assembly Certificate.



Item no.	Weight kg		
		PERI UP Assembly Certificate	**Note**
113833	0.005	**PERI UP Assembly Certificate, D**	Front side:
113834	0.005	**PERI UP Assembly Certificate, EX**	Assembly report for release of scaffolding.
113829	0.005	**PERI UP Assembly Certificate, F**	Rear side:
113835	0.005	**PERI UP Assembly Certificate, CDN**	Test report.
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 UP Flex – 2nd generation

Comparison of components

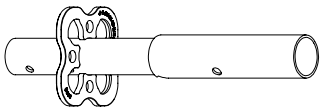
As part of ongoing product optimisation, the following components have been replaced by 2nd generation components.

The following comparison tables describe the features of the 1st and 2nd generation.

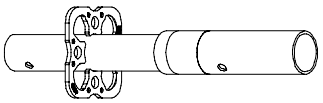
1st and 2nd generation components can be combined.

- The previous components are no longer available as new components.
- The optimised components are available under a new article number.
- There may be a difference between the load-bearing capacity of the individual components in the previous version and the new version.

Base Standard UVB 24 / 49

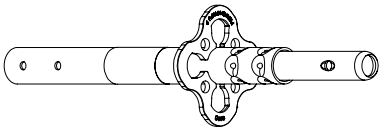


Base Standard UVB 25 / 50

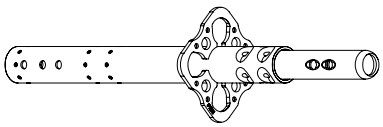


Tube	RO 48.3 mm x **3.6 mm**	RO 48.3 mm x **3.6 mm**
Rosette	160 mm x 130 mm x 8 mm	152 mm x 120 mm x 6 mm
System height	24 / 49 cm	25 / 50 cm
Combinability	Geometrically and statically combinable in the system.	

Standard UVR

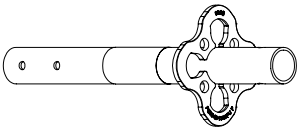
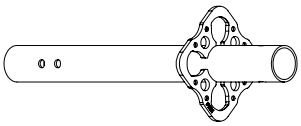


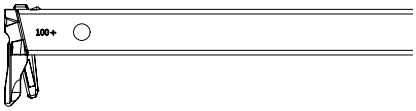
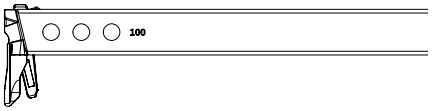
Standard UVR-2



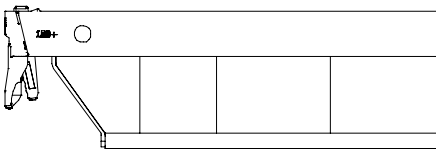
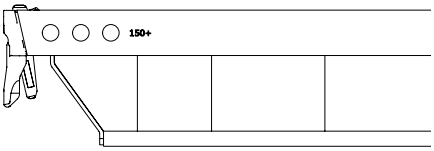
Tube	RO 48.3 mm x **3.2 mm**	RO 48.3 mm x **2.7 mm**, embossed points on the bottom standard.
Tube-pin connection	2 rows, with 5 pinch points each	2 rows, with 4 pinch points each
Rosette	160 mm x 130 mm x 8 mm	152 mm x 120 mm x 6 mm
Hole for suspended scaffold (see "PERI UP components")	1 hole perm. F up to 20 kN when fixed 1x	2 holes perm. F up to 15 kN when fixed 1x perm. F up to 31 kN when fixed 2x
Marking	none	striped band at the top and bottom
Combinability	Geometrically and statically* combinable in the system. * The standard configurations in the Instructions for Assembly and Use only apply in conjunction with Horizontal Ledgers UH Plus / UH-2 and UHV Plus / UHV-2. * The load tables shown in the Instructions for Assembly and Use for the Heavy-Duty Prop HD and Shoring Tower Plus systems do not apply to use of the Standard UVR-2. Check the statics beforehand!	

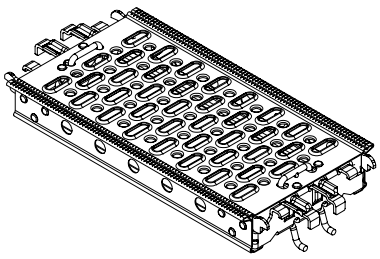
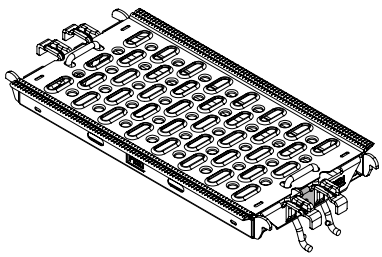
PERI UP Flex – 2nd generation

	Top Standard UVH	Top Standard UVH-2
		
Tube	RO 48.3 mm x **3.2 mm**	RO 48.3 mm x **3.2 mm**
Rosette	160 mm x 130 mm x 8 mm	152 mm x 120 mm x 6 mm
Hole for suspended scaffold (see "PERI UP components")	1 hole perm. F up to 20 kN when fixed 1x	2 holes perm. F up to 15 kN when fixed 1x perm. F up to 31 kN when fixed 2x
Combinability	Geometrically and statically combinable in the system.	

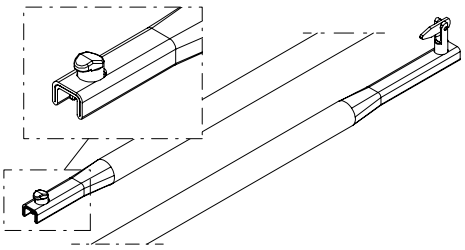
	Horizontal Ledger UH Plus	Horizontal Ledger UH-2
		
UBL assembly points	2 x 1, for assembly of a Ledger Brace UBL	2 x 3, for assembly of up to three Ledger Braces UBL When installing only one ledger brace preferably use the middle assembly point. Ledger Braces UBL can be mounted at very flat installation angles using the middle assembly point only. Check the geometry beforehand!
Combinability	Geometrically and statically combinable in the system.	

PERI UP Flex – 2nd generation

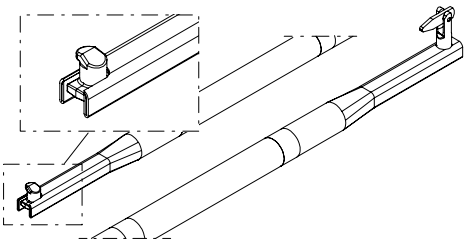
	Horizontal Ledger UHV Plus	Horizontal Ledger UHV-2
		
UBL assembly points	2 x 1, for assembly of a Ledger Brace UBL	2 x 3, for assembly of up to three Ledger Braces UBL When installing only one ledger brace preferably use the middle assembly point. Ledger Braces UBL can be mounted at very flat installation angles using the middle assembly point only. Check the geometry beforehand!
Combinability	Geometrically and statically combinable in the system.	

	Steel Deck UDG	Steel Deck UDG-2
		
Deck assembly	riveted and welded	welded
Profile height	65 mm, uniform	L 50 – 150: 45 mm L 200 – 250: 60 mm L 300 70 mm
Marking	without	coloured clip on the front side
Combinability	Geometrically and statically combinable in the system.	

Ledger Brace UBL

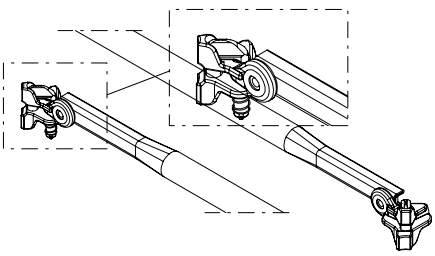


Ledger Brace UBL-2

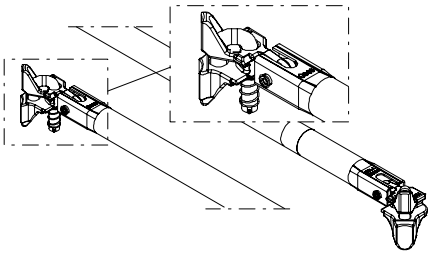


UBL Mounting Lug	points in the longitudinal direction	points in the transverse direction
Combinability	Geometrically and statically combinable in the system.	
Marking	none	Band at the top and bottom
Handling	Tilt in to install.	Swivel in to install (less lateral space required for installation).

Node Brace UBK

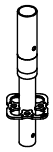


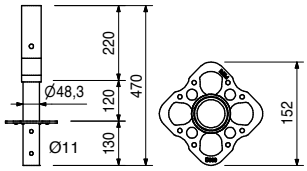
Node Brace UBK-2



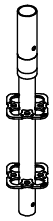
Head piece connected to the diagonal tube	riveted to crimped tube	bolted to cast shaped component
Combinability	Geometrically and statically combinable in the system.	
Marking	none	Band at the top and bottom
Features	Galvanised heads	Yellow-coated heads

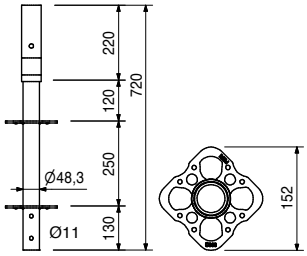
Article no.	Weight kg		
133499	2.270	**Base Standard UVB 25**	



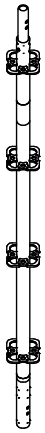


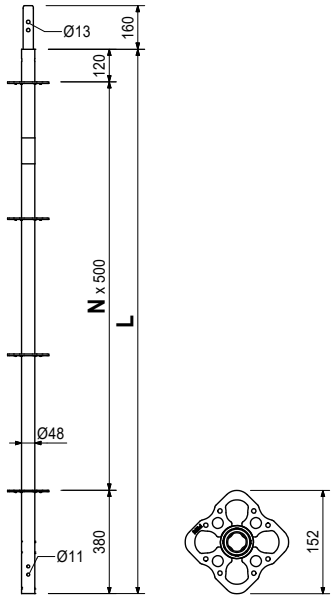
135187	3.590	**Base Standard UVB 50**	





		Standard UVR-2	**L**
132219	2.480	**Standard UVR-2 50**	500
132224	4.340	**Standard UVR-2 100**	1,000
132229	6.180	**Standard UVR-2 150**	1,500
132234	8.030	**Standard UVR-2 200**	2,000
132239	11.700	**Standard UVR-2 300**	3,000

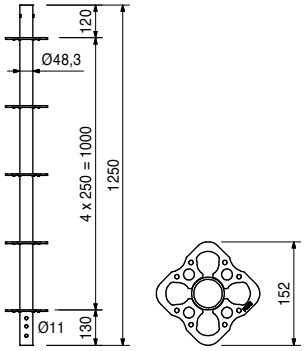




132196	6.060	**Top Standard UVH-2 125**	

Without pin for supporting head spindles. Reduces necessary spindle extensions with 25 cm rosette spacing.

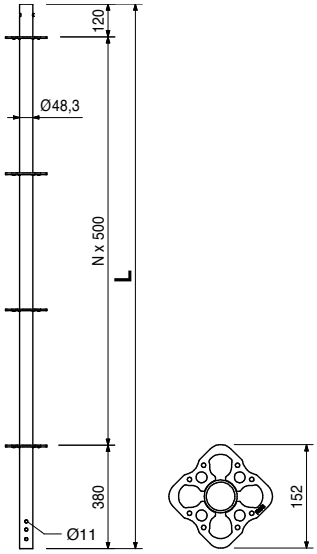




Article no.	Weight kg	Top Standards UVH-2	L
132123	2.090	**Top Standard UVH-2 50**	500
132194	4.210	**Top Standard UVH-2 100**	1,000
132198	6.310	**Top Standard UVH-2 150**	1,500
132200	8.420	**Top Standard UVH-2 200**	2,000
100002	10.500	**Top Standard UVH-2 250**	2,500

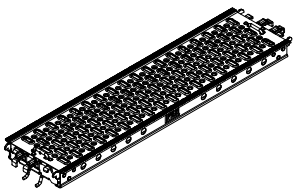
Without pin for supporting head spindles.

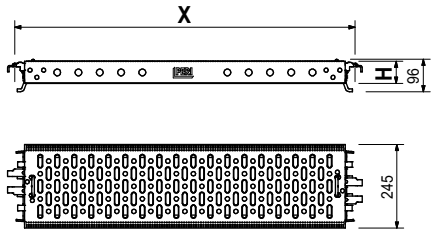




		Steel Decks UDG-2 25	X	perm. p [kN/m²]	H
132479	3.340	**Steel Deck UDG-2 25X 50**	500	6.0	45
132483	4.100	**Steel Deck UDG-2 25X 67**	670	6.0	45
132488	4.470	**Steel Deck UDG-2 25X 75**	750	6.0	45
132492	5.590	**Steel Deck UDG-2 25X100**	1,000	6.0	45
132502	6.730	**Steel Deck UDG-2 25X125**	1,250	6.0	45
132505	7.870	**Steel Deck UDG-2 25X150**	1,500	6.0	45
132508	10.500	**Steel Deck UDG-2 25X200**	2,000	6.0	60
132511	12.900	**Steel Deck UDG-2 25X250**	2,500	4.5	60
132515	15.800	**Steel Deck UDG-2 25X300**	3,000	3.0	70

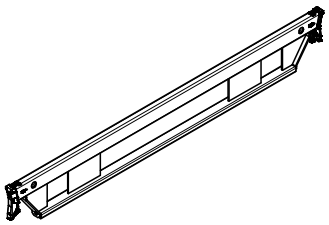
Note
Values correspond with EN 12811-1

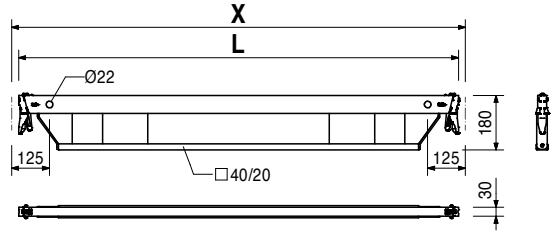




		Horizontal Ledger UHV-2	L	X
137020	9.410	**Horizontal Ledger UHV-2 150**	1,454	1,500
137025	12.700	**Horizontal Ledger UHV-2 200**	1,954	2,000
137030	15.200	**Horizontal Ledger UHV-2 250**	2,454	2,500
137035	18.500	**Horizontal Ledger UHV-2 300**	2,954	3,000

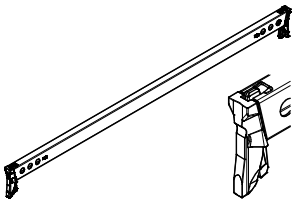
For high loads, e.g. in the case of material storage.

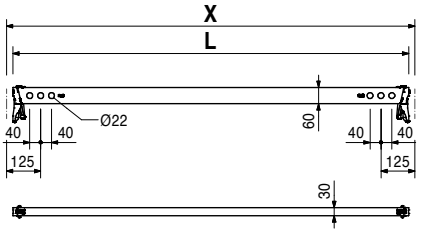




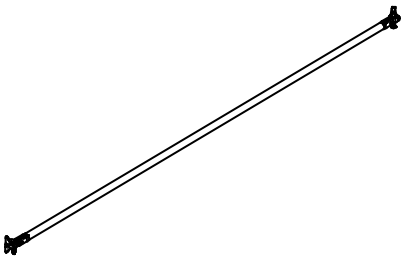
Article no.	Weight kg		L	X
		Horizontal Ledger UH-2		
131995	1.40	**Horizontal Ledger UH-2 25**	204	250
133900	1.50	**Horizontal Ledger UH-2 33**	284	330
131998	2.03	**Horizontal Ledger UH-2 50**	454	500
133903	2.48	**Horizontal Ledger UH-2 67**	624	670
132213	2.69	**Horizontal Ledger UH-2 75**	704	750
132004	3.79	**Horizontal Ledger UH-2 100**	954	1,000
132007	4.58	**Horizontal Ledger UH-2 125**	1,204	1,250
132010	4.68	**Horizontal Ledger UH-2 150**	1,454	1,500
132013	5.34	**Horizontal Ledger UH-2 175**	1,704	1,750
132016	6.00	**Horizontal Ledger UH-2 200**	1,954	2,000
132019	6.66	**Horizontal Ledger UH-2 225**	2,204	2,250
132025	7.32	**Horizontal Ledger UH-2 250**	2,454	2,500
132022	8.65	**Horizontal Ledger UH-2 300**	2,954	3,000

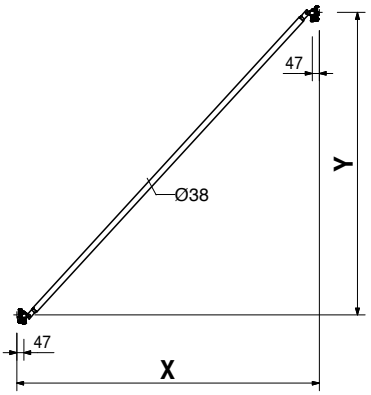
Note
With length marking for easier identification.





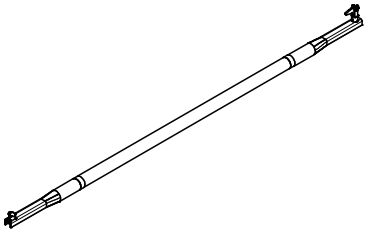
Article no.	Weight kg		L	X	Y
		Node Brace UBK-2			
133418	4.96	**Node Brace UBK-2 75/200**	2,190	750	2,000
133421	5.11	**Node Brace UBK-2 100/200**	2,285	1,000	2,000
133424	3.88	**Node Brace UBK-2 125/100**	1,625	1,250	1,000
133427	5.30	**Node Brace UBK-2 125/200**	2,401	1,250	2,000
133430	4.22	**Node Brace UBK-2 150/100**	1,821	1,500	1,000
133433	4.82	**Node Brace UBK-2 150/150**	2,152	1,500	1,500
133436	5.53	**Node Brace UBK-2 150/200**	2,539	1,500	2,000
133439	4.97	**Node Brace UBK-2 200/100**	2,246	2,000	1,000
133442	5.47	**Node Brace UBK-2 200/150**	2,521	2,000	1,500
133445	6.08	**Node Brace UBK-2 200/200**	2,860	2,000	2,000
133448	5.77	**Node Brace UBK-2 250/100**	2,696	2,500	1,000
133451	6.19	**Node Brace UBK-2 250/150**	2,930	2,500	1,500
133454	6.72	**Node Brace UBK-2 250/200**	3,226	2,500	2,000
133457	6.60	**Node Brace UBK-2 300/100**	3,131	3,000	1,000
133460	6.96	**Node Brace UBK-2 300/150**	3,356	3,000	1,500
133463	7.42	**Node Brace UBK-2 300/200**	3,625	3,000	2,000

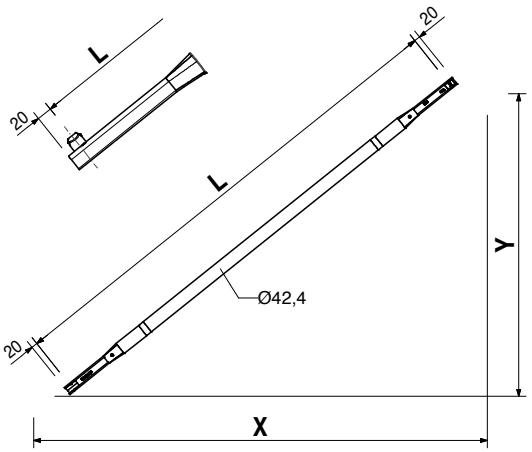




PERI UP Flex Core Components

Article no.	Weight kg	Ledger Braces UBL-2	L	X	Y
132771	2.12	**Ledger Brace UBL-2 100/ 50**	901	1,000	500
132773	2.81	**Ledger Brace UBL-2 100/100**	1,250	1,000	1,000
132775	3.66	**Ledger Brace UBL-2 100/150**	1,677	1,000	1,500
132777	4.58	**Ledger Brace UBL-2 100/200**	2,136	1,000	2,000
132779	3.01	**Ledger Brace UBL-2 150/ 50**	1,347	1,500	500
132781	3.51	**Ledger Brace UBL-2 150/100**	1,601	1,500	1,000
132783	4.21	**Ledger Brace UBL-2 150/150**	1,953	1,500	1,500
132785	5.02	**Ledger Brace UBL-2 150/200**	2,358	1,500	2,000
132787	5.31	**Ledger Brace UBL-2 175/200**	2,500	1,750	2,000
132789	3.95	**Ledger Brace UBL-2 200/ 50**	1,820	2,000	500
132791	4.34	**Ledger Brace UBL-2 200/100**	2,016	2,000	1,000
132793	4.92	**Ledger Brace UBL-2 200/150**	2,305	2,000	1,500
132795	5.62	**Ledger Brace UBL-2 200/200**	2,658	2,000	2,000
132797	4.43	**Ledger Brace UBL-2 225/ 50**	2,062	2,250	500
132808	4.78	**Ledger Brace UBL-2 225/100**	2,236	2,250	1,000
132810	5.96	**Ledger Brace UBL-2 225/200**	2,829	2,250	2,000
132812	5.23	**Ledger Brace UBL-2 250/100**	2,462	2,500	1,000
132814	5.71	**Ledger Brace UBL-2 250/150**	2,705	2,500	1,500
132816	6.32	**Ledger Brace UBL-2 250/200**	3,010	2,500	2,000
132827	5.90	**Ledger Brace UBL-2 300/ 50**	2,795	3,000	500
132829	6.16	**Ledger Brace UBL-2 300/100**	2,926	3,000	1,000
132831	6.57	**Ledger Brace UBL-2 300/150**	3,133	3,000	1,500
132833	7.10	**Ledger Brace UBL-2 300/200**	3,400	3,000	2,000





The optimal System for every Project and every Requirement



Wall Formwork



Column Formwork



Slab Formwork



Climbing Systems



Bridge Formwork



Tunnel Formwork



Shoring Systems



Construction Scaffold



Facade Scaffold



Industrial Scaffold



Access



Protection Scaffold



Safety Systems



System-Independent Accessories



Services

DE en 794104 © PERI GmbH

PERI GmbH
Formwork Scaffolding Engineering
Rudolf-Diesel-Strasse 19
89264 Weissenhorn
Germany
Tel. +49 (0)7309.950-0
Fax +49 (0)7309.951-0
info@peri.com
www.peri.com