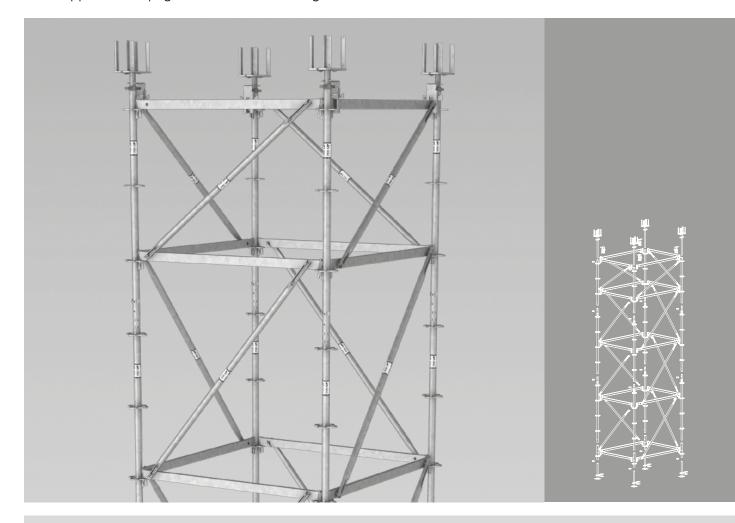


PERI UP Flex

Shoring Tower

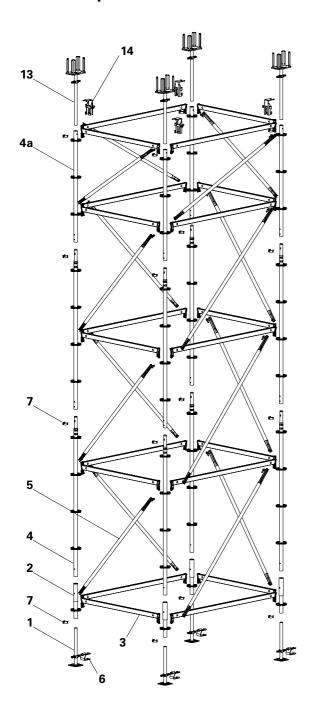
Instructions for Assembly and Use – Standard Configuration – Issue 02/2020 incl. supplemental pages PERI UP Flex 2nd generation

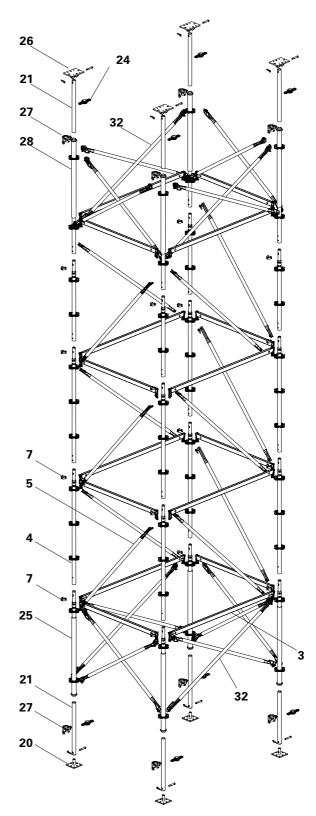


PERI

Overview

Main components





- 1 Adjustable Base Plate UJB
- 2 Base Standard UVB 24
- 3 Ledger UH
- 4 Standard UVR
- 4a Top Standard UVH
- 5 Ledger Brace UBL
- 6 Spindle Locking UJS
- 7 Locking Pin Ø 48/57
- 11 Cross Forkhead TR 38-70/50 alternatively: Head Spindle
- 12 Head Spindle Locking UJH
- 20 Base Plate for Spindle Tube TR 48
- 21 Spindle Tube TR 48

- 24 Quick Jack Nut TR 48-2
- 25 Base Standard UVB 135 Plus
- 26 Head Plate for Spindle Tube TR 48 alternatively: Cross Head Spindle TR 48
- 27 Spindle Locking UJS Plus
- 28 Top Standard UVH 165 Plus
- 32 Shoring Brace UBS



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Overview



Key

Pictogram | Definition



Safety instructions



Note



Load-bearing point



Visual check



Tip



Misapplication

Dimension specifications

Dimensions are usually given in cm. Other units of measure, e.g. m, are shown in the illustrations.

Conventions

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

Arrows

- → Arrow representing an action
- Reaction 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 correspondingly valid 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.

Introduction



Target groups

Contractors

These Instructions for Assembly and Use are designed for contractors who use the scaffolding either for

- assembling, modifying and dismantling, or use
- it e.g. for concreting or
- who have it used, e.g. for forming operations.

Competent person

(Construction Site Coordinator)
The Safety and Health Coordinator*

- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health plan,
- coordinates the protective measures for the contractor and site personnel so that they do not endanger each other,
- monitors compliance with the protective measures.

Competent person qualified to carry out inspections

Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the competent person 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 persons

The scaffolding may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. For the work to be carried out, the qualified persons must have received instructions** 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 the measures in order to safely assemble, modify or dismantle the scaffolding.

- Designation of the preventive measures to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the scaffolding as well as the personnel concerned.
- Details regarding the permissible loads.
- Description of any other risks that are associated with the assembly, modification or dismantling procedures.



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

Additional technical documentation

- Type Test No. S/N 030340
- Instructions for Use
 - Trolley with Winch
 - Pallets and Stacking Devices
- Data Sheet for Anchor Bolt PERI 14/20 x 130
- PERI Design Tables Formwork and Shoring
- Design Tables PERI UP Flex

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.

Introduction



Intended use

Product description

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

The PERI UP Flex Shoring Tower allows a large range of project-specific application possibilities. As a result of the building-specific risk assessment, there are also other possibilities of ensuring assembly reliability and working safety with the help of components from the PERI UP Scaffolding Kit, e.g. decks, hatches, stairs.

Features

The PERI UP Flex Shoring Tower is used in shoring constructions in a systematic vertical position for transferring vertical and, in part, horizontal loads. All components are galvanized. The main feature of the PERI UP Flex Shoring Tower is the particularly rigid node connection between the rosettes of the standards and the ledgers.

For erecting the shoring towers, individual standards are connected with ledgers which are particularly easy to assemble due to the wedge connections. Bracing is installed in the form of system diagonals.

Through the combination of standards with lengths of L=2.0~m and top standards of varying lengths, all heights can be continuously achieved.

Shoring tower dimensions

Assembly of the shoring tower is shown using the dimensions 2.00 x 1.50 m as an example. The following dimensions are possible:

Longitudinal direction: 1.00 / 1.50 / 2.00 / 2.50 / 3.00 m. Lateral direction:

1.00 / 1.50 / 2.00 / 2.50 / 3.00 m Any combination is allowed.

System dimensions

PERI UP Flex Shoring Tower

Type-tested assembly heights as free-standing individual towers up to $8.39~\mathrm{m}$: restrained at the top up to $21.89~\mathrm{m}$ ($22.34~\mathrm{m}$ with spindle section) for ground plans with $1.50~\mathrm{x}$ $1.50~\mathrm{m}$ and more.

PERI UP Flex Shoring Tower with Additional Frame (VSS)

Assembly heights 1.33 m to 21.89 m.

PERI UP Flex Shoring Tower Plus

Adj. Base Plate TR 48, Head Spindle TR 48 up to 15.58 m. Adj. Base Plate and Head Spindle TR 48 up to 16.26 m.

Technical data

Permissible load-bearing capacities: see type tests and PERI design tables. PERI UP Flex Shoring Towers correspond to Rating Class B1 in accordance with DIN EN 12812.

Instructions for 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.

Deviations from the standard configuration for each individual application must be verified by means of separate strength and stability calculations (Industrial Safety Regulation Appendix 1, No. 3.2.1) and explicitly reflected in the assembly instructions. Only original PERI scaffolding components may be used.

The use of other products and spare parts is not allowed.

Changes to PERI components are not permitted.

Introduction



Cleaning 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 cleaning and maintenance costs as low as possible.

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

Mechanical components, e.g. spindles, must be cleaned of dirt or concrete residue before and after use.

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

Do not clean components suspended on a crane.

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

Safety instructions



Cross-system

General

The contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and 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 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
- function.

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

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

Components provided by the contractor must conform with the characteristics required in these Instructions for Assembly and Use as well as all valid construction guidelines and standards. Unless otherwise indicated, this applies in particular to:

- Timber components: Strength Class C24 for Solid Wood according to EN 338.
- Scaffold tubes: galvanised steel tubes with minimum dimensions of Ø 48.3 x 3.2 mm according to EN 12811-1:2003 4.2.1.2.
- Scaffold tube couplings according to EN 74.

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

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

Before and after exceptional occurrences that may have an adverse effect regarding the safety of the scaffolding system, the contractor must immediately

- create an additional risk assessment, with appropriate measures for ensuring the stability of the formwork system being carried out based on the results,
- 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 scaffolding systems may only be carried out by qualified persons and under the supervision of a competent person. The qualified persons must have received appropriate training for the work to be carried out with regard to specific risks and dangers.

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

Before initial use, the safe functioning of the scaffold must be checked by a person qualified to carry out the inspection. The result of the inspection must be documented in an inspection record. The contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the system, e.g.

- safety helmet,
- safety shoes,
- safety gloves,
- safety glasses,

is available and used as intended.

If personal protective equipment against falling (PPE) is required or specified in local regulations, the 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 operations.
- ensure and prove that all loads can be 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.

Safety instructions



System-specific

Retract components only when the concrete has sufficiently hardened and the person in charge has given the goahead for striking to take place.

Anchoring is to take place only if the anchorage has sufficient concrete strength.

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

Tighten couplings with screw closures using 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.

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 used must have sufficient load-bearing capacity.

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

Safety during assembly



Attachment points for PPE



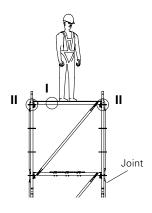
Each specified attachment point is intended for securing one person only!

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 shoring tower is to be secured against tipping by the user.
- The application is valid for the assembly, modification and dismantling of shoring towers.

Requirements

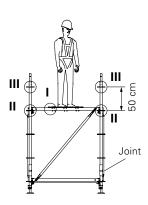
- The shoring underneath the final assembly level is complete.
- This means, all ledgers and diagonal bracing have been installed and the decking is in place as the topmost assembly level.
- The joints of the topmost standards must lie underneath the last assembly level.



Attachment points

The standard ends in the last assembly level:

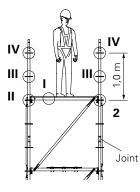
- each ledger is in the assembly level (I)
- each rosette in the assembly level (II)



Attachment points

The standard ends 50 cm above the last assembly level:

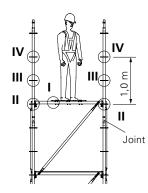
- each ledger is in the assembly level (I)
- each rosette up to max. 50 cm above the last assembly level (II, III)



Attachment points

The standard ends 1.0 m above the last assembly level:

- each ledger is in the assembly level (I)
- each rosette up to max. 1.0 m above the last assembly level (II, III, IV)



Attachment points

The standard ends 1.5 m above the last assembly level:

- each ledger is in the assembly level (I)
- each rosette up to max. 1.0 m above the last assembly level (II, III, IV)





General

The PERI UP Flex Shoring Tower is shown without additional ledgers. Assemble the shoring tower so that the wider side is lying flat on the ground. The tower is subsequently erected via this side.

Base unit

The base unit is vertically assembled up to a height of 2.0 m.

For further assembly, the base unit is positioned on its side and forms the basis for the horizontal assembly.

Components		Qty
1	Adjustable Base Plate UJB	4x
2	Base Standard UVB 24	4x
3	Ledger UH 200 Plus*	2x
3a	Ledger UH 150 Plus*	2x
6	Spindle Locking UJS	4x
10	H-Brace UBH Flex	
	(as assembly aid)	1x

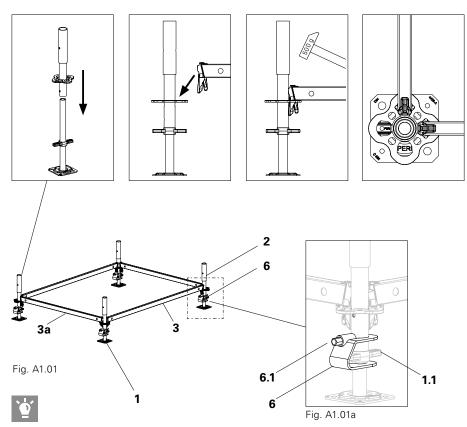
* Length is dependent on the layout of the shoring tower.

Assembly

- 1. Assemble base frame using the components. (Fig. A1.01)
- 2. Right-angle adjustment of the frame with H-Brace (10). (Fig. A1.02)
- 3. Horizontally align frame by adjusting the Adjustable Base Plates (1).
- 4. Securely fix all wedges to the ledgers using a 500 g hammer (hammer in tightly).
- Secure Adjustable Base Plates by means of Spindle Locking devices. (Fig. A1.01a)

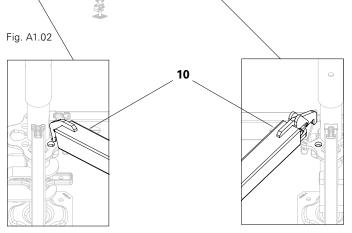


The H-Braces also ensure the squareness during crane transport.



 Align all the pegging holes in the Base Standard in one direction.

Fix the Spindle Locking UJS
(6) to the bottom hole of the
Base Standard by screwing
in the bolt (6.1). The Quick
Jack Nut (1.1) must be positioned within the Spindle
Locking UJS.





Standards and ledgers

Components		Qty
4	Standard UVR 200	4x
3	Ledger UH 200 Plus*	2x
3a	Ledger UH 150 Plus*	2x
5	Ledger Brace UBL 200/150*	2x
5a	Ledger Brace UBL 150/150*	2x
7	Locking Pin Ø 48/57	4x

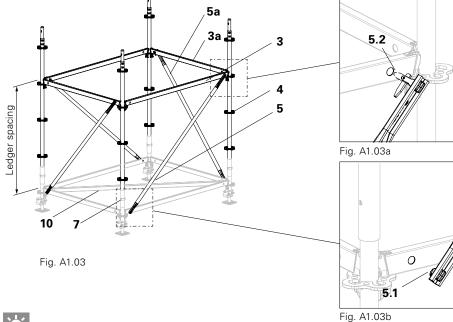
^{*} Length is dependent on the layout of the shoring tower.

Ledger spacing

- Example: ledger spacing according to the type test 1.50 m.
- Other ledger spacings are possible but these required separate static proof. They do not form part of the type test.

Assembly

- 1. Insert Standards (4) and tightly connect using Locking Pins (7). (Fig. A1.03c)
- 2. Install Ledgers (3).
- 3. Insert Ledger Braces (5) with the finger (5.1) in the bottom Ledgers (3). (Fig. A1.03b)
- 4. Insert the gravity pin (5.2) into the holes of the top ledger, turn pin to secure. (Fig. A1.03a)
- 5. Secure Ledgers with a hammer.
- 6. Position Base Unit on support timbers (min. 6 cm high) for further assembly.
- 7. If necessary, the H-Brace (10) can be removed.





- Ledgers are secured with hammer blows only after ledger braces have been installed.
- As an alternative to Locking Pin Ø 48/57, Bolt M10x70, 8.8 with Nut M10 (4x) can always be used.

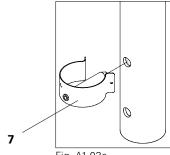


Fig. A1.03c



Height units

Standards

Components		Qty
4	Standard UVR 200 Locking Pin Ø 48/57	4x 4x

Assembly

Insert Standards (4) and tightly connect using Locking Pins (7). (Fig. A1.04)

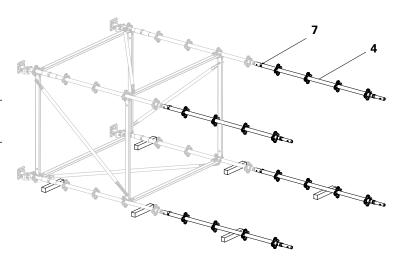


Fig. A1.04

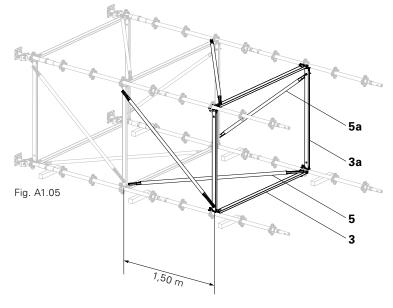
Ledgers and diagonals

Components		Qty
3	Ledger UH 200 Plus*	2x
3a	Ledger UH 150 Plus*	2x
5	Ledger Brace UBL 200/150*	2x
5a	Ledger Brace UBL 150/150*	2x

^{*} Dependent on the layout of the shoring tower.

Assembly

- 1. Install Ledgers (3, 3a) using 1.50 m spacings. (Every third rosette)
- 2. Mount Ledger Braces (5, 5a):
 - Mount the bottom-positioned
 Ledger Brace (5) from the inside.
 - Mount the remnaining Ledger Braces from the outside. (Fig. A1.05)
- 3. Repeat steps 1 and 2 until the required end height has been reached. Last Standard = Top Standard UVH, see Top Tower Unit.





Top tower unit

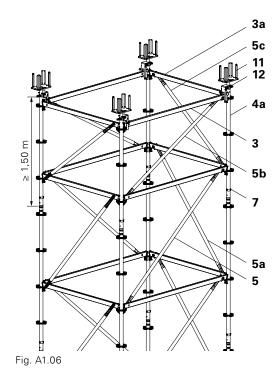


Shown here in a vertical position due to didactical reasons!

The assembly example shows a height adjustment of 1.50 m. (Fig. A1.07c)

Components		Qty
4a	Top Standard UVH 150*	4x
3	Ledger UH 200 Plus*	4x
3a	Ledger UH 150 Plus*	4x
5	Ledger Brace UBL 200/150*	2x
5a	Ledger Brace UBL 150/150*	2x
5b	Ledger Brace UBL 200/100*	2x
5c	Ledger Brace UBL 150/100*	2x
7	Locking Pin Ø 48/57	4x
11	Cross Forkhead TR 38-70/50	4x
12	Head Spindle Locking UJH	4x

^{*} Dependent on the shoring tower layout and height.



Assembly

- 1. Insert Top Standards (4a) to adjust the height (UVH 100, 150, 200, 250).
- 2. Tightly connect Top Standards using Locking Pins (7).
- 3. Install Ledgers (3, 3a).
- 4. Mount Ledger Braces (5 5c) and secure Ledgers.
- 5. Insert Cross Forkhead (11).
- 6. Place the Head Spindle Locking (12) at an angle on the Ledger and first insert the hooks (12.1) into the rosette holes (4.1) from below.
- Swivel the Head Spindle Locking upwards over the Quick Jack Nut (11.1), hammer in wedge (12.2) and secure with cotter pin (12.3).

(Fig. A1.06 - A1.06b)

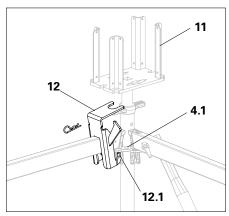


Fig. A1.06a

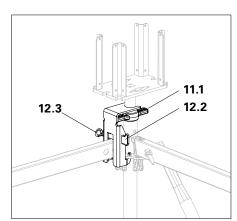
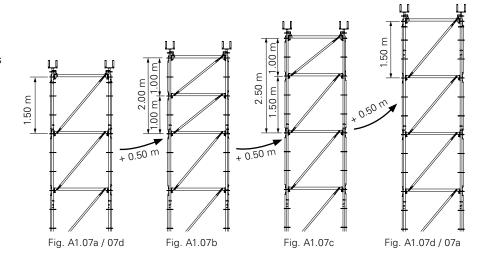


Fig. A1.06b



Height adjustment

Height adjustment takes place through the use of corresponding Top Standards (heights of 100/150/200/25 cm) and adjusting the spacing of the Ledgers. (Fig. A1.07a – A1.07d)



Erection with the crane

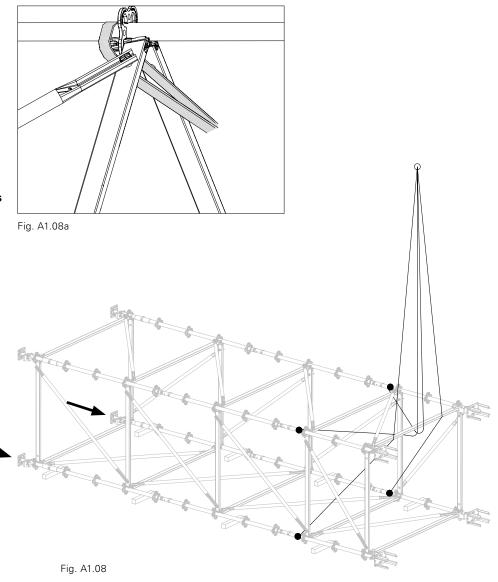


- Risk of injury from falling components!
 Ensure that all Standards are tightly connected!
- Risk of falling!
 Ensure that removal of the lifting gear is carried out from a safe working position!
- Only attach to those rosette nodes which are directly connected to the Ledgers.

Erection

- Completely spindle in the bottom Adjustable Base Plates in order to prevent overloading the components during erection.
- 2. Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers.
- 3. Erect shoring tower.
- 4. Whilst suspended on the crane lifting gear, adjust the Adj. base plates to the required height.

(Fig. A1.08 + A1.08a)

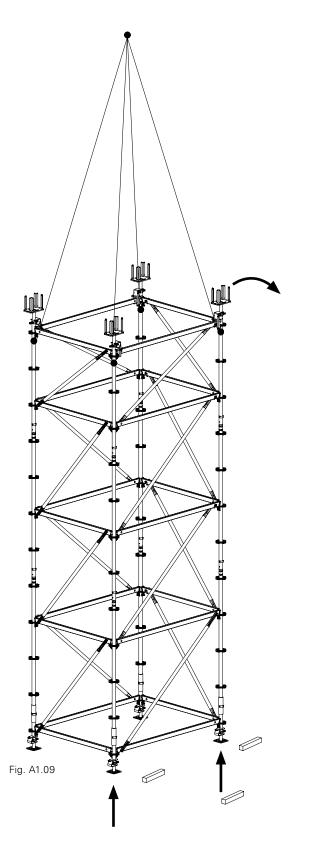




Dismantling



- Risk of injury from falling components!
 Ensure that all Standards are tightly connected!
- Risk of falling!
 Attach the lifting gear from a safe working position!
- Only attach to rosette nodes which are directly connected to the Ledgers.
- Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers, and attach to the crane lifting gear. (Fig. A1.09)
- 2. Completely spindle in the subsequent bottom Adjustable Base Plates in order to prevent overloading the components during setting down.
- 3. Using the wider side, position tower on support timbers with the crane.
- 4. Dismantle the tower beginning with the head side:
 - Remove Head Spindles.
 - Remove each height unit one after the other. First dismantle the Ledger Braces and Ledgers, and then the Standards.
 - Dismantle the base unit.
- 5. Store individual components accordingly, e.g. in pallets.



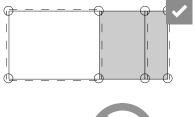


Ground plans

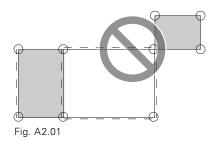
For transferring concentrated loads while simultaneously saving on materials, up to 2 Additional Frames (VSS) can be connected on an individual tower. The spacing of the frames to one another is freely selectable according to the requirements. (Fig. A2.01)

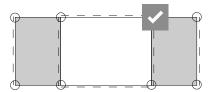
A maximum of 2x VSS can be connected one behind the other. Extensions over the corners are not

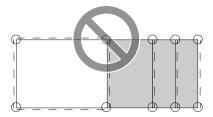
The assembly example shown is carried out on a 2.00 x 1.50 m shoring tower with 2x VSS, each 1.00 m.

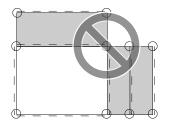












Dimensions

permitted.

Minimum size of an individual tower: $1.50 \times 1.50 \text{ m}$.

Grid dimensions for VSS: 0.25 / 0.50 / 0.75 / 1.00 / 1.50 / 2.00 / 2.50 / 3.00 m. Second dimension as for the respective base tower side. (Fig. A2.01a)

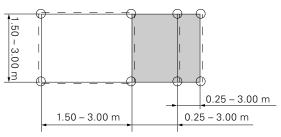


Fig. A2.01a

Arrangement of the diagonals

In the direction of the Additional Frames, only additional diagonals are required in the main tower.

Transverse to the direction of the Additional Frames, brace all frame columns of the main tower and the Additional Frames with diagonals.

(Fig. A2.01b)

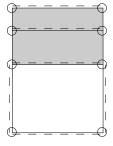
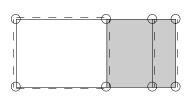


Fig. A2.01b



Key:

_ _ _ _ Diagonal bracing



General

Assembly correspondingly takes place as described in section A1, PERI UP Flex Shoring Tower.

Assemble the shoring tower so that the wider side (with Additional Frames) is lying flat on the ground. The tower is subsequently erected via this side.

Base Frame VSS

Components		Qty
1	Adjustable Base Plate UJB	4x
2	Base Standard UVB 24	4x
3	Ledger UH 150 Plus	2x
3a	Ledger UH 100 Plus	4x
6	Spindle Locking UJS	4x

(Fig. A2.02)

Standards and Ledgers VSS

Components		Qty
4	Standard UVR 200	4x
3	Ledger UH 150 Plus	2x
3a	Ledger UH 100 Plus	4x
5a	Ledger Brace UBL 150/150	2x
7	Locking Pin Ø 48/57	4x

(Fig. A2.03)



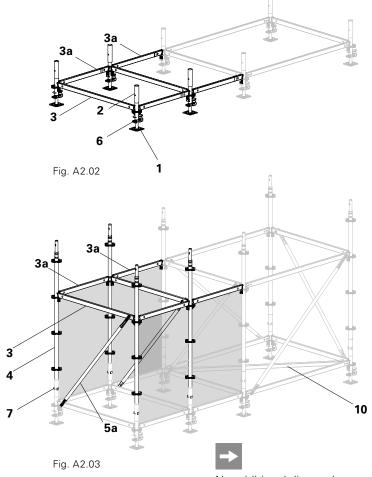
- Ledgers are secured with hammer blows only after Ledger Braces have been installed.
- As an alternative to the Locking Pin Ø 48/57, Bolt M10x70, 8.8 with Nut M10 (4x) can always be used.

Height Units VSS

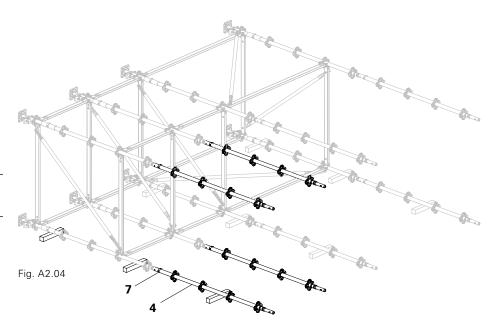
Standards

Components		Qty
4	Standard UVR 200	4x
7	Locking Pin Ø 48/57	4x

(Fig. A2.04)



No additional diagonals are required in the marked fields!

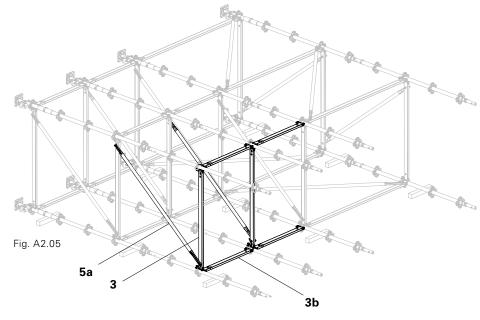




Ledgers and Diagonals VSS

Components		Qty
3b	Ledger UH 150 Ledger UH 100 Ledger Brace UBL 150/150	2x 4x 2x

(Fig. A2.05)



Head Element with Height Adjustment VSS



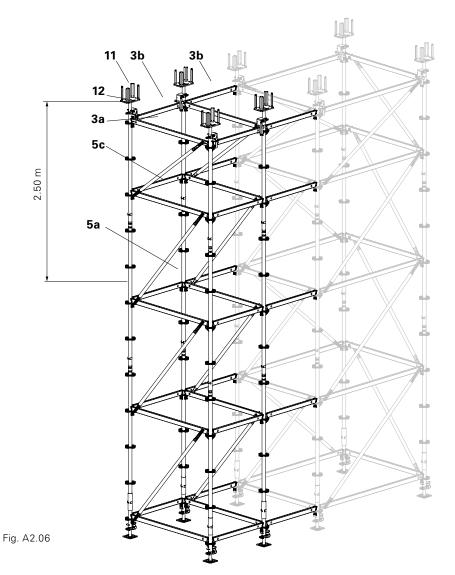
Shown here in a vertical position due to didactical reasons!

The assembly example shows a height adjustment of 2.50 m. (Fig. A2.06)

Co	mponents	Qty
	Top Standard UVH 250*	4x
	Ledger UH 150 Plus* Ledger UH 100 Plus*	4x 8x
	Ledger Brace UBL 150/150* Ledger Brace UBL 150/100*	2x 2x
7	Locking Pin Ø 48/57	4x
	Cross Forkhead TR 38-70/50 Head Spindle Locking UJH	4x 4x

^{*} Dependent on the layout of the shoring tower and height.

Height adjustment takes place through the use of corresponding Top Standards (100/150/200/25 cm heights) and adjusting the spacing of the Ledgers. see Section A1 PERI UP Flex Shoring Tower, Height Adjustment.





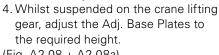
Erection with the crane



- Risk of injury from falling components! **Ensure that all Standards are** tightly connected!
- Risk of falling! Ensure that removal of the lifting gear is carried out from a safe working position!
- Only attach to those rosette nodes which are directly connected to the Ledgers.



- 1. Completely spindle in the bottom Adjustable Base Plates in order to prevent overloading the components during erection.
- 2. Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers.



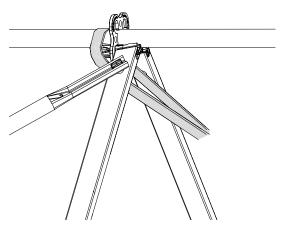
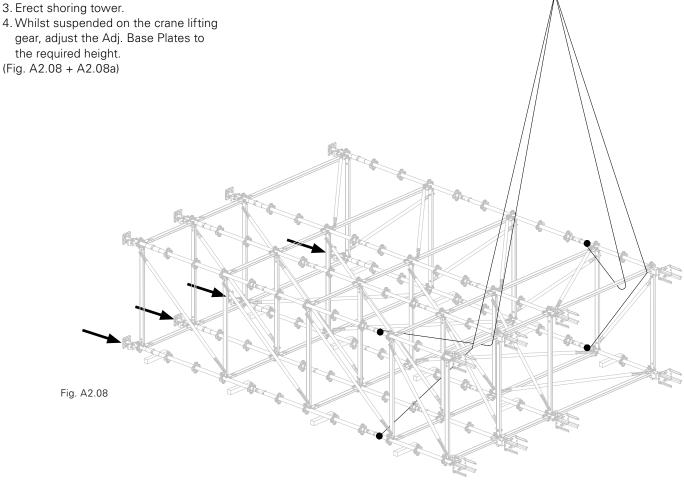


Fig. A2.08a



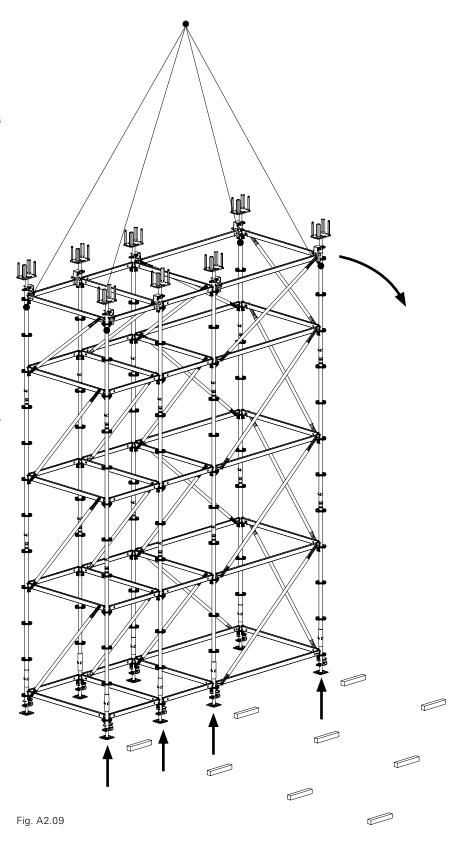


Dismantling



- Risk of injury from falling components!
 - Ensure that all Standards are tightly connected!
- Risk of falling!
 Attach the lifting gear from a safe working position!
- Only attach to those rosette nodes which are directly connected to the Ledgers.
- Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers, and attach to the crane lifting gear.
- Completely spindle in the subsequent bottom Adjustable Base Plates in order to prevent overloading the components during setting down.
- 3. Using the wider side, position tower on support timbers with the crane.
- 4. Dismantle the tower beginning with the head side:
 - Remove Head Spindles.
 - Remove each Height Unit one after the other. First dismantle the Ledger Braces and Ledgers, and then the Standards.
 - Dismantle the base unit.
- 5. Store individual components accordingly, e.g. in pallets.

(Fig. A2.09)







General

PERI UP Flex Shoring Tower Plus facilitates an increase in the load-bearing capacity of the standards or significantly larger spindle extensions which are required when moving slab tables under beams.

Preparation

Preparation of the Head Spindles

4 Head Spindles are required. Number of pieces per spindle.

Components	
Head Plate for Spindle Tube	
TR 48	1x
Spindle Tube TR 48	1x
Bolt Ø 16 x 65/86	1x
Cotter Pin 4/1	1x
Quick Jack Nut TR 48-2	1x
	Head Plate for Spindle Tube TR 48 Spindle Tube TR 48 Bolt Ø 16 x 65/86 Cotter Pin 4/1

Preparation of the Adjustable Base

4 Adjustable Base Plates are required. Number of pieces per spindle.

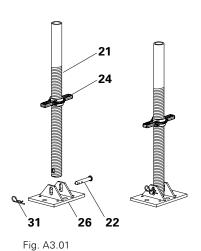
Components	
Base Plate for Spindle Tube	
TR 48	1x
Spindle Tube TR 48	1x
Bolt Ø 16 x 65/86	1x
Cotter Pin 4/1	1x
Quick Jack Nut TR 48-2	1x
	Base Plate for Spindle Tube TR 48 Spindle Tube TR 48 Bolt Ø 16 x 65/86 Cotter Pin 4/1

Assembly

- Screw Quick Jack Nut (24) on the Spindle Tube (21) – using only a few turns
- 2. Postion the Head Plate (26) with the top side facing downwards.
- 3. Place the Spindle Tube on the Head Plate and connect using Bolts (22).
- 4. Secure Bolts with Cotter Pins (23).
- → Head Spindles have now been prepared. (Fig. A3.01)

Assembly

- Screw Quick Jack Nut (24) on the Spindle Tube (21) – using only a few turns
- 2. Position Base Plate.
- 3. Insert Spindle Tube on Base Plate (20).
- 4. Connect Base Plate and Spindle Tube using Bolts (22).
- 5. Secure Bolts by means of Cotter Pins (23).
- → Adjustable Base Plates have now been prepared. (Fig. A3.02)



21 24 24 31 20 22

Fig. A3.02



Preparation of the Head Elements

2 Head Elements are required. Number of pieces per Head Element. The Head Element forms the wider side of the shoring tower.

Components		Qty
	Prepared Head Spindles	2x
3	Ledger UH Plus*	1x
27	Spindle Locking UJS Plus	2x
28	Top Standard UVH 165 Plus	2x
32	Shoring Brace UBS*	2x

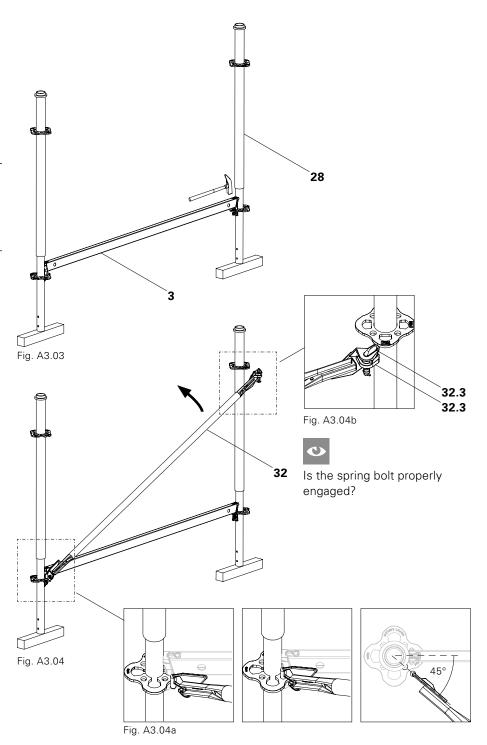
^{*} Length is dependent on the layout of the shoring tower.

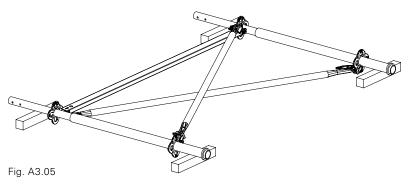
Assembly

- 1. Place the Top Standards (28) with smaller diameters on timbers and attach Ledgers (3). Securely fix the wedges. (Fig. A3.03)
- 2. Install Shoring Braces (32) crosswise.
 - Insert the Base Connection (32.1) into the round rosette hole at a 45° angle and swivel the Shoring Brace inwards in the ledger level.
 (Fig. A3.04 + A3.04a)
 - Pull out the spring bolt (32.3) on the head piece, and push the head piece (32.2) laterally onto the rosette until the bolt is positioned in the round rosette hole.
 (Fig. A3.04 + A3.04b)
 - Release the spring bolt and allow it to engage in the rosette hole. (Fig. A3.04)
 - Turn the Head Element and mount the Shoring Brace on the other side in the same way.
 (Fig. A3.05)



Direction of the Shoring Braces "from bottom left to top right" each time.



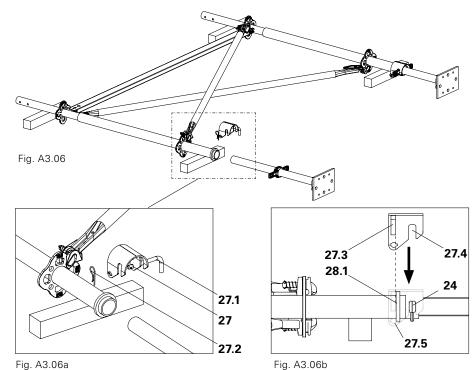




- 3. Insert the prepared Head Spindles into the Top Standards and adjust to the required height.
- 4. Secure Head Spindles with the Spindle Locking.
 - For this purpose, pull out Cotter Pins (27.2).
 - Laterally turn the positioning pins (27.1) and pull out as far as the round hole.
 - Position the collar (27.3) of the Spindle Locking behind the ring (28.1) of the Top Standard.
 - Quick Jack Nut (24) must engage in the recess (27.4) of the Spindle Locking.
 - Insert positioning pin (27.1) through the hole (27.5) and secure by means of a Cotter Pin (27.2).
- → Head Element has now been prepared. (Fig. A3.06 A3.06b)



Alternatively: use the Cross Forkhead TR 48.



Preparation of the Base Element

2 Base Elements are required. Number of pieces per Base Element. The Base Element forms the wider side of the shoring tower.

Co	mponents (Ωty
	Prepared Adjustable Base Plate	2x
25	Base Standard UVB 135 Plus	2x
3	Ledger UH 200 Plus*	1x
27	Spindle Locking UJS Plus	2x
32	Shoring Brace UBS	2x

Fig. A3.07

Assembly

- 1. Connect Base Standards (25) to the Ledger (3).
- 2. Install Shoring Braces (32) crosswise. (Fig. A3.07)
- 3. Insert the prepared Adjustable Base Plates in the Base Standards (25) and secure with Spindle Locking (27). (Fig. A3.07a)
- → Base Element has now been prepared.

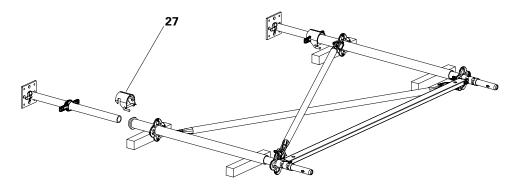


Fig. A3.07a



Assembly

Assembly of the PERI UP Flex Shoring Tower Plus takes place horizontally, beginning with the Head Element. Assemble the shoring tower so that the wider side (with Additional Frames) is lying flat on the ground. The tower is subsequently erected via this side.

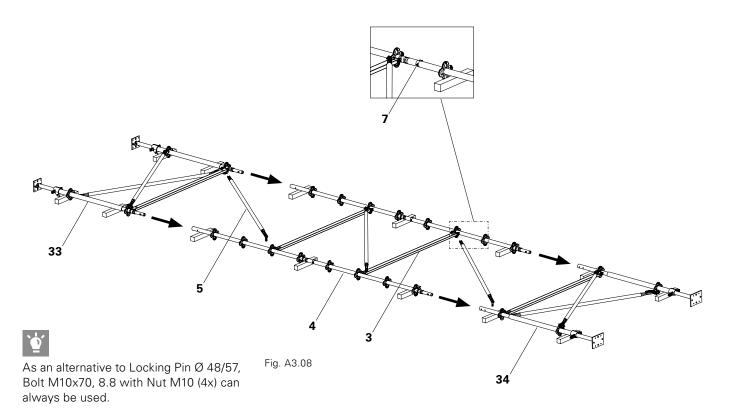
Components		Qty
	Prepared Head Element	2x
33	Prepared Base Element	2x
3	Ledger UH 200 Plus*	Χ
3a	Ledger UH 150 Plus*	X
4	Standard UVR 200	*
5	Ledger Brace UBL 200/150*	Х
5a	Ledger Brace UBL 150/150*	Х
7	Locking Pin Ø 48/57	*x

^{*} Dependent on the layout of the shoring tower and height.

Assembly

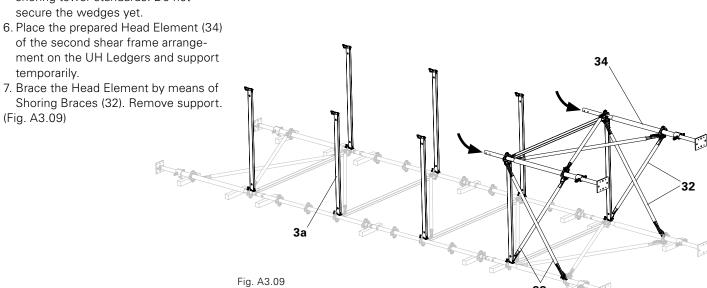
Position timbers minimum 6 cm thick as support on a flat working surface.

- 1. Insert Standards (4) into the prepared head section (34) and secure with Locking Pins (7).
- Connect Standards with Ledgers (3) and Ledger Braces (5) to form a wider shear frame arrangement.
- Assemble additional Standards, Ledgers and Ledger Braces until the required length has been realized.
 Secure all Standards with Locking Pins and securely fix all wedges.
- 4. Position the prepared base section (33) and secure with Locking Pins (7). (Fig. A3.08)

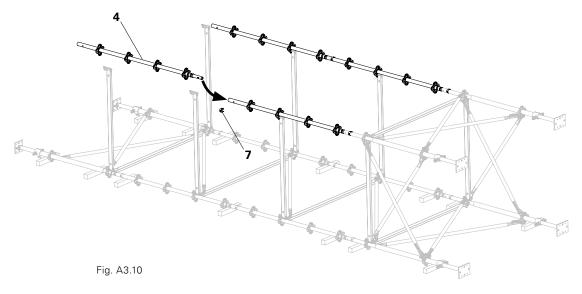




5. Mount Ledgers (3a) for the narrow side of the shoring tower on both shoring tower standards. Do not secure the wedges yet.

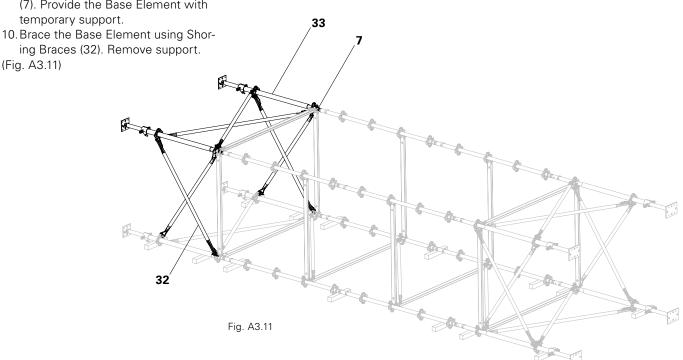


8. Beginning on the head side, attach the Standards (4) for the second shear frame arrangement to the Ledgers and secure with Cotter Pins (7). (Fig. A3.10)





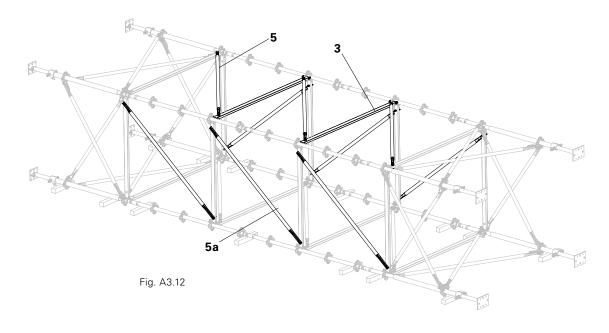
9. Attach prepared Base Element (33) for the second shear frame arrangement and secure with Locking Pins (7). Provide the Base Element with temporary support.



- 11. Brace Standards by means of Ledgers (3) and Ledger Braces (5, 5a).
- 12. Securely fix the wedges of all Ledgers.

(Fig. A3.12)

(Fig. A3.11)





Erection with the crane



- Risk of injury from falling compo-
 - **Ensure that all Standards are** tightly connected!
- Risk of falling! Remove the lifting gear from a safe working position!
- Only attach to those rosette nodes which are directly connected to the Ledgers.

Erection

- 1. Completely spindle in the bottom Adjustable Base Plates in order to prevent overloading the components during erection.
- 2. Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers.
- 3. Erect shoring tower.
- 4. Whilst suspended on the crane lifting gear, adjust the Adj. Base Plates to the required height.

(Fig. A3.13 + A3.14)

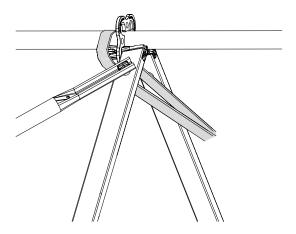
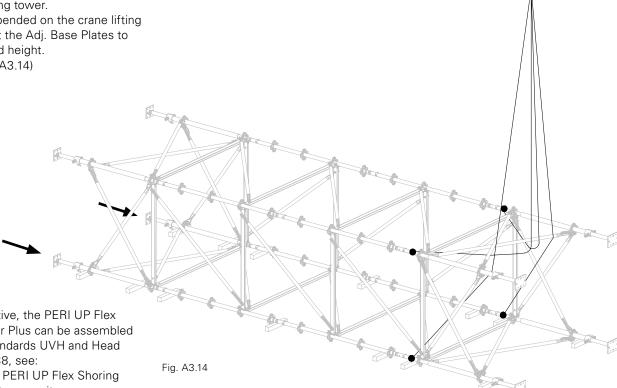


Fig. A3.13



Alternative

As an alternative, the PERI UP Flex Shoring Tower Plus can be assembled using Top Standards UVH and Head Spindles TR 38, see:

- Section A1, PERI UP Flex Shoring Tower, top tower unit.
- Load-bearing capacity table of permissible loads with TR 48 / 38.



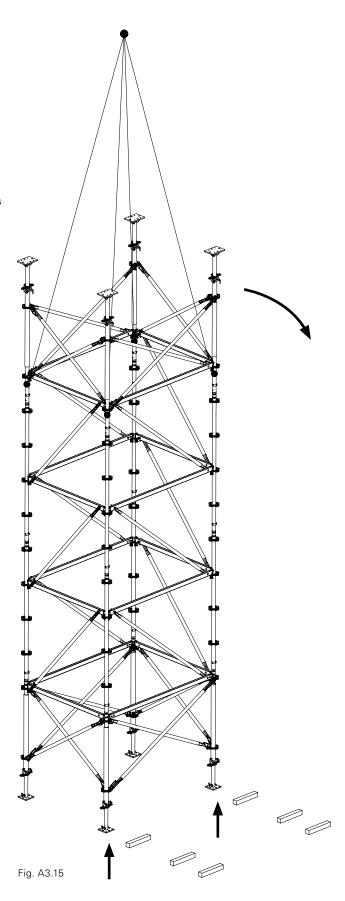
Dismantling



- Risk of injury from falling components!
 Ensure that all Standards are tightly connected!
- Risk of falling!
 Attach the lifting gear from a safe working position!
- Only attach to those rosette nodes which are directly connected to the Ledgers.

Dismantling

- Place four chains or textile lifting slings, e.g. round slings, underneath those rosette nodes complete with Ledgers, and attach to the crane lifting gear.
- Completely spindle in the subsequent bottom Adjustable Base Plates in order to prevent overloading the components during setting down.
- 3. Using the wider side, position tower on support timbers with the crane.
- 4. Dismantle the tower beginning with the topmost frame:
 - Remove the top Base Element and dismantle it.
 - Remove each height unit one after the other. First dismantle the Ledger Braces and topmost Ledgers, and then the Standards.
 - Remove vertically positioned Ledgers.
 - Dismantle the bottom scaffold frame from the base side.
- Store individual components accordingly, e.g. in pallets.
 (Fig. A3.15)



A4 Support



Supporting individual towers



- To safeguard against falling over or horizontal movement, temporary support may be necessary during the installation process.
- Mount 3 Push-Pull Props as assembly aids.
- For high shoring towers, additional higher-positioned holders could be required.
- Alternatively, a corresponding holder on sufficiently load-bearing components already installed is possible.

Components		Qty
40	Push-Pull Prop RS	3x
41	Brace Connector HDR	Зх
42	Base Plate RS	3x
43	Anchor Bolt PERI 14/20 x 130	3x



Take into consideration the Data Sheet for Anchor Bolt PERI $14/20 \times 130$.

Preparation

Remove Cotter Pins (41.2) and Bolts (41.1) from the Brace Connectors (41).

Assembly

- 1. Secure coupling (41.3) of the Brace Connector (41) to the Standard of the shoring tower, and align. (Fig. A4.01a)
- Insert lug (40.1) on the Push-Pull Prop (40) between the lugs of the Brace Connector.
- 3. Fix Push-Pull Prop with Bolts (41.1) and Cotter Pins (41.2) to the Brace Connector. (Fig. A4.01a)
- 4. Fix Base Plate (42) to the ground using Anchor Bolts (43).Inclination angle of the Push-Pull Prop to the ground approx. 60°. (Fig. A4.01b)
- 5. Fix Push-Pull Prop (40) to the Base Plate (42) using Bolts (42.1) and Cotter Pins (42.2). (Fig. A4.01b)

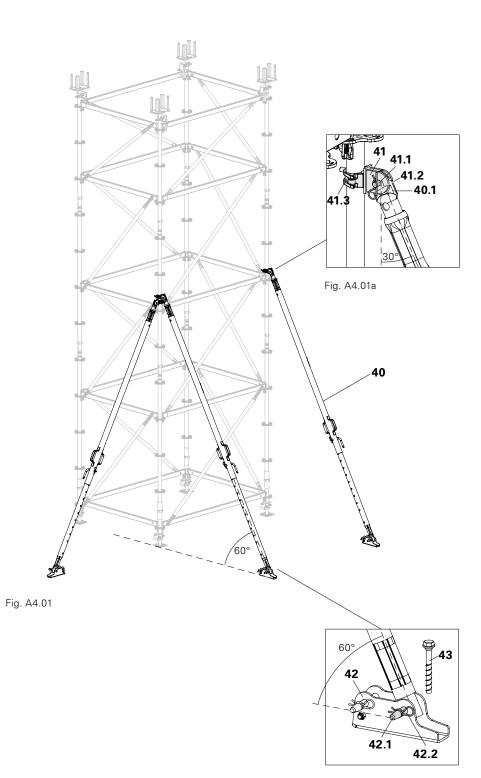


Fig. A4.01b

A4 Support



Bracing sets of shoring towers



For providing stability, mount Push-Pull Props and Ledgers.

Components

- 3 Ledger UH Plus
- 40 Push-Pull Prop RS
- 41 Brace Connector HDR
- 42 Base Plate RS
- **43** Anchor Bolt PERI 14/20 x 130

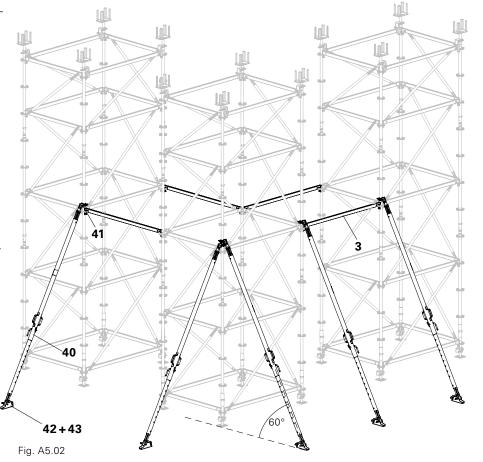
Number of pieces according to assembly instructions of the contractor.

Assembly

- Secure first shoring tower against tipping, see Supporting individual towers.
- Connect further shoring towers using Ledgers (3) and Push-Pull Props.
 (Fig. A5.02)



Alternatively, the shoring towers can also be secured against falling or horizontal movement during assembly operations using existing structural parts, e.g. walls.



B1 System supplementation



Tower with Section Spindles

Section Spindles are used to further increase the load-bearing capacity of the PERI UP Flex Shoring Tower. The spindle extension of the Head Spindles and Adjustable Base Plates can be minimized in each case whereby rough height adjustment takes place via the Section Spindles. Fine adjustment takes place using the Head Spindles and Adjustable Base Plates.

Spindle extensions

Adj. Base Plate: max. 250 mm Head Spindle: max. 200 mm



Application conditions

See Section Tables PERI UP Flex Shoring Tower with Spindle Section

Assembly

- Assemble base unit as described in Section A1 PERI UP Flex Shoring Tower
- 2. Position Top Standards (4a) on the Base Standards.
- 3. Connect the Top Standards with Ledgers (3).
- 4. Install Ledger Braces (5).
- 5. Place the Section Spindles (13) with Quick Jack Nuts on the Top Standards (4a) below, adjust the height and secure by means of Spindle Lockings (6).

(Fig. B1.01)

- 6. Install Base Standards (2) and secure by means of Locking Pins (7).
- 7. Insert Standards (4) in the Base Standards and brace using additional Ledgers (3a).

(Fig. B1.01a)

Components*		Qty
2	Base Standard UVB 24	4x
3	Ledger UH	8x
4a	Top Standard UVH 150	4x
6	Spindle Locking UJS	4x
7	Locking Pin Ø 48/57	4x
13	Section Spindle UJK 38-110	4x

^{*}in addition to Section A1 PERI UP Flex Shoring Tower.



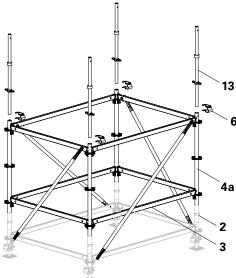


Fig. B1.01

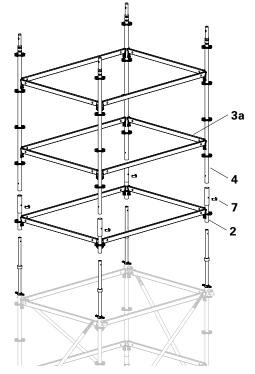
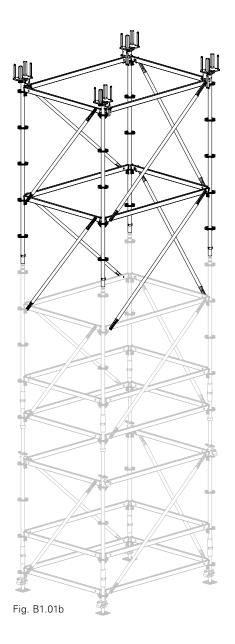


Fig. B1.01a

B1 System supplementation



7. Complete assembly of the shoring tower as described in Section A1. Fig. B1.01b



Additional Frames with Section Spindles

Assembly is carried out in the same way as for the shoring tower with Section Spindles. (Fig. B1.02)

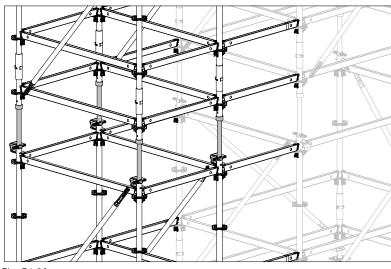


Fig. B1.02

B1 System supplementation



Height extensions or reductions

Extending or reducing the height of the shoring tower is always useful if different supporting heights which are positioned one after the other are required. Completely dismantling and then re-assembling the tower is thus not necessary.

Shown here is the joining together of two individual towers.



Application conditions

See Section Tables PERI UP Flex Shoring Tower with Spindle Section.

Components		Qty
13	Section Spindle UJK 38-110	4x

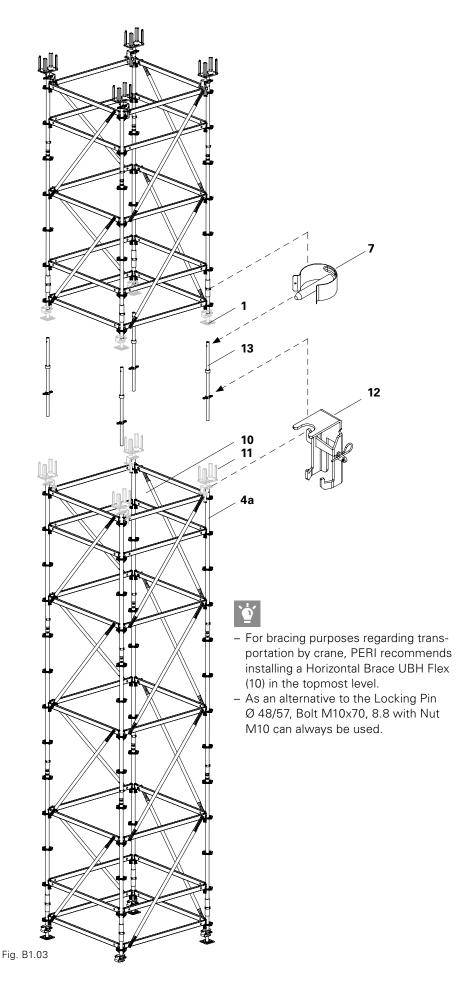
Assembly

- 1. Remove the Spindle Locking UJS and Head Spindle Locking UJH.
- 2. Remove the Head Spindles and Adjustable Base Plates (1, 11).
- 3. Place the Section Spindles (13) on the Top Standards (4a) and adjust the height.
- 4. Remove the Locking Pins (7) on the top tower.
- 5. Attach the second shoring tower unit on the Section Spindles.
- Secure top Section Spindles (13)
 using Locking Pins (7). Secure bottom
 Section Spindle using Head Spindle
 Locking (12).

Fig. B1.03

For height reductions (the tower is divided into 2 units), the 4 Section Spindles are replaced:

- on the top tower unit through 4 Adjustable Base Plates,
- on the bottom tower unit through 4 Head Spindles.





Transportation Wheel UEW

The Transportation Wheel UEW can be used for the PERI UP Flex Shoring Tower and PERI UP Flex Shoring Tower with VSS.

Со	mponents	Qty
16	Transportation Wheel UEW	4x
17	Connection Transportation	
	Wheel UER	4x

Pre-assembly

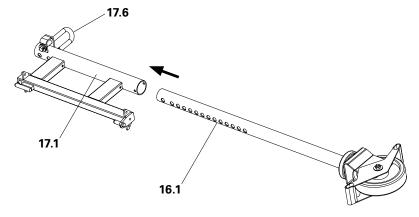
- 1. Completely insert the adjusting tube (16.1) of the Transportation Wheel UEW (16) into the guide tube (17.1) of the Connection Transportation Wheel UER (17).
- 2. Secure the adjusting tube with positioning pins (17.6).



Completely retract the Transportation Wheel!

Assembly

- 1. Insert Transportation Wheels with Spigots (17.2) from below into the rosettes. Insert the spigot first in the bottom rosette and then in the top rosette. Firmly hold the Transportation Wheels. (Fig. B1.04)
- 2. Insert locking lever (17.3) and turn downwards. Roll pin (17.4) must be fully engaged in the groove. (Fig. B1.04a B1.04b)



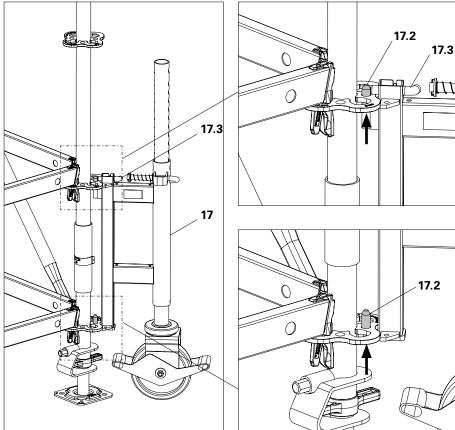
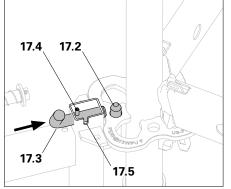


Fig. B1.04





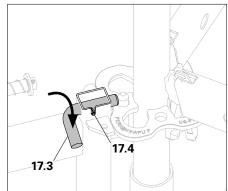


Fig. B1.04b



Moving the tower

- 1. Set down the Transportation Wheels UEW (16) completely on the ground, raise to the next pegging hole and peg with positioning pin (17.6). Secure positioning pin with cotter pins (17.7). (Fig. B1.04c - B1.04d)
- 2. Spindle in the Adjustable Base Plates of the shoring tower evenly until the dead weight of the shoring tower has been transferred to the Transportation Wheels and sufficient ground clearance has been achieved.
- 4. After the moving procedure, evenly spindle out the Adjustable Base Plates of the shoring tower until the



Do not load the Transportation Wheels!

out the Adjustable Base Plates again until the Transportation Wheels are completely free of any load.

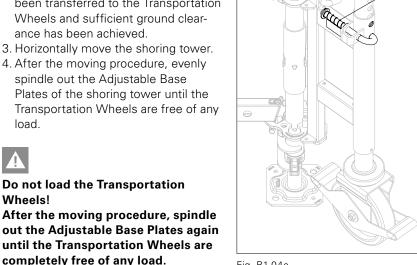


Fig. B1.04c

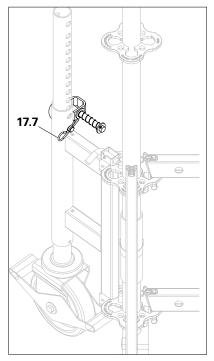


Fig. B1.04d

17.6



The stability of the shoring tower against overturning must be guaranteed. Ratio h/w < 3/1 or in accordance with a separate verification.



Use positioning pins in the top or bottom hole depending on which hole is reached first.

Through the given hole pattern, the Transportation Wheel can be pegged in half-steps.

Dismantling the Transportation Wheels

The Transportation Wheels must be completely free of any load!

- 1. Completely retract the Transportation Wheel and peg.
- 2. Hold the moving unit firmly, turn up the locking lever and pull out.
- 3. Lower the moving unit until both bolts are out of the rosettes.
- → The Transportation Wheel has now been dismantled.

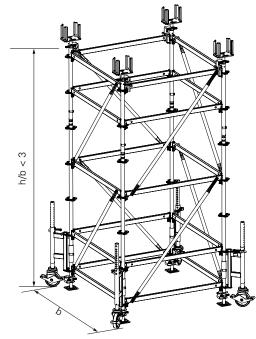


Fig. B1.04e



Trolley with Winch

The Trolley with Winch can be used for the PERI UP Flex Shoring Tower and PERI UP Flex Shoring Tower with VSS as well as PERI UP Flex Shoring Tower Plus.

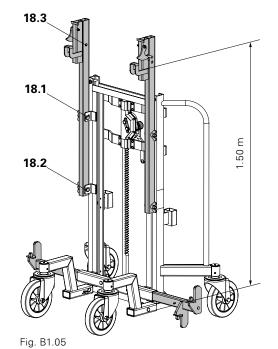
Components	Qty
18 PERI UP Trolley	2x
19 Trolley with Winch	2x

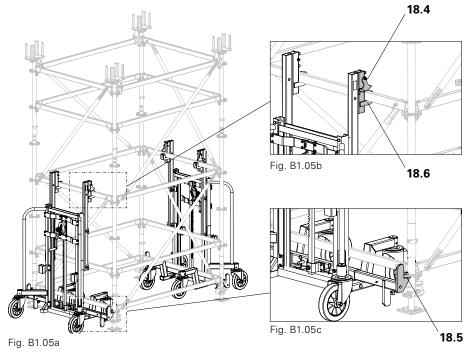
Trolley with Winch on PERI UP Flex Shoring Tower

Assembly

- 1. Mount the top connectors of the Trolley with Winch at the respective middle (18.1) and bottom (18.2) holes. The top hole (18.3) remains free. (Fig. B1.05)
- 2. For improved installation, the Ledger Braces of the shoring tower should be moved inside.
- 3. Move the Trolley with Winch against the shoring tower and raise the lifting device with the winch. Make sure that
 - the bottom connector (18.5) engages the rosette,
 - whilst the top connector (18.6) is positioned under the Ledger UH.
 - → Lifting device secures automatically by means of a pivot lock.
- Raise the lifting devices evenly until
 the dead weight of the shoring tower
 has been transferred to the Trolley
 with Winch and sufficient ground
 clearance has been achieved.

(Fig. B1.05a - B1.05c)







The stability of the shoring tower against overturning must be guaranteed. Ratio h/w < 3/1 or in accordance with a separate verification.



- Follow the Instructions for Use for the Trolley and Winch!
- Raise and lower the tower evenly.



Trolley with Winch on PERI UP Flex Shoring Tower with Additional Frame

Assembly takes place in the same way as for the PERI UP Flex Shoring Tower. For VSS with 25 cm, the following applies:



- For VSS with 25 cm spacing to the next frame, remove the bottom Ledger of the second frame.
- Check the clearance to the Ledger Braces (5)! (Fig. B1.06 – B1.07)
- After the moving procedure has finished, re-install the Ledger!

Assembly

See Section Trolley with Winch on PERI UP Flex Shoring Tower.

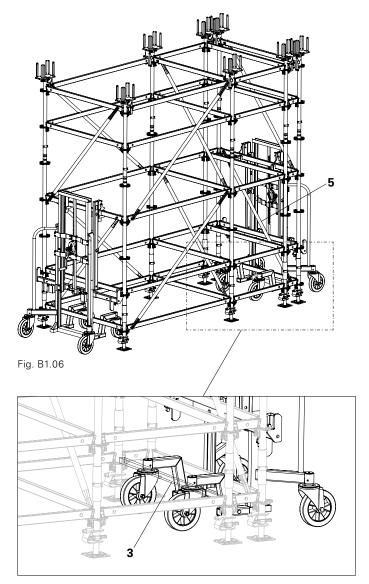


Fig. B1.07

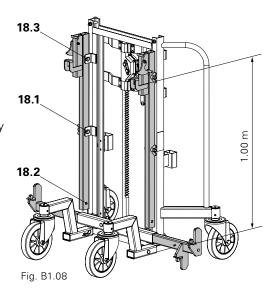


Trolley with Winch on PERI UP Flex Shoring Tower Plus

Assembly

1. Mount the top connector of the Trolley with Winch at the respective top (18.3) and middle (18.1) holes. The bottom hole (18.2) remains free. (Fig. B1.08 – B1.08c)

Additional assembly: see Section Trolley with Winch on PERI UP Flex Shoring Tower.



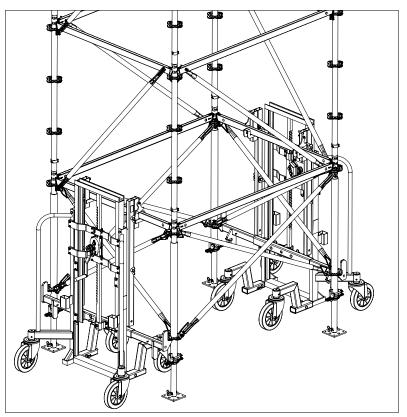


Fig. B1.08a



Inclined erection areas, inclined slab decks

The PERI UP Flex Shoring Tower can be adjusted to accommodate inclined erection areas or inclined slab decks.

The longer side of the shoring tower must point in the direction of the inclination.



Risk of collapse!

- All occurring horizontal forces must be safely transferred.
- Separate static proof is required for use on inclined erection areas or under inclined slabs.



The pegging holes to be used on the Connector MP/SRU are determined by the angle of inclination.

Assembly on inclined erection areas

- 1. Align the Steel Waler SRU to accommodate the slope. Secure the Steel waler to prevent slipping, e.g. by anchoring into the ground.
- 2. Mount Connector MP/SRU (54) on the Steel Waler SRU using Fitting Pins (55). Secure Fitting Pins with Cotter Pins (56).
- 3. As Adjustable Base Plates, mount Spindle Head SRU (53) to the Connector MP/SRU using Fitting Pins (55) and Cotter Pins (56).
- 4. Insert Spindle Head SRU (53) in the Base Standard (2) and secure by means of the Spindle Locking UJS (6).

- 5. Set up Standards (4) which have been adapted to accommodate the inclination and brace with Ledgers (3) at the first level of rosettes.
- 6. Horizontally align the assembly.
- 7. Diagonally brace the longer Standards with scaffold tubes between the Spindle Head SRU and Standard UVR. For this, mount a Swivel Coupling DK 38/48 (57) on the Spindle Head, as close as possible to the Connector MP/SRU. Mount a Swivel Coupling DK 48/48 (58) on the Standard directly above the first rosette.
- 8. Erection of the shoring tower continues in accordance with Section A1. (Fig. B1.09 - B1.09a)

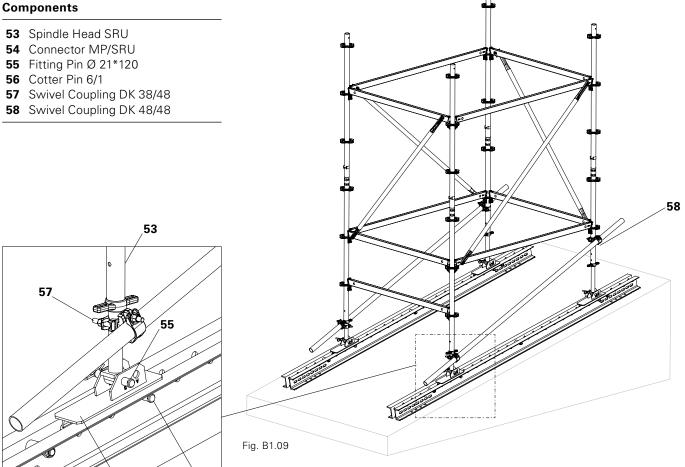


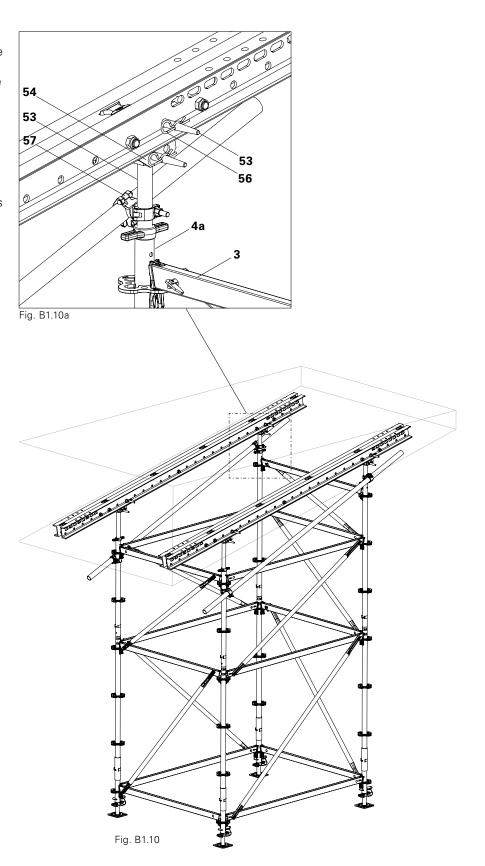
Fig. B1.09a

55



Assembly under inclined slab decks

- 1. Assemble the shoring tower up to the head section according to Section A1.
- 2. Set up Top Standards (4a) which have been adapted to accommodate the inclination and brace with Ledgers (3) at the top level of rosettes.
- 3. As Head Spindles, insert Spindle Head SRU (53) in the Top Standards and secure using the Spindle Locking UJS (6).
- 4. Diagonally brace the longer Standards with scaffold tubes between the Spindle Head SRU and Standard UVR (4). For this, mount a Swivel Coupling DK 38/48 (57) on the Spindle Head, as close as possible to the Connector MP/SRU. Mount a Swivel Coupling DK 48/48 (58) on the Standard directly under the first rosette.
- 5. Mount Connector MP/SRU (54) on the Spindle Head SRU using Fitting Pins (55) and Cotter Pins (56).
- Mount Connector MP/SRU on the Steel Waler SRU using Fitting Pins. Secure Fitting Pins with Cotter Pins (56).
- Safely transfer horizontal loads as directly as possible, e.g. via the bracing on the Steel Waler SRU.
 (Fig. B1.10 – B1.10a)



C Storage and transportation





- Instructions for Use for PERI pallets and stacking devices must be followed at all times!
- Pallets and stacked items are to be protected against the effects of the weather!
- Always attach the 4-sling lifting gear using the four load-bearing points!

Transport

PERI pallets and stacking devices are suitable for lifting by crane or forklift. They can also be moved with the PERI Pallet Lifting Trolley.

All pallets and stacking devices can be lifted using both the longitudinal and front sides.

The illustrations show examples.

Pallet RP-2 80 x 120

(Fig. C.01)

Pallet RP-2 80 x 150

(Fig. C.02)

Load-bearing capacity = 1.5 t. Crane sling angle $\leq 15^{\circ}$ from the vertical. Stacking height: 4 pallets on top of each other.

Storage examples

Pallet RP-2 80 x 120

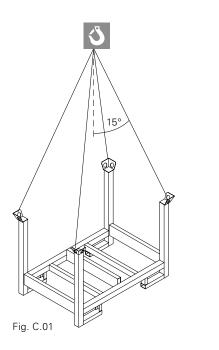
3	Ledger UH Plus	108
5c	Ledger Brace UBL 150/100	225
25	Base Standard UVB 135 Plus	48
28	Top Standard UVH 165 Plus	48

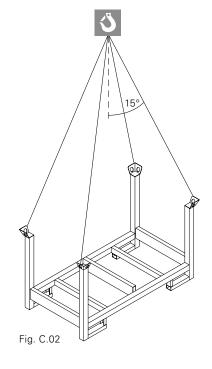
(Fig. C.03)

Pallet RP-2 80 x 150

4	Standard UVR 200	56
10	H-Braces UBH Flex 200/150	104
3a	Ledger UH Plus 200	48
5b	Ledger Brace UBL 200/100	48

(Fig. C.04)





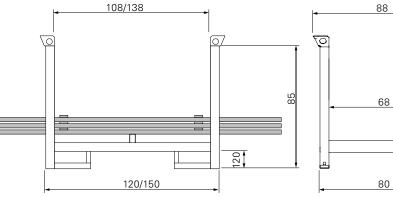


Fig. C.02a





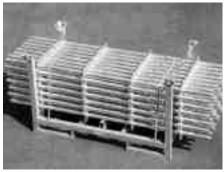


Fig. C.04

C Storage and transportation





- Always attach the 4-sling lifting gear using the four load-bearing points!
- Before transporting, close and lock the flap and, if necessary, secure the cover!

Pallet Cage 80 x 120

(Fig. C.05 + C.05a)

Load-bearing capacity = 1.5 t. Crane sling angle \leq 15°. Stacking height: 3 pallet cages on top of each other.

Storage examples

Pallet RP-2 80 x 120

 1
 Cross Forkhead TR 38-70/50
 40

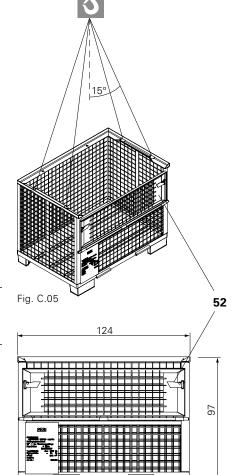
 5a
 Adjustable Base Plate
 UJB 38-50/30
 200

(Fig. C.06)



For better loading and unloading, the flap (52) can be pivoted downwards.

For securing the load against theft, the crate pallet can be optionally fitted with a cover.



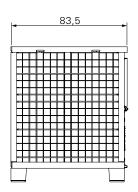




Fig. C.06

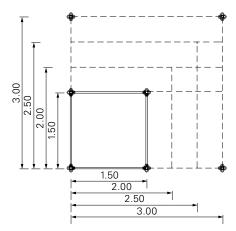
Fig. C.05a

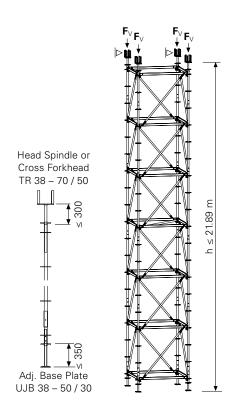
PERI UP Rosett Shoring Tower Restrained at the top, h ≤ 21.89 m

Application conditions

- Restrained at the top
- Without additional ledgers in top and bottom sections
- Horizontal cross strut min. every 9 m
- Head Spindle or Cross Forkhead
- $h \le 21.89 \text{ m}$

Ground plan





Perm. leg load

		F _V [kN]									
					Gı	ound	plan [ı	m]			
	h			5 X			2.0 x			5 X	3.0 x
	[m]	1.5	2.0	2.5	3.0	2.0	2.5	3.0	2.5	3.0	3.0
q = 0.5	1.83 -8.39	35.7					34.4				
	8.33 - 8.89	33.9	33.1	32.4	31.6	33.7	33.1	32.4	33.8	33.2	34.0
	8.83 - 9.39	33.6	32.8	32.0	31.2	33.4	32.7	32.0	33.3	32.8	33.5
	9.33	33.2	32.4	31.6	30.7	33.0	32.2	31.5	32.9	32.3	33.1
	9.83 - 10.39	32.9	32.0	31.1	30.3	32.6	31.8	31.0	32.5	31.8	32.6
	10.33 - 10.89	32.6	31.7	30.7	29.8	32.2	31.4	30.6	32.1	31.3	32.1
	10.83 - 11.39	32.3	31.3	30.3	29.3	31.9	31.0	30.1	31.6	30.9	31.6
	11.33 - 11.89	32.0	30.9	29.9	28.9	31.5	30.6	29.6	31.2	30.4	31.1
	11.83 - 12.39	31.6	30.6	29.5	28.4	31.1	30.1	29.2	30.8	29.9	30.7
	12.33 - 12.89	31.3	30.2	29.1	28.0	30.7	29.7	28.7	30.4	29.4	30.2
	12.83 - 13.39	31.0	29.8	28.7	27.5	30.4	29.3	28.2	29.9	29.0	29.7
0.8	13.33 - 13.89	30.7	29.5	28.3	27.0	30.0	28.9	27.8	29.5	28.5	29.2
] q =	13.83 - 14.39	30.4	29.1	27.8	26.6	29.6	28.5	27.3	29.1	28.0	28.7
[kN/m²]	14.33 - 14.89	30.0	28.7	27.4	26.1	29.2	28.0	26.8	28.7	27.5	28.3
e K	14.83 - 15.39	29.7	28.4	27.0	25.7	28.9	27.6	26.4	28.2	27.1	27.8
Dynamic pressure	15.33 - 15.89	29.4	28.0	26.6	25.2	28.5	27.2	25.9	27.8	26.6	27.3
c pre	15.83 - 16.39	29.2									
ami	16.33 - 16.89	28.9									
۵	16.83 - 17.39	28.7									
	17.33 - 17.89	28.4									
	17.83 - 18.39	28.2							v		
	18.33 - 18.89	27.9	ı	or th	is ar	ea, pl	ease	refer	to Ap	pen-	
	18.83 - 19.39	27.7	(dices	T1 +	Γ2 of	the t	ype t	est.		
	19.33 - 19.89	27.4									
	19.83 - 20.39	27.2									
	20.33 - 20.89	27.0									
	20.83 - 21.39	26.7									
	21.33 - 21.89	26.5									

	F _V [kN]						
	all ground plans						
	38.0						
	37.9						
	37.8						
	37.7						
	37.6						
	37.5						
	37.4						
	37.3						
	37.2						
	37.1						
	37.0						
0 =	36.9						
d, q	36.8						
×	36.7						
hout	36.6						
κį	36.5						
	36.5						
	36.4						
	36.4						
	36.4						
	36.3						
	36.3						
	36.3						
	36.2						
	36.2						
	36.2						
	36.1						
	36.1						

PERI UP Rosett Shoring TowerRestrained at the top, h ≤ 21.89 m, with additional ledger

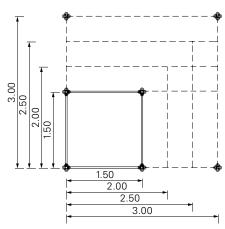


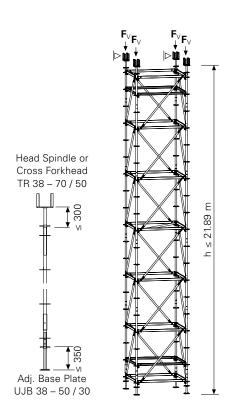


Application conditions

- Restrained at the top
- With additional ledgers in top and bottom sections
- Horizontal cross strut min. every 9 m
- Head Spindle or Cross Forkhead
- $h \le 21.89 \text{ m}$

Ground plan





Perm. leg load

31.6

31.3

31.0 30.8 30.5

19.83

	eiiii.	F _V [kN]									
			Ground plan [m]								
	h		1.5	×			2.0 x		2.!	5 x	3.0 x
_	[m]	1.5	2.0	2.5	3.0	2.0	2.5	3.0	2.5	3.0	3.0
q = 0.5	1.83 -8.39	39.9					38.9				
	8.33 - 8.89	38.5	37.7	37.0	36.2	37.9	37.3	36.6	37.6	37.1	37.5
	8.83 - 9.39	38.1	37.3	36.5	35.7	37.5	36.9	36.2	37.2	36.6	37.0
	9.33 - 9.89	37.8	36.9	36.1	35.3	37.2	36.4	35.7	36.8	36.2	36.6
	9.83 - 10.39	37.4	36.6	35.7	34.8	36.8	36.0	35.2	36.4	35.7	36.2
	10.33 - 10.89	37.1	36.2	35.2	34.3	36.4	35.6	34.8	36.0	35.3	35.7
	10.83 - 11.39	36.8	35.8	34.8	33.8	36.0	35.2	34.3	35.6	34.8	35.3
	11.33 - 11.89	36.4	35.4	34.4	33.3	35.6	34.8	33.8	35.2	34.4	34.9
	11.83 - 12.39	36.1	35.0	33.9	32.9	35.3	34.3	33.4	34.7	33.9	34.4
	12.33 - 12.89	35.7	34.6	33.5	32.4	34.9	33.9	32.9	34.3	33.5	34.0
	12.83 - 13.39	35.4	34.2	33.1	31.9	34.5	33.5	32.4	33.9	33.0	33.6
9.0	13.33 - 13.89	35.1	33.8	32.6	31.4	34.1	33.1	32.0	33.5	32.6	33.1
] q =	13.83 - 14.39	34.7	33.5	32.2	30.9	33.7	32.7	31.5	33.1	32.1	32.7
I/m²	14.33 - 14.89	34.4	33.1	31.8	30.5	33.4	32.2	31.0	32.7	31.7	32.3
e [k]	14.83 - 15.39	34.0	32.7	31.3	30.0	33.0	31.8	30.6	32.3	31.2	31.8
ssur	15.33 - 15.89	33.7	32.3	30.9	29.5	32.6	31.4	30.1	31.9	30.8	31.4
c pre	15.83 - 16.39	33.4									
Dynamic pressure [kN/m²]	16.33 - 16.89	33.2									
Dyn	16.83 - 17.39	32.9									
	17.33 - 17.89	32.6									
	17.83 - 18.39	32.4									
	18.33 - 18.89	32.1	F	or th	is are	ea, pl	ease	refer	to Ap	pen-	
	18.83 - 19.39	31.8	C	lices	T3 +1	Γ4 of	the t	ype to	est.		
1	10.00		l								i

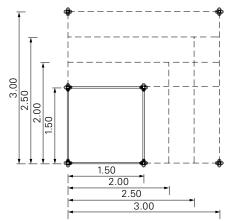
	F _V [kN]
	all ground plans
	41.6
	41.5
	41.4
	41.3
	41.2
	41.1
	41.0
	40.9
	40.8
	40.7
	40.6
o II	40.5
, a	40.4
Š	40.3
יוסר	40.2
×	40.1
	40.1
	40.1
	40.1
	40.0
	40.0
	40.0
	40.0
	39.9
	39.9
	39.9
	39.8
	39.8

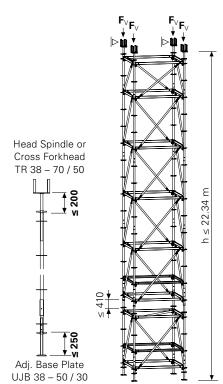
PERI UP Rosett Shoring TowerRestrained at the top, h ≤ 22.34 m, with Spindle Section

Application conditions

- Restrained at the top
- With additional ledgers in top and bottom sections and above the Spindle Section
- Horizontal cross strut min. every 9 m and directly below the Spindle Sec-
- Head Spindle or Cross Forkhead
- $-h \le 22.34 m$

Ground plan





Perm. leg load

		F _V [kN]									
			Ground plan [m]								
	h			5 x			2.0 x			5 x	3.0 x
	[m]	1.5	2.0	2.5	3.0	2.0	2.5	3.0	2.5	3.0	3.0
q = 0.5	2.64 - 8.34	44.9					43.5				
	8.14 - 8.84	43.4	42.9	42.4	41.9	42.8	42.2	41.7	42.2	41.6	41.5
	8.64 - 9.34	43.2	42.7	42.1	41.6	42.6	42.0	41.5	41.9	41.3	41.3
	9.14 - 9.84	43.0	42.4	41.9	41.3	42.4	41.7	41.2	41.7	41.1	41.0
	9.64 - 10.34	42.8	42.2	41.6	41.0	42.1	41.5	40.9	41.4	40.8	40.7
	10.14 - 10.84	42.6	42.0	41.3	40.7	41.9	41.2	40.6	41.2	40.5	40.5
	10.64 - 11.34	42.3	41.7	41.1	40.4	41.7	41.0	40.3	40.9	40.3	40.2
	11.14 - 11.84	42.1	41.5	40.8	40.1	41.5	40.7	40.0	40.7	40.0	40.0
	11.64 - 12.34	41.9	41.3	40.5	39.8	41.2	40.5	39.7	40.4	39.7	39.7
	12.14 - 12.84	41.7	41.0	40.3	39.5	41.0	40.2	39.4	40.2	39.5	39.4
	12.64 - 13.34	41.5	40.8	40.0	39.2	40.8	40.0	39.2	39.9	39.2	39.2
9.0	13.14 - 13.84	41.3	40.6	39.7	38.9	40.6	39.7	38.9	39.7	38.9	38.9
= b [:	13.64 - 14.34	41.1	40.3	39.5	38.6	40.3	39.5	38.6	39.4	38.7	38.7
[kN/m ²]	14.14 - 14.84	40.9	40.1	39.2	38.3	40.1	39.2	38.3	39.2	38.4	38.4
	14.64 - 15.34	40.7	39.8	38.9	38.0	39.8	38.9	38.0	38.9	38.1	38.1
ssur	15.14 - 15.84	40.4	39.5	38.6	37.7	39.6	38.6	37.7	38.6	37.8	37.8
c pre	15.64 - 16.34	40.2	39.3	38.3	37.4	39.3	38.3	37.4	38.3	37.5	37.5
Dynamic pressure	16.14 - 16.84	39.9	39.0	38.0	37.1	39.0	38.0	37.1	38.0	37.2	37.2
Dyr	16.64 - 17.34	39.7	38.7	37.8	36.7	38.8	37.8	36.7	37.8	36.8	36.8
	17.14 - 17.84	39.4	38.4	37.5	36.4	38.5	37.5	36.4	37.5	36.5	36.5
	17.64 - 18.34	39.2	38.2	37.2	36.1	38.2	37.2	36.1	37.2	36.2	36.2
	18.14 - 18.84	38.9	37.9	36.9	35.8	38.0	36.9	35.8	36.9	35.9	35.9
	18.64 - 19.34	38.7	37.6	36.6	35.5	37.7	36.6	35.5	36.6	35.6	35.6
	19.14 - 19.84	38.5	37.4	36.3	35.2	37.4	36.3	35.2	36.3	35.3	35.3
	19.64 - 20.34	38.2	37.1	36.0	34.8	37.2	36.0	34.9	36.0	35.0	35.0
	20.14 - 20.84	38.0	36.9	35.7	34.5	36.9	35.8	34.6	35.8	34.7	34.7
	20.64 - 21.34	37.8	36.6	35.4	34.2	36.6	35.5	34.2	35.5	34.3	34.3
	21.14 - 21.84	37.5	36.4	35.1	33.8	36.4	35.2	33.9	35.2	34.0	34.0
	21.64 - 22.34	37.3	36.1	34.8	33.5	36.1	34.9	33.6	34.9	33.7	33.7

all ground plans 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 45.3 45.8 45.7 45.6 45.5 45.4 45.3 45.2 45.1		F _V [kN]
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.3 46.2 46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.3 46.3 46.3 46.3 46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.3 46.3 46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.3 46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.7 45.6 45.5 45.4 45.3 45.2		46.3
46.3 46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2	0 =	46.3
46.2 46.2 46.1 46.0 46.0 45.9 45.8 45.7 45.6 45.5 45.4 45.3 45.2	d, q	46.3
46.2 46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3	t wir	46.3
46.1 46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2	thou	46.2
46.0 46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3 45.2	ķ	46.2
46.0 45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3		46.1
45.9 45.8 45.8 45.7 45.6 45.5 45.4 45.3		46.0
45.8 45.8 45.7 45.6 45.5 45.4 45.3		46.0
45.8 45.7 45.6 45.5 45.4 45.3 45.2		45.9
45.7 45.6 45.5 45.4 45.3 45.2		45.8
45.6 45.5 45.4 45.3 45.2		45.8
45.5 45.4 45.3 45.2		45.7
45.4 45.3 45.2		45.6
45.3 45.2		45.5
45.2		45.4
		45.3
45.1		45.2
		45.1

PERI UP Rosett Shoring TowerFree standing, 1.5 m x 1.5 m, h ≤ 8.39 m, with additional ledger

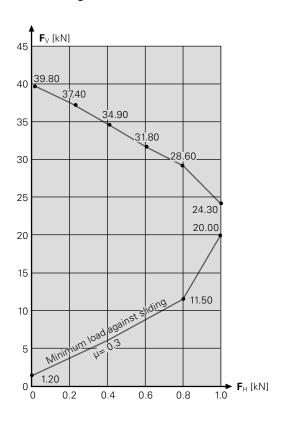


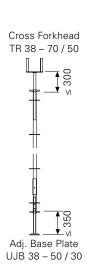


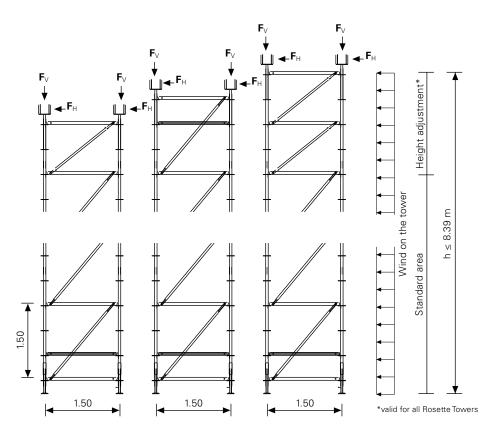
Application conditions

- Free standing
- With wind
- With additional ledgers in top and bottom sections
- Head Spindle or Cross Forkhead
- height h ≤ 8.39 m

Perm. leg load







PERI UP Flex Shoring Tower Plus Permissible loads with TR 48 / TR 48





Load-bearing capacity per leg for shoring towers with Spindles TR 48 with a maximum supporting height of up to 16.26 m (restrained at the top).

Ground plan 150 x 150 cm

Height of tower [m]	Spindle e: [cr	xtensions m]	Permissible loads [kN / leg]		
	Base L _{Sp,F}	Head L _{Sp,K}	without wind (0.0 kN/m²)	with wind (0.5 kN/m²)	
15.15	35	30	52.37	50.05	
10.65	35	30	53.99	51.99	
7.65	35	30	56.43	55.03	
15.58	20	88	30.45	24.40	
11.08	20	88	37.05	32.73	
8.08	20	88	44.47	42.04	
15.58	88	20	43.14	31.02	
11.08	88	20	48.07	41.53	
8.08	88	20	50.36	48.76	
15.78	88	40	40.32	27.85	
11.28	88	40	42.68	36.31	
8.28	88	40	42.73	38.27	
16.26	88	88	25.50	16.98	
11.76	88	88	25.96	19.72	
8.76	88	88	26.27	21.71	

Ground plan 150 x 250 cm

Height of tower [m]	•	xtensions m]	Permissible loads [kN / leg]		
	Base L _{Sp,F}	Head L _{Sp,K}	without wind (0.0 kN/m²)	with wind (0.5 kN/m²)	
15.15	35	30	52.37	48.02	
10.65	35	30	53.99	50.97	
7.65	35	30	56.43	54.13	
15.58	20	88	30.45	22.24	
11.08	20	88	37.05	31.07	
8.08	20	88	44.47	41.16	
15.58	88	20	43.14	26.08	
11.08	88	20	48.07	38.39	
8.08	88	20	50.36	47.48	
15.78	88	40	40.32	23.07	
11.28	88	40	42.68	33.25	
8.28	88	40	42.73	36.73	
16.26	88	88	25.50	13.64	
11.76	88	88	25.96	17.55	
8.76	88	88	26.27	19.97	

Variable Spindle Tube TR 48-116/80 or TR 48-75/40 with Head Plate for TR 48 UBS - crossed **UVH 165 PLUS** Combination of Standards UVR 135 PLUS UBS - crossed Spindle Tube TR 48-116/80 or TR 48-75/40 with Base Plate TR 48

The values given also apply to lower system heights.

Length of the standards, ledgers and diagonals in accordance with geometrical requirements.

The standard joints must be at the same height of the ledgers.

PERI UP Flex Shoring Tower Plus Permissible loads with TR 48 / TR 48





Load-bearing capacity per leg for shoring towers with Spindles TR 48 with a maximum supporting height of up to 16.26 m (restrained at the top).

Ground plan 100 x 150 cm

Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]	
	Base L _{Sp,F}	Head L _{Sp,K}	without wind (0.0 kN/m²)	with wind (0.5 kN/m²)
15.15	35	30	50.72	45.55
10.65	35	30	51.20	47.75
7.65	35	30	55.04	52.88
15.58	20	88	26.23	20.29
11.08	20	88	30.31	25.98
8.08	20	88	36.24	33.04
15.58	88	20	38.49	25.28
11.08	88	20	42.74	34.77
8.08	88	20	47.14	42.56
15.78	88	40	37.40	24.00
11.28	88	40	40.13	31.77
8.28	88	40	42.29	37.57
16.26	88	88	24.30	16.50
11.76	88	88	25.45	19.19
8.76	88	88	25.94	21.30

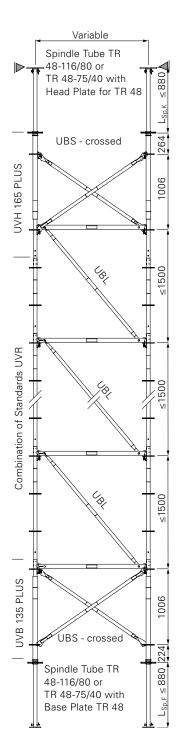
Ground plan 100 x 250 cm

Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]		
	$\underset{L_{Sp,F}}{Base}$	Head L _{Sp,K}	without wind (0.0 kN/m²)	with wind (0.5 kN/m²)	
15.15	35	30	50.72	43.39	
10.65	35	30	51.20	46.50	
7.65	35	30	55.04	51.80	
15.58	20	88	26.23	18.00	
11.08	20	88	30.31	24.27	
8.08	20	88	36.24	31.73	
15.58	88	20	38.49	20.61	
11.08	88	20	42.74	31.56	
8.08	88	20	47.14	40.37	
15.78	88	40	37.40	19.43	
11.28	88	40	40.13	28.43	
8.28	88	40	42.29	35.56	
16.26	88	88	24.30	13.00	
11.76	88	88	25.45	17.02	
8.76	88	88	25.94	19.62	

The values given also apply to lower system heights.

Length of the standards, ledgers and diagonals in accordance with geometrical requirements.

The standard joints must be at the same height of the ledgers.



PERI UP Flex Shoring Tower Plus Permissible loads with TR 48 / TR 48





Load-bearing capacity per leg for shoring towers with Spindle TR 48 at Base or Head with a maximum supporting height of up to 15.58 m (restrained at the top).

Ground plan 150 x 150 cm

Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]	
	Base LSp,F	Head LSp,K	without wind (0.0 kN/m2)	with wind (0.5 kN/m2)
15,58	88	20	42,47	28,76
11,08	88	20	46,02	39,19
8,08	88	20	46,35	41,95

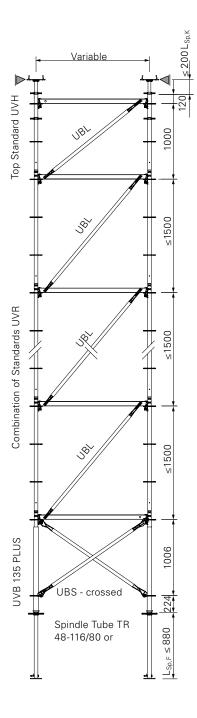
Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]	
	Base LSp,F	Head LSp,K	without wind (0.0 kN/m2)	with wind (0.5 kN/m2)
15,58	88	20	42,47	26,60
11,08	88	20	46,02	37,98
8,08	88	20	46,35	41,46

Ground plan 150 x 250 cm

Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]	
	Base Head LSp,F LSp,K		without wind with wi (0.0 kN/m2) (0.5 kN/m	
15,58	88	88 20		24,43
11,08	88	20	46,02	36,47
8,08	88 20		46,35	40,51

Ground plan 100 x 150 cm

_	around plain 100 x 100 cm						
	Height of tower [m]	Spindle extensions [cm]		Permissible loads [kN / leg]			
		Base LSp,F	Head LSp,K	without wind (0.0 kN/m2)	with wind (0.5 kN/m2)		
	15,58	88	20	37,60	23,72		
	11,08	88	20	41,27	32,83		
	8,08	88 20		44,90	39,40		



The values given also apply to lower system heights.

Length of the standards, ledgers and diagonals in accordance with geometrical requirements.

The standard joints must be at the same height of the ledgers.

PERI



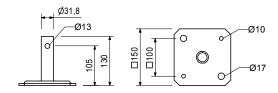
Item no. Weight kg

100244 1.200

Base Plate UJP

Without height adjustment.





100411

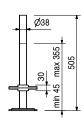
3.390

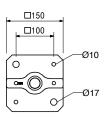
Adj. Base Plate UJB 38-50/30



With captive red Quick Jack Nut.







100242

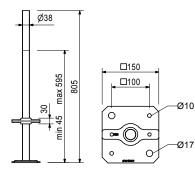
4.570

Adj. Base Plate UJB 38-80/55

Note

With captive yellow Quick Jack Nut.





019780

5.250

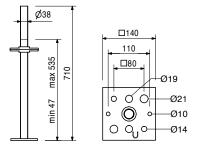
Base Spindle TR 38-70/50

For heavily loaded shoring.



Note

With captive silver Quick Jack Nut.





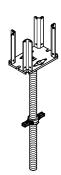
Item no. Weight kg 019950 7.770

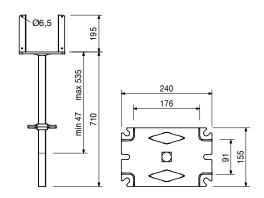
Cross Forkhead TR 38-70/50

Tilt-resistant head spindle for holding one or two GT 24 or VT 20 Girders.

Note

With captive Quick Jack Nut.





Accessories

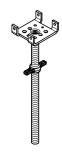
028590 0.568 **Tension Strap 16-25, galv.**

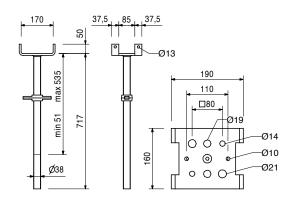
319790 6.460 **Head Spindle TR 38-70/50, galv.**

Maximum inclination of the head plate on all sides 4.4°.

Note

With captive Quick Jack Nut.





116081 7.040

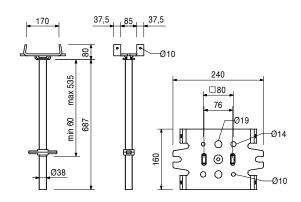
Head Spindle-2 TR 38-70/50

Maximum inclination of the head plate on all sides 4.4°.

Note

With locking device and captive Quick Jack Nut.





Accessories

028590 0.568 018300 0.564 Tension Strap 16-25, galv. Cross Strap, galv.

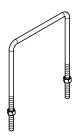


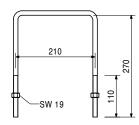
Item no.	Weight kg
020500	0.000

028590 0.568

Tension Strap 16-25, galv.

For mounting 2 GT 24 or VT 20 Girders on the Cross Forkhead and Head Spindle TR 38 and on the Crosshead 20/24 or 20/24S.





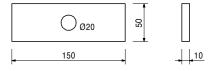
018300

0.564

Cross Strap, galv.

For fixing Steel Walers SRZ and SRU on the Head Spindle TR 38.





Accessories

018350

0.310

Bolt ISO 4016 M16 x 160-4.6 MU, galv.

109630 4.240

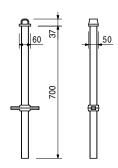
Spindle Head SRU

For connecting the Steel Walers SRU and SRZ to the shoring.



Note

With captive Quick Jack Nut.



Accessories

104031 0.462 0.030 018060

Fitting Pin Ø 21 x 120 Cotter Pin 4/1, galv.



Item no. Weight kg 111072 6.300

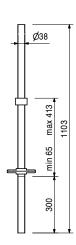
Section Spindle UJK 38-110/41

For erection of shoring with tower units.

Note

With captive Quick Jack Nut.





100863 1.020

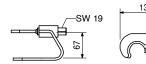
Spindle Locking UJS

Secures the Adjustable Base Plates and Section Spindles \varnothing 38 mm in the leg while moving.

Technical Data

Permissible load 1.5 kN.





109563

1.460

Head Spindle Locking UJH

Connects Head Spindle and Section Spindle with Ledger UH when moving.

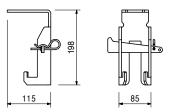
Complete with

1 pc. 018060 Cotter Pin 4/1, galv.

Technical Data

Permissible load 2.1 kN.





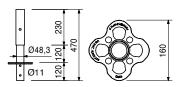
100014

2.470

Base Standard UVB 24

For assembly directly on the base spindle.





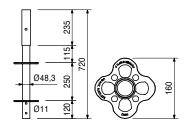


Item no. Weight kg 117194 3.980

Base Standard UVB 49

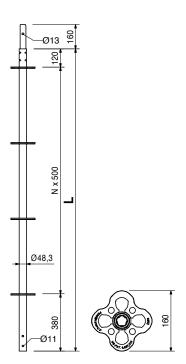
For assembly directly on the base spindle. Reduces necessary spindle extension lengths through distance between rosettes of 25 cm.





		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	

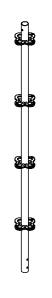


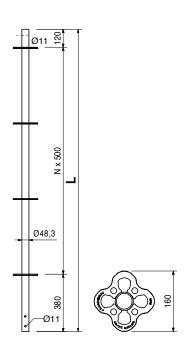




Item no.	Weight kg			
		Top Standards UVH	L	
100000	4.610	Top Standard UVH 100	1000	
100003	6.920	Top Standard UVH 150	1500	
100005	9.240	Top Standard UVH 200	2000	
100007	11.500	Top Standard UVH 250	2500	

Without spigot for supporting head spindles.

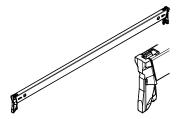


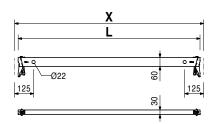


		Ledgers UH Plus	L	Х	Sticker
114613	1.420	Ledger UH 25 Plus	204	250	
114595	2.070	Ledger UH 50 Plus	454	500	
114629	2.730	Ledger UH 75 Plus	704	750	White
114632	4.460	Ledger UH 100 Plus	954	1000	White
114638	5.430	Ledger UH 125 Plus	1204	1250	
114641	4.710	Ledger UH 150 Plus	1454	1500	
117032	5.380	Ledger 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.





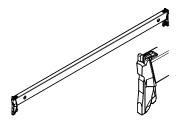


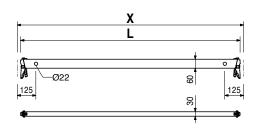
Item no.	Weight kg					
		Ledgers UH	L	X	Sticker	_
404780	1.390	Ledger UH 25	204	250		
404779	2.040	Ledger UH 50	454	500		
400017	2.710	Ledger UH 75	704	750	White	
401159	3.370	Ledger UH 100	954	1000	White	
410347	4.020	Ledger UH 125	1204	1250		
400021	4.690	Ledger UH 150	1454	1500		
400023	6.020	Ledger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

Note

Longitudinally-stamped and with coloured label for easier identification.

Ledgers UH can be replaced by Ledgers UH Plus.

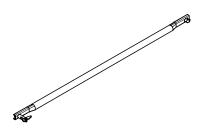


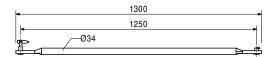


019940 2.270

Diagonal Strut ST 100, galv.

Diagonals for Stacking Tower ST 100. Number required depends on the static system.







Item no.	Weight kg					
		Ledger Braces UBL	L	Х	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
130282	5.620	Ledger Brace UBL 225/50	2062	2250	500	
130283	6.070	Ledger Brace UBL 225/100	2236	2250	1000	
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.

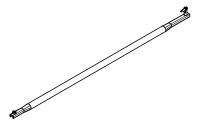
UBL 150/250 identical to UBL 300/50,

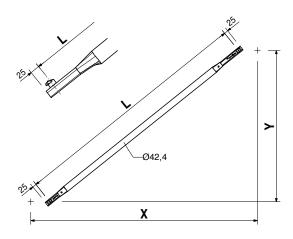
UBL 225/150 identical to UBL 175/200,

UBL 250/50 identical to UBL 200/150.

UBL 75/200 identical to UBL 225/50.

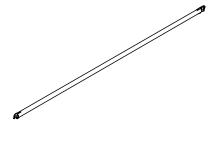
UBL 100/100 identical to Diagonal Strut ST 100 (Item no. 019940).

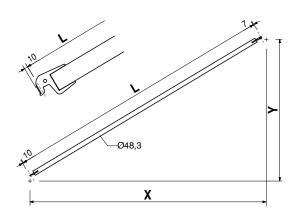






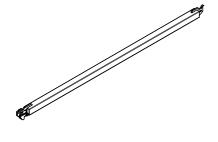
Item no.	Weight kg					
		Horizontal Braces UBH	L	Х	Υ	
400042	7.350	Horizontal Brace UBH 150/150	2042	1500	1500	
407815	8.700	Horizontal Brace UBH 200/150	2422	2000	1500	
400047	9.870	Horizontal Brace UBH 200/200	2749	2000	2000	
406931	10.200	Horizontal Brace UBH 250/150	2838	2500	1500	
404356	11.300	Horizontal Brace UBH 250/200	3123	2500	2000	
400049	12.400	Horizontal Brace UBH 250/250	3456	2500	2500	
400051	11.800	Horizontal Brace UBH 300/150	3279	3000	1500	
423483	12.700	Horizontal Brace UBH 300/200	3528	3000	2000	
402617	13.800	Horizontal Brace UBH 300/250	3826	3000	2500	
400053	15.000	Horizontal Brace UBH 300/300	4164	3000	3000	

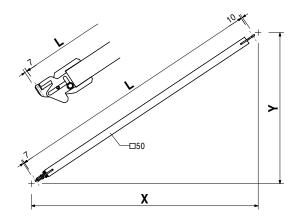




	H-Braces UBH Flex	L	X	Υ
4.580	H-Brace UBH Flex 100/100	1335	1000	1000
5.720	H-Brace UBH Flex 150/100	1725	1500	1000
6.650	H-Brace UBH Flex 150/150	2042	1500	1500
7.000	H-Brace UBH Flex 200/100	2161	2000	1000
8.730	H-Brace UBH Flex 200/200	2749	2000	2000
8.350	H-Brace UBH Flex 250/100	2620	2500	1000
8.640	H-Brace UBH Flex 250/125	2720	2500	1250
8.990	H-Brace UBH Flex 250/150	2838	2500	1500
9.830	H-Brace UBH Flex 250/200	3123	2500	2000
10.800	H-Brace UBH Flex 250/250	3456	2500	2500
9.730	H-Brace UBH Flex 300/100	3092	3000	1000
11.000	H-Brace UBH Flex 300/200	3528	3000	2000
11.900	H-Brace UBH Flex 300/250	3826	3000	2500
12.900	H-Brace UBH Flex 300/300	4163	3000	3000
	5.720 6.650 7.000 8.730 8.350 8.640 8.990 9.830 10.800 9.730 11.000 11.900	4.580 H-Brace UBH Flex 100/100 5.720 H-Brace UBH Flex 150/100 6.650 H-Brace UBH Flex 150/150 7.000 H-Brace UBH Flex 200/100 8.730 H-Brace UBH Flex 200/200 8.350 H-Brace UBH Flex 250/100 8.640 H-Brace UBH Flex 250/125 8.990 H-Brace UBH Flex 250/150 9.830 H-Brace UBH Flex 250/200 10.800 H-Brace UBH Flex 250/250 9.730 H-Brace UBH Flex 300/100 11.000 H-Brace UBH Flex 300/200 11.900 H-Brace UBH Flex 300/250	4.580 H-Brace UBH Flex 100/100 1335 5.720 H-Brace UBH Flex 150/100 1725 6.650 H-Brace UBH Flex 150/150 2042 7.000 H-Brace UBH Flex 200/100 2161 8.730 H-Brace UBH Flex 200/200 2749 8.350 H-Brace UBH Flex 250/100 2620 8.640 H-Brace UBH Flex 250/125 2720 8.990 H-Brace UBH Flex 250/150 2838 9.830 H-Brace UBH Flex 250/200 3123 10.800 H-Brace UBH Flex 300/200 3456 9.730 H-Brace UBH Flex 300/100 3092 11.000 H-Brace UBH Flex 300/200 3528 11.900 H-Brace UBH Flex 300/250 3826	4.580 H-Brace UBH Flex 100/100 1335 1000 5.720 H-Brace UBH Flex 150/100 1725 1500 6.650 H-Brace UBH Flex 150/150 2042 1500 7.000 H-Brace UBH Flex 200/100 2161 2000 8.730 H-Brace UBH Flex 250/100 2620 2500 8.640 H-Brace UBH Flex 250/125 2720 2500 8.990 H-Brace UBH Flex 250/150 2838 2500 9.830 H-Brace UBH Flex 250/200 3123 2500 10.800 H-Brace UBH Flex 300/200 3456 2500 9.730 H-Brace UBH Flex 300/100 3092 3000 11.000 H-Brace UBH Flex 300/250 3528 3000 11.900 H-Brace UBH Flex 300/250 3826 3000

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

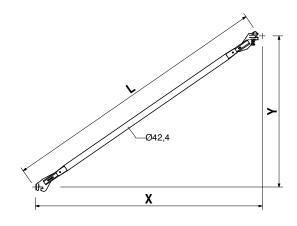






Item no.	Weight kg					
		Shoring Braces UBS	L	Х	Υ	
128936	4.250	Shoring Brace UBS 100/100	1413	1000	1000	
129354	5.300	Shoring Brace UBS 100/150	1771	1000	1500	
107801	5.260	Shoring Brace UBS 150/100	1792	1500	1000	
107810	6.050	Shoring Brace UBS 150/150	2122	1500	1500	
115504	6.360	Shoring Brace UBS 200/100	2219	2000	1000	
115291	7.050	Shoring Brace UBS 200/150	2492	2000	1500	
123592	7.630	Shoring Brace UBS 250/100	2672	2500	1000	
123588	8.090	Shoring Brace UBS 250/150	2902	2500	1500	
123584	8.820	Shoring Brace UBS 300/100	3139	3000	1000	
123580	9.360	Shoring Brace UBS 300/150	3337	3000	1500	
		Standard diagonal for shoring frames.				

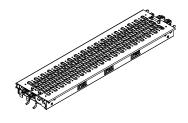


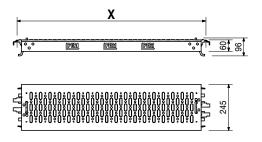


Industrial Decks Steel UDI 25		
Industrial Deck UDI 25 x 50	4.090	404029
Industrial Deck UDI 25 x 75	5.520	405925
Industrial Deck UDI 25 x 100	6.950	406092
Industrial Deck UDI 25 x 125	8.380	406880
Industrial Deck UDI 25 x 150	9.790	407002
Industrial Deck UDI 25 x 200	12.700	408380
Industrial Deck UDI 25 x 250	15.500	408540
Industrial Deck UDI 25 x 300	18.400	408689
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.



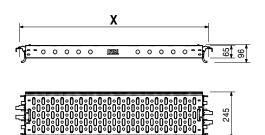




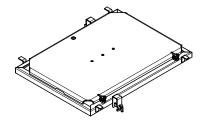
Item no.	Weight kg				
		Steel Decks UDG	X	perm. p [kN/m²]	max. p [kN/m²]
124124	3.880	Steel Deck UDG 25 x 50	500	6.0	40.0
124121	5.260	Steel Deck UDG 25 x 75	750	6.0	40.0
124118	6.630	Steel Deck UDG 25 x 100	1000	6.0	40.0
124115	8.010	Steel Deck UDG 25 x 125	1250	6.0	28.4
124112	9.410	Steel Deck UDG 25 x 150	1500	6.0	19.6
124109	12.200	Steel Deck UDG 25 x 200	2000	6.0	10.9
123771	14.900	Steel Deck UDG 25 x 250	2500	4.5	6.9
124915	17.700	Steel Deck UDG 25 x 300	3000	3.0	4.7
		Mounted on Ledgers UH.	Note		

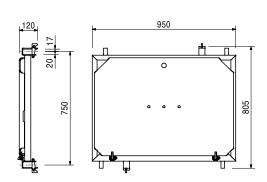
Perm. p according to DIN EN 12811-1. max. p = maximum possible load without deflection limitation.





109755 15.700 **Hatch UAF 75 x 100**



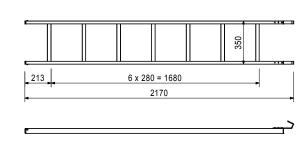


Accessories

For mounting to Hatch UAF.

109879	3.820	Ladder UAF 200, Alu	
109879	3.820	Ladder UAF 200, Alu	





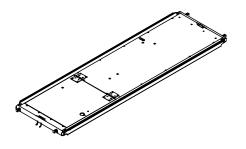


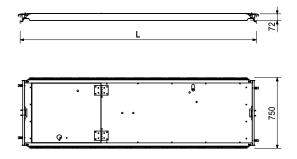
	Weight kg	Item no.
Access Decks UAL-3		
Access Deck UAL-3, 75 x 150/	15.600	126393
Access Deck UAL-3, 75 x 200	19.600	126392
Access Deck UAL-3, 75 x 250	23.500	126314

L	
1500	
2000	
2500	

Technical Data

Load Class 3, 2.0 kN/m².

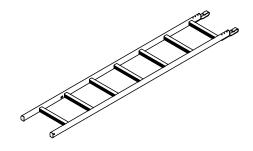


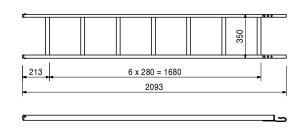


Accessories

126318 3.750	Ladder Flex UEL with hook
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126318	3.750	Ladder Flex UEL with hook





117196 9.930

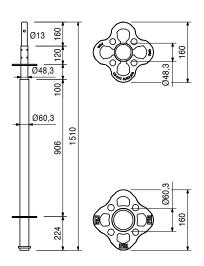
Base Standard UVB 135 Plus

Use of Spindle Tube TR 48 in the base area through the transition of standard \varnothing 48 mm on a standard with \varnothing 60 mm.

Note

For horizontal bracing by Shoring Braces UBS (crossed)







Item no. Weight kg

117197 10.400

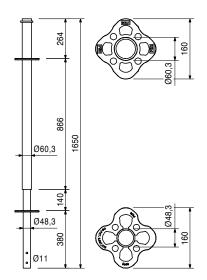
Top Standard UVH 165 Plus

Use of Spindle Tube TR 48 and Cross Forkhead TR 48 in the top area through the transition of standards \emptyset 48 mm on a standard with \emptyset 60 mm.

Note

For horizontal bracing by Shoring Braces UBS (crossed)





018630 9.500

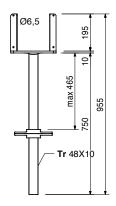
Cross Head Spindle TR 48-75/47, galv.

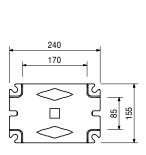
Head spindle for PD 8 Slab Table and Flex Plus Shoring.

Complete with

1 pc. 018270 Quick Jack Nut TR 48, galv.







Accessories

028590 0.568

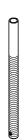
Tension Strap 16-25, galv.

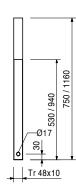


Weight kg
4.400
6.820

Spindle Tubes TR 48, galv. Spindle Tube TR 48-75/40, galv. Spindle Tube TR 48-116/80, galv.

For use as head and base spindle for the PD 8 Systems and Flex Plus Shoring.





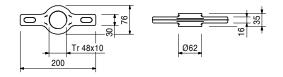
Accessories

127604	1.270	Quick Jack Nut TR 48-2, galv.

318270 0.800 **Quick Jack Nut TR 48, galv.**

For spindles Ø 48 mm.



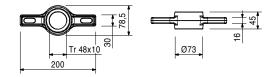


127604 1.270

Quick Jack Nut TR 48-2, galv.

For spindles Ø 48 mm; with additional groove.



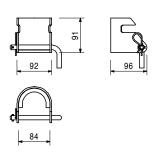


117743 0.798

Handle Lock UJS Plus

Secures Head- and Base Spindles \varnothing 48 mm in the Standard Plus during moving.







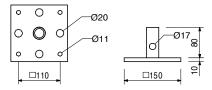
Item no.	Weight kg
010070	1 770

Item no.	Weight kg
018070	1 770

Base Plate for Spindle Tube TR 48

Base plate for Spindle Tubes and Foot Tube FR 80.





Accessories

018050	0.171
018060	0.030

Pin Ø 16 x 65/86, galv. Cotter Pin 4/1, galv.

018040

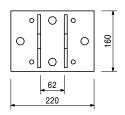
3.770

Head Plate for Spindle Tube TR 48

Note

Can be pivoted by 2.1 % in combination with Cap Piece.







Accessories

018050	0.171
018060	0.030
019660	0.288

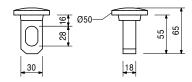
Pin Ø 16 x 65/86, galv. Cotter Pin 4/1, galv. Cap Piece, galv.

019660 0.288

Cap Piece, galv.

For centric load application. Allows 2.1% inclination of the head plate.

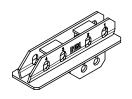


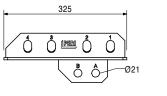


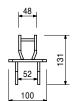
107160 3.960

Connector MP-SRU

As compensation element between the Prop Head MP/SRU and inclined positioned Steel Waler SRU.







Accessories

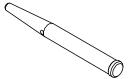
104031 0.462 018060 0.030 Fitting Pin Ø 21 x 120 Cotter Pin 4/1, galv.

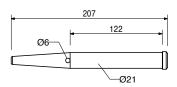


Item no. Weight kg 104031 0.462

Fitting Pin Ø 21 x 120

For different connections.



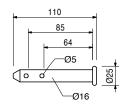


Accessories

018060 0.030 **Cotter Pin 4/1, galv.**

018050 0.171 **Pin Ø 16 x 65/86, galv.** For different connections.





Accessories

018060 0.030 **Cotter Pin 4/1, galv.**

018060 0.030 **Cotter Pin 4/1, galv.**

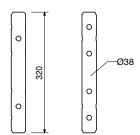




100301 1.020 **Spigot ULT 32**

Lose pin for connecting Scaffold Tubes \varnothing 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**



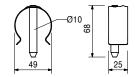
Item no.	Weight kg

nem no.	vveignt kg
111053	0.059

Locking Pin Ø 48/57

As tension-proof connection of standards with a diameter of 48 up to 57 mm.





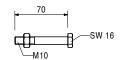
100719

0.060

Bolt ISO 4014 M10 x 70-8.8 MU

As tension-proof connection of standards for suspended scaffolds or lattice girders.

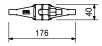




116306 1.700

Rosett Coupler UEV 180°







126453 1.630

Rosett Coupler UEV 90°









Item no. Weight kg 116176 15.000

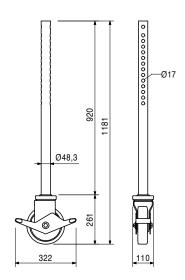
Transportation Wheel UEW

For inserting in Connection Transportation Wheel UER (for Rosett) and Transportation Wheel ST 100.



Permissible load-bearing capacity 3.5 kN per wheel with spindle extension of Shoring Tower up to 30 cm.



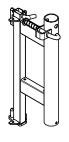


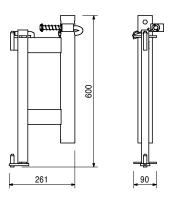
Accessories

116193 5.150 Connection Transportation Wheel UER

116193 5.150 Connection Transportation Wheel UER

Mounted on Standards UVR. Allows moving of complete frameworks.





Accessories

116176 15.000 Transportation Wheel UEW



Item no. Weight kg 019200 162.000

Trolley with Winch

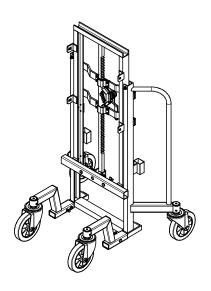
For moving towers and tables with MULTIPROP, Flex, Flex Plus and PD 8 with appropriate support for the system.

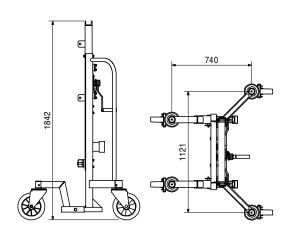
Note

Follow Instructions for Use!

Technical Data

Permissible load-bearing capacity 1.0 t.



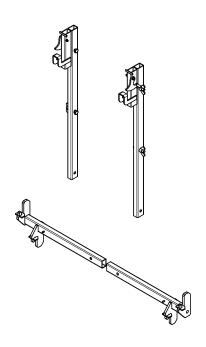


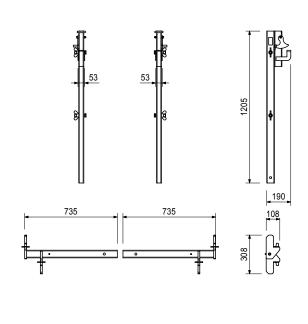
Accessories

118114 14.200 118115 11.000 130501 27.600 Connector MP – Trolley Connector PD 8 – Trolley Connector PERI UP – Trolley

130501 27.600

Connector PERI UP - Trolley







PERI UP Flex – 2nd generation



Comparison of components

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

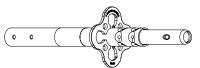
The following comparison tables describe the visible features of $1^{\rm st}$ and $2^{\rm nd}$ generation.



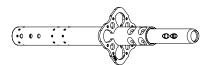
 1^{st} and 2^{nd} generation components can be combined.

- The previous components
 - Standard UVR,
- Steel Deck UDG are no longer available as new components.
- The optimised components
 - Standard UVR-2,
 - Steel Deck UDG-2 are available under new article numbers.

Standard UVR



Standard UVR-2

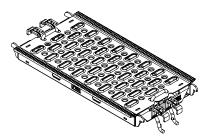


		· ·
Tube	RO 48.3 mm x 3.2 mm	RO 48.3 mm x 2.7 mm , embossed points result in slight play on the joint.
Spigot tube connection	2 rows, with 5 pinch points each	2 rows, with 4 pinch points each
Rosette	160 mm x 130 mm x 8 mm	152 mm x 120 mm x 6 mm
Hole for suspended scaffold for fixing with screws and bolts M10	1 hole perm. F = 20 kN when fixed 1x	2 holes perm. F = 15 kN when fixed 1x perm. F = 30 kN when fixed 2x
Marking	none	striped band at the top and bottom
Compatibility	Can be mixed based on geometric and static* compatibility. * Only applies when combined with UH Plus and UHV Plus horizontal ledgers. * The load tables shown in the Instructions for Assembly and Use for the Flex Heavy-Duty Prop HD and Shoring Tower Plus systems do not apply to use of the Standard UVR-2. Check the statics beforehand!	

Steel Deck UDG



Steel Deck UDG-2



Deck assembly	riveted and welded	welded	
Profile height	65 mm, uniform	L 50 – 150: L 200 – 250: L 300:	45 mm 60 mm 70 mm
Marking	without yellow clip on the front side		
Compatibility	Can be mixed based on geometric and static* compatibility. Take *Load Class (perm. p) into account.		

PERI UP Flex – 2nd generation

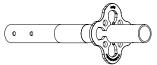


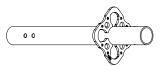
- The previous components

 - Top Standard UVHHorizontal Ledger UH Plus are replaced by the optimised version and are no longer available in their previous form.
- The optimised components are available under their previous article number.

Top Standard UVH

Top Standard UVH (2nd generation)





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 for fixing with screws and bolts M10	1 hole perm. F = 20 kN when fixed 1x	2 holes perm. F = 15 kN when fixed 1x perm. F = 30 kN when fixed 2x
Compatibility	Can be mixed based on geometric and static compatibility.	

Horizontal Ledger UH Plus

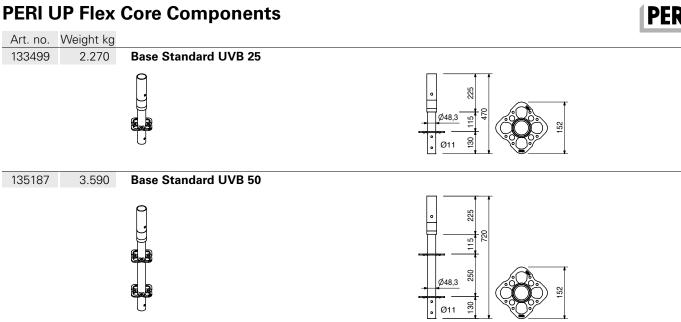
Horizontal Ledger UH Plus (2nd generation)





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. UBL ledger braces can be mounted at very flat installation angles using the middle assembly point only. Check the geometry beforehand!
Compatibility	Can be mixed based on geometric and static compatibility	

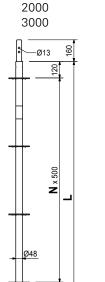




132219	2.480
132224	4.340
132229	6.180
132234	8.030
132239	11.700

Standards UVR-2 Standard UVR-2 50 Standard UVR-2 100 Standard UVR-2 150 S 200 S 300

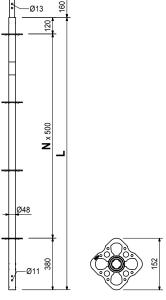
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L 500

1000

1500



		Steel Decks UDG-2 25
132479	3.330	Steel Deck UDG-2 25 x 50
132488	4.460	Steel Deck UDG-2 25 x 75
132492	5.580	Steel Deck UDG-2 25 x 100
132502	6.720	Steel Deck UDG-2 25 x 125
132505	7.860	Steel Deck UDG-2 25 x 150
132508	10.500	Steel Deck UDG-2 25 x 200
132511	12.900	Steel Deck UDG-2 25 x 250
132515	15.800	Steel Deck UDG-2 25 x 300

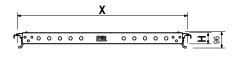
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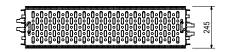
^{*} Current Load Class 4, with extension of approval in 2020 Load Class 5.

Х	perm. p [kN/m²]	Н
500	6.0	45
750	6.0	45
1000	6.0	45
1250	6.0	45
1500	6.0	45
2000	6.0	60
2500	3.0 / 4.5*	60
3000	3.0	70
NI. c.		

Note

Values correspond with EN 12811-1



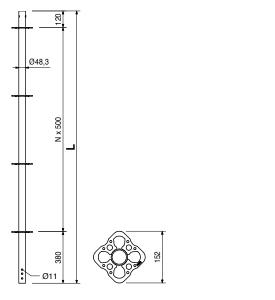


PERI UP Flex Core Components



Art. no.	Weight kg			
		Top Standards UVH (2 nd generation)	L	
101309	2.090	Top Standard UVH 50	500	
100000	4.210	Top Standard UVH 100	1000	
100003	6.310	Top Standard UVH 150	1500	
100005	8.420	Top Standard UVH 200	2000	
100007	10.500	Top Standard UVH 250	2500	
		Without spigot for supporting head spindles.		



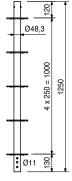


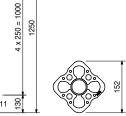
117195 6.060

Top Standard 125 (2nd generation)

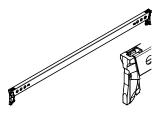
Without spigot for supporting head spindles. Reduces necessary spindle adjustments with 25 cm rosette spacing.

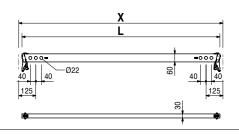






		Horizontal Ledgers UH Plus (2nd generation)	L	X	
114613	1.410	Horizontal Ledger UH 25 Plus	204	250	
114595	2.030	Horizontal Ledger UH 50 Plus	454	500	
114629	2.690	Horizontal Ledger UH 75 Plus	704	750	
114632	3.740	Horizontal Ledger UH 100 Plus	954	1000	
114638	4.510	Horizontal Ledger UH 125 Plus	1204	1250	
114641	4.680	Horizontal Ledger UH 150 Plus	1454	1500	
117032	5.340	Horizontal Ledger UH 175 Plus	1704	1750	
114645	6.000	Horizontal Ledger UH 200 Plus	1954	2000	
116356	6.660	Horizontal Ledger UH 225 Plus	2204	2250	
114648	7.320	Horizontal Ledger UH 250 Plus	2454	2500	
114651	8.650	Horizontal Ledger UH 300 Plus	2954	3000	
			Note		





With length marking for easier identification.

The optimal System for every Project and every Requirement



Wall Formwork



Column Formwork



Slab Formwork



Climbing Systems



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Tunnel Formwork



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Safety Systems



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