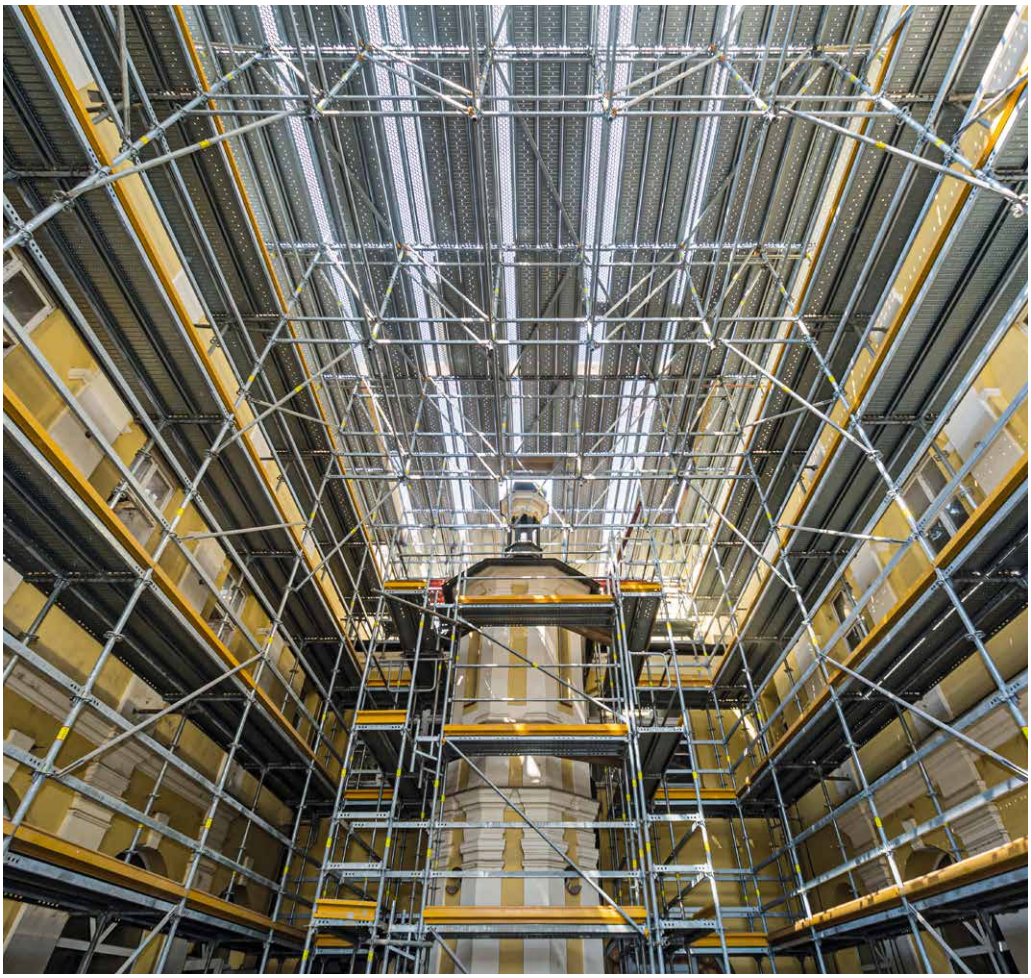
Bridging for a wide range of applications

Solutions from the Scaffolding and Engineering kit

Product Brochure



Content

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VARIOKIT Engineering Construction Kit

Important notes

All current regulations and guidelines applicable in countries where our products are used must be observed.

The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered conclusive or final. These are subject to the risk assessment carried out by the contractor.

In addition, the computer graphics used are to be regarded as system representations. To facilitate understanding, these and the detailed illustrations shown have been partially reduced to certain aspects. The safety equipments that are not shown in these detailed descriptions must nevertheless be available. The systems or items shown might not be available in every country.

Safety instructions and load specifications are to be strictly observed at all times. Separate structural calculations are required for any deviations from the standard design data.

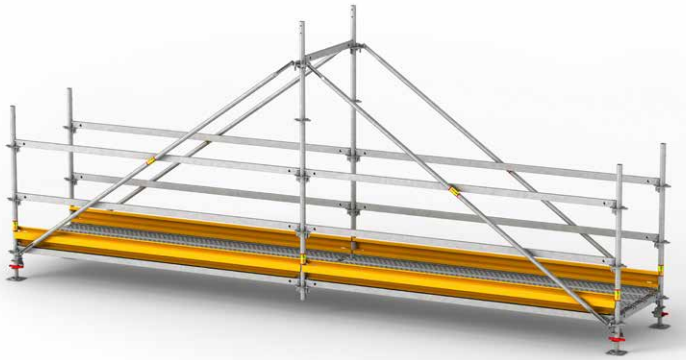
The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.

PERI UP

Bridgings from the Scaffolding Kit

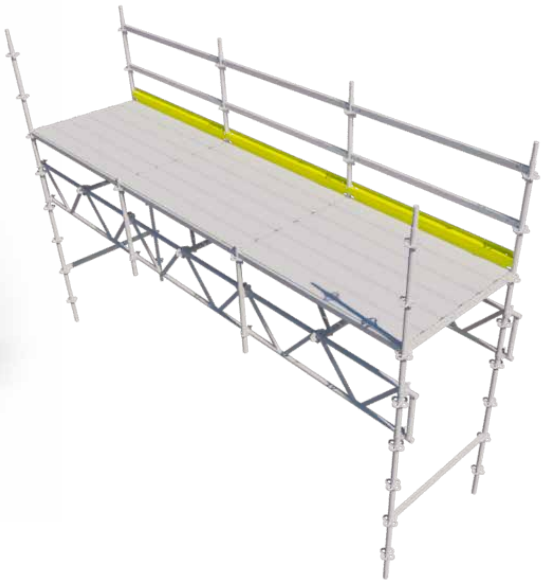
Core components

The simple construction from core components of the Scaffolding Kit. For short bridgings with loads in the area of classic working scaffolds.



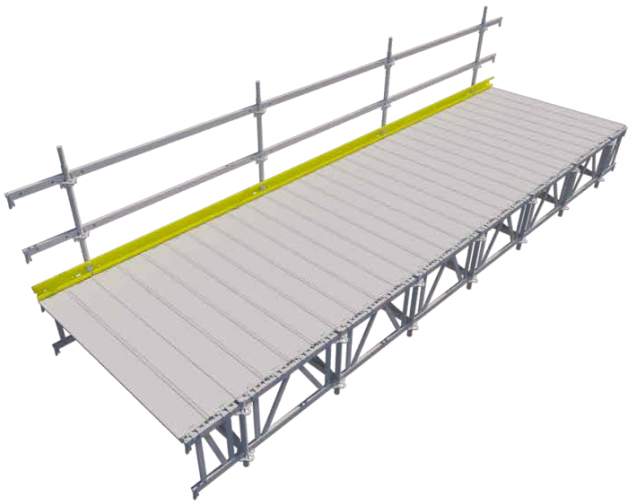
Formwork girder ULS/ULA

The system-independent formwork girder for standard applications. The common solution from the scaffolding sector for a wide range of possible solutions.



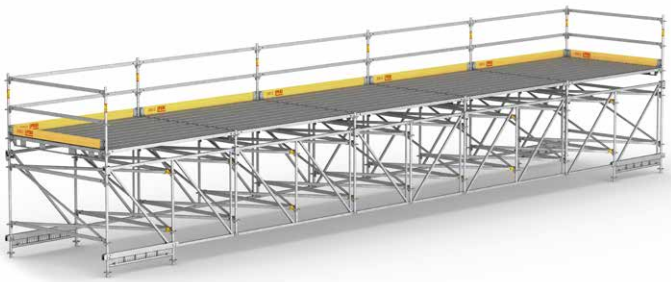
Formwork Girder ULS Flex

The flexible formwork girder made of individual components with integrated scaffolding nodes and ledger heads that allow a seamless, grid-compliant connection with the PERI UP core components and thus offer a high degree of flexibility.



Lattice Girder LGS

The load-bearing truss system for use as a weather protection roof or as a working platform. Can be designed as a fixed or mobile system by means of two different supports.



VARIOKIT

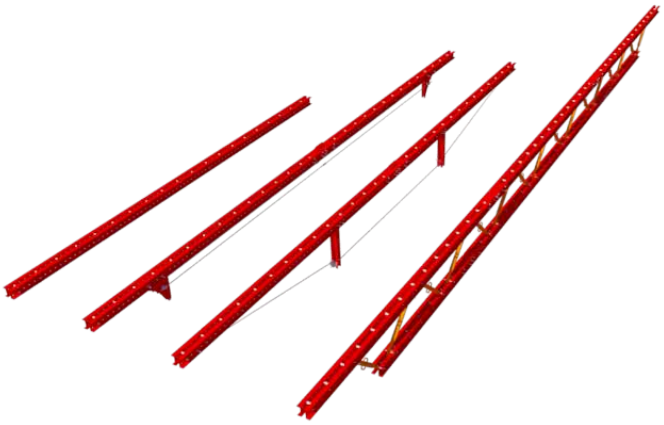
Bridgings from the Engineering Construction Kit

Simple – Underbraced – Truss

The lightweight steel waler for a wide range of applications.

Simple – Flat underbraced – Underbraced – Truss

The load-bearing climbing rail for use under high loadings.



Steel Waler SRU

Simple – The steel waler is used for light bridgings, as a load-distributing support and for assembly on a VARIOKIT bridging.

Underbraced – The steel waler with DW 15 tie rods is a light construction for medium loads.

Truss – The lightweight truss made of steel walers is a load-bearing truss for loads in the upper range.

Climbing Rail RCS

Simple – The climbing rail is used for moderate requirements with low component height.

Flat underbraced – The climbing rail underbraced with two tie rods offers a flat possibility to increase the load-bearing capacity of the individual rail.

Underbraced – The climbing rail is underbraced with tie rods via kicker braces to increase the load-bearing capacity and reduce deflection.

Truss – The truss made of climbing rails is used for very high demands on the bridging solution.

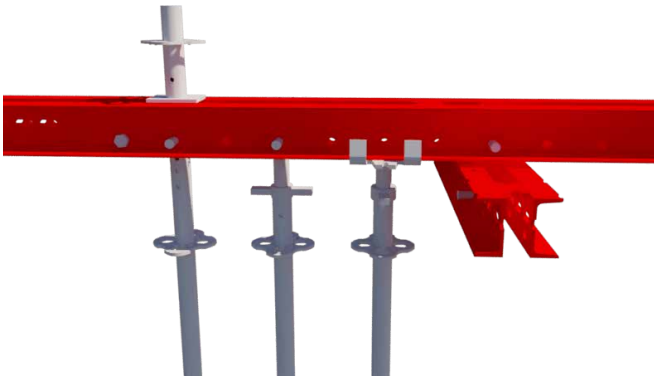
The VARIOKIT Engineering Construction Kit

VARIOKIT is a system with countless possibilities. It is built on steel walers and climbing rails, both of which consist of a double U-section. Connecting components allow easy changes of direction and thus a high degree of flexibility. The connections are made with fitting pins and therefore do not have any couplings. Due to a system dimension of 12.5 cm, the VARIOKIT Engineering Construction Kit is compatible with the PERI UP Scaffolding Kit, which is based on the system dimension of 25 or 50 cm.

Application diversity

Support, assembly, horizontal bracing

Support options



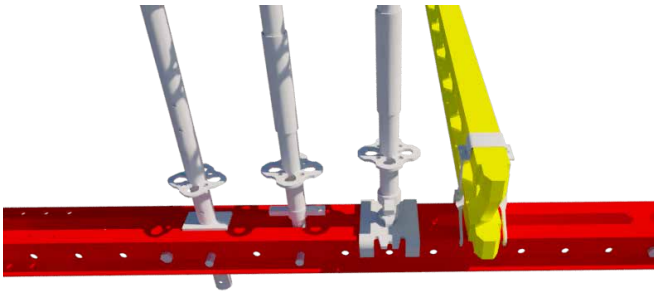
Base Standard VARIOKIT UVA
This can be placed on a standard and enables easy further upward construction in the grid.

Spindle Head SRU
The spindle is inserted into a top standard and the steel waler or climbing rail is connected to the spindle with a bolt

Pivoting Head Spindle
The spindle is inserted into a top standard. The steel waler is placed on the spindle head and serves as a movable support.

Steel Waler SRU
Steel walers are connected with the VARIOKIT Cross Connector and serve as load distribution

Assembly options



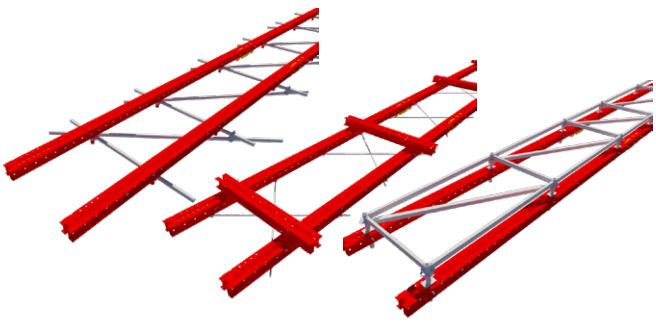
Base Standard VARIOKIT UVA
The connector URE 4/42 enables further upward construction with PERI UP. A suspended scaffold can be suspended downwards

Spindle Head SRU
Can be used as a base spindle and, with a base standard, can enable further construction with PERI UP. The spindle head is secured with a bolt

Pivoting Head Spindle
Can be used as a base spindle and, with a base standard, enables further construction with PERI UP

Formwork Girder GT 24
The formwork girder can be placed on top to lay slab formwork.

Horizontal bracing options

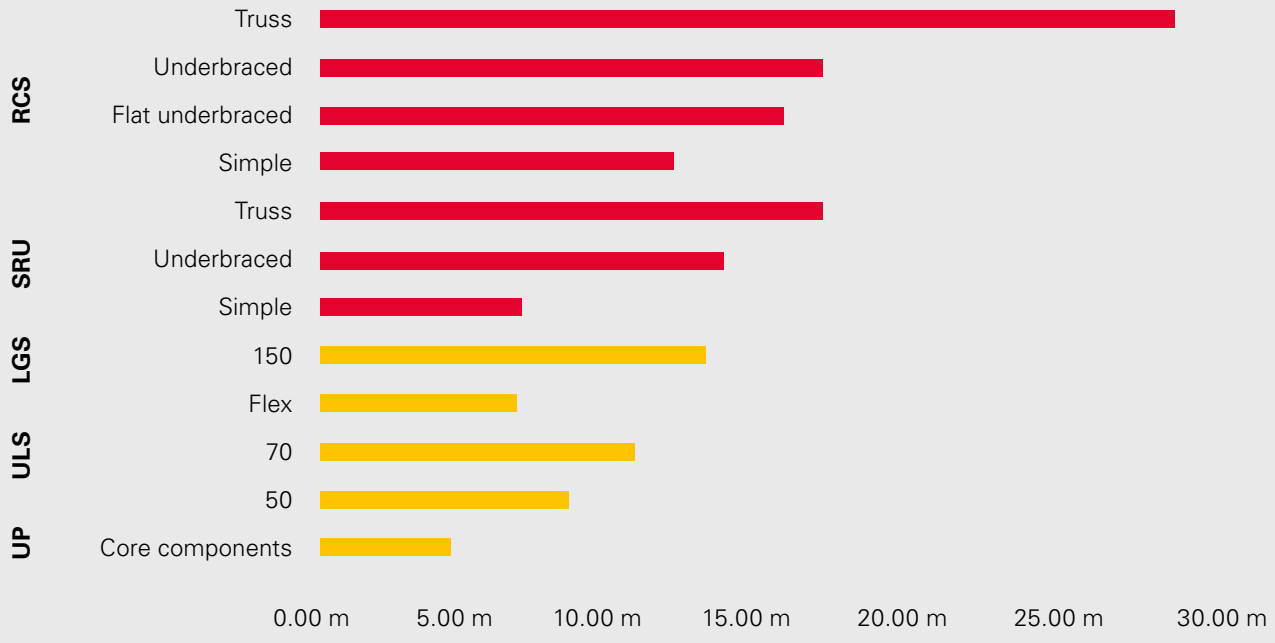


Scaffolding tubes, couplings
Scaffolding tubes and couplings can be used to flexibly connect and brace the individual girders

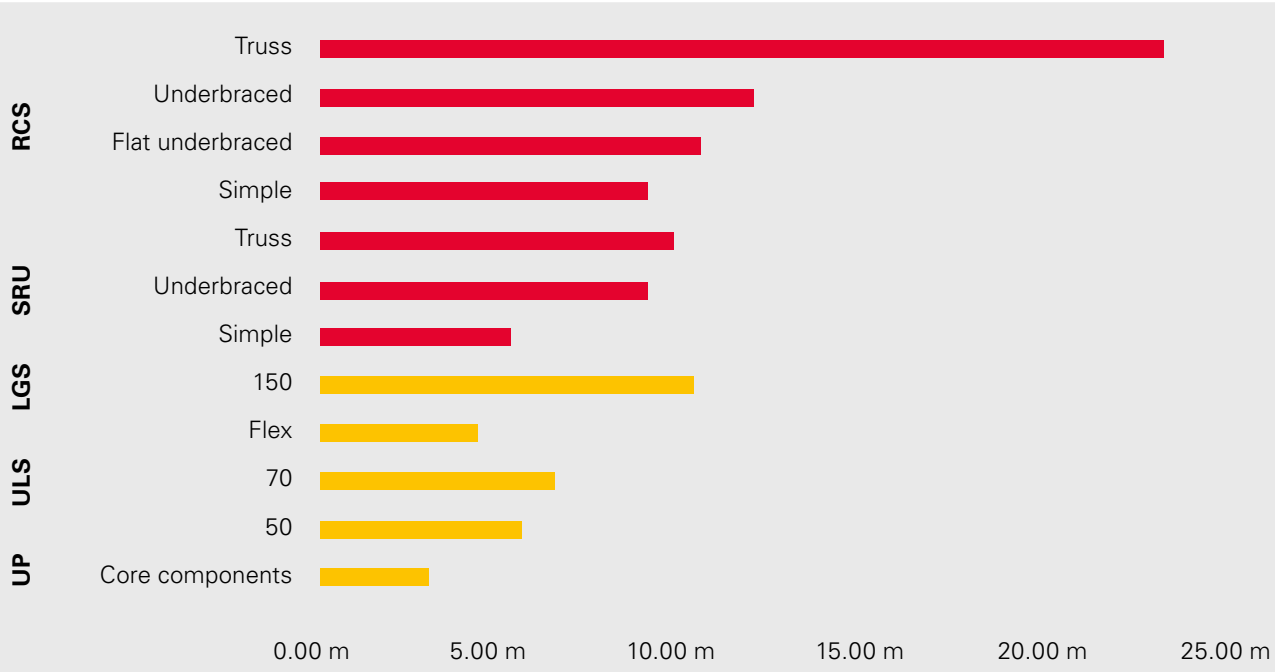
Tie Rods DW 15, Steel Walers SRU
If individual girders are connected in a pressure-resistant manner with steel walers, bracing made of tie rods can be used for bracing

Base Standard VARIOKIT UVA, PERI UP
For low stresses, horizontal bracing can be provided by assembling with PERI UP core components

Load-bearing capacity
Span at **2.0 kN**/m (LK3 at **1 m** influence width)



Load-bearing capacity
Span at **4.5 kN**/m (LK5 at **1 m** influence width)



The spans and loads shown are reference values and must be checked in the current instructions for assembly and use, design tables or static calculations before implementation.

PERI UP Scaffolding Kit

Light bridgings from core components

Product details
The PERI UP Scaffolding Kit is a system for almost all applications, from classic facade to complex industrial scaffolding. Scaffolding nodes at 25 cm or 50 cm intervals on the standard and a horizontal system dimension of 25 cm allow a wide range of combinations.

PERI UP Trench Bridges can be used as standard bridging. Freely configured bridgings must be statically verified. The values of the PERI UP design tables are used for this purpose.

Customer benefit
Thanks to the 1-system logic, the PERI UP Scaffolding Kit is an economical system. Intelligent component details such as the automatic connection technology (Gravity Lock) make time-consuming coupling work superfluous in many assembly situations. The bridging can be assembled quickly and safely even at great heights.

Application possibilities
Light bridging for use in facade and room scaffolding

- Working platforms
- Load platforms
- Protection roofs
- Trench bridges
- Cantilevers

Components
Standard system components such as:

- Standards
- Horizontal ledger
- Node braces

Forum Drei Höfe,
Amberg

Project data
In the historic old town of Amberg in Germany's Upper Palatinate, the site of the former Kaufhaus-Forum department store with its existing buildings was converted and redeveloped. The result is the attractive "Drei Höfe" quarter featuring a hotel, gastronomy, restaurants, retail outlets and apartments.

The core of the ensemble consists of two listed buildings with facades that have been largely preserved: a four-storey baroque building with an inner courtyard that is more than three hundred years old and, directly adjacent, a building from the 19th century with a classical appearance.

Requirements
Work on the roof and facade required a working and safety scaffold around the entire building complex. To compensate for the limited space, the working platform was also used as a second storage area for light material. This working platform spanned the entire inner courtyard and thus had to freely bridge 6.75 m.

PERI solution
The entire baroque courtyard was not only provided with facade scaffolding, but also a scaffolding bridging with a working and storage platform at a height of 10 m – all made of system components. For this purpose, wall distances and bay divisions were planned in such a way that the 3D scaffolding could be built with a maximum load class 4 of 3.0 kN/m² over the entire area.

Florian Weiß and Helmut Seitz
Site manager and owner

"[...]The versatile range of possible applications retains the necessary freedom for creativity and the development of individual, safe and economical solutions. [...] The cooperation with PERI is exemplary and enjoyable in every respect. [...] In short:
We are very happy with our decision."

Formwork Girder ULS

The classic solution in scaffolding construction

Product details
The system-independent formwork girder is available with system heights of 50 cm and 70 cm as well as in lengths of 4.25 m, 5.25 m and 6.25 m. The formwork girder has an upper and lower chord made of a scaffolding tube with an outer diameter of 48.3 mm. The struts are arranged in a system dimension of 50 cm. With a connector, formwork girders can be positioned in lengthways rows. The connections to the formwork girder are made with couplings or clamping rosettes. Bracing is provided by scaffolding tubes and couplings or clamping rosettes as well as PERI UP core components on the compression-loaded chord.

User advantage
The system-independent formwork girder is a familiar and therefore easy-to-handle component for scaffolders. The clamping rosette also offers the advantage of using system components for bracing.

The system freedom also allows bridgings without system dimensions if required. The formwork girder can also be used, for example, to reinforce standards that are overloaded by shear force.

Application possibilities
Light bridging for use in the facade scaffold

- Working platforms
- Bracing of the standards
- Scaffold bridges for power cables
- Cantilevers

Components

- Formwork girder
- Connector
- Starter tube
- Standard coupler
- Clamping rosette
- Horizontal ledger
- Ledger brace
- Decks

Heiligenborn Viaduct,
Waldheim

Project data
The historic Heiligenborn railway viaduct near Waldheim is 180 m long, 40 m tall and 167 years old.
The masonry of the arches and the bridge piers made of natural stone and bricks have undergone extensive repairs, and at the same time the track supporting structure and the drainage facilities were restored above. Train traffic between Riesa and Chemnitz made use of a single track during the construction work, which took more than a year.

Requirements
The extensive restoration work on the track structure at a height of 40 m was carried out one side at a time so that trains could continue to operate. The tight space conditions and the complex building geometry required demanding scaffolding work. Poorly accessible, steeply sloping areas made the planning and implementation of the scaffolding work difficult.

PERI solution
For the bridge scaffolding, PERI UP core components, facade scaffold components and VARIOKIT steel components could be optimally combined on the basis of the common, metric basic grid. Project-specific adjustments to geometry and loads were made in 25 cm increments. With the help of the formwork girders, it was possible to dispense with a space frame which would have required intensive use of materials. For this purpose, the scaffold for the work on the arch was erected on the 7.5 m bridgings.

Oliver Bernhardt
Site manager

"This is certainly an unusual project with some special installation features. One major benefit in this respect is the way in which the scaffolding and formwork are combined: the VARIOKIT walers serve as the supporting structure for the standing, shoring and suspended scaffolds – and the flexible connection points, together with PERI UP, allow for force-fit connections."

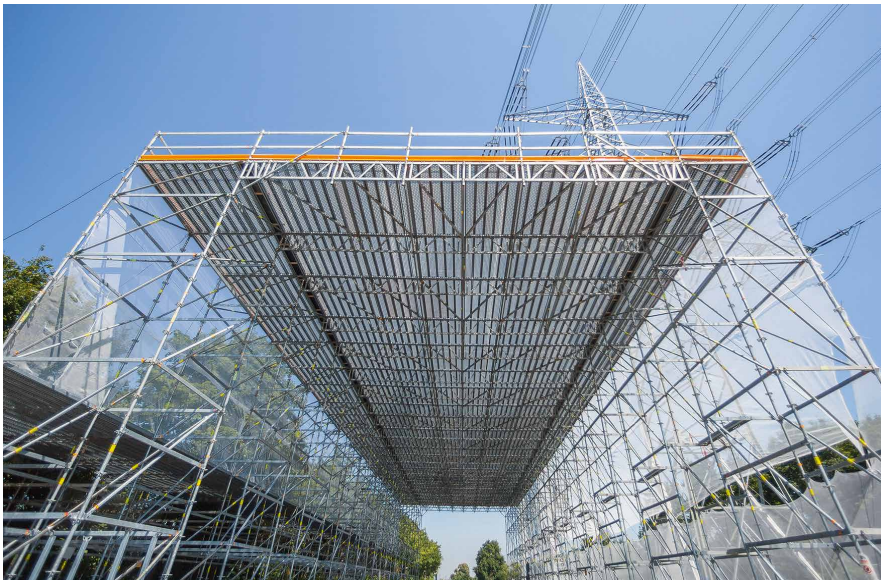
Customer
Gloser GmbH, Walzbachtal

Field service
PERI Stuttgart office

Formwork Girder ULS Flex

The flexible formwork girder made of individual elements

Product details
The formwork girder ULS Flex is characterised by a high load-bearing capacity with high flexibility. Two end elements 50 cm in length, connectors and intermediate elements are required for assembly. The intermediate elements are available in lengths of 100 cm, 125 cm and 150 cm and can be easily combined. The connector has two scaffolding nodes and can therefore be optimally connected to the PERI UP core components. The component height of 50 cm offers a slender and load-bearing solution.



User advantage
Connecting the end elements to the scaffolding nodes eliminates the need for time-consuming coupling. The connector is quickly pinned with bolts. The formwork girder is compatible with the PERI UP core components through the scaffolding nodes and ledger heads. Core components are used for the bracing, and decks can be hung directly on the formwork girder. Due to the compact dimensions, the individual components have a low weight.

Application possibilities

- Working platforms
- Protection roofs
- Girders for high live loads
- Bridgings

Components

- End element
- Intermediate element
- Connector
- Horizontal ledger
- Horizontal brace
- Decks

Filstal Bridge,
Wiesensteig

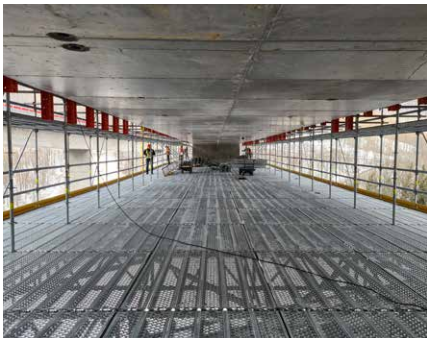
Project data
In the course of the new Wendlingen-Ulm line of Deutsche Bahn, two single-track bridges with a length of about 485 m are being built over the Filstal valley. With a maximum span height of 85 m, the Filstal Bridge will be the third highest bridge structure in Germany.

Requirements
A scaffold is needed on the underside for finishing the concrete surface of the bridge. Due to the length, a solution that can be set up quickly must be planned. The height of 85 m makes it almost impossible to reach the bridge from below.

PERI solution
An economical construction made of VARIOKIT was chosen in order to be able to suspend a scaffold from the underside of the bridge. A suspended scaffold made of PERI UP core components is mounted on this construction. The two suspended scaffolds are connected with the formwork girder ULS Flex over a span of 6.50 m. This creates a working platform with a flat deck that has no tripping hazards.

Customer
Porr GmbH & Co. KGaA
Schäfer Gerüstbau GmbH

Field service
Competence Centre Infrastructure
Competence Centre High-Rise
Competence Centre Industry
PERI Nuremberg office
PERI Stuttgart office



Lattice Girder LGS

The mobile working platform

Product details
The working platform is available in 150 cm. The core of the solution is formed by elements of 150 cm and 300 cm in length. These are used to build truss systems. The elements are connected using bolts. Two different support systems allow the working platforms to be mounted in a fixed or mobile position. With a few solution-related components, weather protection roofs can be constructed from the lattice girders.

User advantage
Thanks to lightweight individual elements, wide spans can be erected with the lattice girders, without the use of a crane. The platform braced and extended with PERI UP core components. Depending on the requirements, the solution can be designed to be fixed or movable. The connections are made without couplings thanks to fitting pins and connection to the scaffolding nodes.

Application possibilities

- Working platforms
- Weather protection roof
- Protection roof

Components

- Standard element
- End element
- LGS support URS 0°
- Support components (fixed or mobile)
- Horizontal ledger UH-2
- Ledger braces UBL
- Horizontal braces UBH
- Steel decks UDG

Willems Bridge,
Rotterdam

Project data
In the course of renovation work, the two 60 m tall pylons of the cable-stayed bridge were scaffolded one after the other. First the southern, then the northern pylon was scaffolded.

Requirements
The scaffolding and painting work was to be carried out without disrupting city traffic. Due to the freely movable suspension of the bridge superstructure, it was not possible to erect the approx. 200 t scaffolding construction on the carriageway slab. To prevent accidents, it was imperative to seal off the work area from road traffic.

PERI solution
A project-specific PERI scaffolding solution was designed – based on the two PERI UP and VARIOKIT systems which can be combined almost seamlessly. On both sides, a 10 m pre-assembled protection roof structure was erected as well as a working platform with a span of 12 m at a height of 50 m, based on the LGS Lattice Girder System.

Marcel Broekman
Project manager

"Together with PERI, we developed a great concept for the extraordinarily challenging pylon scaffolding. [...] In short, we are extremely satisfied with both the PERI systems and the collaboration – a really good example of engineered solutions."

SRU Single

Easy access with VARIOKIT Steel Walers

Product details
The steel waler is 12.0 cm high and 16.2 cm wide. It is available in lengths from 0.72 m to 5.97 m, usually in 0.5 m increments. The cross-section is a double U-section. With its 12.5 cm hole grid dimension, it is fully compatible with the 25 cm grid dimension of the PERI UP Scaffolding Kit. All connections to the steel waler are made with fitting pins and cotter pins. The steel walers can also be used without a crane.

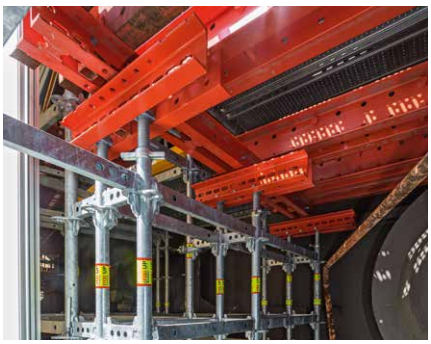
User advantage
By using bolts, the connections are made quickly and easily with a high load-bearing capacity. The assembly is intuitive and offers versatile application possibilities. In simple bridgings, the steel waler replaces the formwork girder ULS with a considerably lower construction height. By using different fasteners, cross connections and the like are easily possible.

Application possibilities

- Working platforms
- Protection roof
- Trench bridge
- Support and load distribution
- Assembly on RCS variants
- Bridgings
- Cantilevers

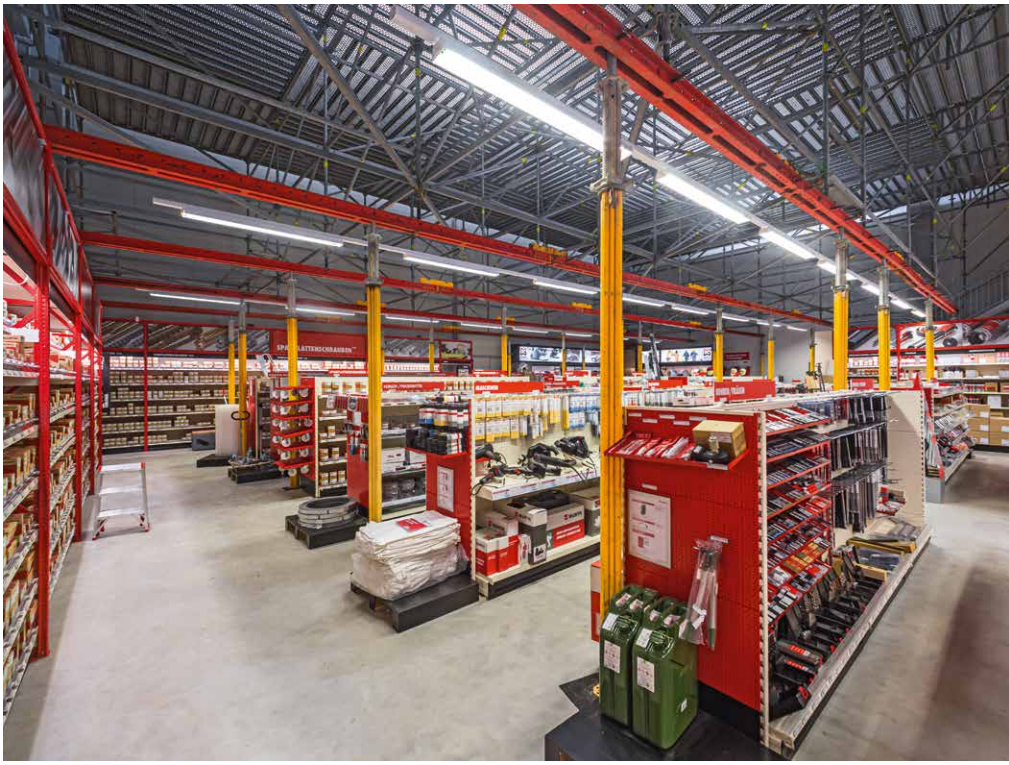
Components

- Steel waler SRU U120
- Universal coupling UK 70
- Fitting pin 21*120
- Cotter pin 4/1
- Spindle head SRU
- Pivoting head spindle
- Cross connector VARIOKIT



Würth office,
Oberschleißheim

Project data
For the electrical and sprinkler installation on the slab underside, a 400 m² working platform was required at a height of 6.65 m above a retail space.



Requirements
All shelving and walkways had to be kept clear to ensure the customer's operations were not disrupted. Mechanical lifting equipment could not be used due to the confined space. In order not to put off customers, an aesthetically pleasing scaffolding solution was necessary and also dust or dirt had to be avoided. The scaffoldi was assembled and dismantled in night shifts.

PERI solution
A combination solution of scaffolding and formwork components in the uniform metric system grid was used. The substructure was constructed in two parts with steel walers on MULTIPROP aluminium props at a height of 3.60 m and a 3.00 m tall PERI UP Birdcage Scaffold with closed deck level at 6.65 m. The loads could be concentrated on a total of only 22 MULTIPROP props.

Paul Hawemann
Site manager

"With the PERI Construction Kit and the very good, close cooperation with the PERI engineers, we developed a solution that enabled a shortened construction schedule without any restrictions to retail operations, and with fast assembly and dismantling times. Not only was our customer extremely satisfied, but the shop customers – mostly from handicraft enterprises – were also impressed by the technical possibilities in scaffolding construction."

SRU Underbraced

The steel waler reinforced with tie rods

Product details
For the underbraced version, a top chord made of steel walers is tensioned with tie rods. For this purpose, a steel waler is connected at right angles to the top chord with a corner connector. The tie rods are connected to the steel walers. This creates a light and load-bearing truss. The kicker braces made of steel walers must also be stiffened as well as the top chord.

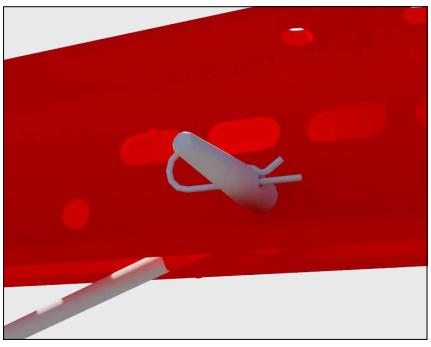
User advantage
Due to the light underbracing with a coordinated static system, a high load-bearing capacity with low deflection is achieved by the supporting effect of the kicker braces. In addition, the construction requires only a few additional components.

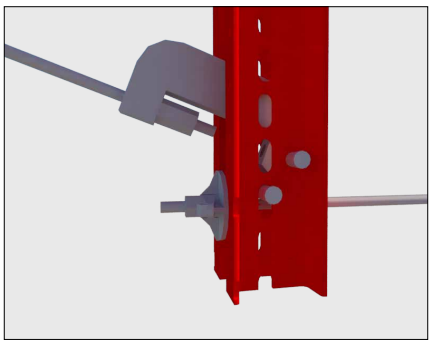
Application possibilities

- Bridging in the facade scaffold
- Working platforms
- Trench bridge

Components

- Steel waler SRU U120
- Universal coupling UK 70
- Fitting pin 21*120
- Cotter pin 4/1
- Corner connector SRU VARIOKIT
- Eye nut RCS DW 15
- Articulated spanner RCS DW 15
- Tie rod DW 15
- Wingnut counterplate DW 15
- Hex nut DW 15

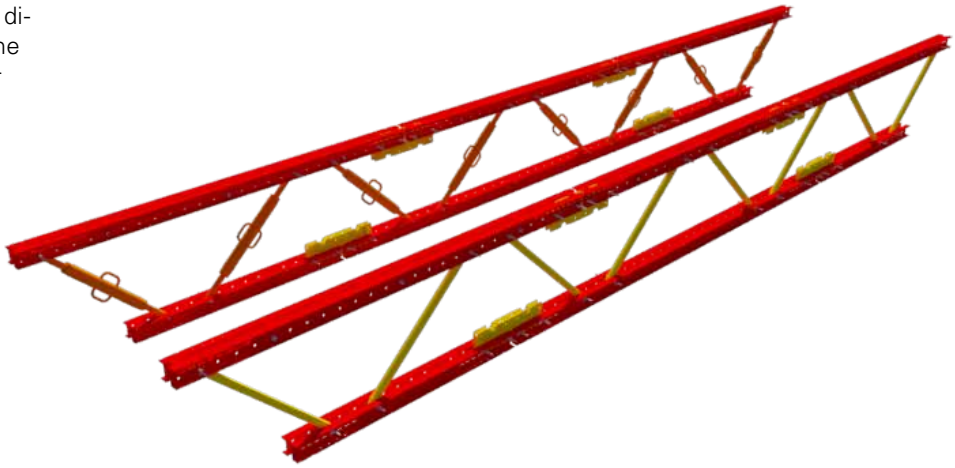




SRU truss

The lightweight, highly load-bearing truss

Product details
The light truss has steel walers as upper and lower chords. Heavy-duty spindles or diagonals can be used as truss struts. Through different spindle and diagonal lengths, the static height of the truss can be adjusted and thus cover different load cases.



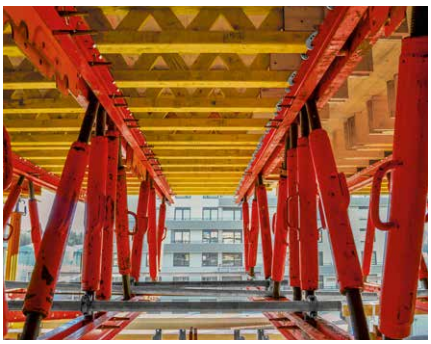
Customer benefit
Despite its lightweight individual components, the truss made of steel walers is a high load-bearing system. By adjusting the static height, the load-bearing capacity can be flexibly adapted to the construction situation. The steel waler as top chord allows seamless continuation of construction with PERI UP.

Application possibilities

- Working platforms
- Shoring
- Substructure for slab formwork

Components

- Steel waler SRU U120
- Universal coupling UK 70
- Fitting pin 21*120
- Cotter pin 4/1
- SLS heavy-duty spindle
- Diagonal VST



RCS Single

The load-bearing climbing rail

Product details
The climbing rail comes from the climbing formwork product portfolio. However, due to its system dimension of 12.5 cm, it is optimally suited for combination with steel walers and PERI UP core components. Its double U-section has a height of 20.0 cm and a width of 23.2 cm. It is available in lengths from 1.48 m to 9.98 m. The connections are made with fitting pins and cotter pins. As a simple rail, it can be used as a bridging and load-distributing element.

User advantage
Thanks to the load-bearing section, wide spans can be bridged with little effort and a low installation height. All connections are made with fitting pins and are therefore time-saving and easy to use.

Application possibilities

- Working platforms
- Shoring
- Passages
- Load distribution

Components

- Climbing rail RCS
- Climbing rail connector RCS 97
- Fitting pins 21*120 & 26*120
- Cotter pins 4/1 & 5/1
- Cross connector VARIOKIT
- Cross connector RCS

Thyssenkrupp Dust Extraction System,
Duisburg

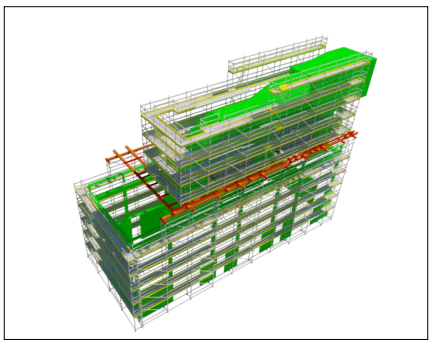
Project data
Thyssenkrupp Steel Europe operates four company-owned blast furnaces at the Duisburg facility. Blast furnace 9 originally dates from 1962 and was completely rebuilt and enlarged back in 1987. In 2012, it was taken out of service for another modernisation and brought up to the latest technical standard. In the course of the refurbishment, the casting hall dust extraction system also received new insulation.

Requirements
For the modernisation work, high safety standards had to be consistently maintained, both with regard to the assembly of the scaffold and its use. One requirement was for all system components to be able to be combined quickly and easily with regard to scaffolds during insulation work. It should all be economical as well.

Customer benefits
The solution from the Mega Scaffolding Kit offers optimum working conditions with maximum safety. The entire solution offers flexible adaptations to local conditions without time-consuming tube-coupler assemblies.The use of system steel girders from the PERI rental warehouse significantly reduced material quantities and assembly work.

Customer
Intering GmbH,
Scaffolding Department Leuna

Field service
PERI Headquarters, Germany
PERI Leipzig office



RCS Flat Underbraced

The reinforced climbing rail with low installation height

Product details
The climbing rail is underbraced with two tie rods in order to increase the static values and thus make a greater load-bearing capacity or greater spans possible. For this purpose, the angle connector is attached to the climbing rail with fitting pins. The anchor tie yoke is inserted into this angle connector. The tie rods are guided through this anchor tie yoke and fixed with hex nuts.

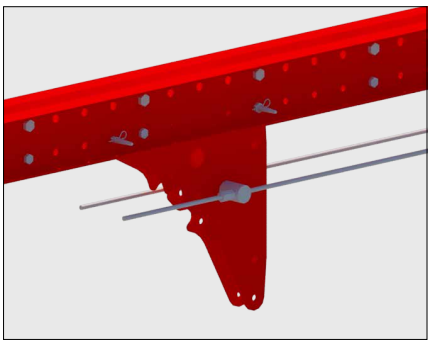
User advantage
Larger spans are possible though the use of underbracing. Thanks to the flat implementation, this is possible without much loss of space and thus offers a solution even in confined spaces. The simple design of the tension system requires few components and reduces the assembly work. In addition, the weight remains low despite the underbracing.

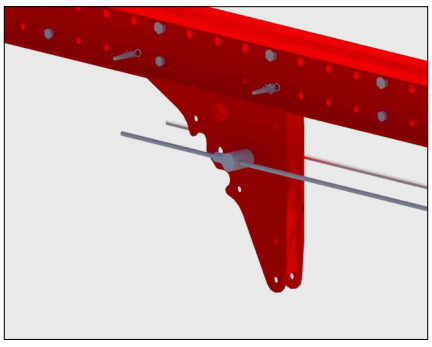
Application possibilities

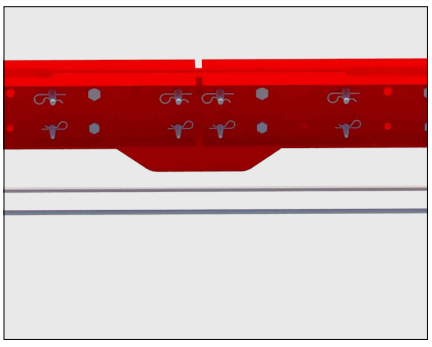
- Working platforms
- Shoring
- Passages

Components

- Climbing rail RCS
- Climbing rail connector RCS 97
- Fitting pins 21*120 & 26*120
- Cotter pins 4/1 & 5/1
- Cross connector VARIOKIT
- Cross connector RCS
- Angle connector RCS
- Tie rod DW 15
- Anchor tie yoke



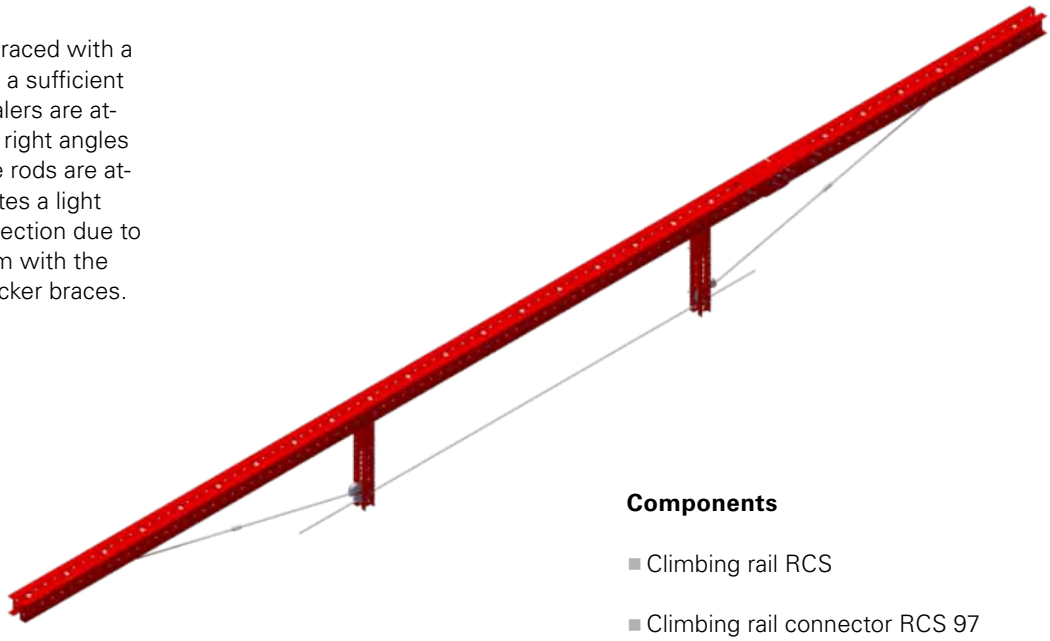




RCS Underbraced

The reinforced climbing rail with reduced deflection

Product details
The climbing rail is underbraced with a tie rod. In order to achieve a sufficient static height, two steel walers are attached as kicker braces at right angles to the climbing rail. The tie rods are attached to these. This creates a light truss which has a low deflection due to its favourable static system with the supporting effect of the kicker braces.



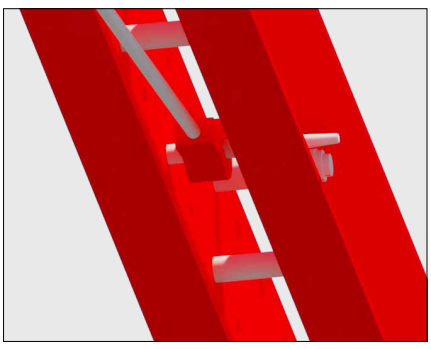
User advantage
In contrast to the flat, underbraced variant, the underbraced variant of the climbing rail is somewhat more complicated to install and has a greater height, but the static system can reduce the deflection and increase the span. This means that more demanding requirements for dimensional accuracy and comfort can be met.

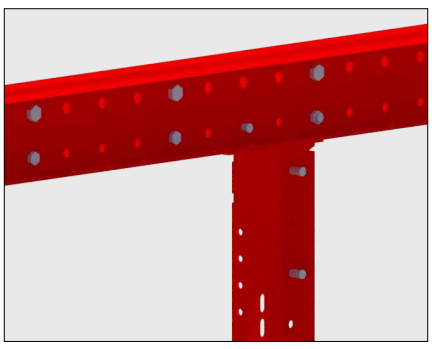
Application possibilities

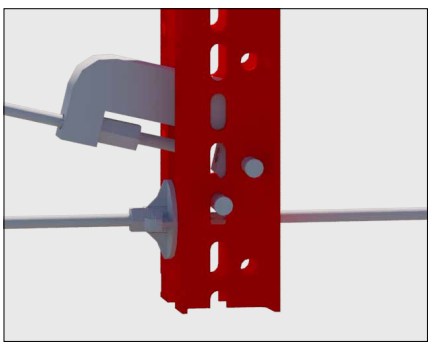
- Working platforms
- Shoring
- Passages

Components

- Climbing rail RCS
- Climbing rail connector RCS 97
- Steel waler SRU
- Fitting pins 21*120 & 26*120
- Cotter pins 4/1 & 5/1
- Cross connector VARIOKIT
- Cross connector RCS
- Elbow connection RCS/SRU
- Tie rod DW 15
- Eye nut RCS DW 15
- Articulated spanner RCS DW 15
- Wingnut counterplate DW 15
- Hex nut DW 15 AF 30/50



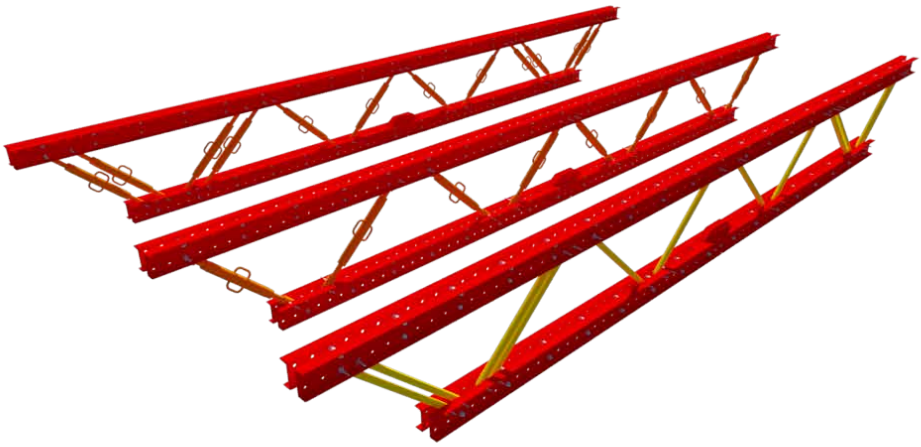




RCS Truss

The truss for special requirements

Product details
To create the load-bearing truss girder, climbing rails are used as top and bottom chords. Diagonals or heavy-duty spindles are used as truss struts.
To increase the load-bearing capacity, heavy-duty spindles are connected with spindle adapters. The load-bearing capacity of this truss can also be increased by varying the static height.



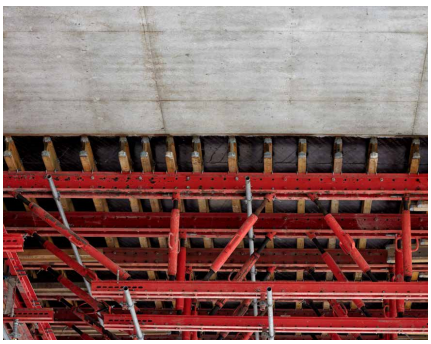
Customer benefit
The truss made of climbing rails can be used flexibly and is designed for high stresses. By using spindle adapters, the load on the spindles can be increased, and thus double struts to increase the load-bearing capacity can be dispensed with depending on the situation. All the advantages of the VARIOKIT Construction Kit are retained with the climbing rails as top and bottom chords.

Application possibilities

- Working platforms
- Shoring
- Passages
- Main beam slab formwork

Components

- Climbing rail RCS
- Climbing rail connector RCS 97
- Fitting pins 21*120 & 26*120
- Cotter pins 4/1 & 5/1
- Cross connector VARIOKIT
- Cross connector RCS
- Diagonal VST
- SLS heavy-duty spindle
- Spindle adapter SLS/RCS



Waste incineration plant, Ruhleben, Berlin

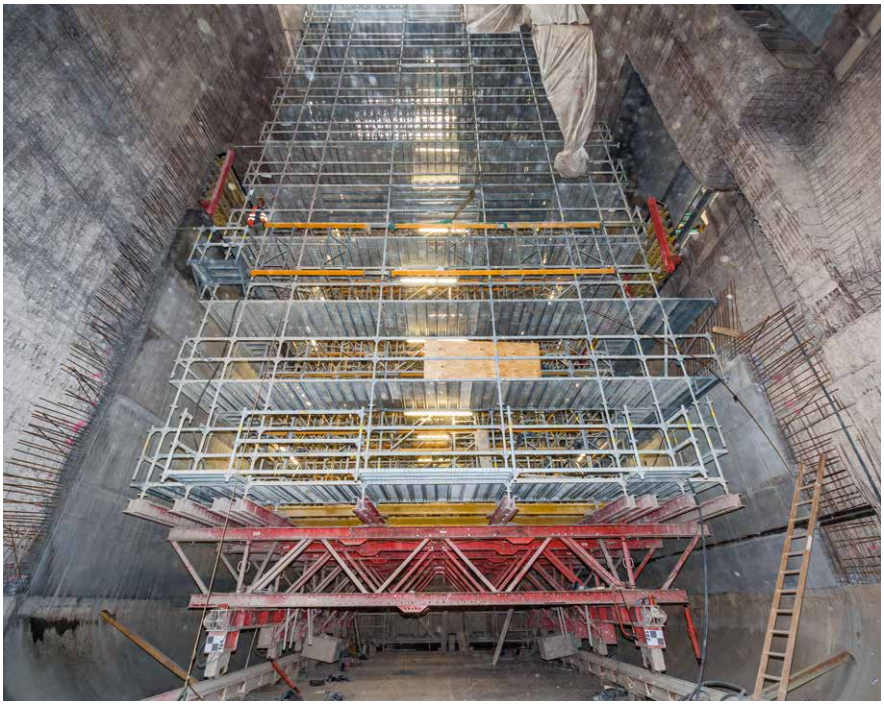
Project data
Concrete refurbishment and upgrading of the 130 m long waste bunker at the Ruhleben waste incineration plant in Berlin

Requirements

- Rehabilitation work without interrupting power plant operation
- Exposing the bunker walls with the aid of HDW telescopic robots on successively raised platform

PERI solution

- Comprehensive overall concept based on rentable system components for a wide range of measures
- VARIOKIT and PERI UP Scaffold Stand can be moved on crane rails for sandblasting work and formwork; as up to 18 m high platform for HDW robots and as 34 m tall formwork scaffold with MULTIPROP cross bracing.
- Transfer platforms (drawers) for transporting pre-assembled formwork and scaffolding units as well as heavy HDW robots into the bunker area as well as for disposing of accumulated rubble
- 30 m tall scaffold partition walls for partitioning off the working areas on both sides



Customer benefits

- Formwork, scaffold and engineering from one source
- Minimisation of downtimes through successive recommissioning thanks to movable sections
- High economic efficiency due to the use of rentable, combinable system components.
- Quick and safe access to all levels through integrated staircases

Customer
Matthäi Bauunternehmung GmbH & Co. KG, Westerstede
OHV Gerüstbau GmbH, Werneuchen
MA-RE Gerüstbau GmbH, Berlin

Field service
PERI Berlin office

Railway station, Wiesbaden

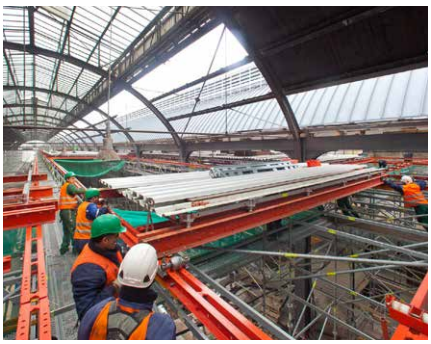
Project data
The five hall roofs of Wiesbaden railway station – protected monuments with spans between 35 m and 51 m – were renewed in sections. A 190 m long protection roof construction with spans between 7.50 m and 12.50 m spanned the railway tracks of the respective hall. The conversion was undertaken without interrupting railway operations. Only during the assembly work on the scaffolding were tracks temporarily blocked. The protection roof had to be moved according to the construction schedule.

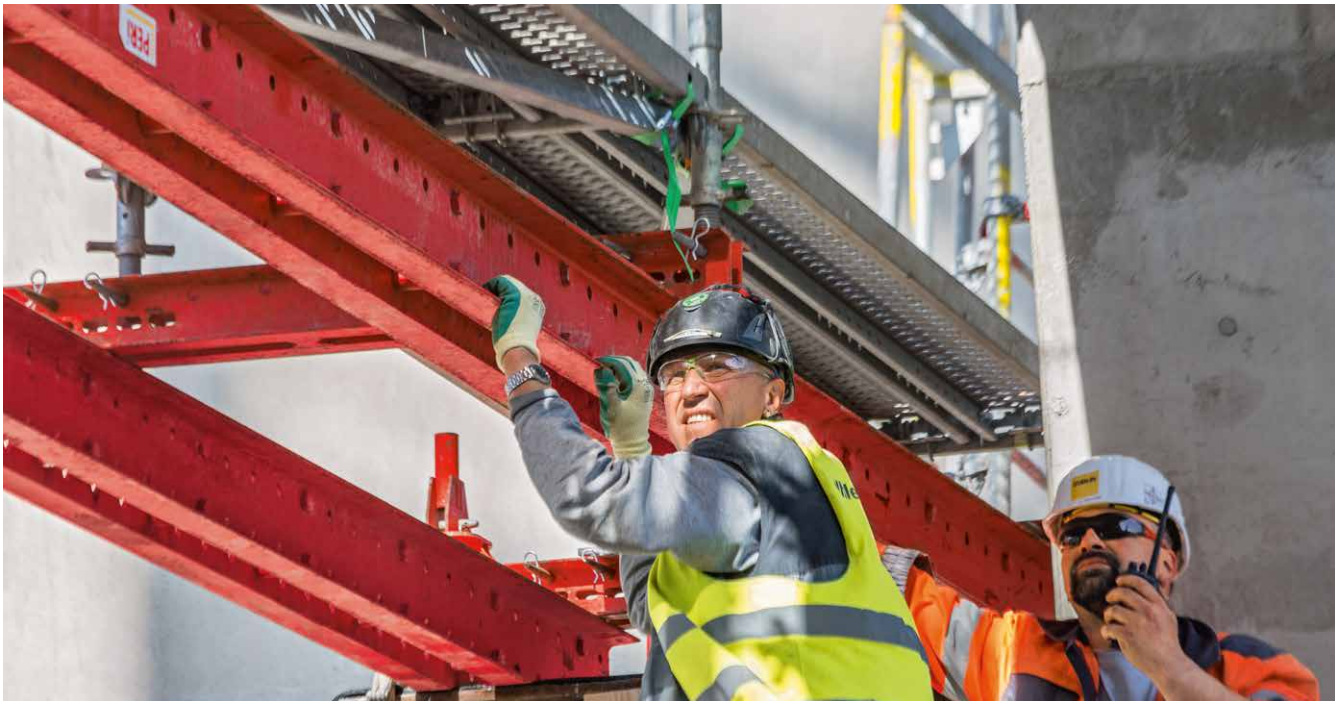
Requirements
The time required to move the protection roof had to be kept to a minimum and safe access to the workplace had to be ensured. The pedestrian walkways had to be respected at all times.

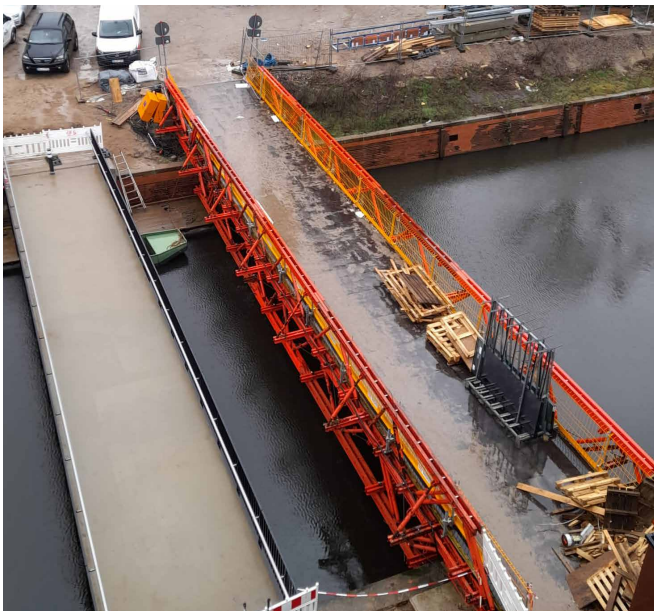
PERI solution
For rapidly moving the protection roof, PERI designed mobile platform units which could be manually manoeuvred to the next track section at a height of just under 7 m. Transverse and longitudinal movement of the units was rail-guided and secured laterally at all times. 66 pre-assembled platforms with a standard width of 3.00 m were lifted by crane through a partially opened roof onto the steel walers of the PERI UP supporting structure used as rails.

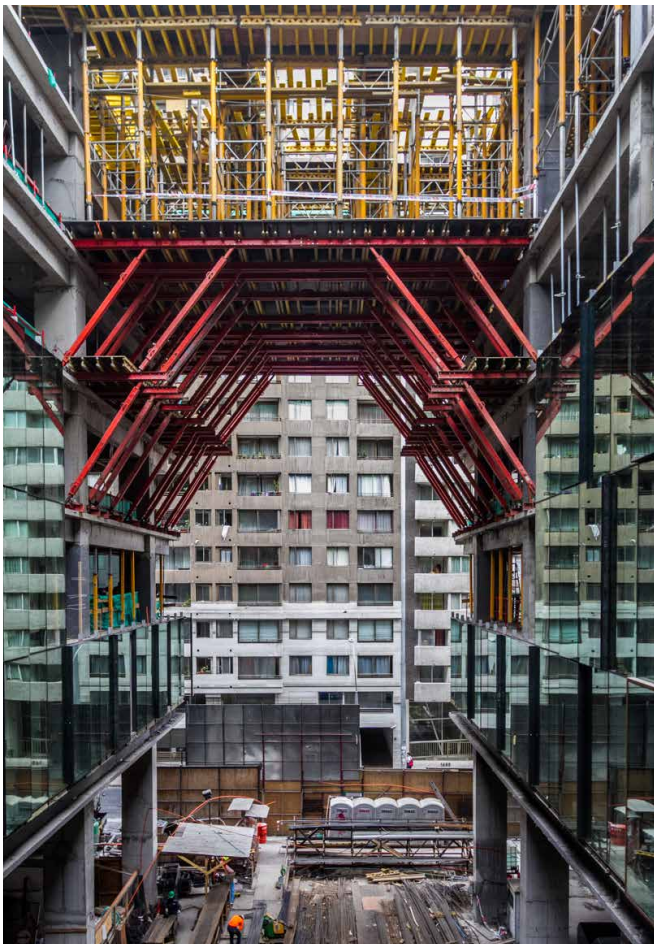
Customer benefits

- Time-critical relocation processes could be optimised.
- Safety through PERI Scaffolding Kit
- Low weight of the HD 200 (= 200 kN load-bearing capacity) made of aluminium
- Quick assembly of the prop segments and easy operation
- Flexible use of the HD 200 also as a single prop
- Rapid construction progress









Other PERI solutions at a glance

The optimal system for all projects and every requirement

Facade scaffolds

Industrial scaffolding

Shoring

Access means

Working scaffolds for construction

Safety scaffolds

Heavy-duty props

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Stair towers

Scaffold bridges for power cables

Construction site signs

Bridgings

Scaffolding technology training

Services

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