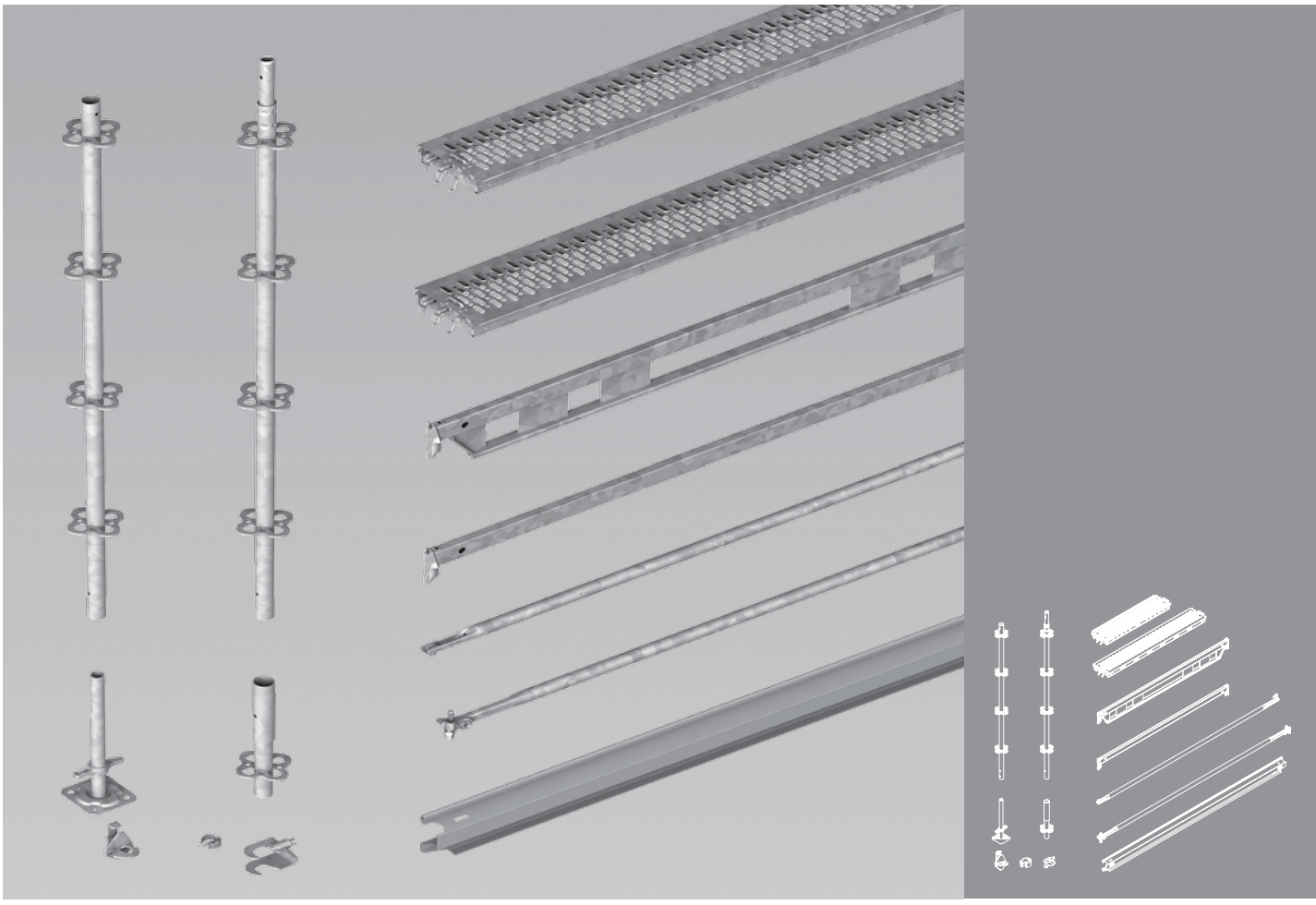
PERI UP Flex
Components 2019

Supplement to the Instructions for Assembly and Use – Standard Configuration – Issue 06/2019



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Key

Pictogram | Definition

Danger / Warning / Caution

Note

To be complied with

Visual check

Tip

Arrows

Arrow representing an action

Forces

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

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

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

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

Note
This sign indicates situations in which failure to observe the information can result in material damage.

Set-up of the safety instructions

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

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

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

Presentational reference

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

For a better understanding, detailed illustrations are partly incomplete. Some safety installations which have possibly not been shown in these detailed descriptions must nevertheless still be available.

Introduction

This supplement to the Instructions for Assembly and Use for PERI UP Flex Components 2019 may only be used in connection with the Instructions for Assembly and Use for PERI UP Flex Core Components (Issue 03/2018).

Please note that German General Building Inspectorate Approval for the PERI UP Flex supplementary components has been applied for but has not been issued yet.

Until official approval is granted, it is possible to use the supplementary components if approval according to current building laws and regulations is obtained in each individual case. Approval is not required in Austria and Switzerland.

A1 Decking – System Component Decking

Steel Deck UDG-2

For PERI UP Flex, new system decking is now available. Depending on the length, they have different profile heights.

Fig. A1.01

All decks have integrated protection against lifting and are compatible with existing UDI and UDG Decks.

- When assembling, see also the Instructions for Assembly and Use for PERI UP Flex Core Components, Section A2.6 Decking.
- Load classes and profile heights: see Section "Load-bearing capacities of the Steel Deck UDG-2".

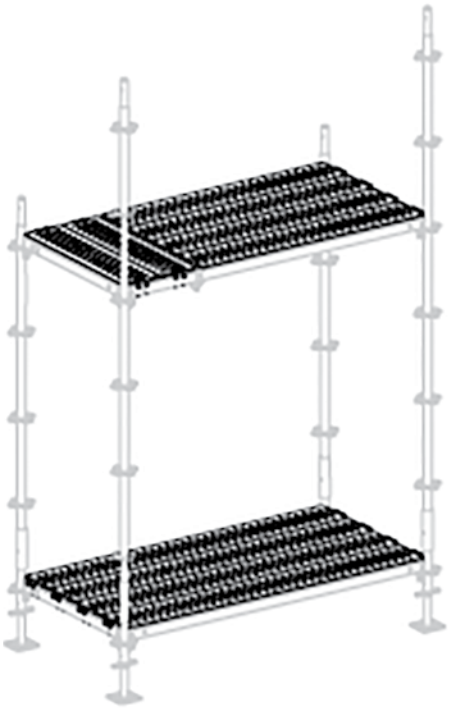


Fig. A1.02

A1 Decking – System Component Decking

Load-bearing capacities of the Steel Deck UDG-2

Scaffold deck	Length [m]	Profile height [mm]	Weight [kg]	perm. p [kN/m²] Values corresponding to EN 12811-1
Steel Deck UDG-2	0.50	45	3.34	6.00
	0.75	45	4.47	6.00
	1.00	45	5.59	6.00
	1.25	45	6.73	6.00
	1.50	45	7.87	6.00
	2.00	60	10.50	6.00
	2.50	60	12.90	3.00
	3.00	70	15.80	3.00

Table A1.01

Internal access with the Ladder Deck

For bay lengths of 2.50 m and 3.00 m, install the Ladder Deck UAW or UAA (with attached access ladder) in the basic scaffold.

For 2.00-m and 1.50-m bay lengths, install the Access Deck UAA and Ladder UEL or EAL.

- When assembling, see also the Instructions for Assembly and Use for PERI UP Flex Reinforcement Scaffold, Section A1 Access Decks, Decking, Guardrails.
- Load Class 2, 2.0 kN/m².

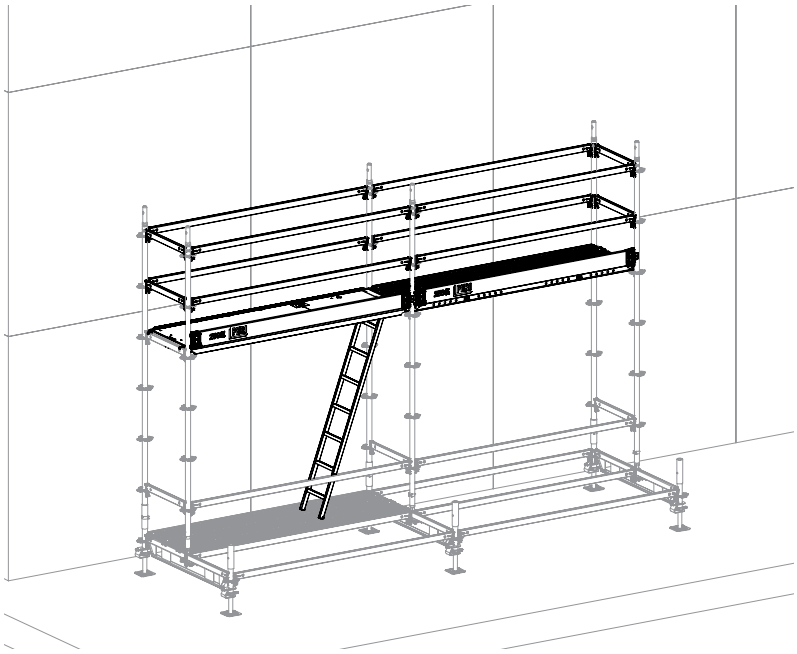


Fig. A1.03

A2 Safety Entry Gate and Ladder Connector – System Components Access Industry

System Components Access Industry

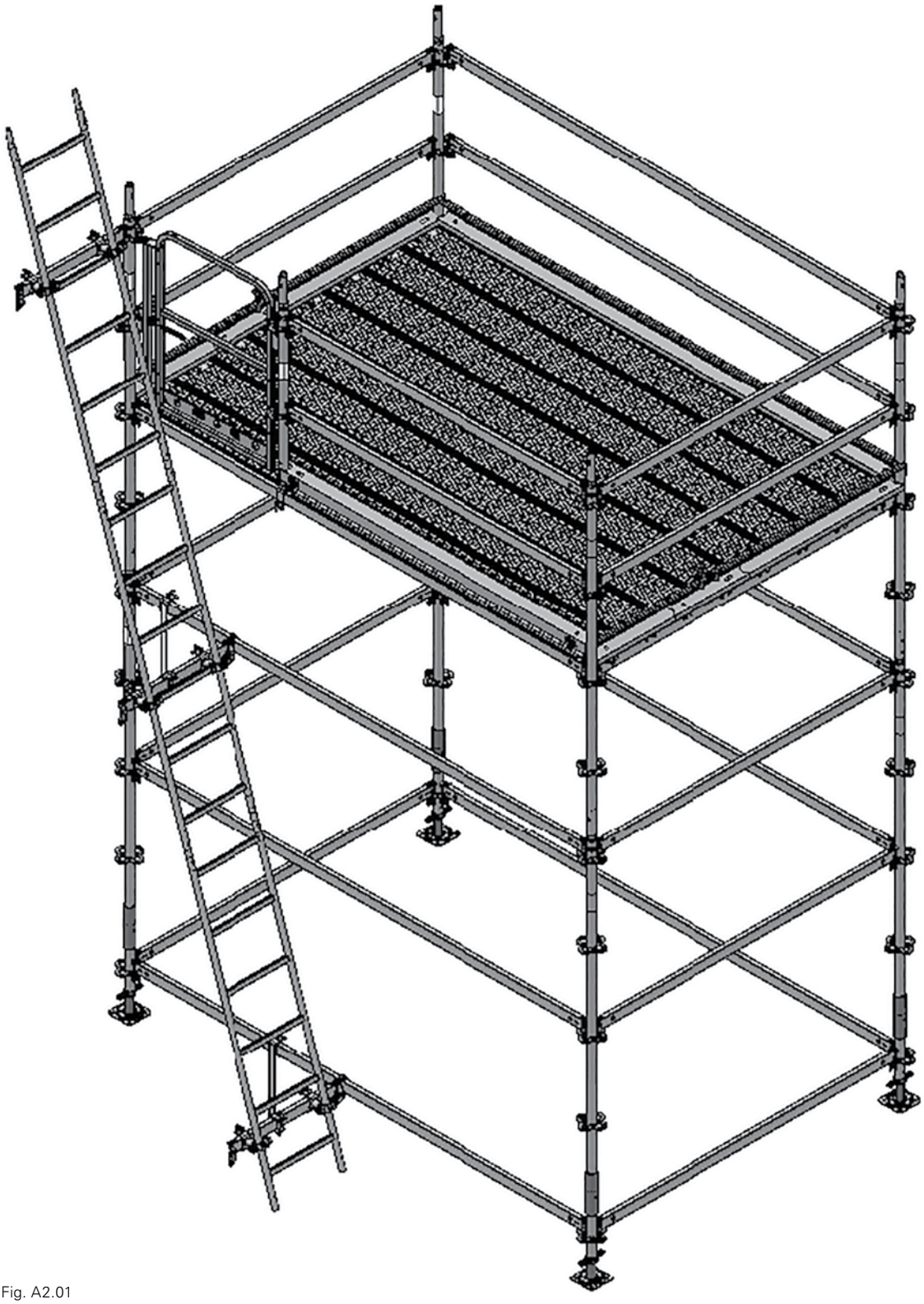


Fig. A2.01

A2 Safety Entry Gate and Ladder Connector - System Components Access Industry

Safety Entry Gate

Assembly and mounting of the scaffolding according to the available Instructions for Assembly and Use for PERI UP Flex.

The Safety Entry Gate must be installed with personnel in a secure position or personal protective equipment to prevent falling must be used.

When assembling, see also the Instructions for Assembly and Use for PERI UP Flex Core Components.

Assembly

1. Mount the Swing Gate with ledger connection (Fig. A2.02b) and top suspension bracket (Fig. A2.02a) in the rosettes.
   → The stop side can be freely selected but ensure that the stop of the Safety Entry Gate is on the inside and the gate opens inwards towards the platform.
   → Caution: risk of falling!
2. Hammer in wedge tightly.
3. Check whether the Safety Entry gate completely closes.

(Fig. A2.02)

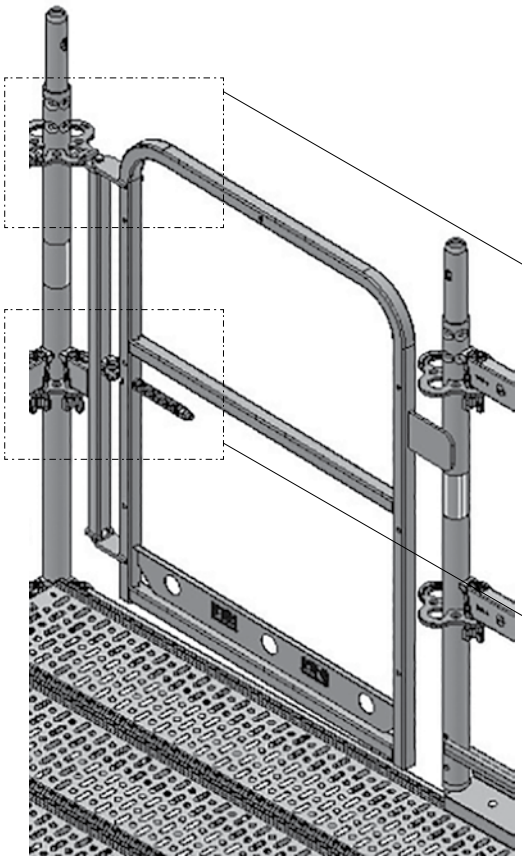


Fig. A2.02

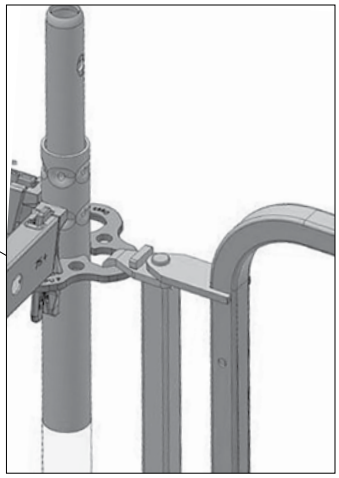


Fig. A2.02a

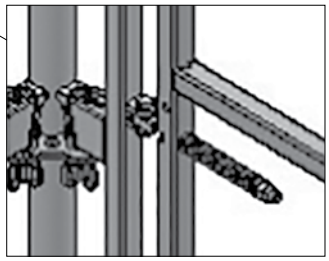


Fig. A2.02b

A2 Safety Entry Gate and Ladder Connector - System Components Access Industry

Ladder Connector Ledger UAM-S

Suitable for circular tubes from Ø 32.0 to 48.3 mm. Also for rectangular tubes with a width of 25 to 30 mm and a height of 30 to 80 mm (adjustable by means of screws). (Fig. A2.03)

Assembly

1. Both inclined as well as vertical Ladders serve to access the platforms. These can be positioned externally or integrated into the platform itself. Thereby, the exit height is as needed and access to the platform usually takes place by means of a Safety Entry Gate.
2. The Ladders are firmly connected to the scaffold using the Ladder Connector Ledger UAM-S and UAM-W, which eliminates the widening as described in DIN 131.

When assembling, see the Instructions for Assembly and Use for PERI UP Flex Core Components.

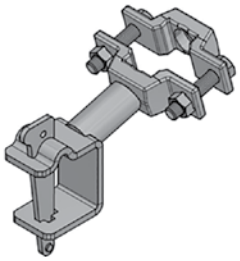


Fig. A2.03

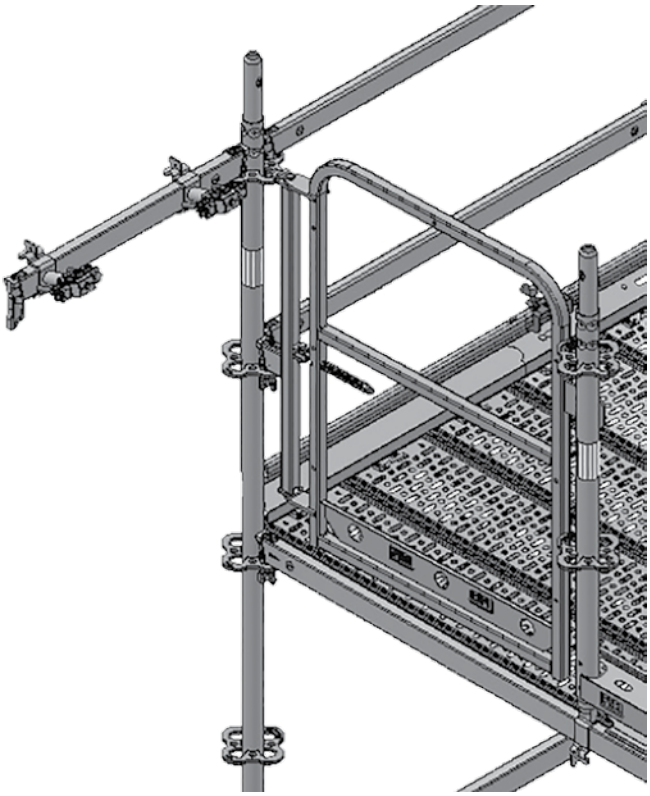


Fig. A2.04

Top Ladder Connector

Assembly

1. Assembly of the Ledgers UH according to the Instructions for Assembly and Use for PERI UP Core Components.
2. Position Ledger Connectors UAM-S on the Ledger, insert wedges. Slide both Ledger Connectors UAM-S on the rung spacing of the ladder and secure the wedges. (Fig. A2.04)
3. Open the screws of the Ladder Connectors UAM-S and place the leaning ladder in the half-shells of the Ladder Connectors.
4. Close the Ladder Connectors and tighten the screws. (Fig. A2.05)
5. When using the leaning Ladders, refer to the corresponding manufacturer's instructions for use.

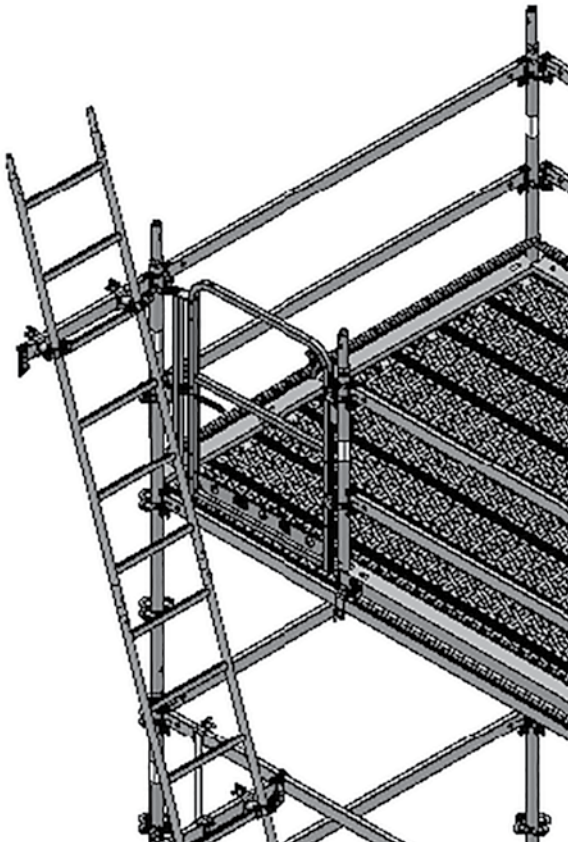


Fig. A2.05

A2 Safety Entry Gate and Ladder Connector - System Components Access Industry

Bottom and Additional Ladder Connectors

The Ladder must be held in position below with the Ladder Connector. Depending on the length, additional connectors may be required.

Assembly

1. Assemble the Ledger-to-Ledger Coupler UHA and Ledger UH.
2. Assemble Ladder Connector Ledger UAM-S (Fig. A2.06)
3. Insert the Ladder Connector Diagonal UAD for bracing purposes and secure wedges.
4. Assemble ladder.

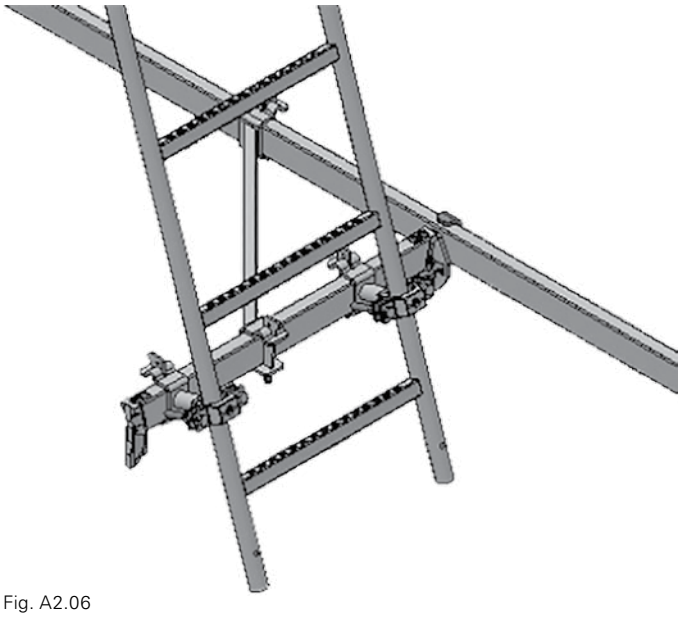


Fig. A2.06

Ladder Connector Ledger UAM-W

Suitable for circular tubes Ø 48.3 mm and rectangular profile 60 x 30 mm of the Ledger UH. (Fig. A2.07)

Assembly

1. Assembly of the Ladder Connector on the Ledger UH as described in Ladder Connector UAM-W.
2. Instead of bolts, the connection for clamping the Ladder has a permanently mounted half-coupler. This is secured by means of a wedge.

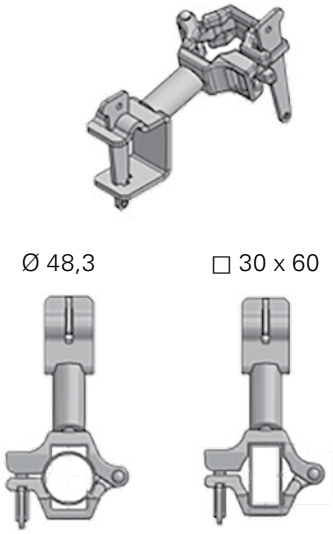


Fig. A2.07

A3 Vertical Ladder UAV - System Component Vertical Ladder UAV

General assembly instructions

Assembly and mounting of the scaffolding according to the available Instructions for Assembly and Use for PERI UP Flex.

The Safety Entry Gate must be installed with personnel in a secure position or personal protective equipment to prevent falling must be used.
(See also Section "Safety Entry Gate")

When assembling, see also the Instructions for Assembly and Use for PERI UP Flex Core Components.

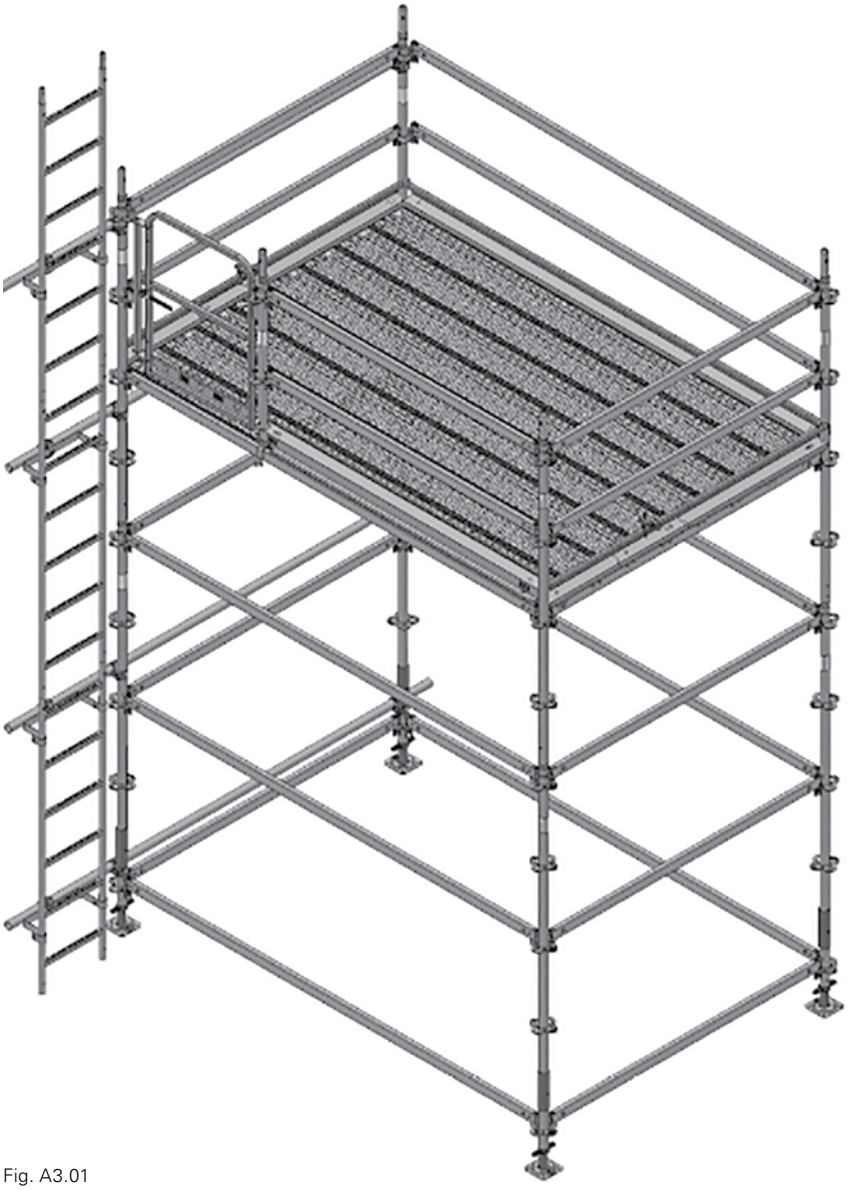


Fig. A3.01

A3 Vertical Ladder UAV - System Component Vertical Ladder UAV

- The first Vertical Ladder UAV must have two Ladder Connectors UAV and open below. Thereby, the lower Connector should be mounted close to the ground. The top Connector is mounted close to the end of the Ladder.
  → The Ladder Connector does not accommodate any vertical forces.
- When extending, each additional Ladder must be held in position using at least one Ladder Connector. The distance between the Ladder Connectors should be between 0.9 m and 1.2 m.
- Ladders should extend approx. 1.0 m above the exit height to the working platform.
- The Ladder may be extended to a maximum height of 10.5 m.

Take into consideration country-specific regulations.

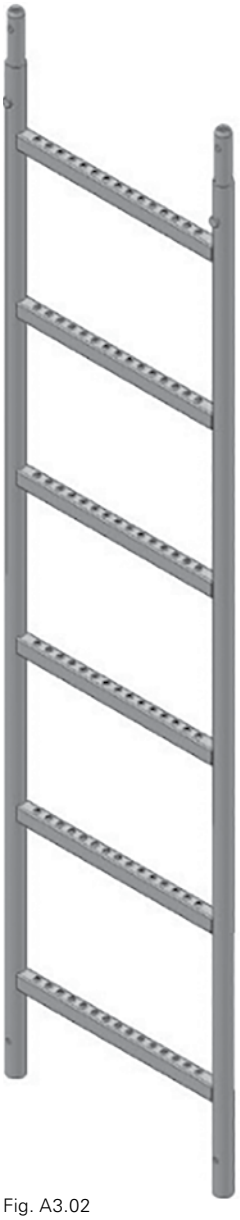


Fig. A3.02

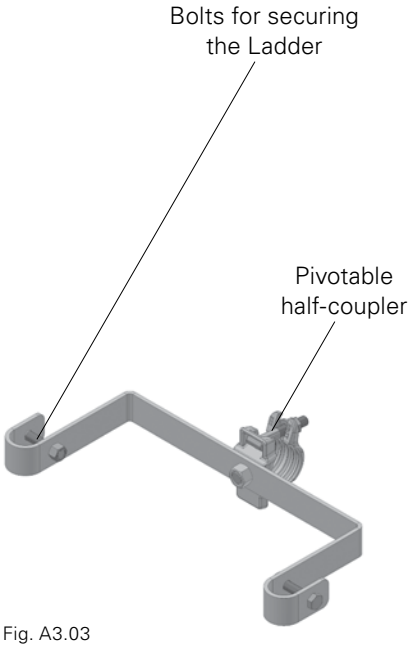


Fig. A3.03

A3 Vertical Ladder UAV - System Component Vertical Ladder UAV

Assembly of the first Ladder

Assembly

1. Attach scaffold tubes with couplers to the scaffolding at the required distance from the Ladder Connectors. (Fig. A3.04)
2. Remove bolts for securing the Ladder from the Ladder Connector.
3. Position the first Ladder on the scaffold tubes.
4. Push the Ladder Connector UAV-C for the bottom connection through the Ladder.
5. Screw the half-coupler of the Ladder Connector onto scaffold tube. (Fig. A3.05)
6. Tighten bolts for securing the Ladder.
7. Mount second Ladder Connector above.

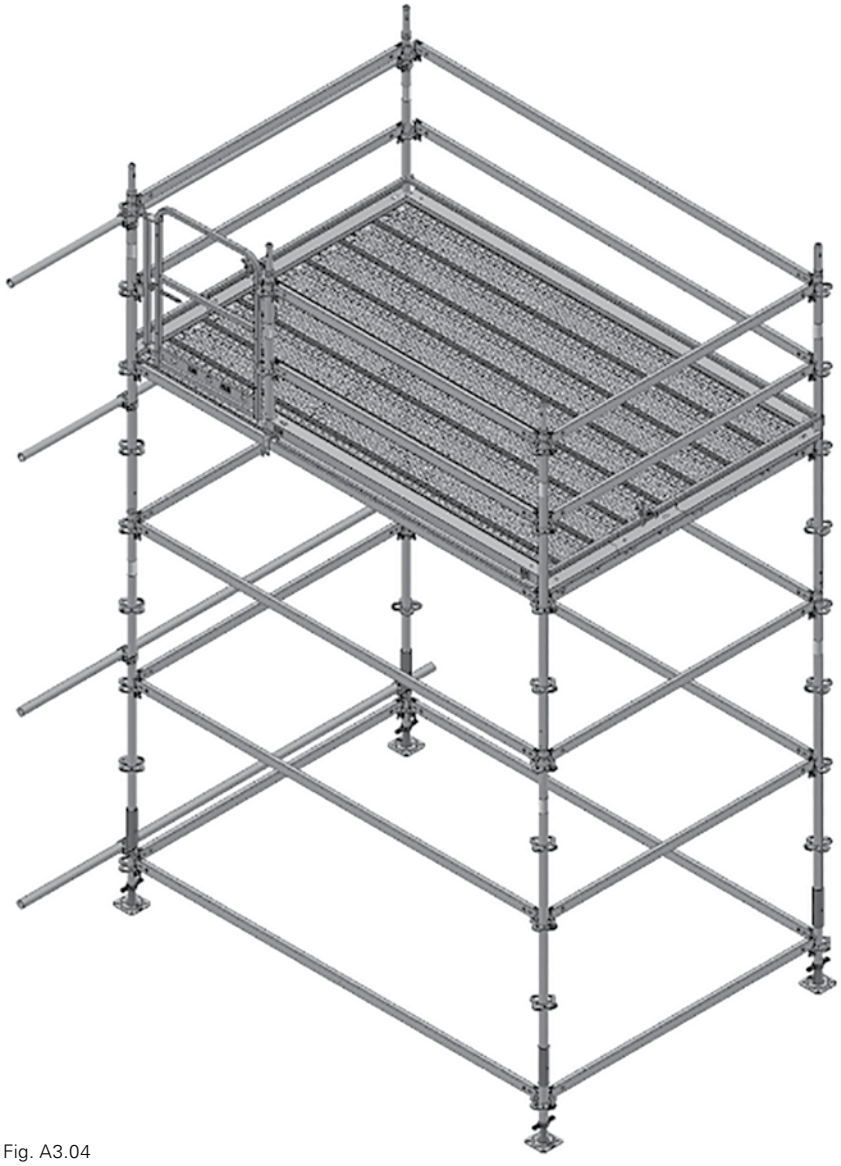


Fig. A3.04

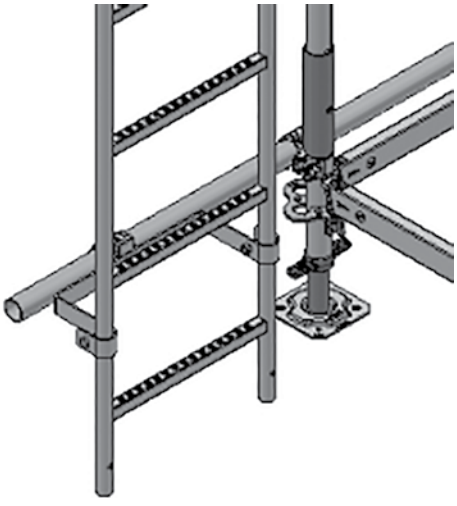


Fig. A3.05

A3 Vertical Ladder UAV - System Component Vertical Ladder UAV

Assembly of additional Ladders

Assembly

1. Depending on the exit height, mount the next Ladder on the spigots of the Ladder that has already been installed.
2. Mount the Ladder Connectors. (Fig. A3.06)

Both inclined as well as vertical Ladders serve to access the platforms. These can be positioned externally or integrated into the platform itself. Thereby, the exit height is as needed and access to the platform usually takes place by means of a Safety Entry Gate. (See Section "Safety Entry Gate")

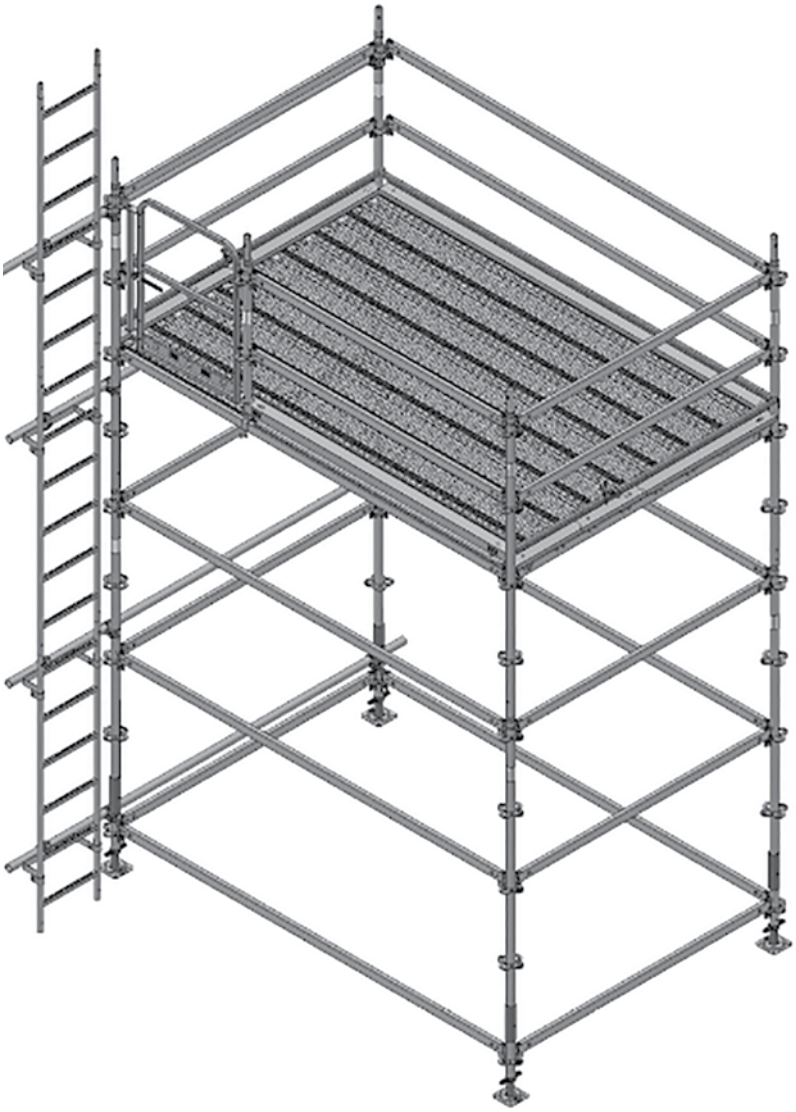


Fig. A3.06

A4 Corner Sheeting UDC 50 - System Component Corner Sheeting UDC 50

Corner Sheeting UDC 50

With the Corner Sheeting, working areas of the scaffolding can be approached extremely closely especially on circular structures.
(Fig. A4.01)

Assembly

1. Position the Corner Sheeting on the Ledger using both brackets and opened wedges.
2. Insert and securely fix the wedges.

(Fig. A4.02)

Assembly and mounting of the scaffolding according to the available Instructions for Assembly and Use for PERI UP Flex.

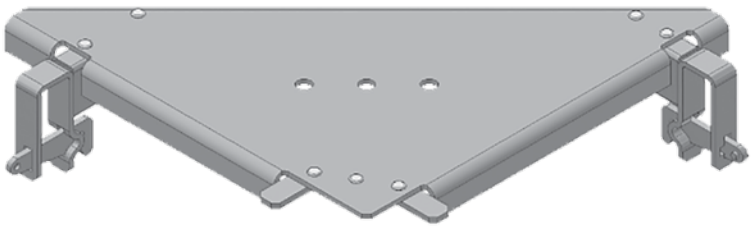


Fig. A4.01

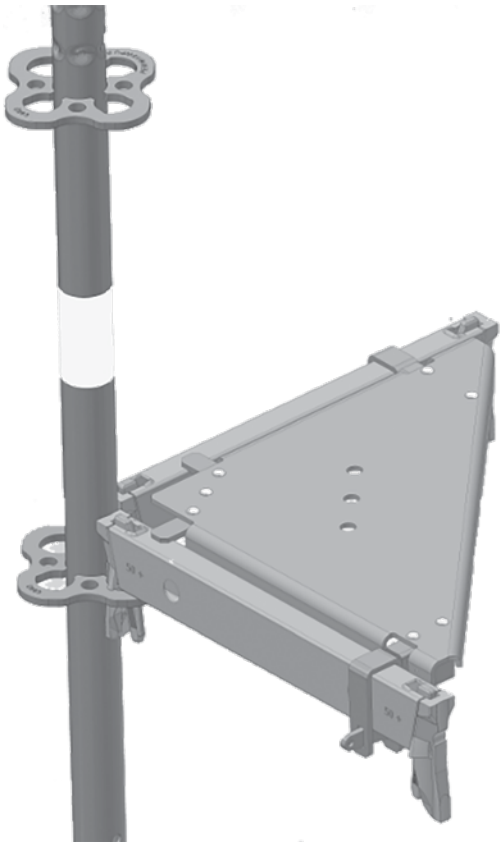


Fig. A4.02

A5 Suspended Scaffold - System Component Suspended Scaffold

Flange Coupler UEF

The component can be used to form scaffold connections which provide a clamp-like enclosure of a steel beam with I-profile. The Flange Coupler can be used on horizontal steel profiles (hanging scaffold) or on vertical profiles (as scaffold anchors).

The use on suspended scaffold is shown here.
The Flange Coupler can be mounted on steel beams with I-profile ranging from 100 to 1000 mm (flange width). Flange thickness ≤ 39 mm.

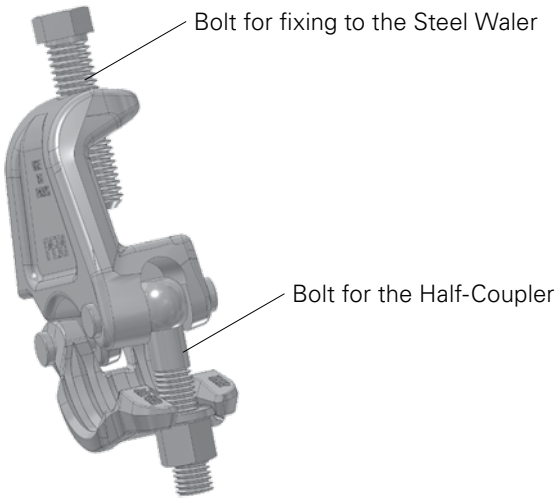


Fig. A5.01

- Assembly and mounting of the suspended scaffold according to the available Instructions for Assembly and Use for PERI UP Flex Suspended Scaffold.
- Flange Coupler in accordance with DIN 74-2, Class B.

Assembly

1. Place two Flange Couplers in alternate positions on a scaffold tube.
2. Slide the Couplers against the steel beam.
3. Tighten the bolts of the half-coupler and the bolts for fixing onto the steel beam.

(Fig. A5.02)

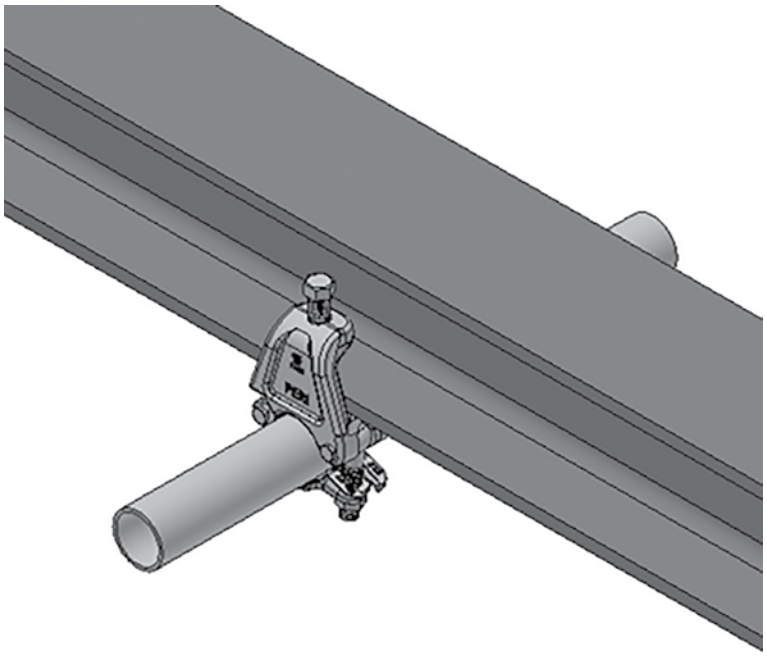


Fig. A5.02

Adapter Hanging Scaffold UEH

Extending the suspended scaffold below the Adapter UEH by means of a Standard UVR or Connector ULT is possible. For tensile splice connections with M10 bolts, take into consideration the permissible values provided in the Instructions for Assembly and Use for the suspended scaffold.

- Adapter and scaffolding are secured against lifting.
- Pay attention to permissible bending of the scaffold tube (see Section "Details on the Scaffold Tube Cross Beam")
- The Adapter may only be mounted between two Flange Couplers.
- max. perm. F = 30 kN. (see Section "Details on the Scaffold Tube Cross Beam")

Assembly on the scaffold tube directly under the steel beam

1. Assembly of the Flange Coupler UEF as described in the Flange Coupler UEF section.
2. Slide the Adapter diagonally onto the scaffold tube with the claws and turn downwards.

(Fig. A5.04)

Assembly on a free scaffold tube or lattice girder

1. Assembly of the Flange Coupler UEF as described in the Flange Coupler UEF section.
2. Assembly of the Adapter UEH as described in the Adapter Hanging Scaffold UEH section.
3. Mount the Adapter turned by 180°. (see Fig. A5.05)
4. Install Standards and Ledgers.

Fig. A5.03

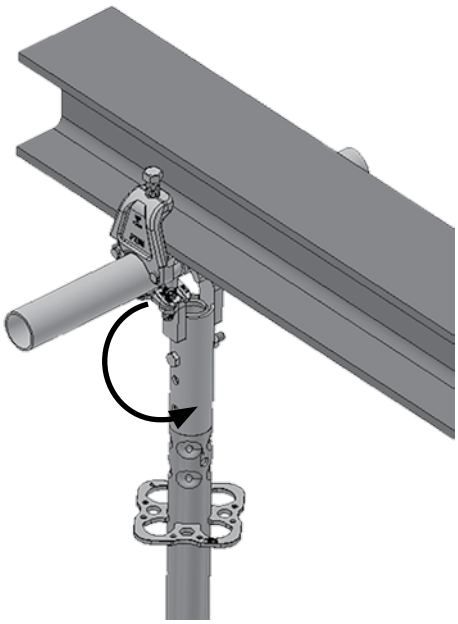


Fig. A5.04

Fig. A5.05

A5 Suspended Scaffold - System Component Suspended Scaffold

Assembly of the Lattice Girder
If it is not possible to continue assembly in the system grid or if a larger span is to be realised, then Lattice Girders Steel ULS or Aluminium ULA can be used. Depending on the load, Lattice Girders with a height of 50 cm or 70 cm can be used.

- See also Instructions for Assembly and Use for PERI UP Easy
- Brace the Lattice Girders.

Assembly
1. Assembly of the Flange Coupler UEF as described in the Flange Coupler UEF section.
2. Assembly of the Adapter UEH as described in the Adapter Hanging Scaffold UEH section.
3. Insert the Spigot ULT in the Adapter and secure with bolt M10.
4. Place the Starter Tube ULB in a turned position on the Spigot ULT and secure.
5. Insert Lattice Girder and connect using a Standard Coupler.

(Fig. A5.06)

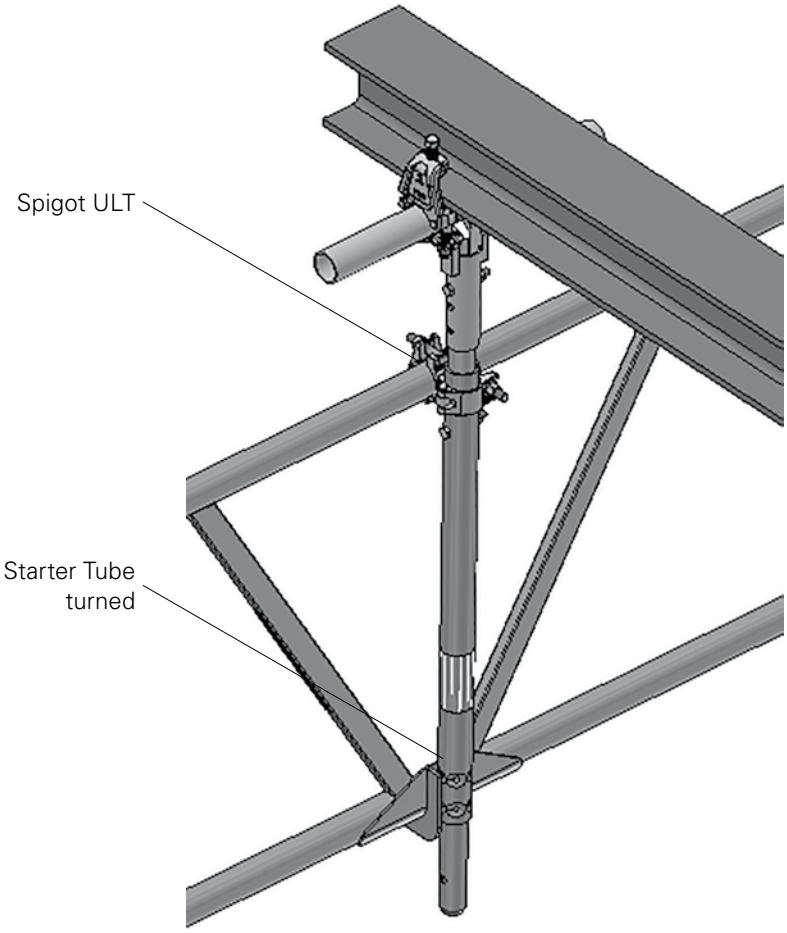


Fig. A5.06

Information on the Scaffold Tube Cross Beam

The following loads apply only to the central arrangement of the suspended scaffold between the Flange Couplers. (Fig. A5.07 + Table A5.01)

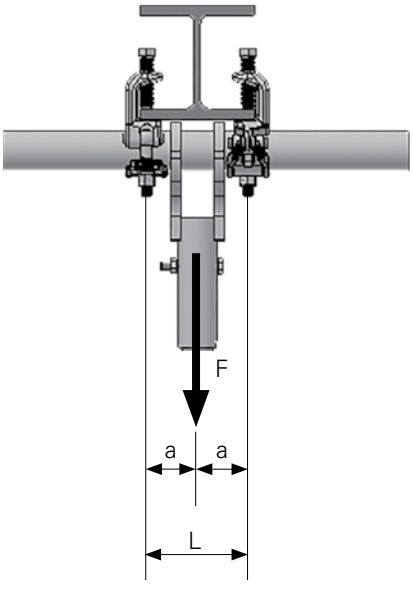


Fig. A5.07

Scaffold Tube Cross Beam 48.3 x 3.2 - S235/320	
Span L [mm]	**perm. F [kN]**
320.0	16.9
300.0	18.2
280.0	19.6
260.0	21.3
240.0	23.3
220.0	25.7
200.0	28.6
191.4	30.0
80.0	30.0

Table A5.01

A5 Suspended Scaffold - System Component Suspended Scaffold

Assembly as a vertical coupler
The following loads apply only to the central arrangement of the suspended scaffold between the Flange Couplers.

- Vertical slip force: max. perm. F = 3.4 kN
- Coupler in accordance with DIN 74-2, Class B.

Assembly
1. Place two Flange Couplers in alternate positions on a scaffold tube.
2. Slide the Couplers against the steel beam.
3. Tighten the bolts of the half-coupler and the bolts for fixing onto the steel beam.

(Fig. A5.08 + A5.09)

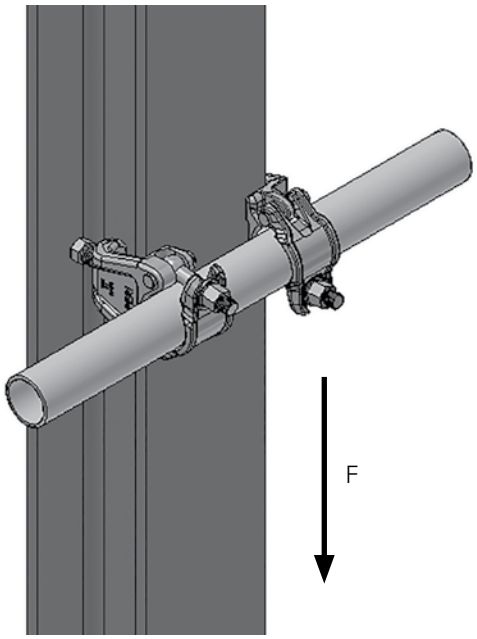


Fig. A5.08

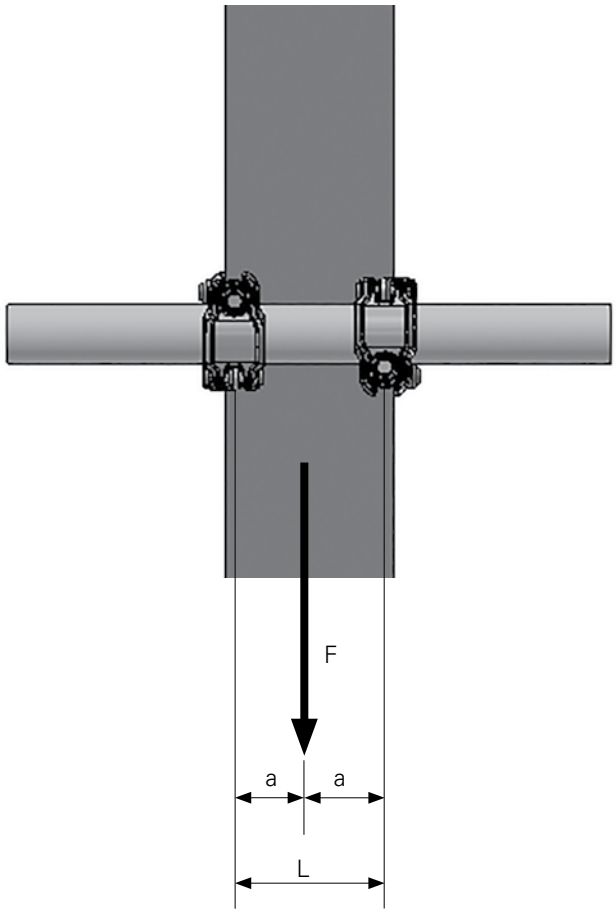


Fig. A5.09

A6 Longitudinal Compensation and Corner Sheeting – System Component Compensation, Deck and Toeboard

Toeboard Compensation UPY-L

With the Toeboard Compensation UPY-L and two Toeboards UPY, a continuously adjustable Toeboard can be mounted lengthwise. (Fig. A6.01)

1. Slide the Toeboard Compensation UPY-L onto the first Toeboard UPY (here UPY 50).
2. Slide the second Toeboard UPY - ending in an overlapping position - between the Toeboard UPY and Toeboard Compensation UPY-L.
3. Pull the Compensation to the required length between the Standards of the compensation bay.
4. Centrally align the Toeboard Compensation UPY-L on the overlapping Toeboard UPY.
5. Tighten the Wingnut.

(Fig. A6.02)

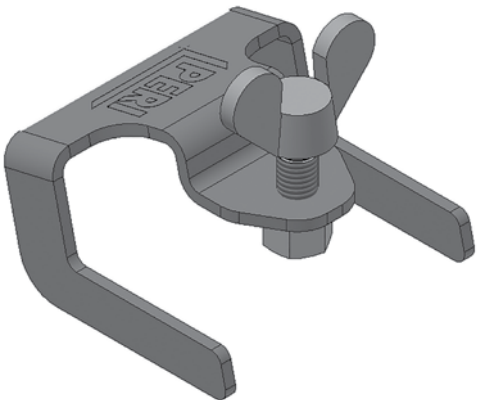


Fig. A6.01

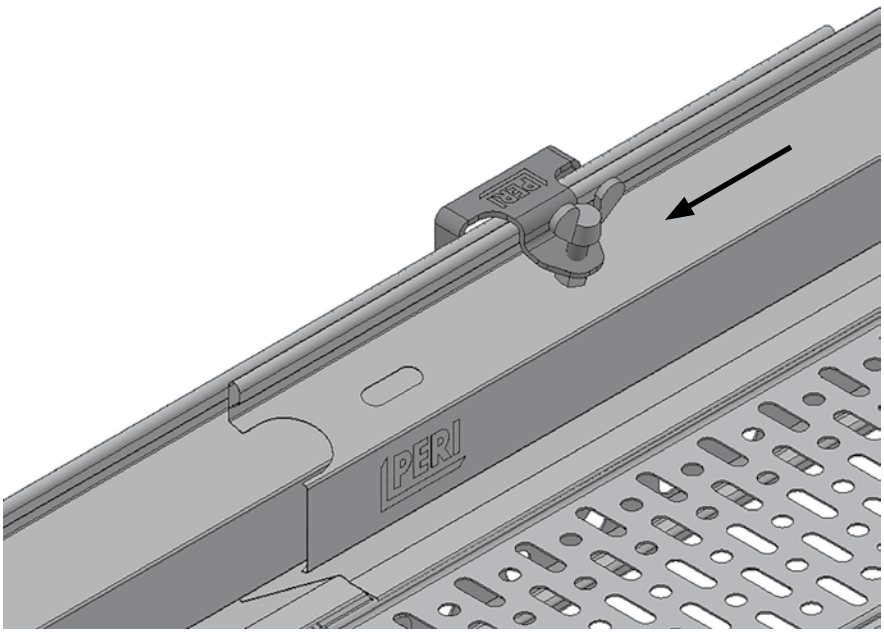


Fig. A6.02

A7 End Guardrail in Advance – System Component End Protection

End Protection

In future, the End Guardrail in Advance UPA-2 can also be used as an Advanced Guardrail System (AGS). The End Guardrail EPF can be mounted from a secured position and without the use of personal protection equipment to prevent falling from a height (PPE). With the introduction of the new TRBS 2121, this is now state-of-the-art and legally required. (Fig. A5.01)

The End Guardrail in Advance UPA-2 thus fulfills a double function. It can be used as an End Guardrail in Advance (see Instructions for Assembly and Use for PERI UP Easy) or as AGS.

The End Guardrail in Advance UPA-2 can be used with both the PERI UP Easy and PERI UP Flex systems. When used with the PERI UP Flex system, the Ledger UH can be mounted instead of the End Guardrail EPF.

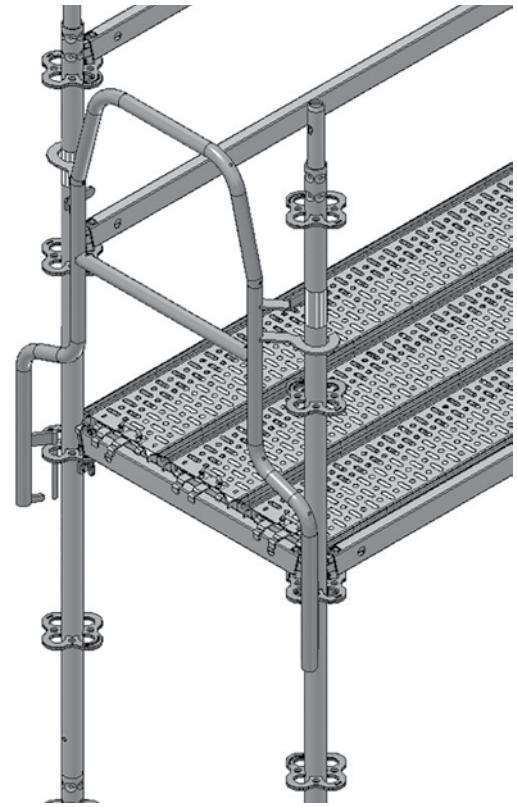


Fig. A7.01

Assembly and mounting of the facade scaffolding according to the available Instructions for Assembly and Use for PERI UP Easy and PERI UP Flex.

End Guardrail UPA-2 in Advance in the PERI UP Flex System

1. Installation of the End Guardrail in Advance UPA-2 takes place from a secure position for the next scaffolding bay. (Fig. A7.01)
   → See Instructions for Assembly and Use for PERI UP Easy, Section A3.
2. Additional installation of the Ledger UH. (Fig. A7.02)
   → See Instructions for Assembly and Use for PERI UP Flex Core Components
3. The End Guardrail in Advance UPA-2 can be dismantled again and used for the next scaffolding bay.

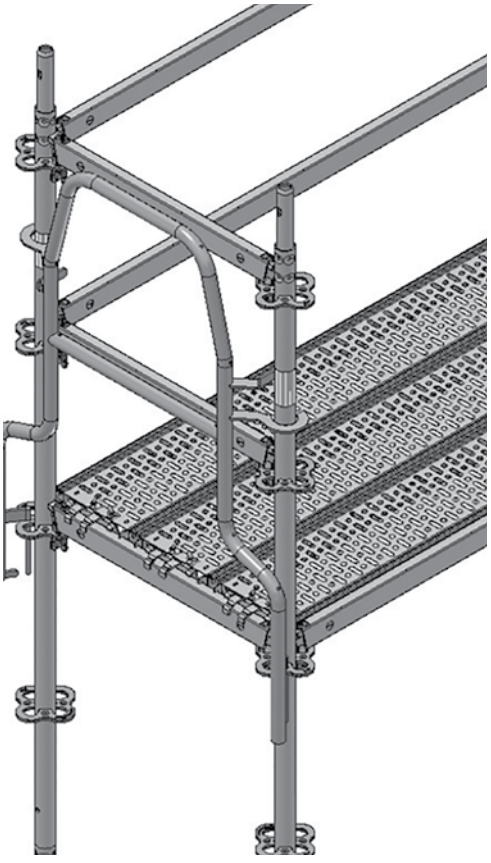


Fig. A7.02

Assembly and mounting of the facade scaffolding according to the available Instructions for Assembly and Use for PERI UP Easy and PERI UP Flex.

Poly Cover Tube UPC-T

The component is an end piece for tube ends with d = 48.3. It provides protection against the penetration of dirt or water and also serves to protect against injuries (warning provided by the signal colour). (Fig. A8.01)

Fig. A8.01

1. Place the Poly Cover Tube UPC-T on the end of a tube with d = 48.3 mm.
2. Firmly press the Poly Cover Tube UPC-T onto the tube. (Fig. A8.02)

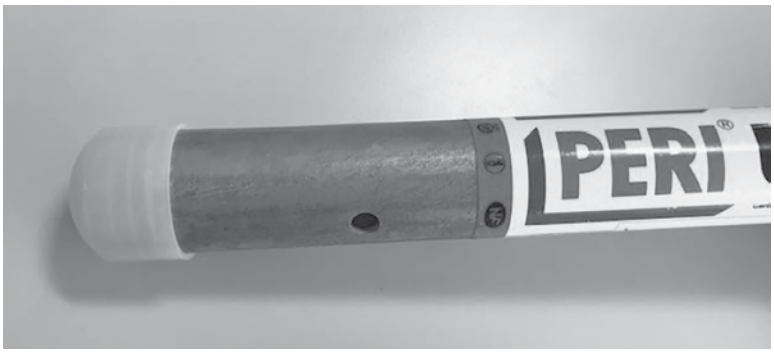


Fig. A8.02

Poly Cover Rosette UPC-R

The component provides special protection around ledger-free rosettes. (Fig. A8.03)

Fig. A8.03

1. Position the Poly Cover Rosette UPC-R with one half on the rosette.
2. Close the second half.
   → The clip fastener engages
   → Additional protection against opening with cable ties possible

(Fig. A8.04)

Fig. A8.04

Poly Cover Coupling UPC-C

The component provides special protection around the rosette with mounted ledgers, or bolted tube/coupler connections. (Fig. A8.05)

1. Clip the Poly Cover Coupling UPC-C onto the Standard d = 48.3 mm.
2. If the Ledgers are arranged longitudinally, attach Poly Cover UPC-C on both sides. (Fig. A8.06).
3. If the Ledgers are arranged around a 90° corner, the Poly Cover UPC-C can also be mounted in an overlapping position. (Fig. A8.07)

Additional protection against removal is possible with cable ties

Fig. A8.05

Fig. A8.06

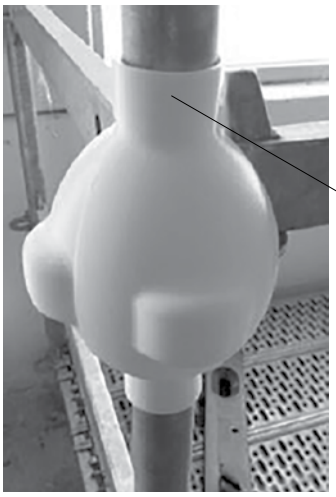


Fig. A8.07

Spindle Lining UES

The Spindle Lining UES serves to protect the support surface as well as to reduce slippage on firm surfaces. (Fig. A8.08)
The component can transfer compression forces of 50 kN. Static proof for transferring forces into the ground as well as the proof of slip resistance is to be carried out separately.

1. Place the base of the Spindle on a flat and load-bearing surface.
2. Centrally position the Spindle.
(Fig. A8.09)

Enhanced visibility through reflectors.

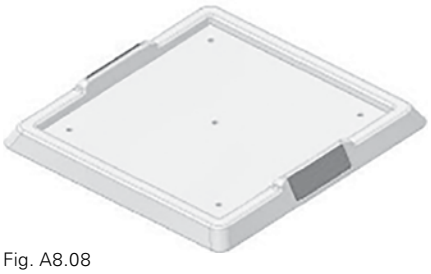
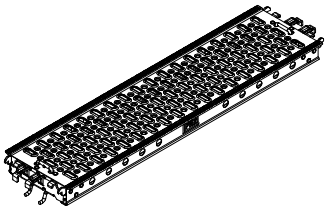
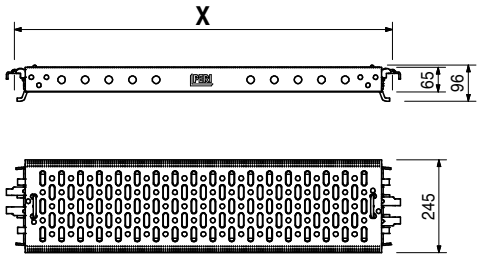


Fig. A8.08

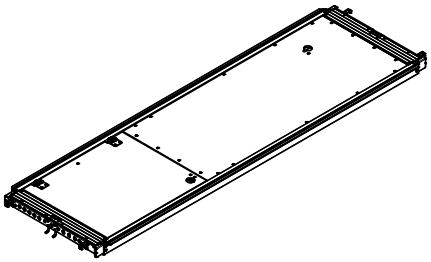
Fig. A8.09

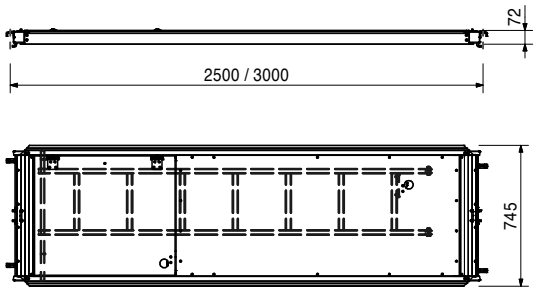
Item no.	Weight kg	Steel Decks UDG-2	X	perm. p [kN/m²]
132479	3.340	**Steel Deck UDG-2 25 x 50**	500	6.0
132483	4.100	**Steel Deck UDG-2 25 x 67**	670	6.0
132488	4.470	**Steel Deck UDG-2 25 x 75**	750	6.0
132492	5.590	**Steel Deck UDG-2 25 x 100**	1000	6.0
132502	6.730	**Steel Deck UDG-2 25 x 125**	1250	6.0
132505	7.870	**Steel Deck UDG-2 25 x 150**	1500	6.0
132508	10.500	**Steel Deck UDG-2 25 x 200**	2000	6.0
132511	12.900	**Steel Deck UDG-2 25 x 250**	2500	3.0
132515	15.800	**Steel Deck UDG-2 25 x 300**	3000	3.0



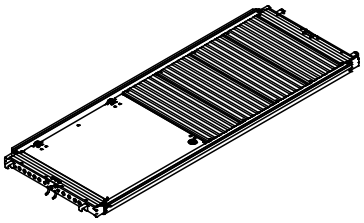


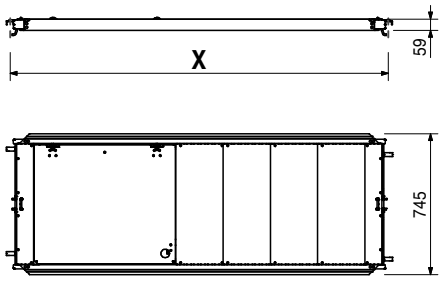
		Ladder Decks UAW 75 L	Note
130334	25.200	**Ladder Deck UAW 75 x 250-L**	Load class 3, 2.0 kN/m²
133309	29.000	**Ladder Deck UAW 75 x 300-L**	
		Installation on Crossbeam or Ledger UH.	



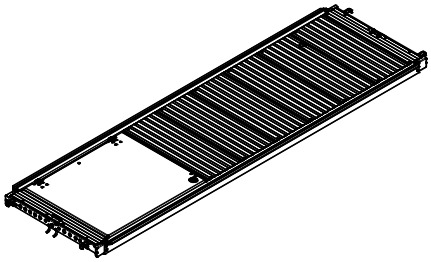


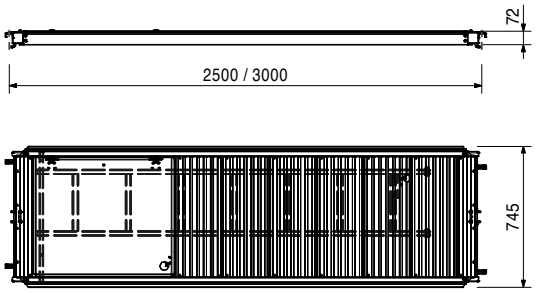
		Access Decks UAA 75	X
132993	15.700	**Access Deck UAA 75 x 150**	1500
132990	18.900	**Access Deck UAA 75 x 200**	2000



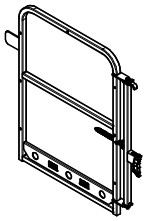


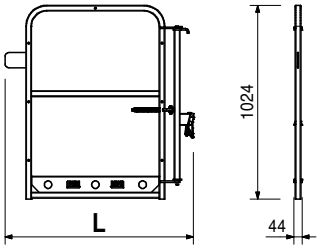
Item no.	Weight kg	
		Ladder Decks 75 L
133314	26.300	**Ladder Deck 75 x 250-L**
133315	29.600	**Ladder Deck 75 x 300-L**



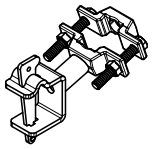


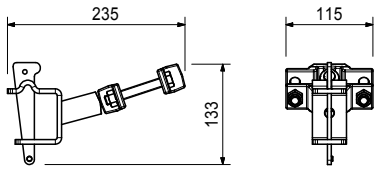
			L
		Safety Entry Gates UPS	
125672	9.580	**Safety Entry Gate UPS 75**	747
126675	11.200	**Safety Entry Gate UPS 100**	996



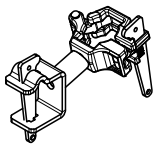


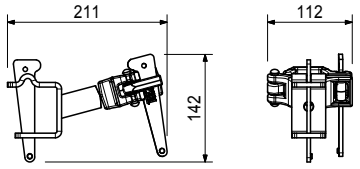
134520	1.670	**Ladder Connector Ledger UAM-S** Used for fixing ladders up to a maximum beam size of 25 x 80 mm or round tubes up to Ø = 48.3 mm.



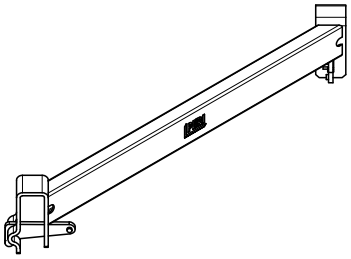


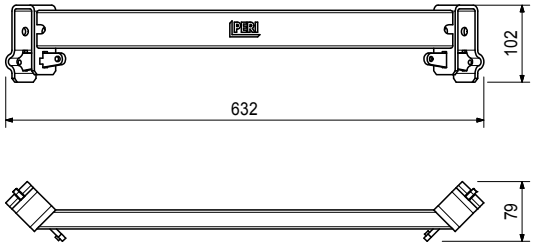
134527	1.670	**Ladder Connector Ledger UAM-W** Used for fixing ladders up to a maximum beam size of 30 x 60 mm.



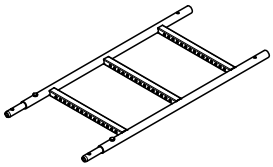


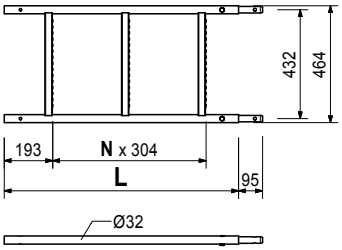
Item no.	Weight kg			
134512	1.990	**Ladder Connector Diagonal UAD**		



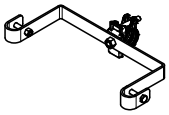


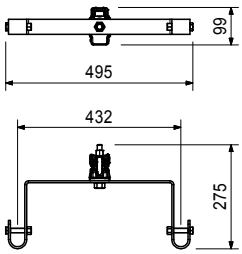
			L	N
		Vertical Ladders UAV 43		
133310	4.652	**Vertical Ladder UAV 43 x 91**	930	2
133311	8.751	**Vertical Ladder UAV 43 x 181**	1828	5



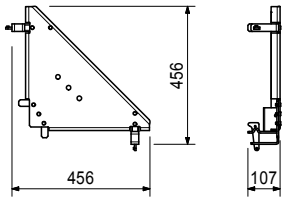


133312	3.620	**Ladder Connector UAV 43-C**

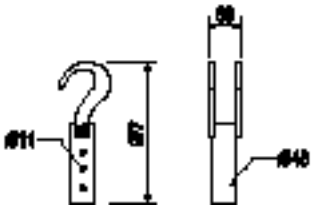




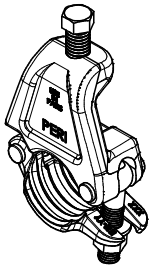
134537	2.710	**Corner Sheeting UDC 50**

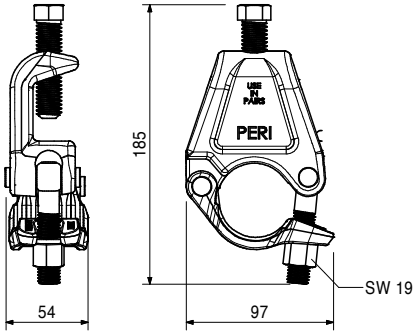


Item no.	Weight kg	
134108	1.490	**Adapter Hanging Scaffold UEH**

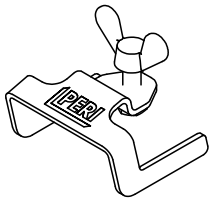


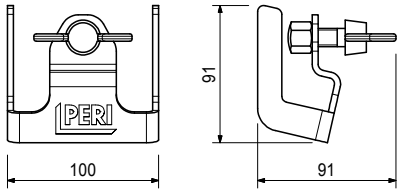
134204	1.500	**Flange Coupler UEF**



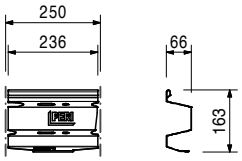


134542	0.606	**Toeboard Compensation UPY-L** Connecting component for connecting 2 x Toeboard UPY.





132592	0.415	**Toeboard Steel UPY 25**

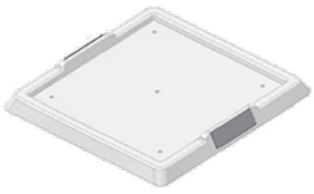


Item no.	Weight kg	
133907	0.015	**Poly Cover Tube UPC-T**

134176	0.098	**Poly Cover Rosette UPC-R**

134175	0.065	**Poly Cover Coupling UPC-C**

134177	0.197	**Spindle Linng UES**

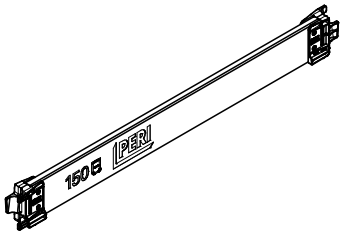


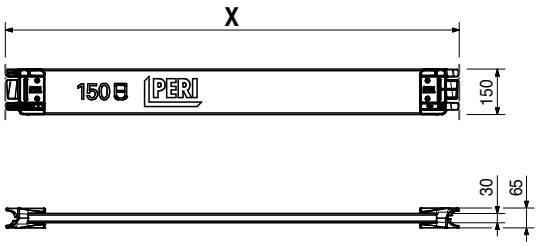
Item no.	Weight kg		
		Toeboard Woods UPF - C (individual)	**X**
132555	1.180	**Toeboard Wood UPF 50-C**	500
132556	1.550	**Toeboard Wood UPF 67-C**	670
132557	1.720	**Toeboard Wood UPF 75-C**	750
132558	2.250	**Toeboard Wood UPF 100-C**	1000
132559	3.320	**Toeboard Wood UPF 150-C**	1500
132560	4.390	**Toeboard Wood UPF 200-C**	2000
132561	5.460	**Toeboard Wood UPF 250-C**	2500
132562	6.520	**Toeboard Wood UPF 300-C**	3000

Individual marking
With 500: Only length + Ü-Identification Marking
With 670: Only length + Ü-Identification Marking
With 750: Calibrated customer imprint
With 1000: Calibrated customer imprint
With 1500: Customer imprint up to max. 850 mm
With 2000: Customer imprint up to max. 850 mm
With 2500: Customer imprint up to max. 850 mm
With 3000: Customer imprint up to max. 850 mm

Note
Individual design of toeboards in colouring and imprint possible on request.

RAL-no.	Designation	Font colour
3000	Fire red	Black
2008	Light orange	Black
1021	Rape yellow (standard)	Black
6018	Yellow-green	Black
6024	Traffic green	Black
5012	Light blue	Black
5010	Gentian blue	White
4005	Blue-purple	Black





The optimal System for every Project and every Requirement

Wall Formwork

Column Formwork

Slab Formwork

Climbing Systems

Bridge Formwork

Tunnel Formwork

Shoring Systems

Construction Scaffold

Facade Scaffold

Industrial Scaffold

Access

Protection Scaffold

Safety Systems

System-Independent Accessories

Services

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