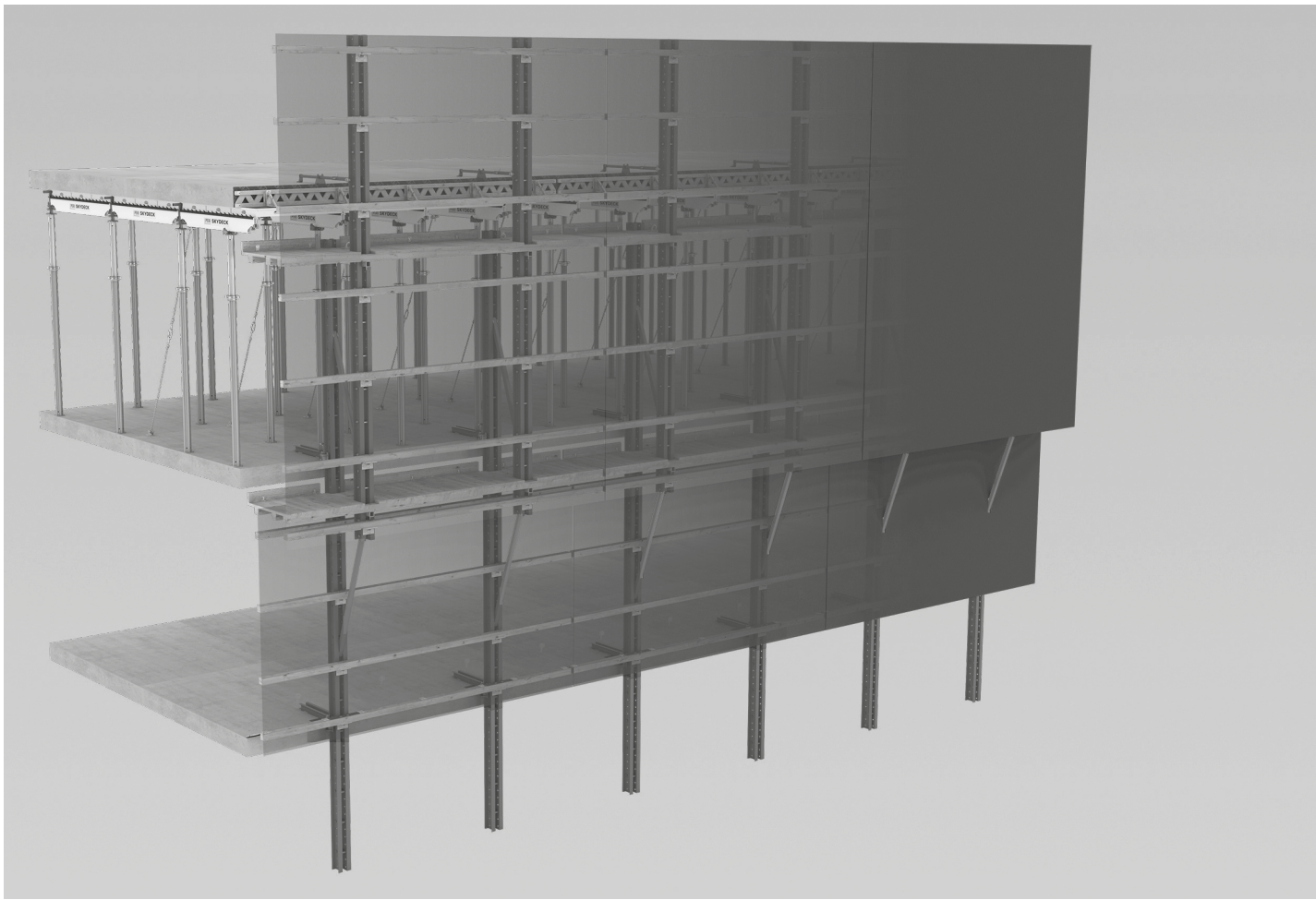
RCS P
Climbing Protection Enclosure

Instructions for Assembly and Use – Standard configuration – Version 2.2.1



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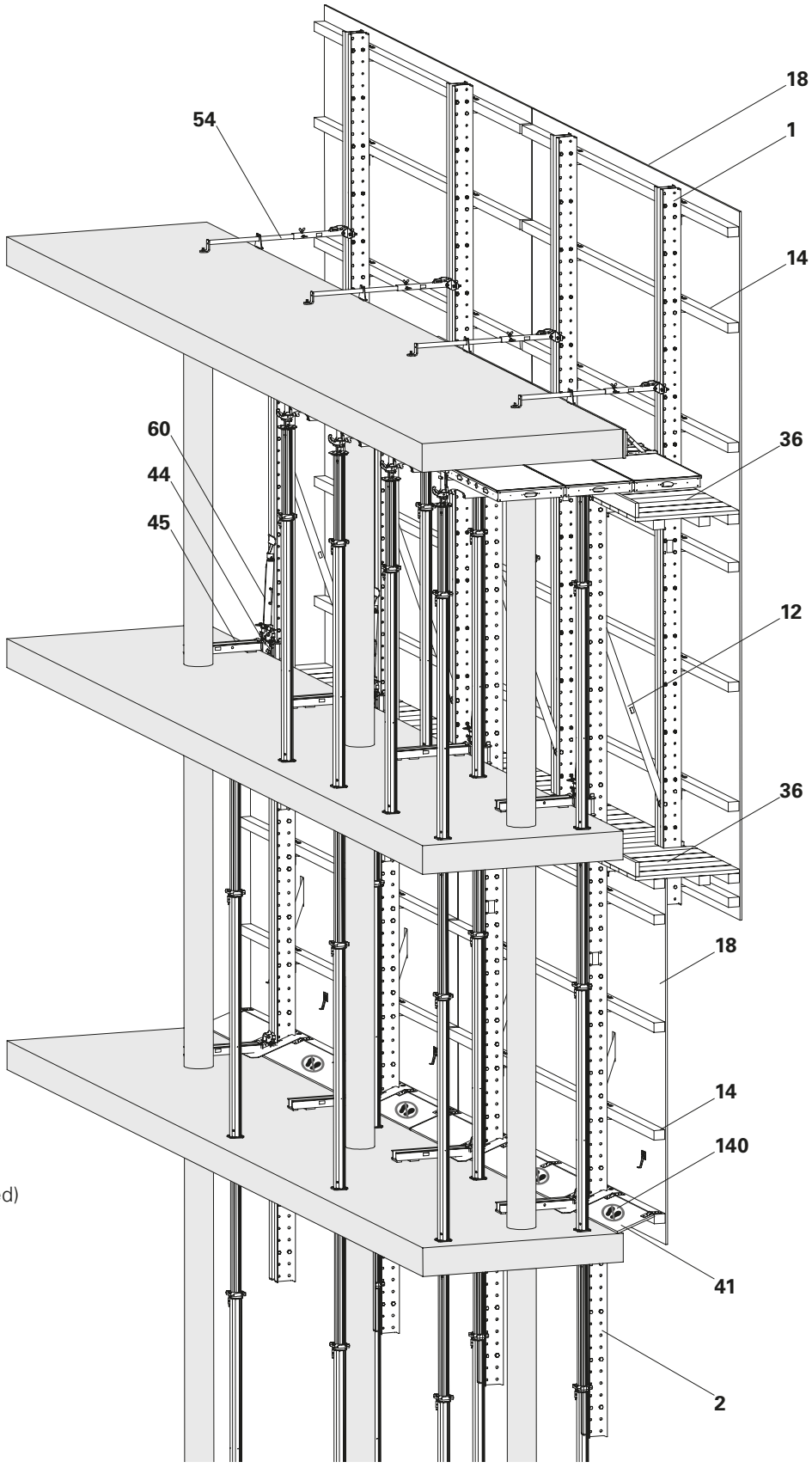
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Main components



1 Enclosure post
2 Climbing Rail RCS
10 Crossbar RCS 103 (concealed)
12 Diagonal Strut RCS 212
14 Enclosure beam
18 Enclosure
36 Work platform
41 Foldable cover
44 Climbing Shoe RCS
45 Slab Shoe RCS
54 Slab Tie Gauge 61 RCS
60 Climbing Device RCS 50
140 Entry prohibited

Key

Pictogram | Definition


Danger/Warning/Caution


Note


To be complied with


Load-bearing point


Visual inspection


Tip


Incorrect use


Safety helmet


Safety shoes


Safety gloves


Safety goggles


Personal protective equipment to prevent falling from a height (PPE)


Observe additional documentation

Arrows

→ Arrow representing an action

⇨ Arrow representing a reaction of an action*

→ Arrow representing forces

* If not identical to the action arrow.

Safety instruction categories
The safety instructions alert site personnel to the risks involved and provide information on how to avoid these risks. Safety instructions can be found at the beginning of the section or before instructions for action and are highlighted as follows:


Danger
This sign indicates an extremely hazardous situation that could result in death or serious, irreversible injury if the safety instructions are not followed.


Warning
This sign indicates a hazardous situation that could result in death or serious irreversible injury if the safety instructions are not followed.


Caution
This sign indicates a hazardous situation that could result in minor or moderate injury if the safety instructions are not followed.


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

Format of the safety instructions


Signal word
Type and source of hazard!
Consequences of non-compliance.
⇒ Preventative measures.

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

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

Notes on illustrations
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 for all component sizes contained in the standard configuration.

To facilitate understanding, illustrations are sometimes incomplete. The safety equipment that is not shown in these detailed descriptions must nevertheless be available.

Terminology
Components are not always named in full so that they are easier to read.
All components deemed valid according to the program overview may be used.
Exceptions are specified.

Target groups

Contractors
These Instructions for Assembly and Use are designed for contractors who either
- assemble, modify and dismantle PERI systems, or
- use them, e.g. for concreting, or
- allow them to be used for other operations, e.g. carpentry or electrical work.

Safety and Health Protection Coordinator*
- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health protection 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
- is appointed by the contractor,
- must be on site for all system operations,
- prepares and updates the plan for assembly, modification and dismantling,
- prepares and updates the plan for use of the system by the user,
- supervises the assembly, modification and dismantling work (supervisor).

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

Qualified personnel
PERI systems may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. Qualified personnel must have completed a course of training** in the work to be performed, covering the following points at least:
- Explanation of the plan for the assembly, modification or dismantling of the system in an understandable form and language.
- Description of the measures for safely assembling, modifying or dismantling the system.
- Naming of the preventive measures to be taken to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions that could adversely affect the safety of the system, as well as the personnel concerned.
- Details regarding permissible loads.
- Description of all other risks and dangers associated with assembly, modification or dismantling operations.

- **Ensure that the respective current version of relevant national guidelines and regulations are complied with!**
- **If no country-specific regulations are available, PERI recommends that you proceed according to German guidelines and regulations.**

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

** Instructions are given by the contractor themselves or a competent person selected by them.

Product description

Regular assembly
These Instructions for Assembly and Use describe the standard assembly of the Rail Climbing System RCS as a climbing protection panel.

Variant 1:
Minimum width with a narrow work platform for 1 storey in advance.

Variant 2:
Several wide work platforms for 1 storey in advance.

Variant 3:
Several wide work platforms for 2 storeys in advance.

Variant 4:
Without work platforms, with straight protection screen.

Features
The RCS P Climbing Protection Panel is a standard application of the RCS Rail Climbing System.
The climbing protection panel is a bracket-type truss construction and is designed as a safety scaffold in accordance with DIN 4420-1:2004-03. Wind load assumptions are accepted in accordance with DIN EN 1991-1-4:2010-12.

The climbing protection panel basically consists of 2 bracket structures which are connected to each other by means of work platforms and the enclosure.

Two Climbing Rails RCS connected with ledgers and struts form the bracket structure. The platforms are realised using planking and platform beams. The enclosure is attached to the climbing rails and consists of squared timbers and cladding comprising wooden multi-layer panels or trapezoidal metal sheets. Alternatively, other components can be used for the enclosure providing static proof has been obtained.

The lower Climbing Rail RCS is anchored in the floor slabs of the structure by means of climbing shoes and slab shoes. The upper climbing rail is offset and supports the enclosure projecting upwards.

Intended use
- Use in building construction projects
- To provide anti-fall protection for site personnel
- To protect workers from falling objects
- Protection against the effects of the weather

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

Instructions for Use

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

Only PERI original components may be used. The use of other products and spare parts is not allowed and represents a misapplication with associated safety risks.

Changes to PERI components are not permitted.

Only ever use approved and calculated components.

Operation with damaged or incomplete load-carrying equipment is not permissible.

The system described in these Instructions for Assembly and Use may contain patent-protected components.

- The description of the assembly and operation of the assemblies and components in these Instructions for Assembly and Use is intended as an example.
- For use on the construction site, a project-specific assembly plan is required.
- The project-related assembly plan from PERI is binding for assembly operations

Cleaning and maintenance instructions

In order to maintain the value and operational readiness of the materials over the long term, clean the panels after each use.

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



The contractor must ensure that the personal protective equipment required for cleaning, maintenance and repair work such as
- Safety helmet,
- Safety shoes,
- Safety gloves,
- Safety goggles,

is available and used as intended.

The following instructions should help to keep cleaning and maintenance costs as low as possible.

Cleaning tools must be adapted to the respective surfaces of the components so that they are not damaged.

Do not spray work platforms and access routes with concrete release agent.
Slip hazard.

Spray work equipment with water immediately after concreting; this avoids any time-consuming and costly cleaning operations.

Never clean powder-coated components, e.g. elements and accessories, with steel brushes or hard metal scrapers; this preserves the powder coating. Use spacers for reinforcements with large or flat supports; this largely avoids indentations in the formlining under load.

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

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

Do not clean components suspended on crane lifting gear.

Additional technical documentation

- Translation of Original Instructions for Use
  – Climbing beam 9 t
- Assembly instructions
  – RCS Climbing Device and Hydraulics
- Instructions for Assembly and Use
  – Concrete cones and adhesive
- Data sheet
  – Tie Bolt PERI 14/20 x 130
- Product approvals
  – Z-21.6-1766 PERI Screw-On Cone
  – Z-21.6-1767 PERI Climbing Cone
- Separate structural design information

RFID transponder

Individual components are equipped with an RFID transponder. RFID transponders combine hardware with additional software to create a smart product.
Depending on the component and digital solution, this can be used to:
- Call up technical documents.
- View maintenance plans.
- Track information on transport and logistics.



For more information, see "RFID LA-TAG Assembly Set User Information".

Disposal

Carry out disposal in accordance with the relevant national regulations.

Observe the safety data sheets of the auxiliary and operating materials.

Cross-system

Safety instructions apply to all service life phases of the system.

General information
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. The Instructions for Assembly and Use are not a substitute for a risk assessment!

Observe and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, observe the current laws and regulations in force in the respective countries.

Materials and working areas are to be inspected before each use and assembly for:
- damage,
- stability and
- functional integrity.

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

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

When on slab formwork, scaffolds and working platforms:
- do not jump,
- do not run,
- do not drop anything from or onto it.

Components provided by the contractor must comply with the characteristics stipulated in these Instructions for Assembly and Use and all applicable laws and standards. Unless otherwise indicated, the following applies in particular:
- Timber components:
  Strength class C24 for solid wood according to DIN EN 338:2016-07.
- Scaffolding tubes:
  Galvanised steel tubes with minimum dimension Ø 48.3 x 3.2 mm according to DIN EN 12811-1:2004-03 4.2.1.2.
- Scaffolding tube couplings:
  according to DIN EN 74-1:2022-09 and DIN EN 74-2:2022-09.

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor.

Appropriate measures for working and operational safety, as well as stability, are defined on the basis of this risk assessment.

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

Nails and wood screws must not protrude. Only allow other connecting components to protrude to the extent that is necessary.
If necessary, mark protruding components or fit them with protective material.
Secure all bolts with cotter pins and all screws with nuts

Before and after extraordinary events that may have damaging effects on the safety of the system, the contractor must immediately
- produce another risk assessment, the results of which must be used to implement suitable measures to ensure the stability of the system,
- arrange for an extraordinary inspection to be carried out by a competent person qualified to do so. The aim of this inspection is to detect and repair damage in good time in order to ensure safe use of the system.

Exceptional events could be:
- accidents, fire, explosions, collisions,
- long periods of non-use,
- natural events, e.g. heavy rainfall, heavy snowfall, significant icing, storms or earthquakes.

Suitable measures could be:
- removing nets/tarpaulin,
- clearing snow and ice,
- reducing live loads,
- securing loose materials.

Assembly, modification and dismantling work
PERI systems may only be assembled, modified or dismantled under the supervision of a person qualified to do so and by suitably qualified employees. The qualified personnel 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 guarantee safe assembly, modification and dismantling of the climbing unit.



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

is available and used as intended.

For work at a higher level, use an approved ladder or platform system, or an assembly scaffold.



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

The contractor must provide safe working areas for site personnel which are to be reached via safe access routes.

The contractor must ensure that the following points are observed:
- If necessary, secure single components and assemblies to prevent them from falling, e.g. using ropes.
- Cordon off and signpost danger zones.
- Ensure stability during all construction stages.
- Ensure and demonstrate that all loads that occur are safely transferred.

Use
Every contractor who uses or allows the PERI systems to be used, is responsible for ensuring that the equipment is in good condition.

If the 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 then be coordinated.

When systems are used in publicly accessible areas,
- measures to prevent unauthorised use, e.g. enclosure of access areas, must be taken.
- measures to prevent injuries caused by bumping against protruding components, e.g. assembly of protective components, must be taken.

Always keep the contact surfaces of the system free of dirt, objects, snow and ice.
Close off the system in extreme weather conditions.

System-specific



Safety instructions apply to all service life phases of the system.

Make sure that the guardrails and/or edge covers at building openings and projections are fully installed before accessing the climbing system.

Before entering the system, check for completeness of the platform deck and for danger spots and use PPE if necessary.

Deshutter the concreting sections only when the concrete has sufficiently hardened and the person in charge has given the go-ahead for deshuttering to take place.

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

Inspection of the anchoring and associated components must be carried out by the party responsible.

As a result of the moving procedure, falling edges are formed between the platforms. Such affected areas are to be cordoned off.

Building materials or tools must not be transported during the moving procedure. Exceptions to this can be determined through the operational working and assembly instructions.

The transport of persons during the moving procedure is strictly prohibited. This does not apply to the operating personnel required for and trained on moving operations.

Working areas at great heights are to be secured by means of appropriate measures to prevent objects from falling down.

The enclosure of the platform or mounting of additional surfaces exposed to the wind changes the degree of stability and must be rechecked. If necessary, additional measures must be implemented.

Use a guide rope to ensure that assembly units suspended from the crane are fully under control when being moved.

Welding or abrasive cutting work is prohibited on the platforms due to the associated fire hazard.

Reliable lightning conduction must be ensured by the contractor.

Assembly work
The contractor must ensure that the user has an appropriate and sufficient number of tools, lifting equipment and slings, suitable and sufficient space for assembly and storage as well as adequate crane capacity at their disposal.

During the transportation procedure, only use the specified attachment points for components.

Avoid standing under suspended loads. If work under suspended loads cannot be avoided, come up with suitable safety measures and apply them. Avoid standing between a fixed object and an object that is drawing near.

Secure interim assembly states by means of temporary supports in order to prevent any items from toppling over.

The contractor must make a level assembly area with sufficient load-bearing capacity available.

Unexpected hazards can always arise when assembly work is carried out. Assess the degree of risk in each individual case and, if necessary, take measures to prevent or minimise the risk.

If guardrails cannot be used or have to be removed due to operational reasons, safety equipment must be installed in their place in order to prevent falls from any height.
If the use of anti-fall equipment is deemed to be inappropriate, personal protective equipment (PPE) can be used if suitable fixing points are available.

Site personnel are forbidden to remain in areas below where assembly work is being carried out, unless the danger zone has been provided with sufficient protection against falling, overturned, sliding or rolling objects and masses. Cordon off and clearly mark any danger zones and check that these are in place and complete every time work is commenced.

Do not walk on components and assembly units.
Find a secure standing position next to the components or assembly units. Use assembly scaffolds.

Always keep components and assembly units free of dirt, ice and snow.

Access
Safe access to all working areas must be guaranteed at all times.

Hatches and openings to accessible working areas must be kept closed during working operations.

Use walkways, stairs, stair towers or site lifts as passageways. Ladders are suitable for use as passageways in exceptional cases only.

Ladders must not be connected to each other for more than two levels and should be offset against one another.

Ladders must be secured on the outer side by means of appropriate anti-fall equipment such as ladder cages or safety nets.

Building edges at passages and openings in accessible areas must be secured.

In case of danger, it must be ensured that working areas can be vacated via emergency escape routes or rescue equipment.
It must also be ensured that at least one emergency escape route or piece of rescue equipment can still be used if the power supply fails.
Determine and apply all appropriate measures.

Throughout the entire moving procedure, ensure that site personnel can still use the emergency escape route.

In case the access hatches are blocked when retracting the formwork, ensure that site personnel can still use the emergency escape route.

Protection against falling components
Work activities may not be carried out simultaneously on areas positioned on top of each other if the lower working areas are not protected against falling objects.

Avoid installing working areas and access routes in danger zones.
If this is not possible due to work procedures, suitable protective measures must be available to provide protection against falling objects. This also applies to work that only takes a short period of time.
Safety nets (mesh size ≤ 2 cm) and platform planking are considered to be suitable means and are to be installed very close to the structure (distance ≤ 5 cm).

Secure tools and material to prevent them from falling down. Remove concrete residue and other dirt as soon as possible, at the latest before the next climbing cycle. The platforms are to be kept clean at all times.

Operational working areas at great heights are to be secured by means of appropriate structural measures to prevent objects from falling down.

Components that are likely to become unstable Components
Secure components that are likely to become unstable with suitable means, e.g. using push-pull props, or leave them attached to the crane until the tipping hazard has been eliminated.

Loitering in the danger zone is prohibited. Draw attention to and clearly mark any danger zones.

If necessary, cordon off the danger zones with suitable means. Check that safety signs and barriers are in place before commencing work.

Climbing procedure
Take into consideration the permissible wind speed limit for the climbing procedure.

Personnel, building materials or tools must not be transported as part of the moving operation. Exceptions to this can be determined through the operational working and assembly instructions on the basis of a corresponding risk analysis.

The climbing procedure must be monitored by a competent and qualified person.

During the climbing procedure, clamping and crushing hazards are brought about by moving components.

The individuals carrying out the climbing procedure must be fully informed about all possible hazards.

All persons who are not required to carry out the climbing procedure must leave the danger zones.

When climbing with the hydraulic climbing device, specifications regarding the arrangement of the hydraulic hoses must be observed. If the standard arrangement is not possible, an authorised person must determine a safe and secure alternative.

As a result of the moving procedure, open edges are formed between the platforms as well as at building openings. When working in this area, personnel must be secured against falling, e.g. by temporary guardrails or wearing PPE.

Secure all resulting shearing edges by means of covers. Cordon off danger zones during the climbing procedure.

In case of a malfunction, lower the platform to the next possible position. Personnel are to leave the climbing unit in a safe and secure manner and a person who is authorised to give instructions is to be notified immediately.

The climbing system cannot be anchored for the next concreting section until the required concrete strength has been achieved.

Maintenance and repairs
The components of the climbing system are to be inspected before every use to ensure that they are in flawless condition.
Only flawless materials may be used.
Have the climbing units checked monthly for signs of damage by competent persons who are authorised to give instructions.

Remove concrete residue.

Immediately remove any dirt that impairs functionality.
Remove and replace damaged components.

In case of overload or damage, stop work on and under the platforms, determine the cause, set down and replace damaged components.

If the maximum permissible wind speed has been exceeded, temperatures are outside the area of application or after any extraordinary event has taken place such as a fire or earthquake, the functionality and load-bearing capacity of all safety components as well as the supporting structure must be checked.

Safety components:
- A visual inspection is to be carried out by authorised personnel before each climbing procedure.
- Before each climbing procedure or each assembly procedure, a functionality check is carried out by qualified personnel.
- If parts need to be replaced, only PERI original components may be used.
- Repairs are to be carried out by qualified PERI personnel only.
- In the case of overloading or recurrent damage, stop work operations on and under the platforms, determine the cause and rectify.

Supporting structure:
- A visual inspection is to be carried out by authorised personnel before initial use.
- Only PERI original components are to be used for repairs or replacement.
- In the case of overloading or recurrent damage, stop work operations on and under the platforms, determine the cause and rectify.

Other components:
- Repairs are carried out by authorised personnel and the person authorised to give instructions is to be informed.
- In the event of frequently recurring damage, determine the cause and remedy it.
- Route hydraulic lines and power cables in such a way that they cannot be disconnected or sheared off, and that they do not pose a tripping hazard.

Storage and transportation

Store and transport components in such a way that no unintentional change in their position is possible. Detach load-lifting accessories and lifting gear 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 load-lifting accessories and lifting gear and only those load-bearing points provided on the component.

During the moving procedure
- Ensure that components are picked up and set down in such a way that unintentional falling over, falling apart, sliding, falling down or rolling is avoided.
- No one is allowed to remain under the suspended load.

Pre-assembled assemblies should always be guided with ropes when moving them by crane.

The access areas on the construction site must be free of obstacles and tripping hazards, and must also be slip-resistant.

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

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



In the case of hydraulic components, follow the instructions found in the Assembly Instructions for “ACS 100 Climbing Device and Hydraulics”.

Component overview and tool list

Pos. no.	Component name	Article no.
1	Enclosure post	–
1.1	Climbing Rail RCS 498	109471
1.2	Climbing Rail RCS 748	109472
1.3	Climbing Rail RCS 248	109469
1.4	Climbing Rail RCS 148	114166
1.5	Climbing Rail RCS 298	112102
2	Climbing Rail RCS	–
2.1	Climbing Rail RCS 748	109472
2.2	Climbing Rail RCS 998	109610
2.3	Climbing Rail RCS 248	109469
2.4	Climbing Rail RCS 348	109470
2.5	Climbing Rail RCS 398	112141
2.6	Climbing Rail RCS 148	114166
3	Spacer M20-82	110022
4	Spacer M24-82	110023
7	Girder VT 20	–
8	Lifting Eye BR-2 2.5 t	127834
9	Compression brace (squared timber)	–
10	Crossbar RCS 103	110234
11	Crossbar RCS 69	111631
12	Diagonal Strut RCS 212	110012
13	Squared Timber Adapter RCS 12/20	110290
14	Enclosure beam (squared timber)	–
15	Adapter VT20/RCS-P	126430
17	Climbing Rail Connector RCS 73	128671
18	Enclosure (multi-layer plywood sheeting)	–
19	Enclosure (trapezoidal metal sheeting)	–
20	Protection edge	–
21	Climbing Rail Extension RCS 100	109791
22	Climbing Rail Connector RCS 33	109743
23	Plate connector Ø 48/12 mm	070030
24	Fitting Pin Ø21x120 mm	104031
25	Fitting Pin Ø26x120 mm	111567
26	Cotter Pin 4/1 ga	018060
27	Cotter Pin 5/1 ga	022230
31	Climbing Rail Connector RCS 73	113744
36	Work platform decking	–
37	Work platform decking (planks)	–
39	Toe board	–
40	Platform beam (squared timber)	–
41	Foldable cover	–
42	Hinge DIN 7957-200-ST	111436

Pos. no.	Component name	Article no.
43	Cover Mat RCS 70 x 70	114113
44	Climbing Shoe RCS	109468
45	Slab Shoe RCS	109567
46	Slab Shoe RCS Corner	110375
47	Anchoring	–
47.1	Screw-On Cone-2 DW20 M24 ga	114158
47.2	Threaded Anchor Plate DW20	030860
47.5	Climbing Cone-2 DW15 M24 ga	031220
47.6	Tie Rod DW15 spec. length	030030
47.7	Threaded Anchor Plate DW15	030840
47.8	Spacer tube Ø 22	–
47.9	Climbing Cone-2 DW20 M30 ga	030920
47.10	Tie Rod DW20 spec. length	030700
48	Stop End Slab Shoe RCS	113232
49	Bolt ISO 4017-M30 x 70-8.8-ga	029420
50	Reducing bushing Ø 30 - 25	113822
51	Stop End Slab Tie M30/25-160	113821
52	Stop End Slab Tie M24/20-128	113820
53	Bolt ISO 4014 M24 x 70-10.9	026430
54	Slab Tie Gauge 61 RCS	114947
59	Wall Shoe RCS	109503
60	Climbing Device RCS 50	109765
61	Hydraulic Twin Hose RCS 10 m	110069
62	Hydraulic Twin Hose RCS 20 m	110070
63	Hydr.Pump RCS 4x190/380-460V	109766
64	Adapter Cable RCS	110280
65	Plug Socket RCS black	110279
66	Wall Shoe RCS rotatable	110667
67	Slab Shoe RCS 30 adjustable	115570
68	Slab Support Tie Shoe RCS M24	112359
69	Slab Support Alignment Shoe RCS	116538
70	Slab Support Adapter RCS	115850
80	Steel Scaff. Tube 48.3x3.2 mm lfm ga	–
81	Bracket A64 DIN 3570	110296
82	Angle Bracket 90° reinforced	123478
84	Standard Coupler NK 48/48	017020
85	Guardrail	–
86	L-bracket RCS	110289
87	Squared timber 50 x 50	–
88	Safety net	–
89	Slab prop	–
90	Bolt ISO 4017 M12 x 140-8.8	110598
91	Bolt ISO 4017 M12 x 240-8.8	110599

Component overview and tool list

Pos. no.	Component name	Article no.
92	Bolt ISO 4014-M20 x 120-8.8	104477
93	Hex. Nut ISO 7042-M20-8	781053
94	Bolt ISO 4014-M24 x 130-8.8	109612
95	Hex. Nut ISO 7042-M24-8	105032
96	Hex. Nut ISO 4032 M12-8	710330
97	Washer ISO 7093 200HV, A12	750350
98	TSS-Torx 6 x 80	024690
99	TSS-Torx 6 x 60	024470
109	Spax Screw TX25, 5 x 20	111437
110	Spax Screw TX30, 6 x 20	129711
111	Spax Screw TX30, 6 x 120	024960
117	Heavy-duty dowel Ø22	–
118	Heavy-duty dowel Ø30	–
119	Hex-Nut DW15 SW30 50 mm ga	030070
120	Heavy Duty Spindle SLS 100-180	101774
121	Spindle Shoe SLS/RCS M24	115298
122	Bracing Shoe RCS DW 15	114997
123	Eye Nut RCS DW 15	115378
124	Forkhead Adapter RCS/SLS	115388
125	Articulated Spanner RCS DW 15	115375
126	Guide-in Tool RCS	114317
136	Fixation Bar RCS	114937
137	Scaffold Tube Holder LPS/RCS Ø48	125856
138	Flap Hinge LPS D48/M10	125461
139	Flap Safety Plate LPS D=48	125458
140	Entry prohibited	–
150	Reinforcement bar	–
151	Anchor Bolt SW24 Ø14/20x130 mm	124777
152	Visual Aid Climbing Shoe RCS	135962
153	Concrete Cone KK M24 Ø67x52 mm	031652

Tool list

Tool name
Ratchet wrench
Extension for the ratchet wrench
Spirit level
Cordless screwdriver
TORX 25 / 30 / 35 screw bits
Ring wrench, open-end wrench, socket wrench AF 16 / 18 / 21 / 30 / 36 / 46
Forstner drill Ø 45
Wood drill Ø 7 / 11 / 12 / 14
Circular saw
Torque wrench
Hammer
Round slings
4-sling lifting gear

Tightening torques

Unless otherwise indicated, PERI recommends the following guide values for screw connections as "hand-tightened" tightening torques $M_{A,hand\text{-}tightened}$.
These guide values are based on DIN EN 15048-1:2016-09 with minimum Safety Factor 3 against breakage.

Quality class	Quality 4.6		Quality 8.8 and 10.9
Lubrication	**Lightly oiled**	**MoS2**	**Undefined**
Screw M8	8 Nm	6.6 Nm	8 Nm
Screw M10	16 Nm	13.0 Nm	16 Nm
Screw M12	30 Nm	23.0 Nm	30 Nm
Screw M16	65 Nm	54.0 Nm	65 Nm
Screw M20	100 Nm		100 Nm
Screw M24	150 Nm		150 Nm
Screw M30	260 Nm		260 Nm
Screw M36	350 Nm		350 Nm
Tightening torques have been determined for the following components:			
Bolt of spacer M20			100 Nm
Bolt of spacer M24			150 Nm
Slab Shoe RCS M24			60 Nm
Stop End Slab Shoe RCS M24			100 Nm
Stop End Slab Shoe RCS M30			100 Nm
Slab Shoe RCS Corner M24			60 Nm
Scaffolding tube coupling			50 Nm
Tie Bolt PERI 14/20 x 130			50 Nm

Abbreviations used

c_1 Tie spacing to slab edge
d_1 Distance between tie bolt and slab edge
d_2 Distance between slab shoe and slab edge
b_n Width of n-th designated section
c Climbing rail spacing
d_n Thickness of n-th designated section
G Weight force
V Vertical force
V_{AX} Tie shear force
N_A Tie tensile force
P_c Support force of the slab
h height
h_n Height of n-th designated section
h_B Storey height
h_P Projecting height of the protection panel
h_{nom} Installation depth of anchoring
$\mathbf{H_x}$ Horizontal force
L Length
L_n Length of n-th designated section
L_S Length of tie rod
L_T Length of the spacer tube
$L_{1,2}$ Length of the climbing rail
q Wind load
v Speed

A1 System variants

The climbing enclosure can be assembled in 4 basic variants.

Variant 1:
Minimum width with a narrow work platform for one storey in advance,
Storey height h_B = 2.80 – 4.50 m.

Variant 2:
Several wide work platforms for one storey in advance.
Storey height h_B = 2.80 – 4.50 m.

Variant 3:
Several wide work platforms for two storeys in advance.
Storey height h_B = 2.80 – 4.00 m.

Variant 4:
Without work platforms, with straight protection screen.
Storey height h_B = 2.80 – 4.50 m.

In all variants, the climbing rails (**2**) are supported by slab shoes (**45**) which are mounted on pre-completed floor slabs.

The enclosures, e.g. multi-layer plywood sheets (**18**) or trapezoidal metal sheeting (**19**) are mounted on the climbing rails (**2**) using squared timbers (**14**) and squared timber adapters (**13**).

Gaps between floor slabs and the climbing enclosure are closed with foldable covers (**41**).
During the climbing procedure, these are folded up and secured in position.

Assembly of the climbing enclosure varies depending on the storey height, projection of the slab formwork and type of lateral protection used.

Variant 1

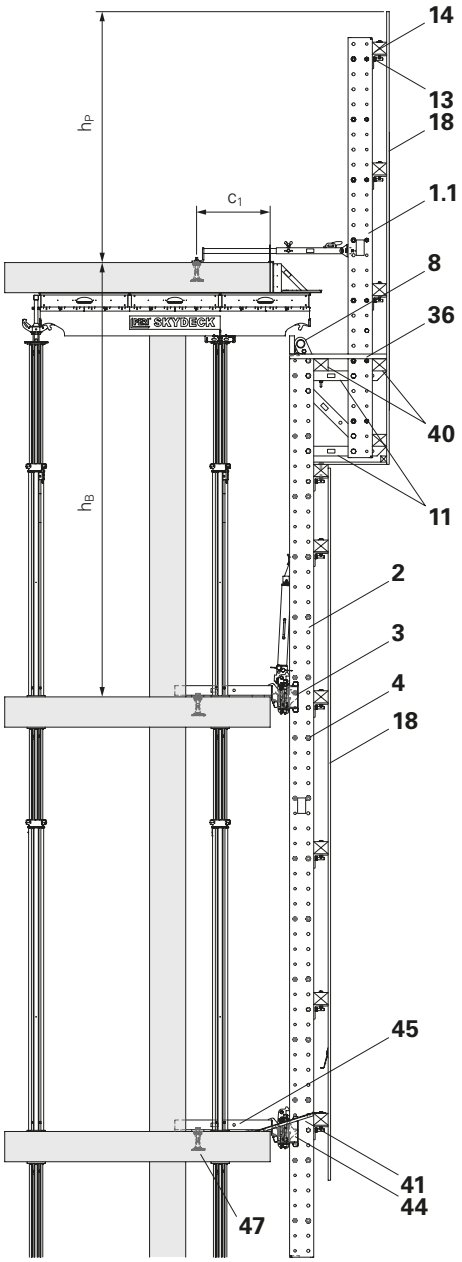


Fig. A1.01

Components

1.1 Climbing Rail RCS 498
1.2 Climbing Rail RCS 748
2 Climbing rail
2.2 Climbing Rail RCS 998
3 Spacer M20-82
4 Spacer M24-82
8 Lifting Eye BR-2 2.5 t
10 Crossbar RCS 103
11 Crossbar RCS 69
12 Diagonal Strut RCS 212
13 Squared Timber
Adapter RCS 12/20
14 Enclosure beam (squared timber)
18 Enclosure (multi-layer plywood sheeting)
36 Work platform decking
40 Platform beam (squared timber)
41 Foldable cover
44 Climbing Shoe RCS
45 Slab Shoe RCS
47 Anchoring

(Fig. A1.01 + A1.02)

Variant 2

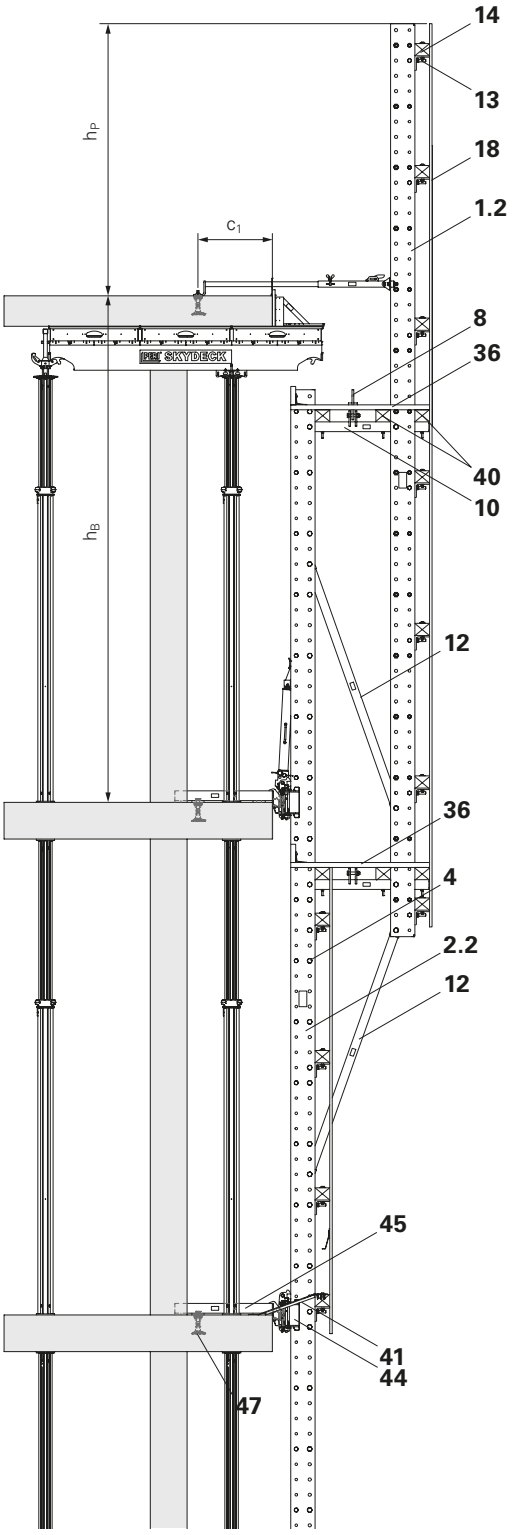


Fig. A1.02

A1 System variants

Components

1.2 Climbing Rail RCS 748
1.4 Climbing Rail RCS 148
1.5 Climbing Rail RCS 298
2 Climbing rail
8 Lifting Eye BR-2 2.5 t
10 Crossbar RCS 103
12 Diagonal Strut RCS 212
13 Squared Timber Adapter RCS 12/20
13.1 Eyebolt M20
14 Enclosure beam (squared timber)
17 Climbing Rail Connector RCS/ LPS 73
18 Enclosure (multi-layer plywood sheeting)
31 Climbing Shoe Connector RCS 73
36 Work platform decking
39 Toe board
40 Platform beam (squared timber)
41 Foldable cover (multi-layer plywood sheeting)
42 Hinge DIN 7957-200-ST
44 Climbing Shoe RCS
45 Slab Shoe RCS
47 Anchoring
60 Climbing Device RCS 50
90 Bolt ISO 4017 M12 x 140-8.8
91 Bolt ISO 4017 M12 x 240-8.8
92 Bolt ISO 4014-M20 x 120-8.8
94 Bolt ISO 4014-M24 x 130-8.8
96 Hex. Nut ISO 4032 M12-8
120 Heavy Duty Spindle SLS 100-180

(Fig. A1.03 – A1.06)

Variant 3

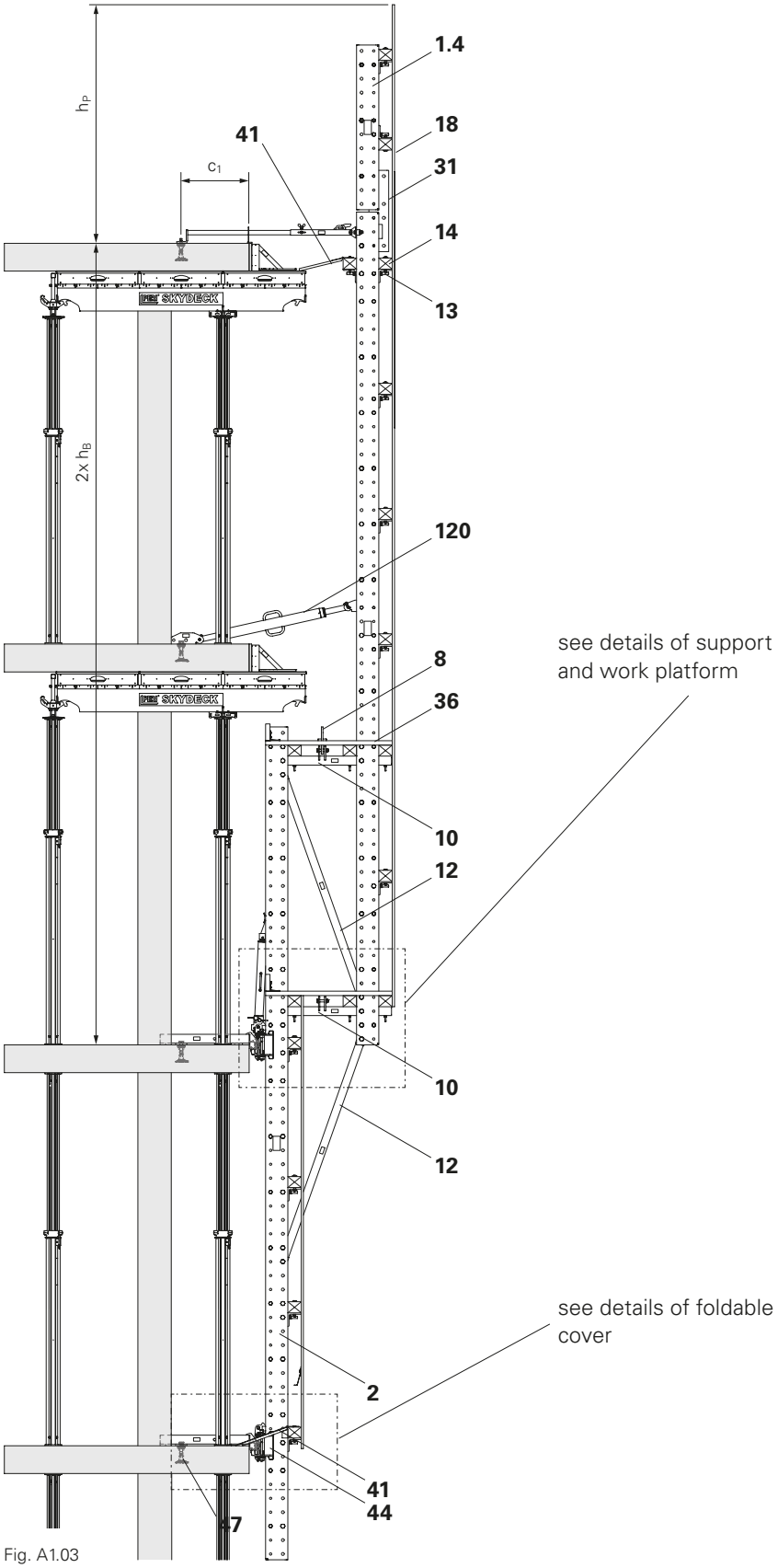


Fig. A1.03

Details of support and work platform

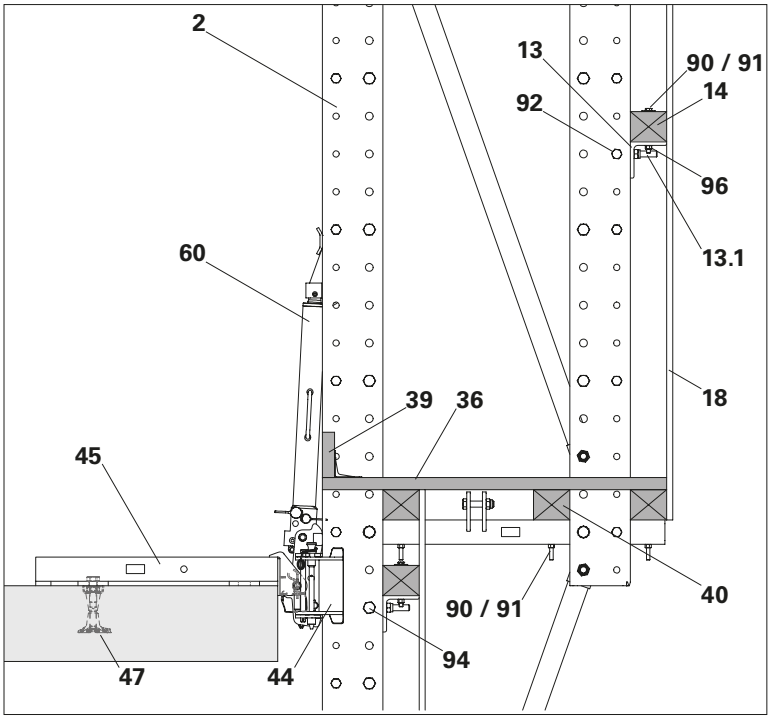


Fig. A1.04

Details of foldable cover

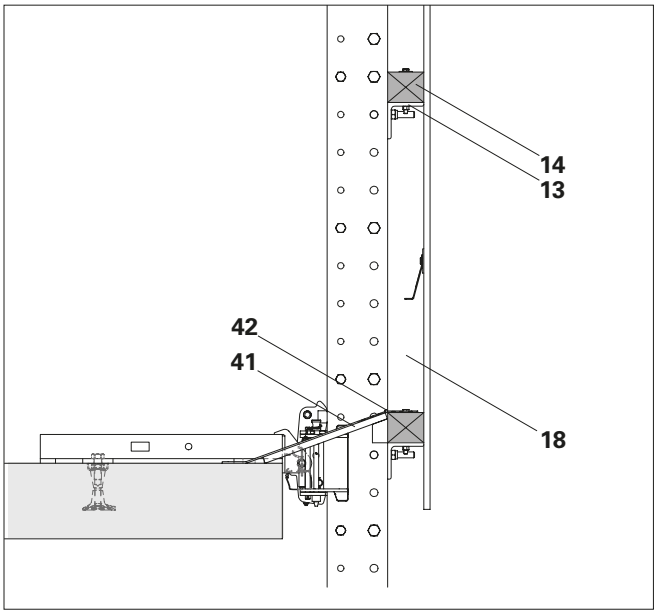


Fig. A1.05

Variant 4

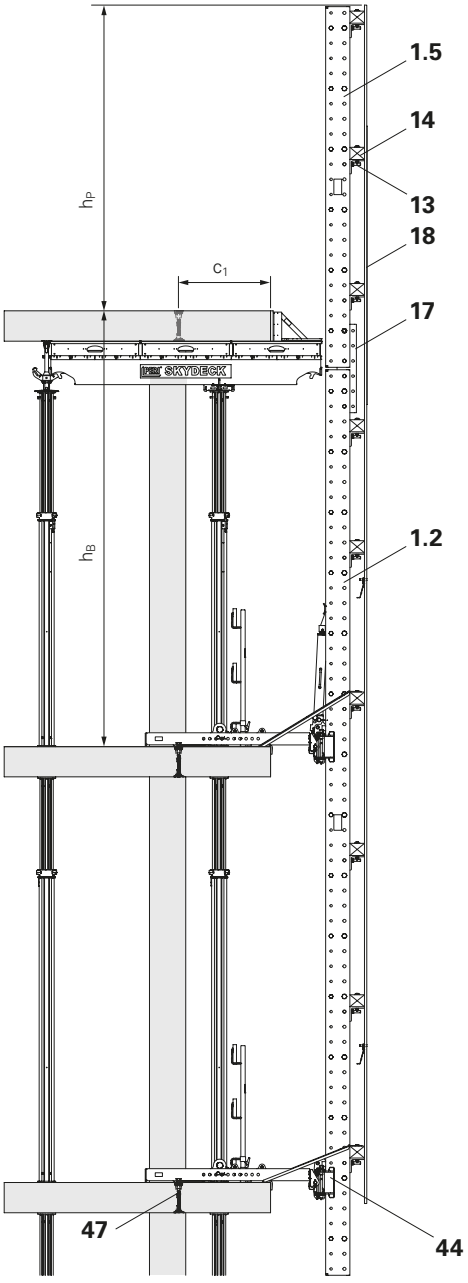


Fig. A1.06

Climbing device

This section provides basic information about the climbing device and hydraulic pump. Further information can be found in the following sections and in the separate instructions for use "RCS Climbing Device and Hydraulics" and "RCS-2 Climbing Device and Hydraulics".

Climbing Device RCS 50
The Climbing Device RCS 50 is used for gradually climbing the climbing enclosure.
After the climbing procedure is completed, the climbing enclosure must be placed on the climbing pawls of the climbing shoes ensuring that the load is fully supported. The climbing device must be free of load.
(Fig. A2.01 + Fig. A2.02)

Main components

60 Climbing Device RCS 50
60.1 Claw
60.2 Cylinder base
60.3 Return from rod side with hydraulic quick coupler (nipple) left and right with protective cap
60.4 Inflow to the piston base with the hydraulic quick coupler (bushing) left + right with protective cap
60.5 Cylinder repositioning (spring-loaded)
60.6 Locking lever (spring-loaded)
60.7 Roller

The quick couplers on the climbing device and hydraulic pump are interchangeable. The feed line and return line cannot be mixed up.

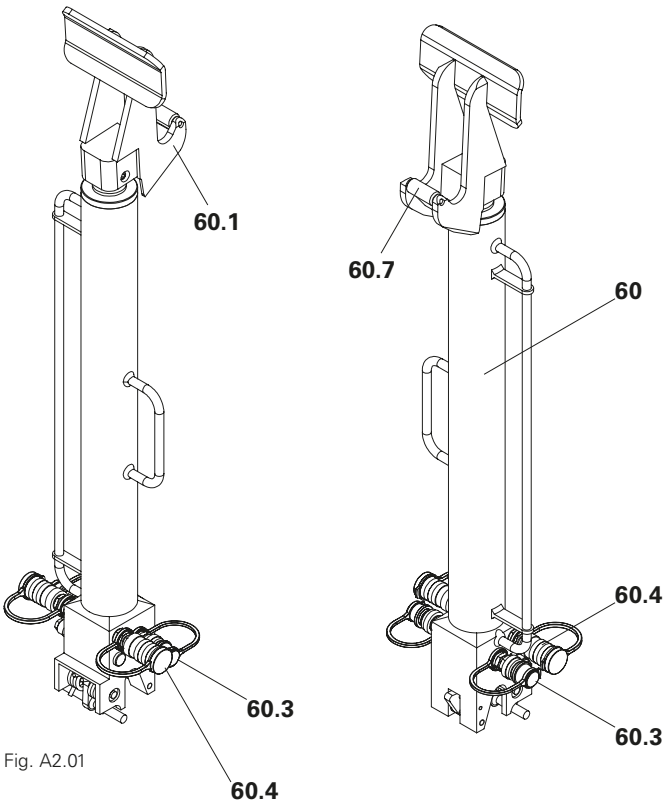


Fig. A2.01

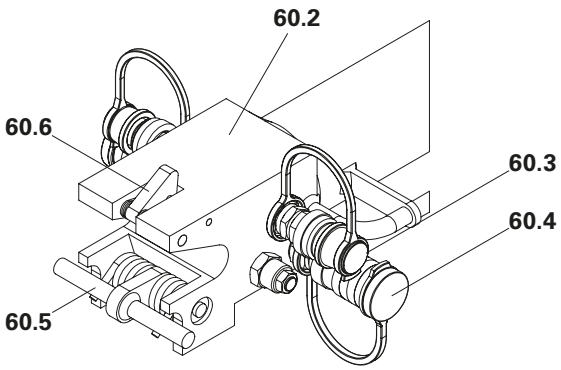


Fig. A2.02

- As an alternative to climbing device 50, climbing device-2 50 can also be used without restrictions.
- Do not combine climbing device 50 and climbing device-2 50.

To avoid collisions of the quick couplers with platforms or other parts of the climbing protection panel during climbing, it is possible to arrange the couplers vertically with angle pieces.
→ Contact PERI.

Hydraulic pump and accessories

Hydr.Pump RCS 4x190/380-460V
Hydr.Pump RCS for four Climbing Devices RCS 50.
Fig. A2.03

Main components

63 Hydraulic Pump RCS 4 x 190 bar, 380 - 460 V
63.1 Control lever
63.2 Switch unit
63.3 Power socket with phase inverter
63.4 Hydraulic oil tank
63.5 Filler tube
63.6 Oil level indicator; thermometer
63.7 Oil filter
63.8 Return from the piston-rod side of the cylinder with the hydraulic quick coupler (bushing)
63.9 Inflow to the piston head side of the cylinder with hydraulic quick coupler (nipple)
63.10 Rotary field control lamp

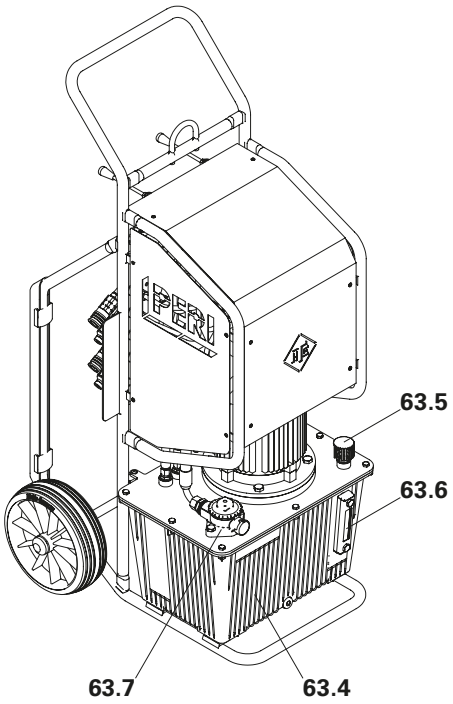


Fig. A2.03a

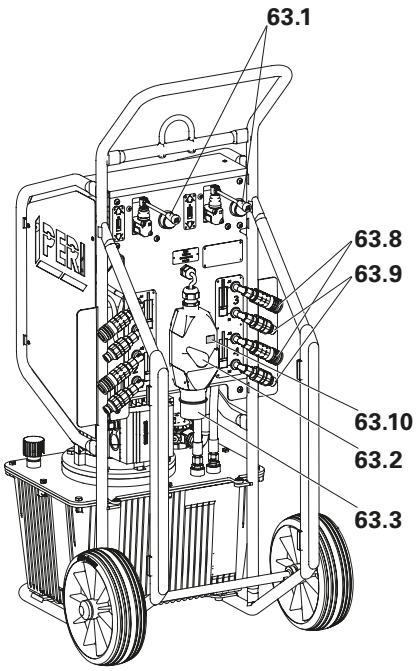


Fig. A2.03b

Accessories
(Fig. A2.04 + Fig. A2.05)

64 Adapter Cable RCS for supply line with CEE socket, operational voltage 380 – 400 V/16 A, 50 Hz
65 Plug Socket RCS black for mounting an adapter cable carried out by a qualified electrician. Operational voltage 380 – 460 V, 50 – 60 Hz

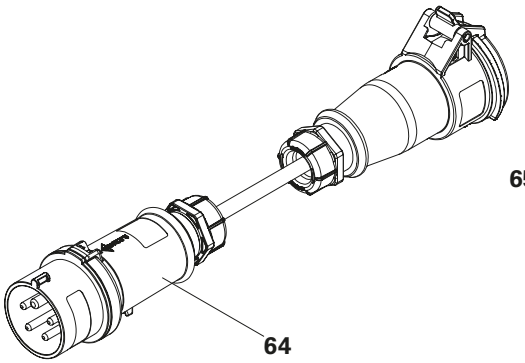


Fig. A2.04

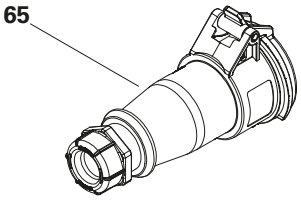


Fig. A2.05

Hydraulic hose
The hydraulic twin hose is available in lengths (**L**) of 10 m and 20 m.
(Fig. A2.06 + Fig. A2.07)

Main components

61 Hydraulic Twin Hose RCS 10 m
62 Hydraulic Twin Hose RCS 20 m
61.3 Hydraulic quick coupler (bushing)
61.4 Hydraulic quick coupler (nipple)

During transport, join the two coupler ends together to protect the hoses.

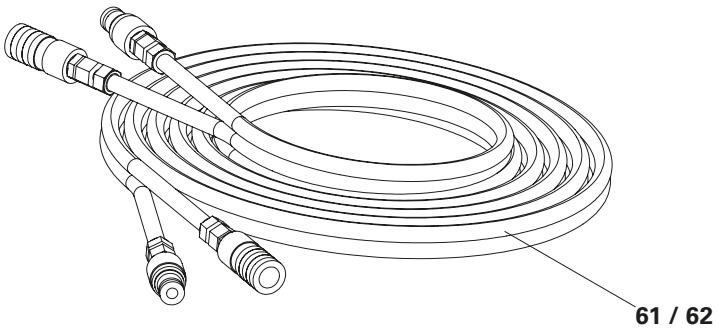


Fig. A2.06

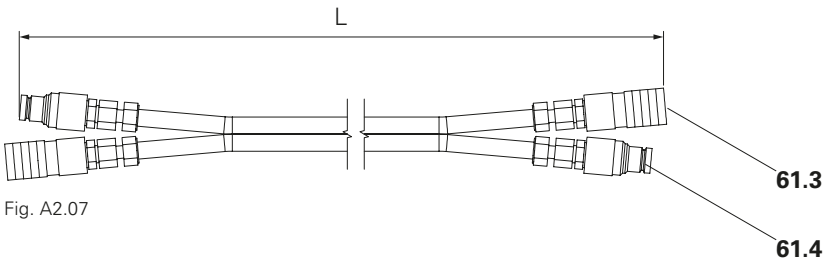


Fig. A2.07

1* safety components.

Slab Shoes RCS

Slab Shoe RCS
(Article no. 109567)
The Slab Shoe RCS is attached to the anchoring in the concrete slab.
(Fig. A2.08)
For installation, see Section “Suspension with slab shoe” on page 53.

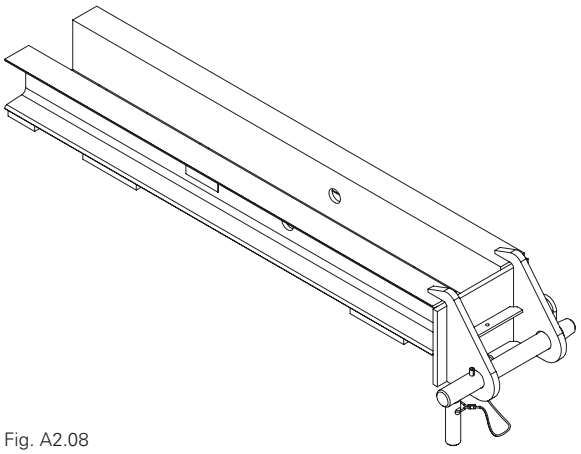


Fig. A2.08

Slab Shoe RCS Corner
(Article no. 110375)
The Slab Shoe RCS Corner is attached to the anchoring in the concrete slab. The Slab Shoe RCS Corner is combined with the Slab Shoe RCS in the corner.
(Fig. A2.09)
For installation, see Section “Non-rectangular building corners” on page 76.

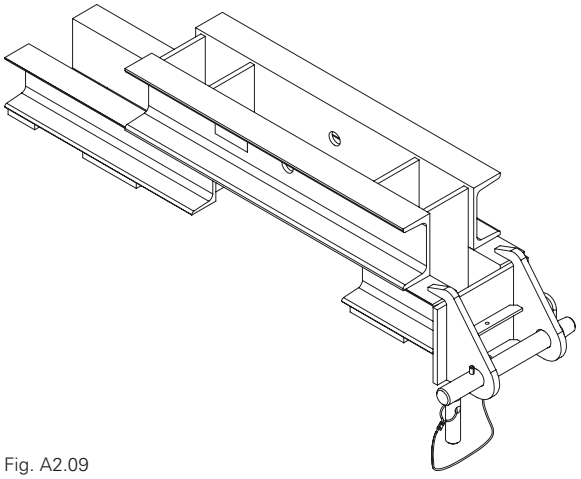


Fig. A2.09

Slab Shoe RCS 30 adjustable
(Article no. 115570)
The Slab Shoe RCS 30 adjustable is used at the anchoring in the concrete slab for recessed slab edges.
The Slab Shoe RCS 30 adjustable compensates for an offset of max. 30 cm.
(Fig. A2.10)

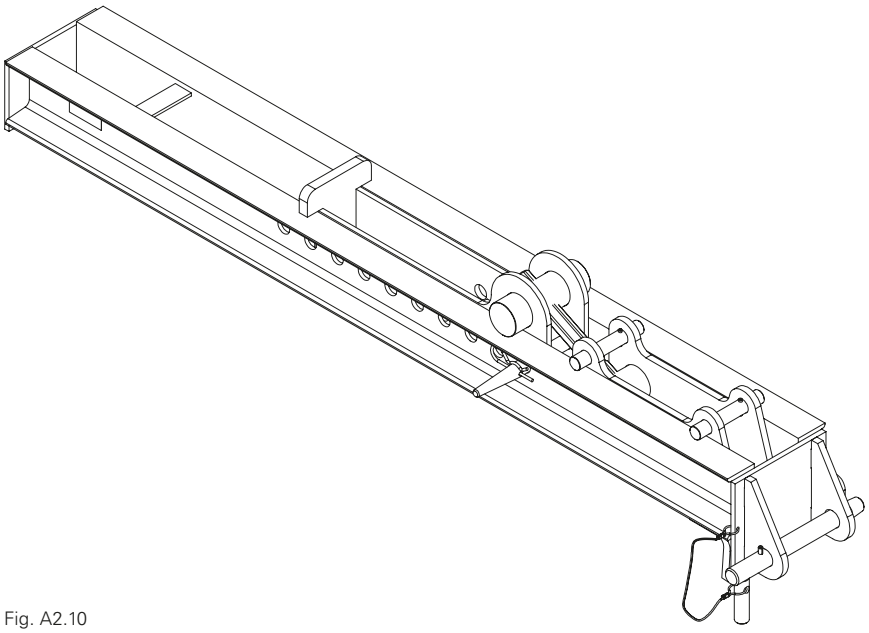


Fig. A2.10

Cantilevered anchoring
The cantilevered anchoring is used at the anchoring in the concrete slab for recessed slab edges.
The cantilevered anchoring compensates for an offset of more than 30 cm.
(Fig. A2.11)
For installation, see Section “Cantilevered anchoring” on page 82.

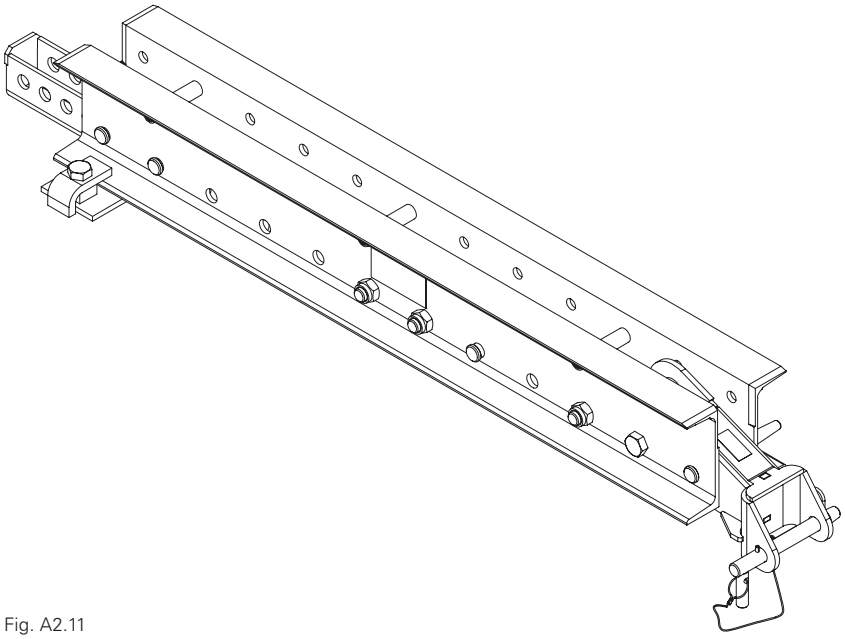


Fig. A2.11

Stop End Slab Shoe RCS
(Article no. 113232)
The Stop End Slab Shoe RCS is screwed directly onto the stop end slab tie.
(Fig. A2.12)
For installation, see Section “Anchoring on the front side of the slab” on page 80.

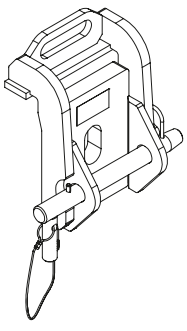


Fig. A2.12

Wall Shoes RCS

Wall Shoe RCS
(Article no. 109503)
The Wall Shoe RCS is screwed directly onto the climbing tie.
(Fig. A2.13)

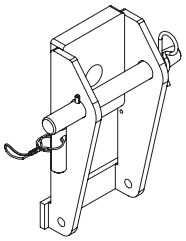


Fig. A2.13

Wall Shoe RCS rotatable
(Article no. 110667)
The Wall Shoe RCS is screwed directly onto the climbing tie.
The Wall Shoe RCS rotatable has a swivel range of ±15°. This makes it possible to climb structures with a rounded geometry.
(Fig. A2.14)
For further information on round structures, see Section "Units on circular structures" on page 78.

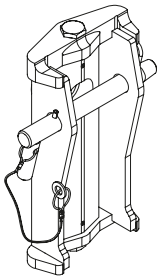


Fig. A2.14

Climbing Shoe RCS

Functions of the climbing shoe

- Guides and supports the Climbing Rail RCS.
- The climbing unit is attached to the climbing shoes.
- Takes vertical loads and transfers them into the structure via the anchoring.
- It takes horizontal loads and transfers them into the structure by way of the anchoring.

The Climbing Shoe RCS is mounted on a slab shoe or wall shoe. Different slab shoes or wall shoes are available for this purpose depending on the application.
(Fig. A2.15)

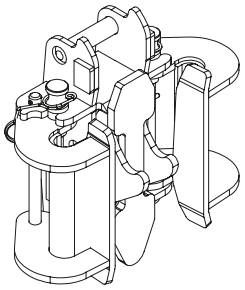


Fig. A2.15

Opening and closing the climbing shoe

The safety pins (**44.3**) hold the guiding skids (**44.2**) in a closed position. (Fig. A3.01)

Components

44 Climbing Shoe RCS
44.1 Climbing pawl
44.2 Guiding skids
44.3 Safety pins
44.7 Spring lock

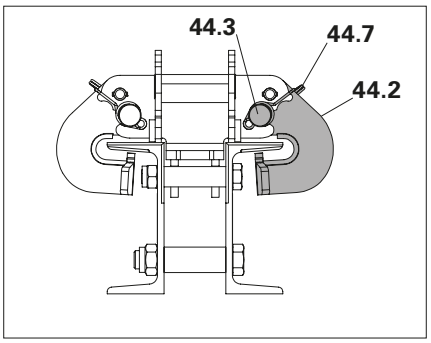


Fig. A3.01a

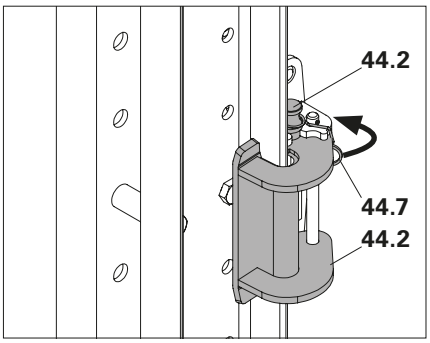


Fig. A3.01b

Opening the climbing shoe

1. Release the locking spring (**44.7**). For this, pull out the ring under the guiding skid (**44.2**). (Fig. A3.01)
2. Lift safety pin (**44.3**).
3. Fold up guiding skids (**44.2**). (Fig. A3.02)
4. Re-insert safety pins (**44.3**) in the opened position; place the locking spring (**44.7**) only loosely on the guiding skid. (Fig. A3.03)
5. Proceed in the same way with the other guiding skid. (not shown)

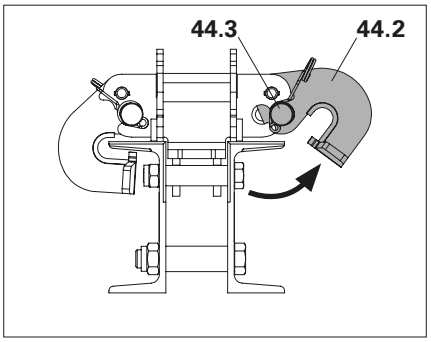


Fig. A3.02a

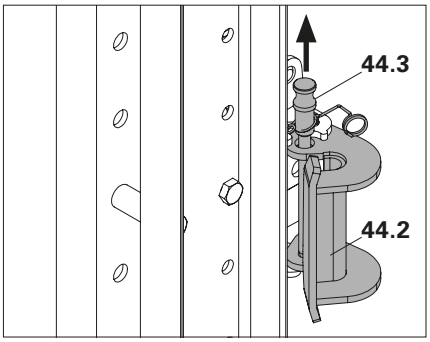


Fig. A3.02b

Opening the guiding skids facilitates the process of inserting the climbing rail during climbing and allows the climbing rail to be inserted during initial assembly.

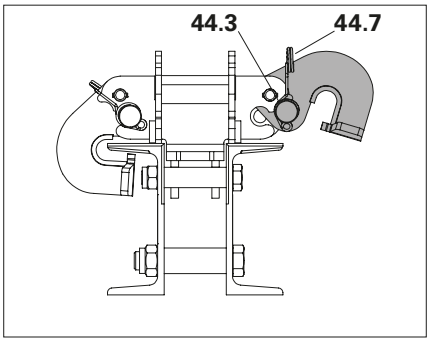


Fig. A3.03a

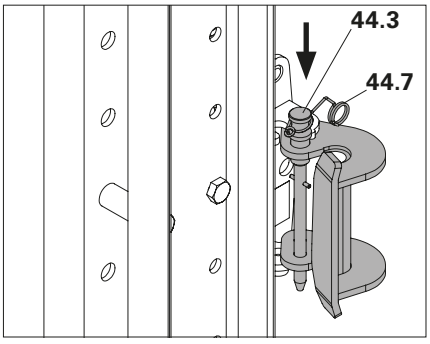


Fig. A3.03b

Closing the climbing shoe

1. Lift safety pin (**44.3**). (Fig. A3.04)
2. Fold guiding skid (**44.2**) forwards. (Fig. A3.05)
3. Reinsert the locking bolt (**44.3**) completely in the closed position.
4. Fix the locking spring in place (**44.7**). For this, the ring is snapped into place under the guiding skid (**44.2**). (Fig. A3.06)
5. Proceed in the same way with the other guiding skid.

Are both locking pins completely inserted and is the locking spring fixed in position?

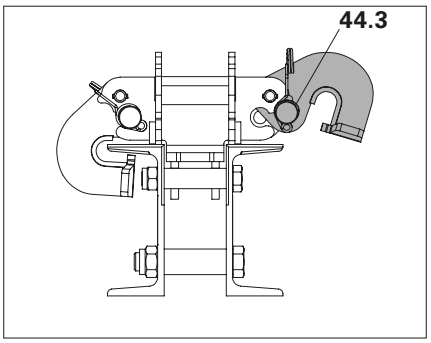


Fig. A3.04a

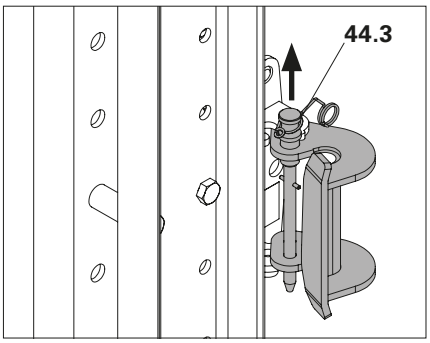


Fig. A3.04b

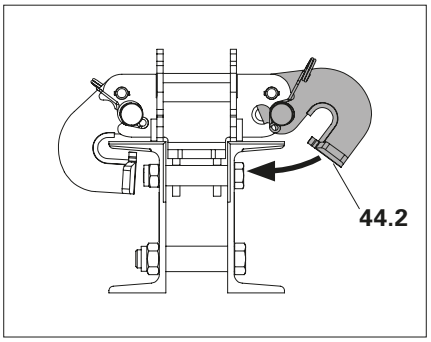


Fig. A3.05a

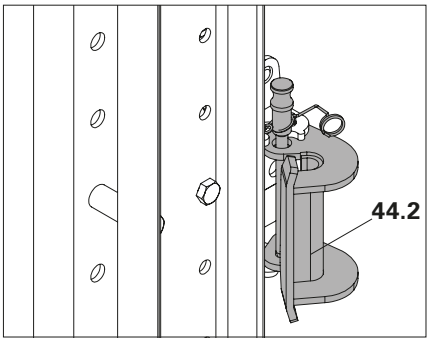


Fig. A3.05b

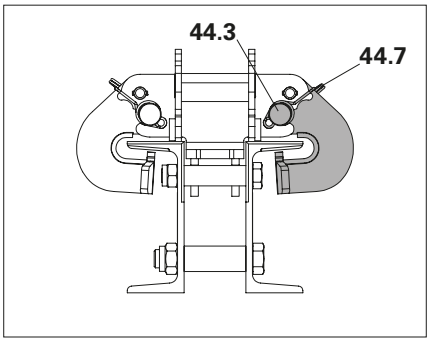


Fig. A3.06a

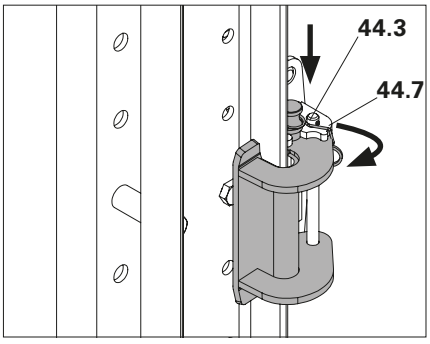


Fig. A3.06b

Activating and deactivating the climbing pawl

Warning

Hands can become trapped between climbing rails and climbing shoes!
This can result in serious injuries.
⇒ Only activate or deactivate the climbing pawl when the climbing unit has stopped moving.
⇒ Do not reach into the climbing rail during the climbing procedure.

Deactivating the climbing pawl

Components

44	Climbing Shoe RCS
44.1	Climbing pawl
44.4	Pawl lock
44.5	Hinged bracket

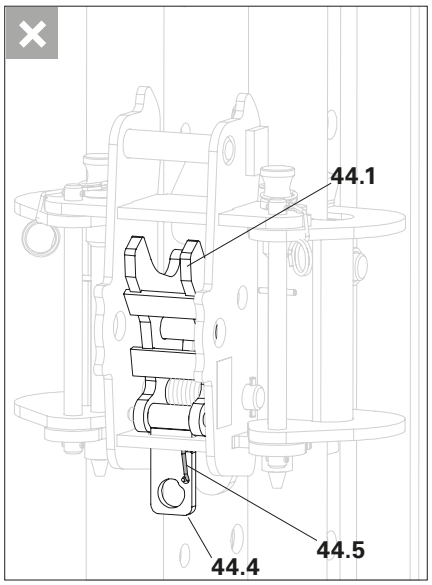


Fig. A3.07a

1. Ensure that the climbing unit is stationary.
2. Pull down the pawl lock (**44.4**) on the climbing shoe.
3. Fold up the hinged bracket (**44.5**) on the pawl lock and then let go of the pawl lock.

→ The hinged bracket is then clamped and blocks the pawl lock.
→ The climbing pawl (**44.1**) is deactivated and therefore non-operational.
(Fig. A3.07)

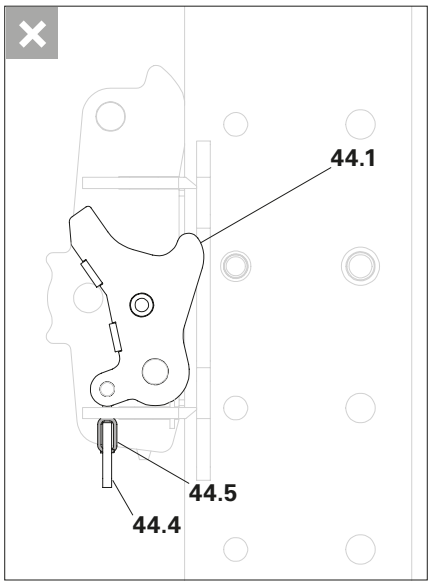


Fig. A3.07b

- In this position, no vertical forces from the climbing rail can be transferred via this particular shoe.
- If the climbing pawl is deactivated, this is indicated in the instructions by the following symbol:

Activating the climbing pawl

Components

44 Climbing Shoe RCS
44.1 Climbing pawl
44.4 Pawl lock
44.5 Hinged bracket

1. Ensure that the climbing unit is stationary.
2. Pull down the pawl lock (**44.4**) on the climbing shoe.
3. Fold down the hinged bracket (**44.5**) on the pawl lock and then let go of the pawl lock.

→ The climbing pawl (**44.1**) jumps into its working position.

→ The climbing pawl is activated and therefore operational.

(Fig. A3.08)

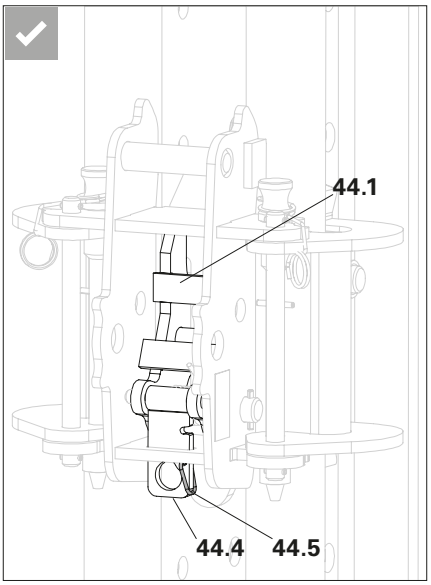


Fig. A3.08a

Can the climbing pawl move freely?
Is the hinged bracket hanging downwards?

- This position serves the purpose of transferring vertical forces from the climbing rail during working operations and climbing.
- If the climbing pawl is activated, this is indicated in the instructions by the following symbol:

- For storey heights that are divisible by 50 cm, only activate the pawls on the climbing shoes that serve as the planned vertical support. Deactivate all other climbing shoes.

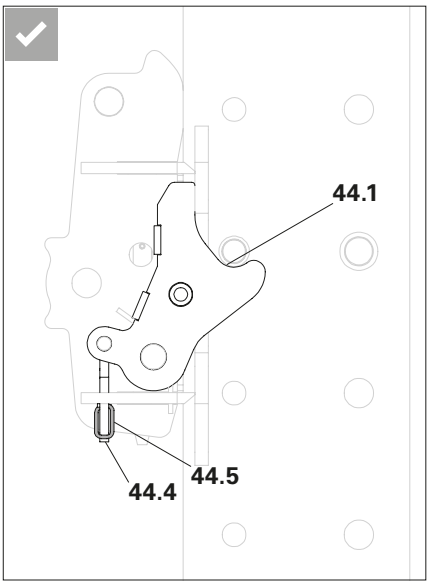


Fig. A3.08b

Visual Aid Climbing Shoe RCS

Alternatively, the Climbing Shoe RCS can be activated and deactivated using the Visual Aid Climbing Shoe RCS.

Warning

Hands can become trapped between climbing rails and climbing shoes!
This can result in serious injuries.
⇒ Only activate or deactivate the climbing pawl when the climbing unit has stopped moving.
⇒ Do not reach into the climbing rail during the climbing procedure.

Components

44 Climbing Shoe RCS
44.1 Climbing pawl
152 Visual Aid Climbing Shoe RCS

Deactivating the climbing pawl

1. Ensure that the climbing unit is stationary.
2. Swing the Visual Aid Climbing Shoe RCS (**152**) on the Climbing Shoe RCS (**44**) downwards.
   → The climbing pawl (**44.1**) is deactivated and therefore non-operational.

(Fig. A3.09)

- In this position, no vertical forces from the climbing rail can be transferred via this particular shoe.
- If the climbing pawl is deactivated, this is indicated in the instructions by the following symbol:

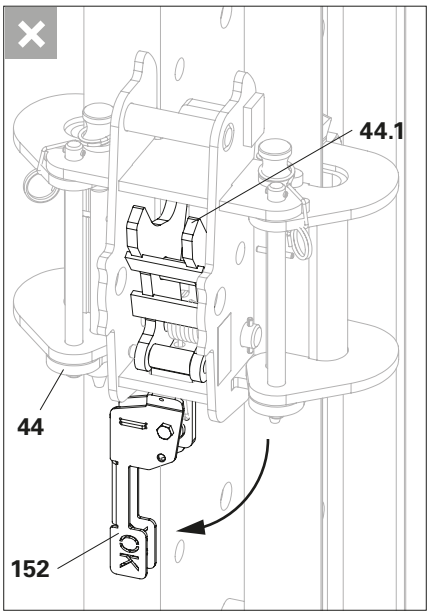


Fig. A3.09a

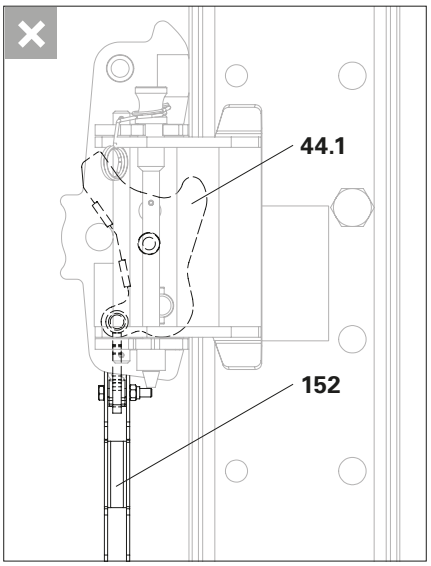


Fig. A3.09b

Activating the climbing pawl

1. Ensure that the climbing unit is stationary.
2. Swing the Visual Aid Climbing Shoe RCS (**152**) on the Climbing Shoe RCS (**44**) upwards.
   → The climbing pawl (**44.1**) is activated and therefore operational.

(Fig. A3.10)

- Can the climbing pawl (**44.1**) move freely?
- Is the Visual Aid Climbing Shoe RCS (**152**) suspended horizontally?
- Is the pawl spring functional and not broken?

- This position serves the purpose of transferring vertical forces from the climbing rail and driving rail during working operations and climbing.
- If the climbing pawl is activated, this is indicated in the instructions by the following symbol:

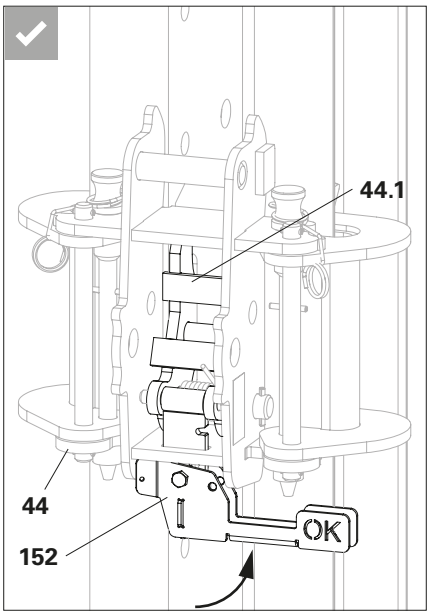


Fig. A3.10a

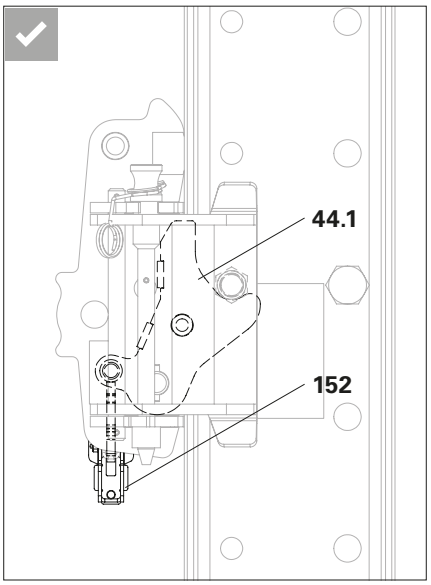


Fig. A3.10b

Operating states and loads

Operating status: Working
All work carried out with protection provided by the climbing protection panel and on its work platforms: assembly of the slab and column formwork, concreting and striking, inspection and maintenance.

- Platforms must be freely accessible for the required work to be carried out.
- Max. wind speed 100 km/h.

Operating status: Climbing
Moving the climbing unit by crane or by means of the hydraulic climbing device.

- Non-planned loads on the platforms are to be removed.
- Crane-assisted climbing: **Personnel are not allowed on the platforms during the climbing procedure.**
- Self-climbing: **Personnel required for climbing are usually on the floor slab.**
- Max. wind speed 72 km/h. (**0.25 kN/m²**).



The project-related assumed dynamic wind pressure, which was taken as basis for the design, has to be stated on the execution plan.

Live loads
Determine the live loads of the platforms on a project-specific basis.

Non-Operative
During longer work breaks, overnight, in the case of storm warnings, with assumed or recorded wind speeds over 100 km/h.

- Accessing the platforms during storm conditions is prohibited.
- Materials and equipment are to be removed from the platforms.
- The assumed wind speed (dynamic wind pressure) during storm conditions is calculated based on the respective application height, wind zone and terrain category according to DIN EN 1991-1-4:2010-12. Comply with the relevant national guidelines and regulations!
- If given limits are exceeded, a visual inspection of all bearing components and a functional check of all safety components are necessary for further use.
- If a storm warning has higher wind speeds than originally stated, the site management has to be informed. All enclosure tarpaulins are to be removed and the climbing protection panel is to be supported by means of additional struts.
- On the instructions of authorised site personnel, the climbing protection panel can be climbed down to the previous storey. For this, additional instructions are required.
- If a storm warning with wind speeds of more than 100 km/h is assumed, additional safety measures on all corner elements are required.

Work sequence for variant 1 – 3

The difference in the work sequence of variants 1 – 3 and 4 is primarily due to when the slab is struck.

All variants can be climbed using the hydraulic self-climbing device or by crane.

Variant 1 – 3
Climbing enclosure with work platform.

The slab formwork is in the way during the climbing procedure. PERI recommends a slab formwork system, e.g. SKYDECK, which allows early striking. The example shows the operating sequence with SKYDECK Slab Formwork.

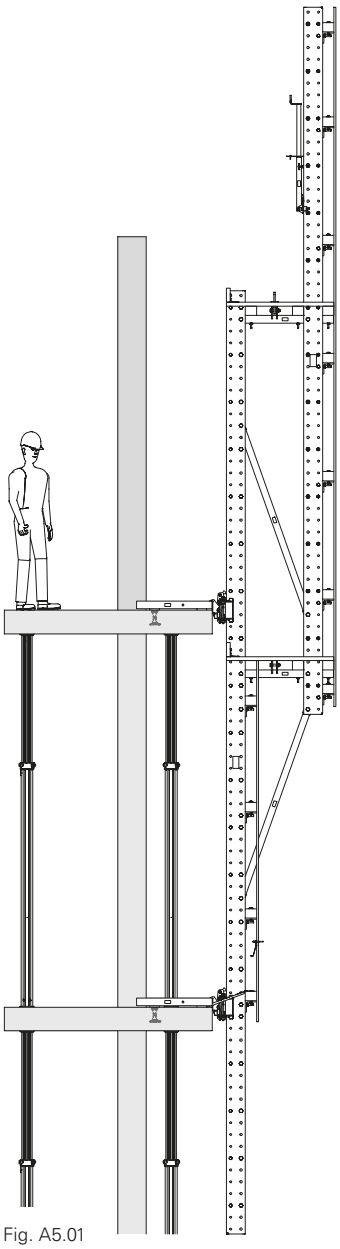


Fig. A5.01

Step 1
Climbing enclosure is in position.
Close cover flaps.
Concrete the columns.

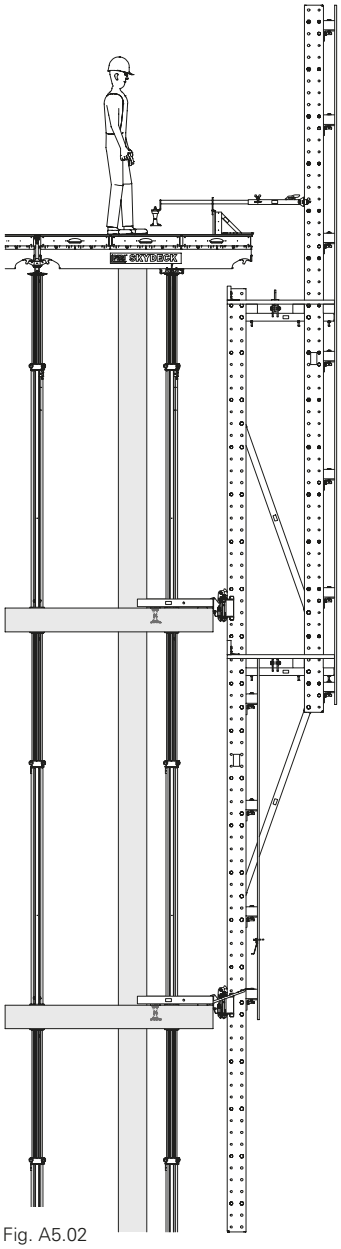


Fig. A5.02

Step 2
Erect slab formwork with stop ends.
Install leading tie with the aid of the slab tie gauge.

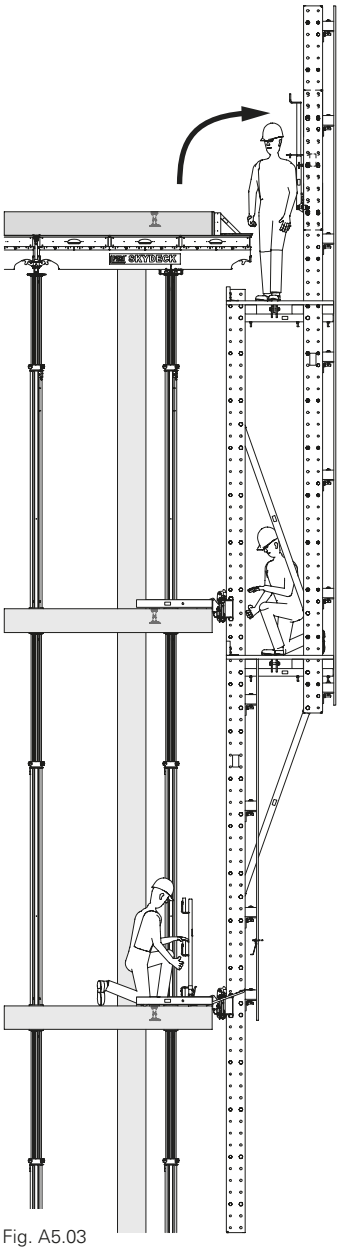


Fig. A5.03

Step 3
Concrete the slab.
Fold up the slab tie gauge.
Install guardrails.
Remove lower slab formwork and back-prop.

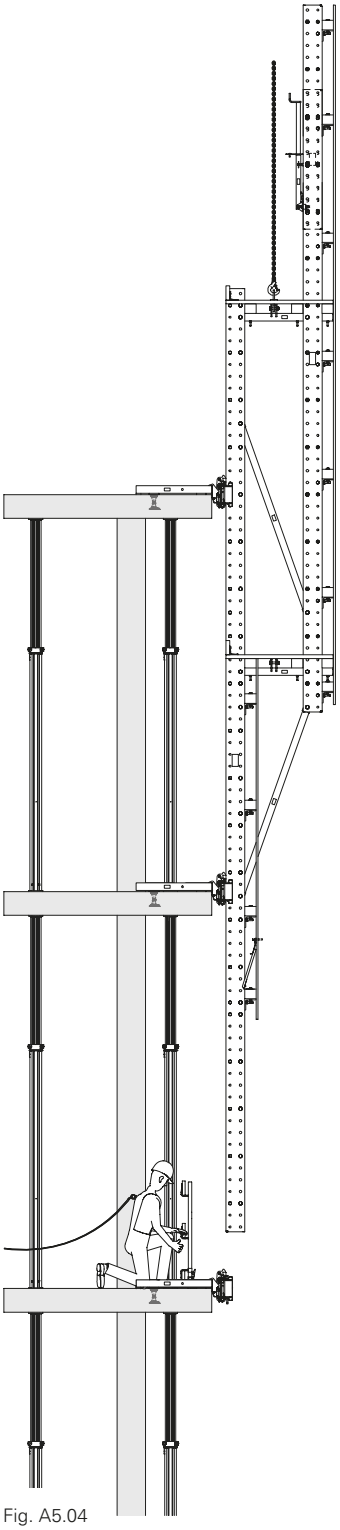


Fig. A5.04

Step 4
Fit the upper slab shoes.
Strip slab formwork and back-prop.
Open cover flaps.
Climb climbing enclosure hydraulically or by crane (as depicted above).
Remove lower slab shoes, safeguard employees with PPE, if necessary.

Work sequence for variant 4

Variant 4
Climbing enclosure with straight protection screen.

The slab formwork can remain in position. The climbing enclosure can climb past the slab formwork.

Example
Operating sequence with shortened cycle times if two sets of SKYDECK Slab Formwork are used.

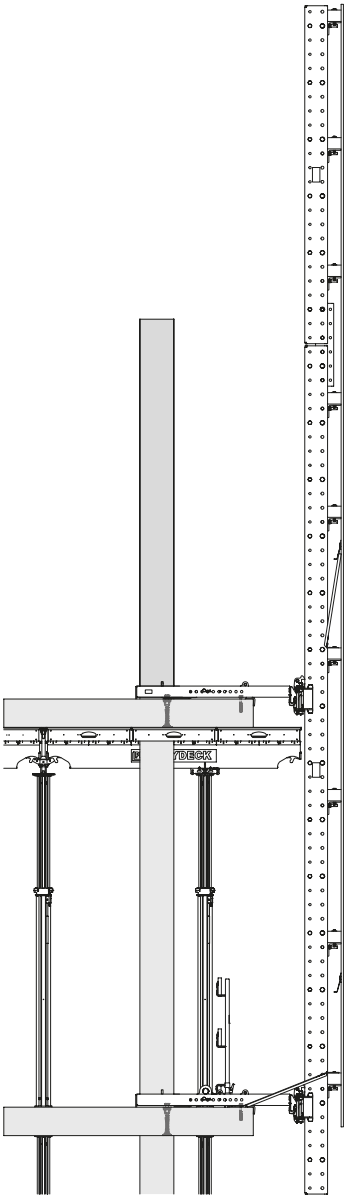


Fig. A5.05

Step 1
Climbing enclosure is in position.
Close cover flaps.
Concrete the columns.

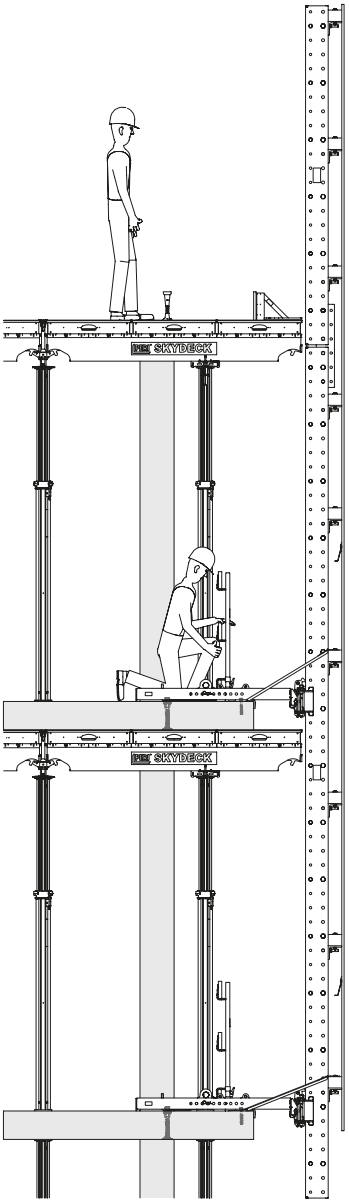


Fig. A5.06

Step 2
Install guardrails.
Erect slab formwork with stop ends.
Fit the leading tie.

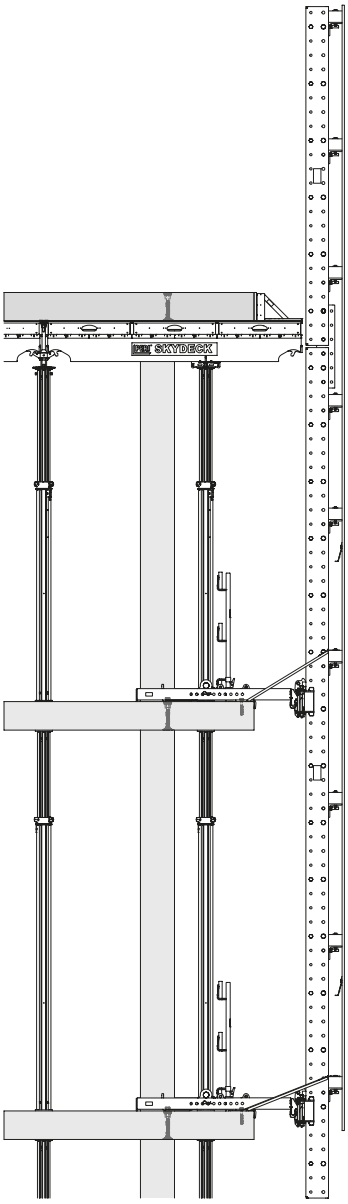


Fig. A5.07

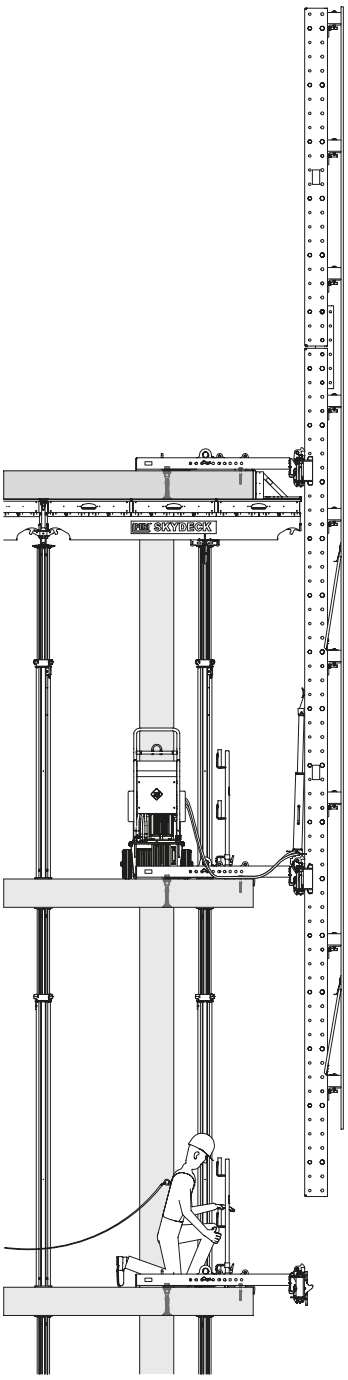


Fig. A5.08

Step 3
Concrete the slab.
Remove lower slab formwork and back-prop.

Step 4
Fit the upper slab shoes.
Open cover flaps.
Climb climbing enclosure hydraulically or by crane (as depicted above).
Remove lower slab shoes, safeguard employees with PPE, if necessary.

System dimensions

Climbing rails

The length of the climbing rail L_1 (**2**) corresponds to the height of the storeys h_B.
It must correspond to at least the height of two successive storeys plus an overlap for safety reasons.
With changing storey heights, the largest dimension of two consecutive storeys must be selected.
Projecting height of the protection panel $h_P \geq 2.00$ m.

- At least 2 slab shoes must guide each climbing rail at all times.
- It is possible to plan so that the climbing rail does not overlap 2 entire storeys for those intermediate storeys with larger storey heights. In this case, self-climbing is not possible. When climbing with the crane, special measures are required because there is no climbing rail guide. These special measures must be defined in manufacturer-specific assembly instructions.

After calculation, the next largest Climbing Rail RCS must be used.

Calculation for variant 1
(Fig. B1.01)
Climbing Rail RCS (**2**).
$L_1 \geq h_{B1} + h_{B2} + 28$ cm.
Enclosure Post RCS (**1**)
$L_2 \geq h_3 + h_4 + h_p$

Calculation for variant 2
(Fig. B1.02)
Climbing Rail RCS (**2**).
$L_1 \geq h_{B1} + h_{B2} + 28$ cm.
Enclosure Post RCS (**1**)
$L_2 \geq h_{B2} + h_p$.

Variant 1

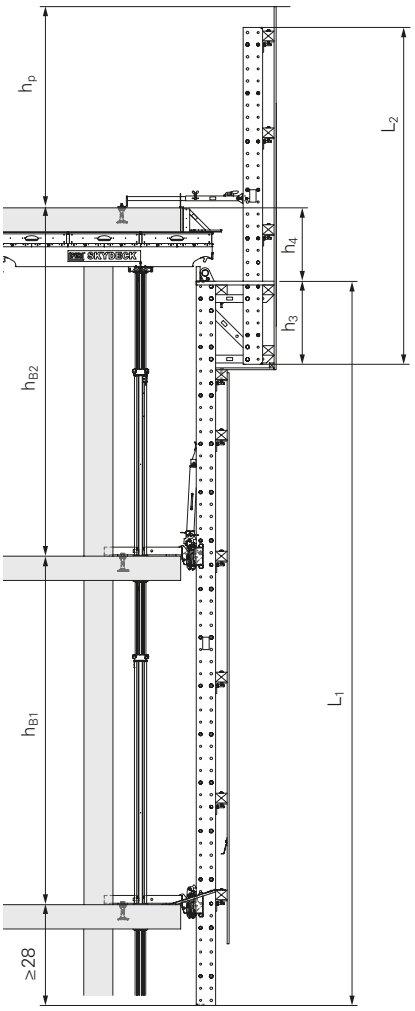


Fig. B1.01

Variant 2

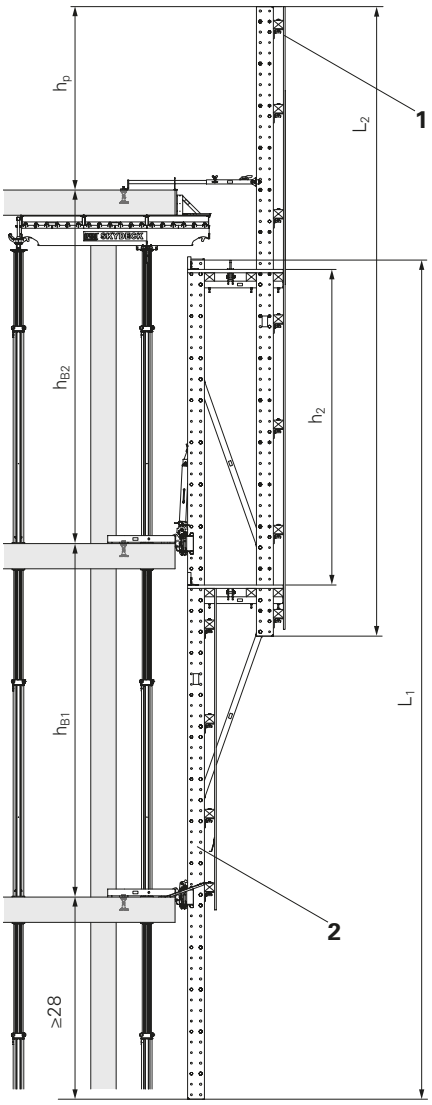


Fig. B1.02

Climbing rails depending on Storey height h_B		
Climbing rails	max. storey heights $h_{B1} + h_{B2}$	with a constant storey height max. $h_{B1} = h_{B2}$
7.48 m	7.20 m	3.60 m
9.98 m	9.70 m	4.85 m

Tab. B1.01

Calculation for variant 3
(Fig. B1.03)
Climbing Rail RCS (**2**).
$L_1 \geq h_{B1} + h_{B2} + 28$ cm.
Enclosure Post RCS (**1**)
$L_2 \geq h_{B2} + h_{B3} + h_p$

Calculation for variant 4
(Fig. B1.04)
Climbing Rail RCS (**2**) with projecting protection panel.
$L_1 \geq h_{B1} + h_{B2} + h_P + 28$ cm.

Variant 3

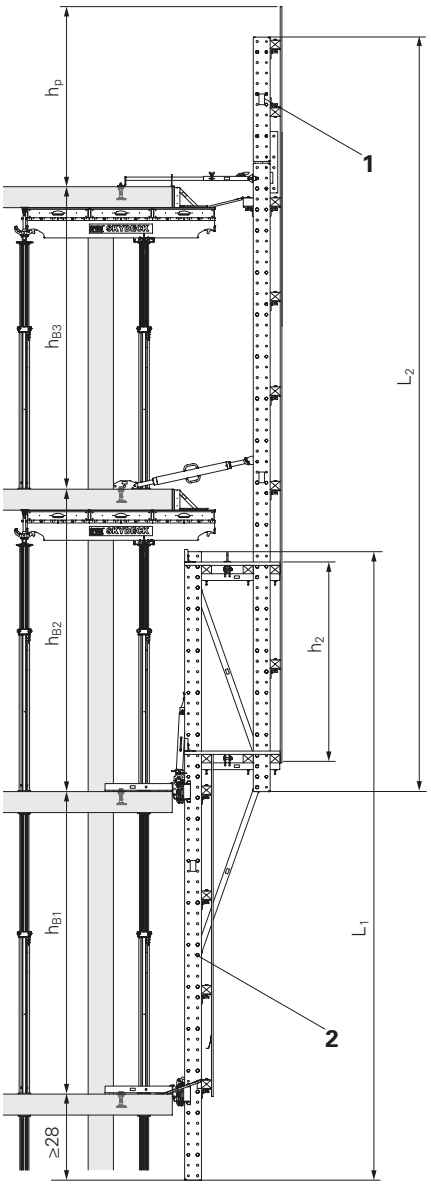


Fig. B1.03

Variant 4

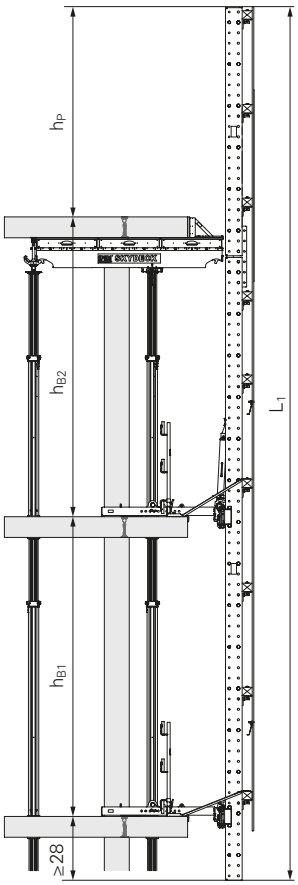


Fig. B1.04

Framework assembly

General information
Depending on the structural arrangement, install different framework components between the climbing rail (**2**) and enclosure post (**1**).
The bolts ISO 4014 M24 x 130-8.8 and nuts ISO 7040 M24-8 that are provided are to be used.

Climbing rail spacing
The spacing between the climbing rails is determined and proven on a project-specific basis.

The respective dimensions for the assembly are based on the specified design and must be included on separate assembly drawings. All separate fasteners that are not standard PERI components must be identified.

Variant 1
(Fig. B1.04)

Components

1	Enclosure post
2	Climbing rail
4	Spacer M24-82
11	Crossbar RCS 69

- Offset dimension of the spacers in the climbing rail and enclosure post: 125 mm.
- The Crossbar RCS 69 is used as a horizontal platform beam and as a diagonal truss strut.
- In the arrangement shown, a spacer must be moved in the climbing rail. See Section “Additional spacers” on page 48.

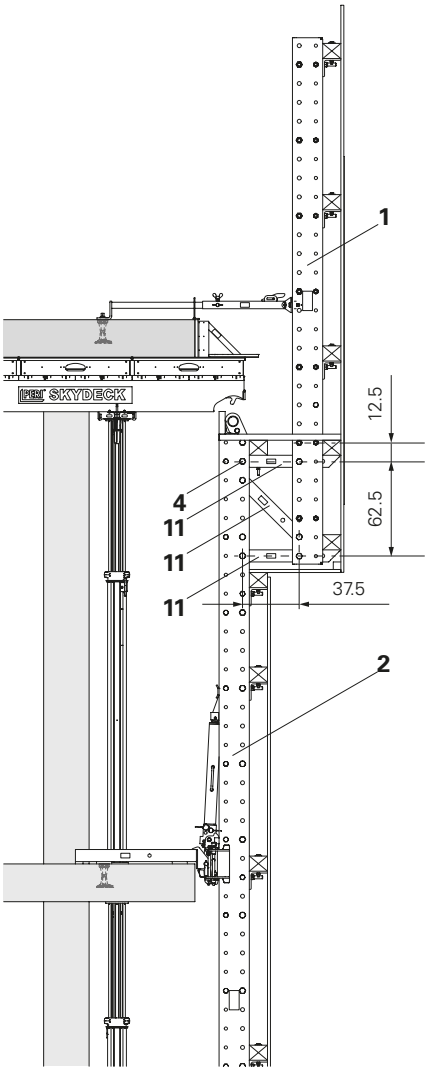


Fig. B1.04

Variant 2 and 3
(Fig. B1.05)

Components

1 Enclosure post
2 Climbing rail
10 Crossbar RCS 103
12 Diagonal Strut RCS 212

- No offset of the spacers (**A**) in the climbing rail and enclosure post.
- With the arrangement of the diagonal struts shown, no spacers need to be removed.

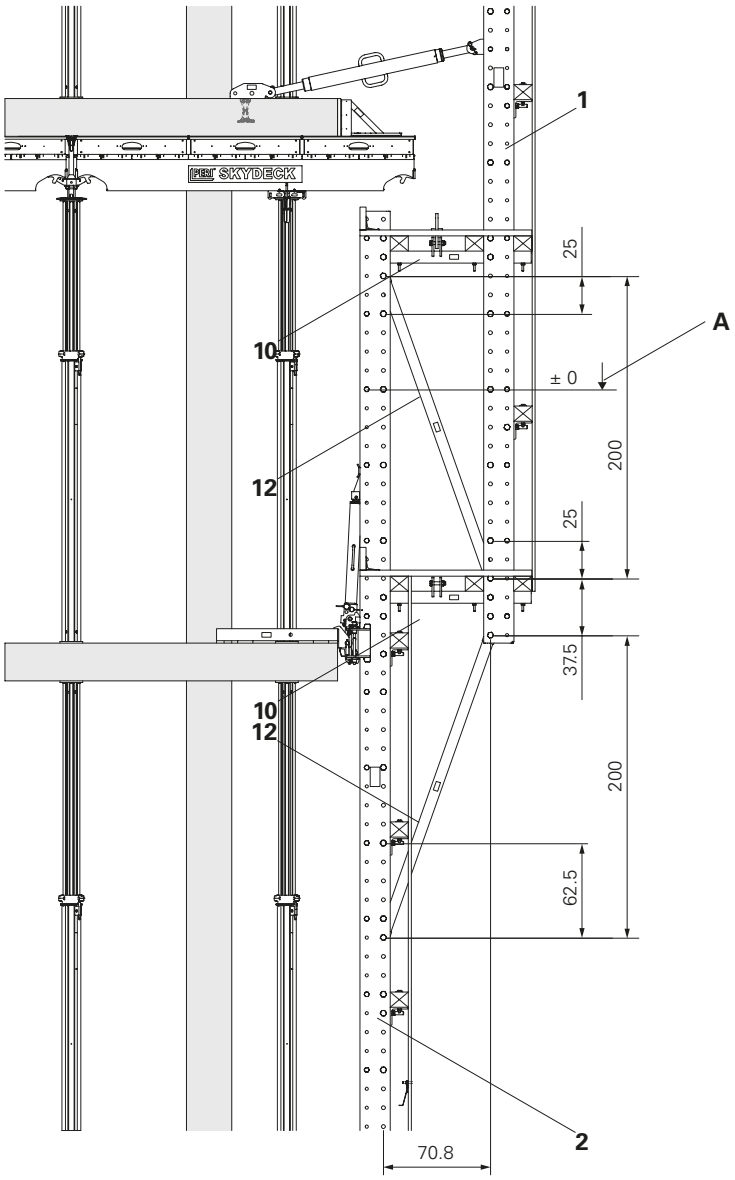


Fig. B1.05

Additional spacers

Spacers are mounted at a distance of 50 cm on the climbing rails.
Additional spacers M20-82 (**3**) can be installed on the climbing rail (**2**) as climbing bolts.
This allows the height of the climbing enclosure and work platform to be adjusted in increments of 12.5 cm. (Fig. B1.06)
Spacers are used to support the climbing enclosure on slab shoes during working operations.

PERI recommends mounting an additional spacer M20-82 for the bottom slab shoe for standard storey heights that are multiples of 50 cm.
This ensures a definite bearing on the planned slab shoe without having to deactivate the other slab shoes.

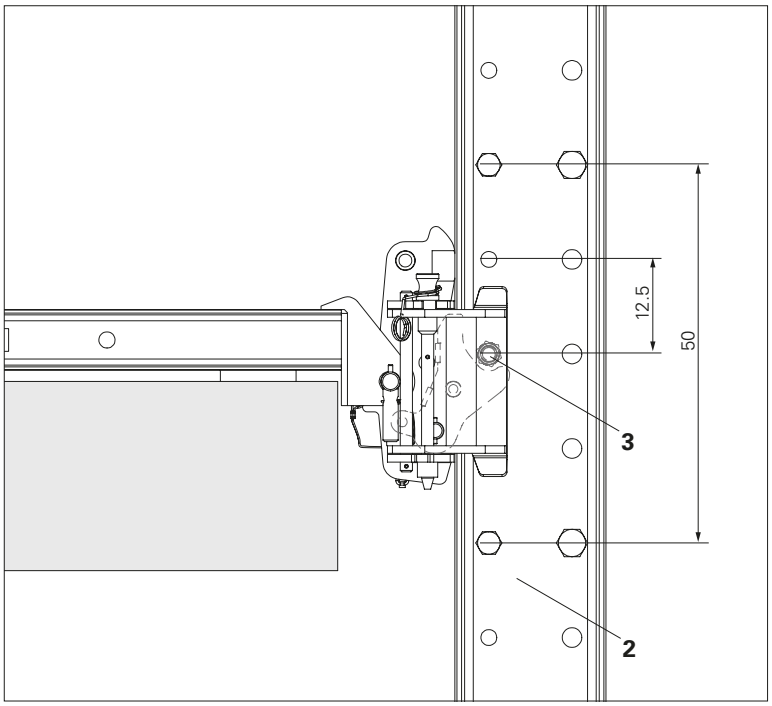


Fig. B1.06

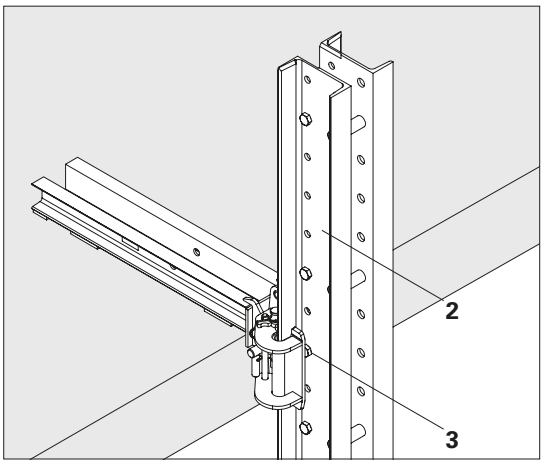


Fig. B1.07

Additional finishing platforms

Only for variants 2 and 3 with Crossbar RCS 103. See Section “A1 System variants” on page 22, Figure A1.02 + A1.03.

Finishing platforms can be installed for work operations in the area of the bottom slab shoe.
The execution takes place corresponding to the work platforms positioned above.

Screw in additional Crossbar RCS 103 (**10**) into the climbing rail (**2**) and the extension of the enclosure post.

Components

1 Enclosure post
2 Climbing rail
2.3 Climbing Rail RCS 248
2.4 Climbing Rail RCS 348
10 Crossbar RCS 103
14 Enclosure beam (squared timber)
21 Climbing Rail Extension RCS 100
22 Climbing Shoe Connector RCS 33

Variant 1
If only a short extension of enclosure post 1 is required, the finishing platform can be suspended by means of a Climbing Rail Extension 100 RCS (**21**). (Fig. B1.08)

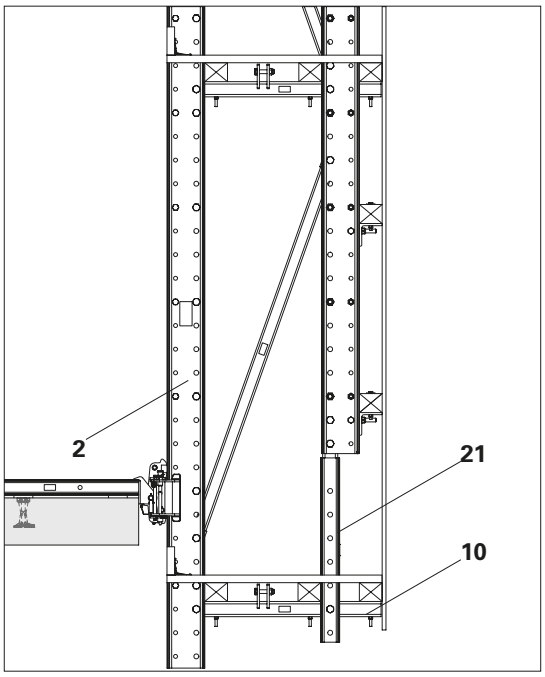


Fig. B1.08

Variant 2
To mount the enclosure post with a lower-positioned finishing platform (**14**), install a Climbing Rail RCS 248 (**5**) (L = 2.48 m) or Climbing Rail RCS 348 (**6**) (L = 3.48 m).
Screw the climbing rails onto enclosure post 1 with Climbing Rail Connectors RCS 33 (**22**).
(Fig. B1.09)

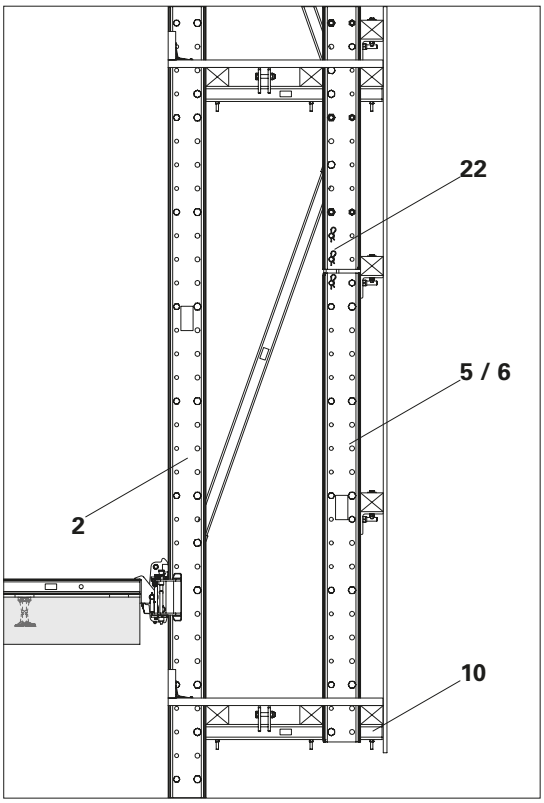


Fig. B1.09

Support reactions

Support forces

H_{x1}: horizontal force on the top slab shoe (positive: tension, negative: compression)

H_{x2}: horizontal force on the bottom slab shoe (positive: tension, negative: compression)

V: Vertical force on bottom slab shoe

Z: Diagonal bracing force on corner elements.

PERI recommends temporary bracing of the corner elements in the case of expected wind speeds of more than 100 km/h. See Section "Bracing corner elements" on page 122.

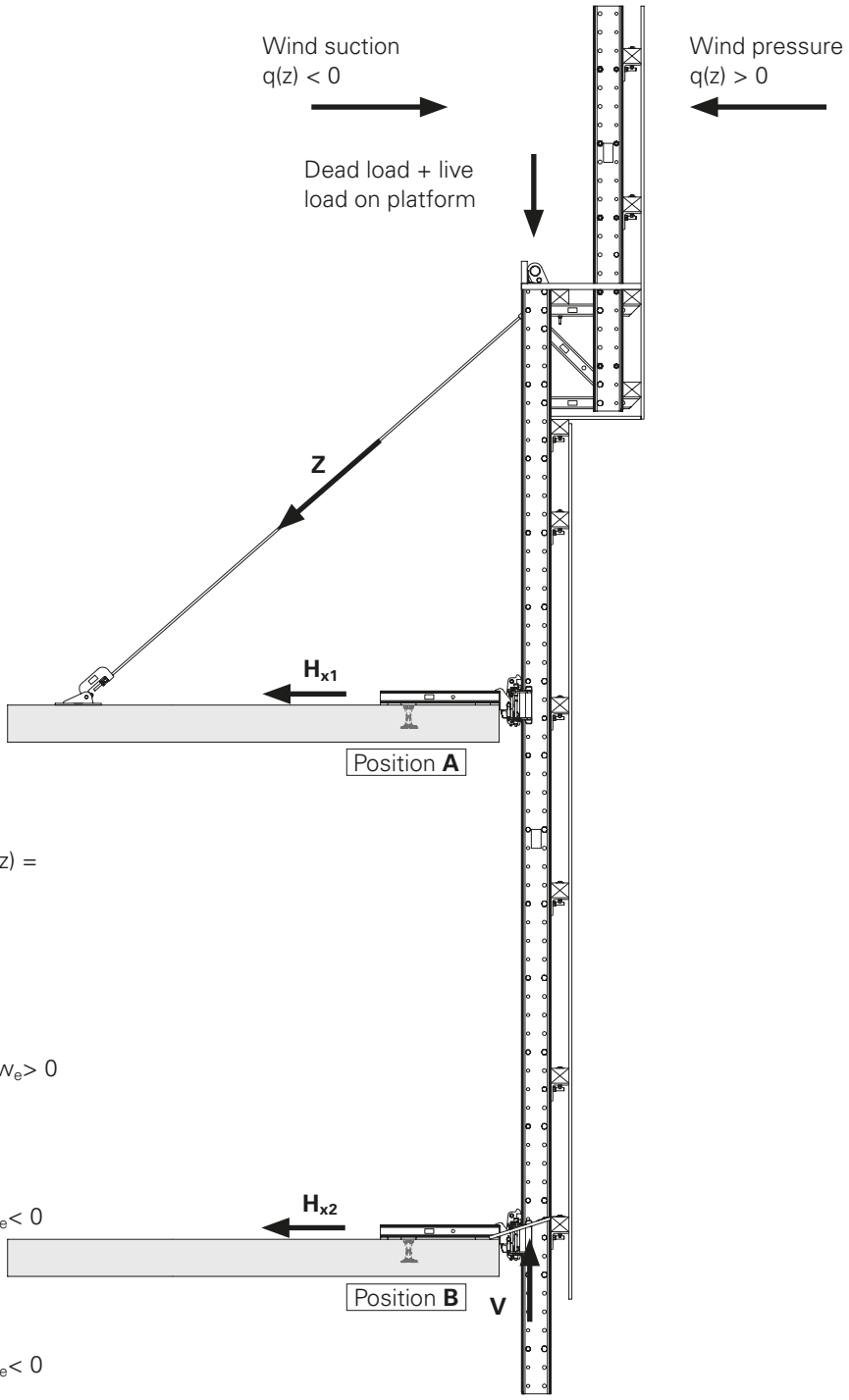


Fig. B1.10

Load cases

A: Status: Working
Wind load from wind suction with q(z) = 0.50 kN/m² (v = 100 km/h)
100% live load on one level,
50% live load on a second level.
Without bracing.

B1: Status: Storm
max. wind load from wind pressure $w_e > 0$
No live loads
Bracing not effective (Z = 0)

B2: Status: Storm
max. wind load from wind suction $w_e < 0$
No live loads
Bracing is effective (Z > 0)

B3: Status: Storm
max. wind load from wind suction $w_e < 0$
No live loads
Corner elements with bracing (Z > 0)

$w_e = q(z) \times \chi \times c_P$
$= q(z) \times \chi \times c_t$

q(z) = peak velocity pressure

c_P = aerodynamic pressure coefficient

$\mathbf{c_t}$ = aerodynamic force coefficient

χ = service life factor for temporary constructions

Tie forces

H_x: horizontal force on the slab shoe (positive: tension, negative: compression)

V: Vertical force on slab shoe

V_{AX}: Tie shear force

N_A: Tie tensile force

P_C: Support force of the slab
If the concrete slab is not sufficiently stable, then a slab prop, e.g. MULTIPROP, is to be installed under the slab to provide load relief.
(Fig. B1.11)

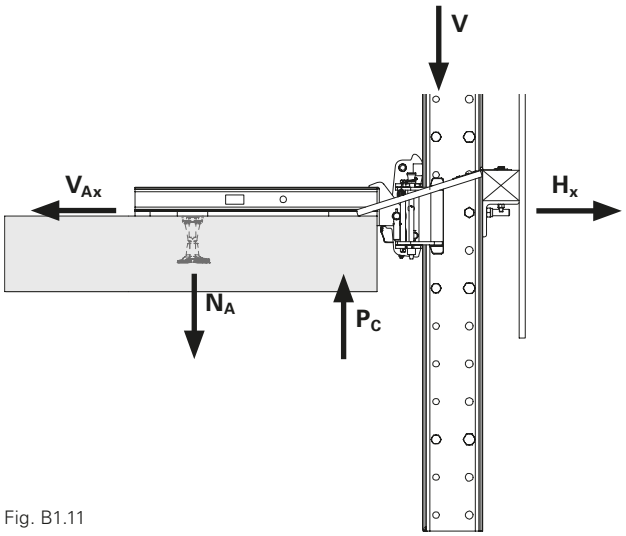


Fig. B1.11

Slab props that have already been installed may fall over due to unscheduled load relief of the slab. Secure slab props against falling over especially on the edge of the structure.

Notes on the introduction of forces into the building structure

It is possible to introduce horizontal and vertical forces into the building structure both at position A and at position B.
Whenever possible, PERI recommends:

- Introducing horizontal forces at position A (top).
- Introducing vertical forces at position B (bottom).

(Fig. B1.10)

Take into consideration PERI expert information "Design Chart for RCS Climbing Protection Panel"!

- The load-bearing capacity of the Slab Shoe RCS and anchoring must be verified separately.
- The load-bearing capacity of the anchoring depends on the type of tie, anchoring depth, edge distances and the concrete strength. Deviating conditions may require the installation of additional restraining reinforcement or reinforcement for the edging.
- The contractor is responsible for the correct transfer of the reaction forces into the building structure.
- Anchoring must be planned on a project-specific basis and in accordance with country-specific requirements.

Suspension with slab shoe

Observe torques from Table “Tightening torques” on page 20 .

Suspension overview

2 Climbing Rail RCS
3 Spacer M20-82
44 Climbing Shoe RCS
45 Slab Shoe RCS
53 Bolt ISO 4014 M24 x 70-10.9
47 Anchoring
54 Slab Tie Gauge 61 RCS

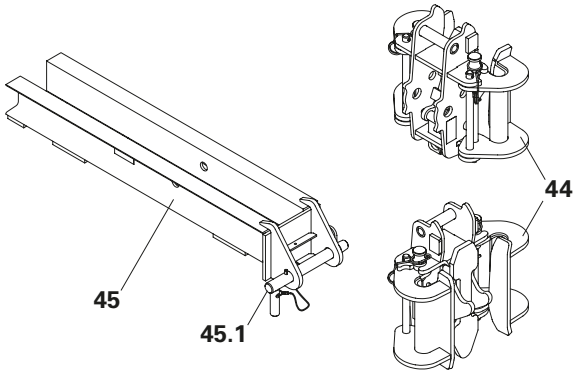


Fig. B1.12

Tie fastening

There are 3 possible variants of anchoring M24.
– Variant 1:
  Screw-On Cone M24/DW 20
– Variant 2
  Anchor Sleeve M24
– Variant 3:
  Climbing Cone-2 M24/DW 15

Leading ties (**47**) are fixed in their respective position during concreting by means of the Tie Locating Point M24 of the Slab Tie Gauge RCS (**54**).
The slab tie gauge with the support plate rests on the stop end formwork.

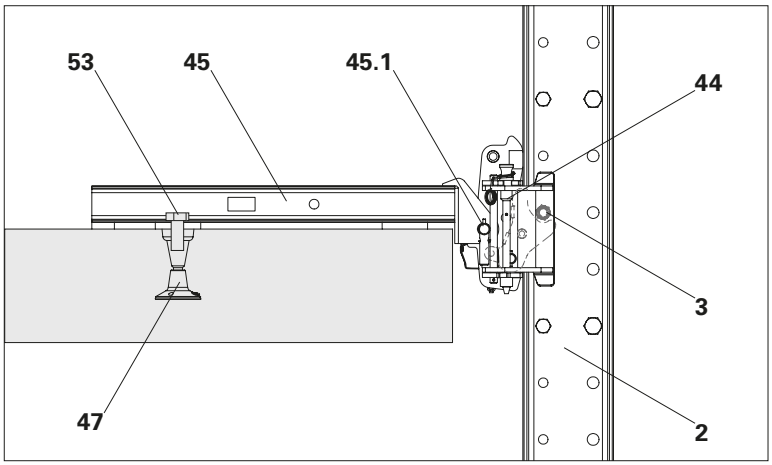


Fig. B1.13

The stop on the support plate creates an impression in the concrete.

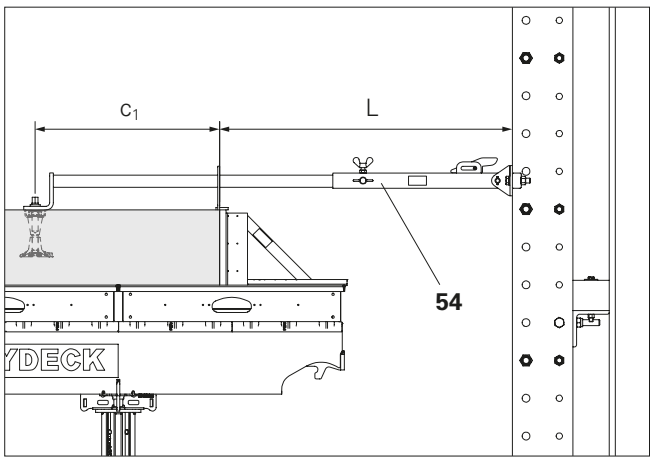


Fig. B1.14

The tie dimensions for the Slab Shoe RCS are as follows:
c_1 = 600 mm
d_1 = 100 mm
d_2 = 10 mm
(Fig. B1.15)

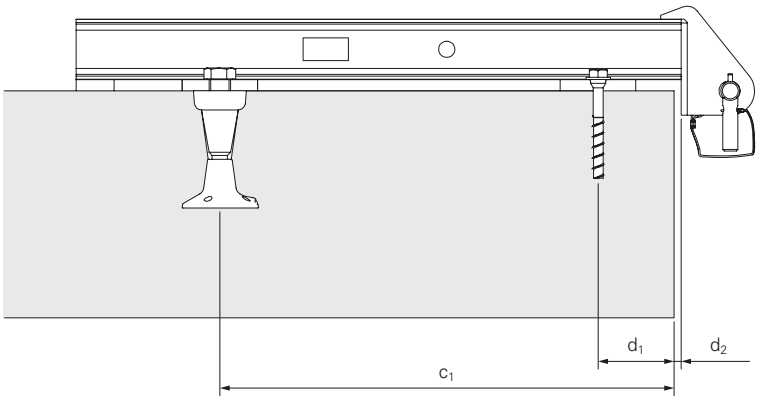


Fig. B1.15

Anchoring

Variant 1:
with Screw-On Cone M24/DW 20.
(Fig. B1.16)

Components

47.1 Screw-On Cone-2 M24/DW 20
47.2 Threaded Anchor Plate DW 20

Approval No. Z-21.6-1766
or expert opinion for the
PERI Climbing Tie.

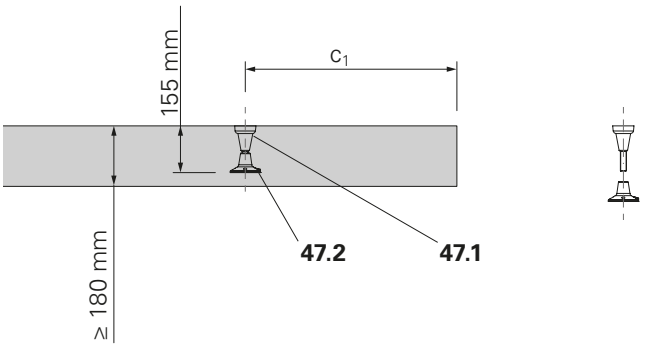


Fig. B1.16

Variant 2:
with Climbing Cone-2 M24/DW 15.
(Fig. B1.17)

Components

47.5 Climbing Cone-2 M24/DW 15 [1*]
47.6 Tie Rod DW 15 [1* 2*] or
Tie Rod B 15 [1* 2*]
$L_S = h_{nom} - 80$ mm
47.7 Threaded Anchor Plate
DW 15 [1* 2*] Ø 80 mm

Approval No. Z-21.6-1767
or expert opinion for the
PERI Climbing Tie

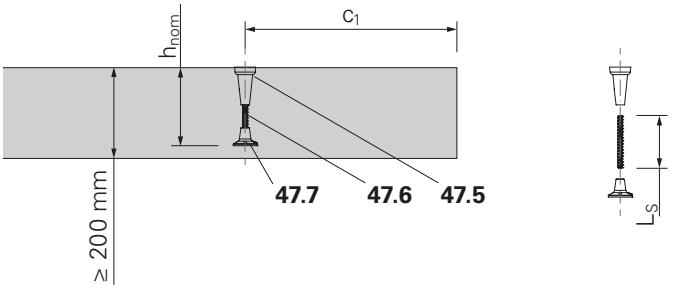


Fig. B1.17

[1*] All suspension and anchoring parts are safety components.
[2*] Lost tie component.

Variant 3:
with Climbing Cone-2 M24/DW 15.
completely re-usable.
(Fig. B1.18)

Components

47.5 Climbing Cone-2 M24/DW 15 [1*]
$h_{nom} = h \geq 185$ mm
47.6 Tie Rod DW 15 [1*]
or Tie Rod B 15 [1*]
$L_S = h_{nom} - 80$ mm
47.7 Threaded Anchor Plate DW 15 [1*]
Ø 80 mm, nailed for positioning on the slab formwork
47.8 Spacer Tube Ø 22,
$L_T = h - 185$ mm [2*]

Approval No. Z-21.6-1767
or expert opinion for the
PERI Climbing Tie.

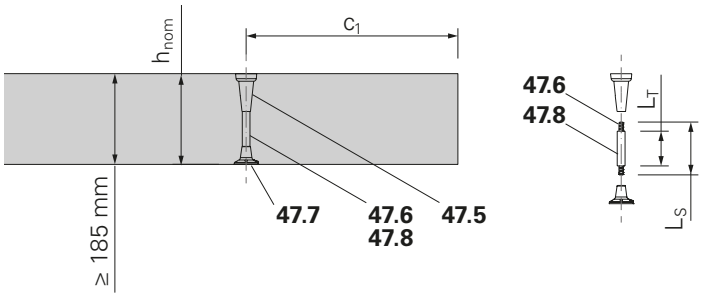


Fig. B1.18

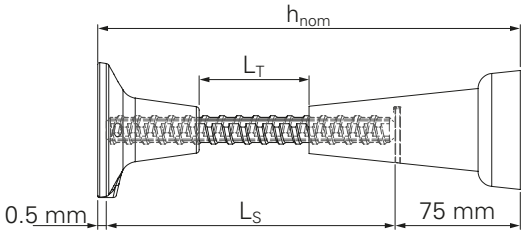


Fig. B1.18a

- With Tie Rod B15 (with circumferential thread), the load-bearing capacity of the anchoring may be lower than with the Tie Rod DW15 (with interrupted thread)! For this, see building authority approval or corresponding product information
- Fixing the threaded anchor plate to the slab formwork is not allowed especially with architectural concrete.

[1*] All suspension and anchoring parts are safety components.
[2*] Lost tie component.

Suspension with the stop end slab shoe

For installing a stop end slab shoe during the assembly of the stop end slab tie.

Components

44 Climbing Shoe RCS
48 Stop End Slab Shoe RCS
48.1 Locking pin 25 mm

Stop End Anchoring M30 Components

49 Bolt ISO 4017 M30 x 70-8.8
51 Stop End Slab Tie M30/25-160
Alternatively:
Climbing Cone-2 M30/DW 20
Tie Rod DW20 or B20
Threaded Anchor Plate DW20

Stop End Anchoring M24 Components

53 Bolt ISO 4014 M24 x 70-10.9
50 Reducing bushing Ø 30 - 25
52 Stop End Slab Tie M24/20-128
Alternatively:
Climbing Cone-2 M24/DW15
Tie Rod DW15 or B15
Threaded Anchor Plate DW15

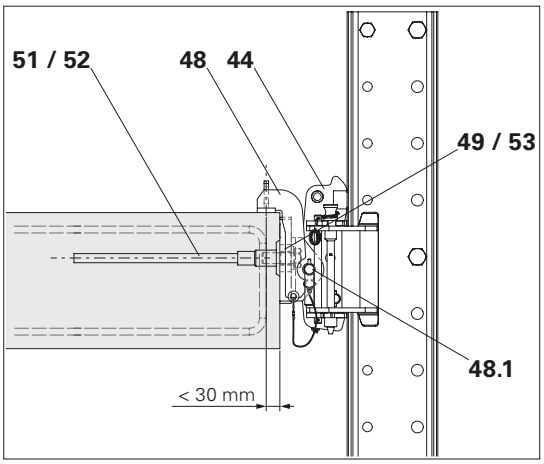


Fig. B1.19

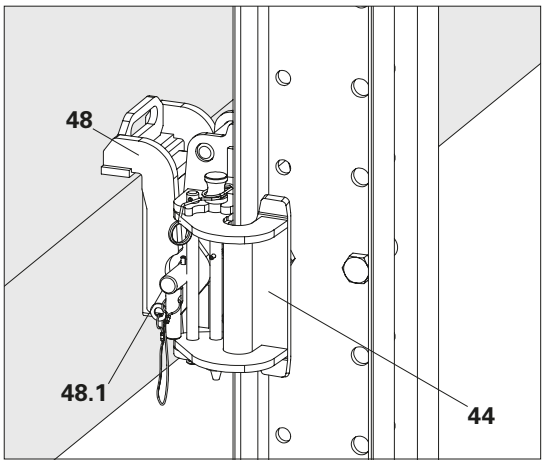


Fig. B1.20

Horizontal support

The climbing protection panel variant 3 requires additional horizontal support given the enclosure is spread over 2 storeys.

Fit the heavy-duty spindle on the enclosure post with one fitting pin Ø 21 mm and fitting pin Ø 26 mm respectively. Use the anchoring on the slab which will subsequently carry the slab shoe.
Permissible angle of inclination
$\alpha = 10 \pm 5°$

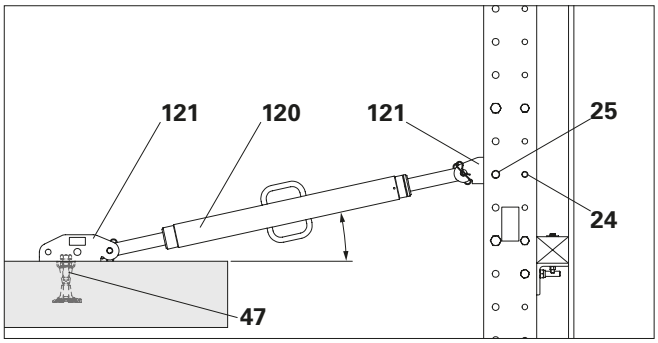


Fig. B1.21

Components

24	Fitting pin Ø 21 mm
25	Fitting pin Ø 26 mm
53	Bolt ISO 4014 M24 x 70-10.9
47	Anchoring
120	Heavy Duty Spindle SLS 100-180
121	Spindle Shoe SLS/RCS M24

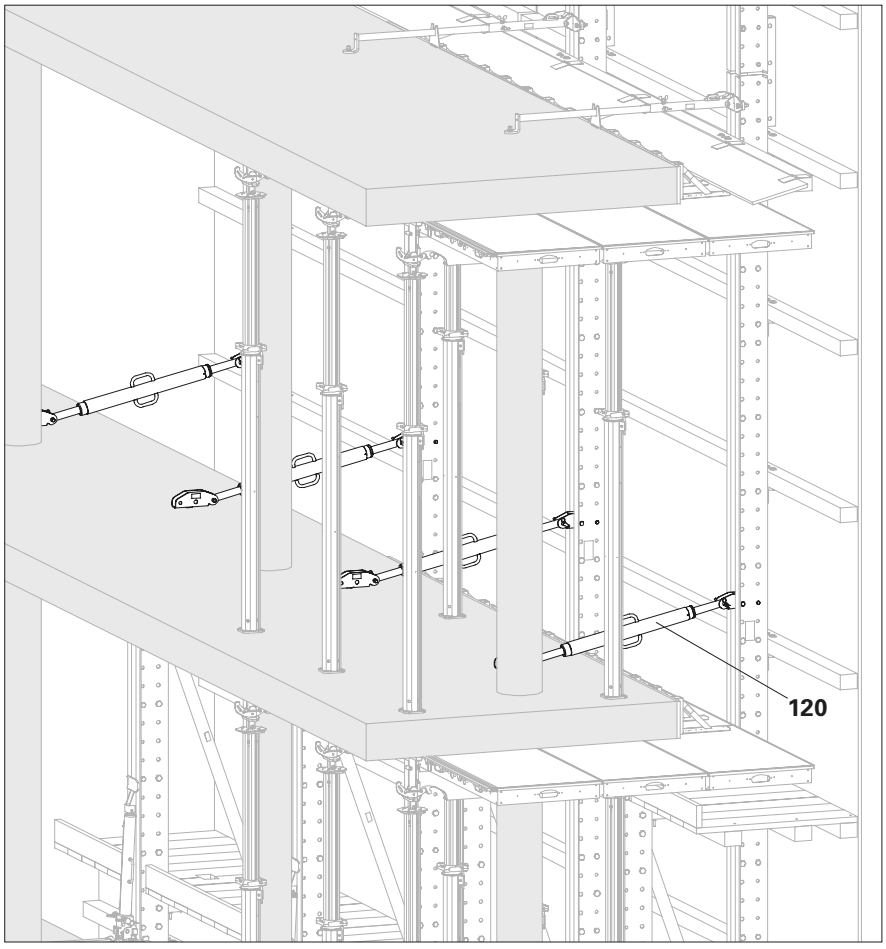


Fig. B1.22

General information

Keep the following points in mind when planning the climbing sequence and putting together the work instructions:

- Form the decks, especially on corner and internal platforms, in such a way that they do not collide with the platforms or adjacent climbing enclosures during the climbing process.
- If overlapping components are planned between the climbing enclosures, then the climbing sequence is to be planned accordingly and be clearly indicated on the general arrangement drawings. Overlapping components are, for example, covering for the gaps between the climbing enclosures.
- Plan access and ladder descents in such a way that there is safe access to all climbing units at all times.
- The climbing sequence must be planned for the entire building. Suitable installation of the hydraulic hoses and climbing of the last climbing unit must to be determined accordingly.
- When climbing by crane, always provide safe access for attaching and detaching the crane lifting gear. Additional two-sling lifting gear that remains on the climbing enclosure may be necessary until it can be safely removed.
- A hydraulics plan shows how the climbing devices are to be correctly attached to the hydraulic pumps with the hydraulic hoses.
- Specify appropriate measures to cordon off or secure the open building edges that appear.

Attachment point for crane

Note

- The weight of each climbing unit must be known so that problems can be avoided during attachment and moving operations.
- Plan attachment points and lifting gear on a project-specific basis.

The size of the climbing enclosures can be limited by the permissible load of the attachment point on the Crossbar RCS. For this, determine the weight of the relevant panels during the planning phase.

When assembling and dismantling climbing enclosures that are moved with the self-climbing device, also observe the permissible load of the attachment points.

The weight G of the climbing units is to be specified in the general arrangement drawings.

Standard case:
Attachment point with Lifting Eye BR 2.5 t (**8**)
Platform beam (**40**) as compression brace
(Fig. B2.01)

Components

8 Lifting Eye BR-2 2.5 t
10 Crossbar RCS 103
40 Platform beam (squared timber)

- Always lift and move climbing units with Climbing Beam 9 t.
- For safe attachment and removal of the crane hook, provide suitable measures to prevent falls.
- Permissible load per Lifting Eye BR 2.5 t: max. 25 kN.
- Crane sling angle $\alpha \leq 30°$.
  Note: The chain length of the crane sling must be greater than the distance between the attachment points.
- For heavy climbing units where a load of more than 25 kN must be lifted per attachment point, attach the PERI Climbing Beam 9t to a spacer. (Fig. B2.01)
  – Observe the relevant Instructions for Use.
  – Ensure loads are evenly balanced when they are picked up.

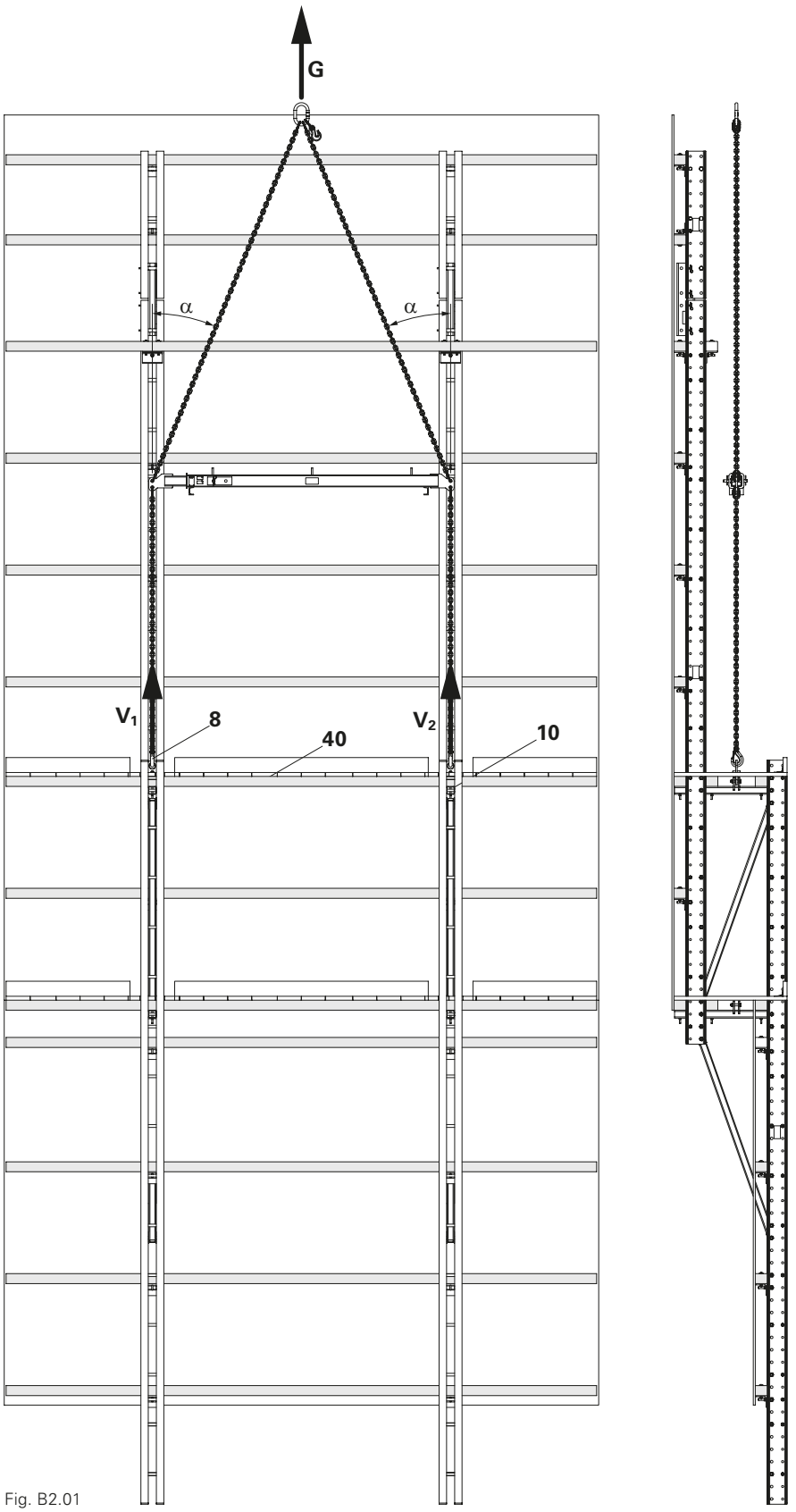


Fig. B2.01

Planking

Platform planking
Working scaffold of Load Class 2
max. load 150 kg/m² according to
DIN EN 12811-1:2004-03
Solid Wood Strength Class C24 –
DIN EN 338:2016-07 (Coniferous
Wood Grade S10).
Minimum dimensions of the planking:
b × d = 24 × 4 cm

Dimension B depends on the dimensions of the platform beams (**40**) as well as the overhang of the deck above the climbing rails.

Fig. B2.03 shows the dimensions for the work platform. These dimensions apply to platform decking that is flush with the front of the climbing rail.

Alternatively:
Solid Wood Strength Class C16 –
DIN EN 338:2016-07 (Coniferous
Wood Grade S7).
Minimum dimensions of the planking:
b × d = 24 × 5 cm

For use as a **safety scaffold** for heights up to 3.00 m, decking with planks w × d = 24 × 4.5 cm is required. See DIN 4420-1:2004-03

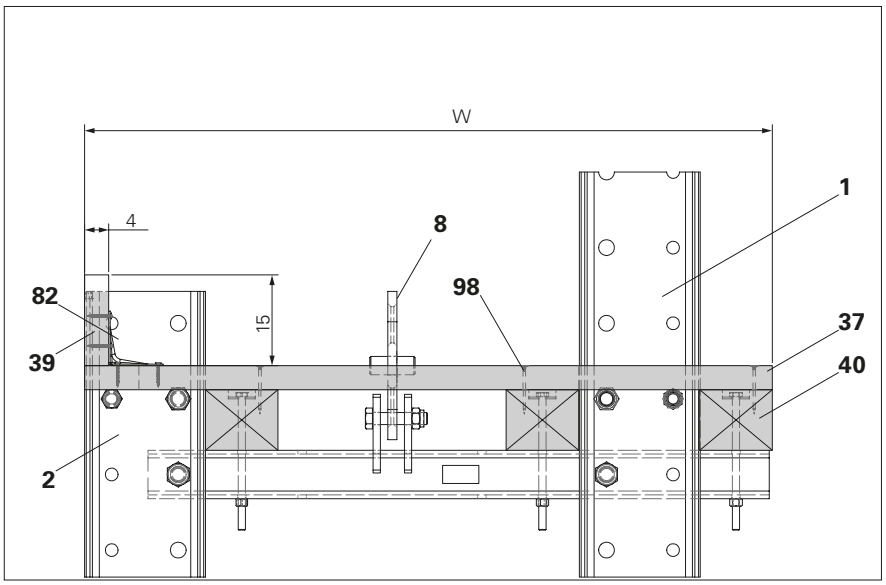


Fig. B2.02

- Prevent cantilevered planking and platform beams from lifting off using suitable fixings.
- In mitre and cut-out areas, where the support for the planking on both sides is not guaranteed, install multi-layer plywood sheets.
- Install planking of w < 24 cm in the centre of the platform.
- Screw each piece of planking to each platform beam with 2x wood screws, e.g. wood screws 6 x 80.

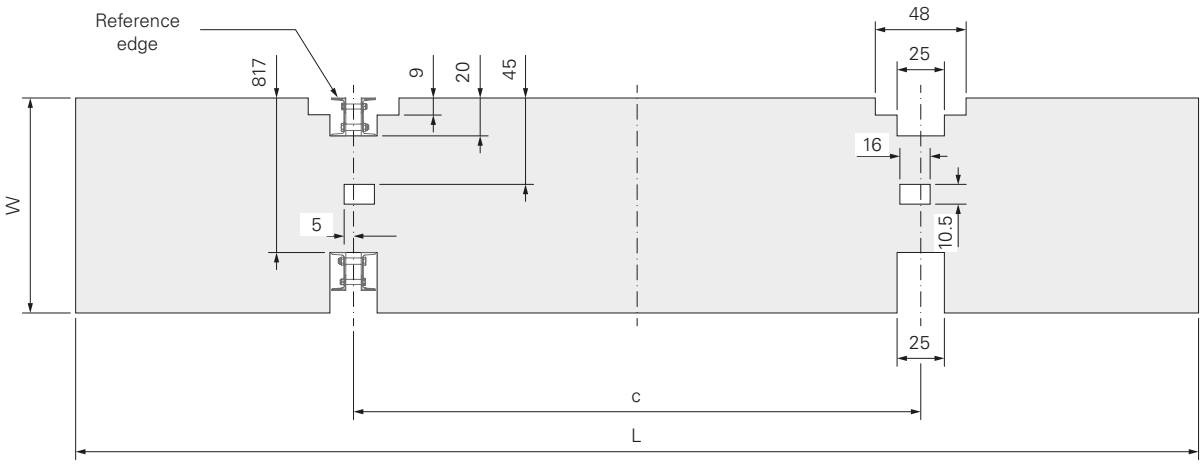


Fig. B2.03

Toe boards:
Toe boards made of Solid Wood C24 (coniferous wood S10).
Minimum dimensions:
w x d = 3 x 15 cm.

When using planking with a lower strength class or plywood boards, static verification is required!

Components

1	Enclosure post
2	Climbing rail
8	Lifting Eye BR-2 2.5 t
37	Work platform decking (planks)
39	Toe board
40	Platform beam (squared timber)
82	Angle bracket 90° reinforced
98	TSS-Torx 6 x 80

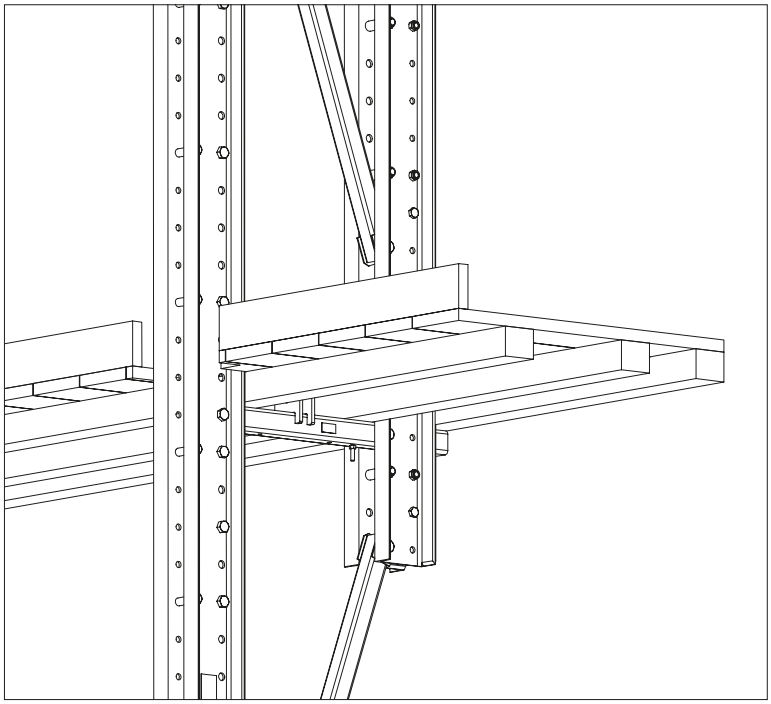


Fig. B2.04

Platform beam

The platform beams (squared timbers) are dimensioned and proven on a project-specific basis.

Solid wood strength class C24 – DIN EN 338:2016-07 (coniferous wood grade S10).
Max. width of influence (e_B) of the platform beam: 0.50 m

Work platform load according to Scaffold Group 2:
Max. live load 150 kg/m²
Max. cantilever d ≤ 0.5 c

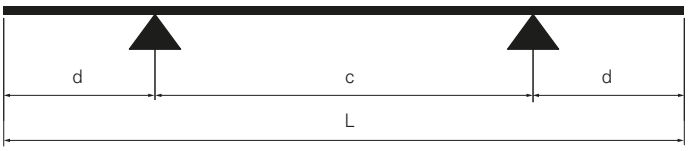


Fig. B2.05

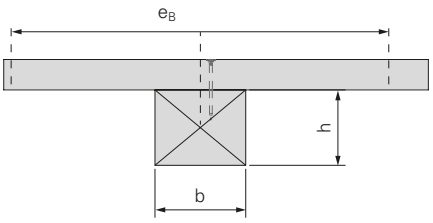


Fig. B2.06

To protect workers from falling objects

The enclosure and platforms should completely enclose the working area. The hinged covers protect the area between the enclosure and the concrete slab from falling small parts, e.g. screws, bolts, hammers.
Openings > 20 mm are to be covered in a non-displaceable manner or filled with installation foam.

Note

- Setting down and storing materials and tools on the coverings is prohibited.
- Foldable covers are not decking surfaces and are planned as areas not to be walked on or subjected to loads.
- Attach prohibition signs.
- Take into account the fibre direction of the surface layer! (Fig. B2.07a)

Securing the slab edge
In the area of the lower storey slab, mount multi-layer plywood sheeting (**41**) on the enclosure beam (**14**) by means of hinges (**42**).
Screw on chamfered squared timber (**14.1**) to support the cover flap.

Alternatively, mount the scaffolding tube (**80**) on the climbing rail by means of the scaffold tube holder (**137**).
Mount foldable covers (**41**) using flap hinges (**138**) and flap safety plates (**139**).

Cover any remaining gaps in the area of the slab shoe with Cover Mat RCS 70x70 (**43**).

Components

14 Enclosure beam (squared timber)
41 Foldable cover (multi-layer plywood sheeting)
42 Hinge DIN 7957-200-ST
43 Cover Mat RCS 70 x 70
80 Steel Scaff. Tube 48.3x3.2 mm lf m ga
137 Scaffold Tube Holder Ø RCS
138 Flap Hinge LPS D48/M10
139 Flap Safety Plate LPS D=48 RCS

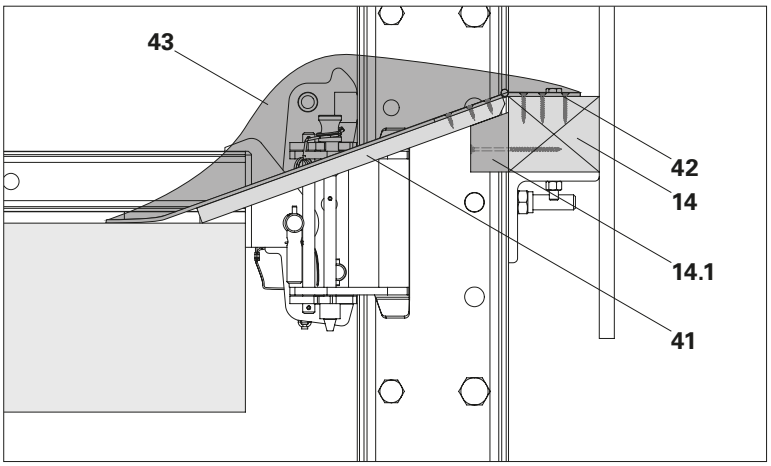


Fig. B2.07

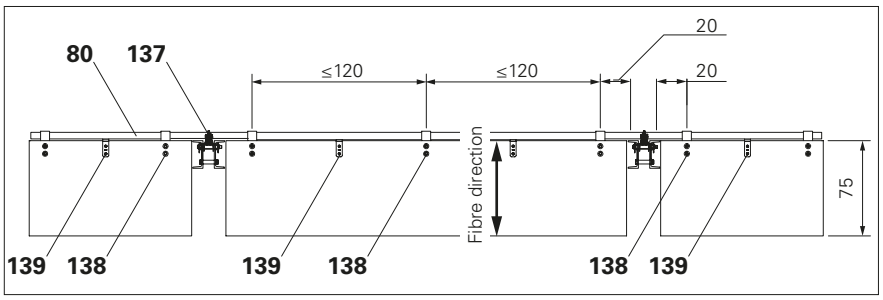


Fig. B2.07a

Flap material:	Multi-layer plywood sheet ≥20 mm
Permissible inclination:	10 ° – 30 °
Permissible depth:	≤ 75 cm
Hinge spacing:	≤ 120 cm, at least 2 hinges per flap
Hinge spacing to climbing rail (**2**):	≤ 20 cm

Tab. B2.02

PERI recommends a distance between the climbing units of 50 mm.

Cover gaps between the climbing units in a non-displaceable manner in the working state, e.g. with:

- boards that are screwed on and that are removed or folded up during climbing.
- Alternatively, gaps can be covered with rubber lips.

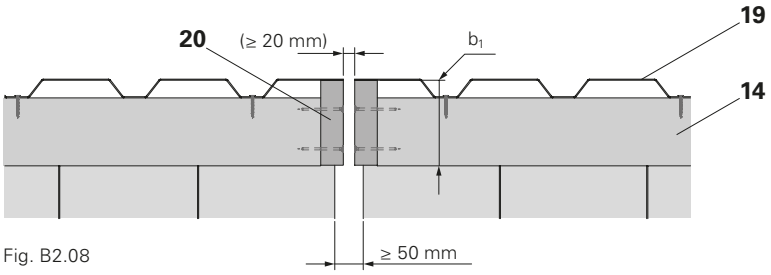


Fig. B2.08

In order to ensure a simple moving procedure with the crane without jamming the enclosure beams (**14**), protection edges (**20**) can be arranged on the front side. The width (b_1) depends on the design of the enclosure with multi-layer plywood sheeting (**18**) or trapezoidal metal sheets (**19**).

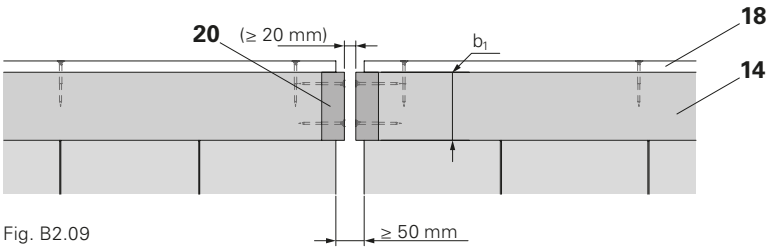


Fig. B2.09

Components

14	Enclosure beam (squared timber)
18	Enclosure (multi-layer plywood sheeting)
19	Enclosure (trapezoidal metal sheeting)
20	Protection edge

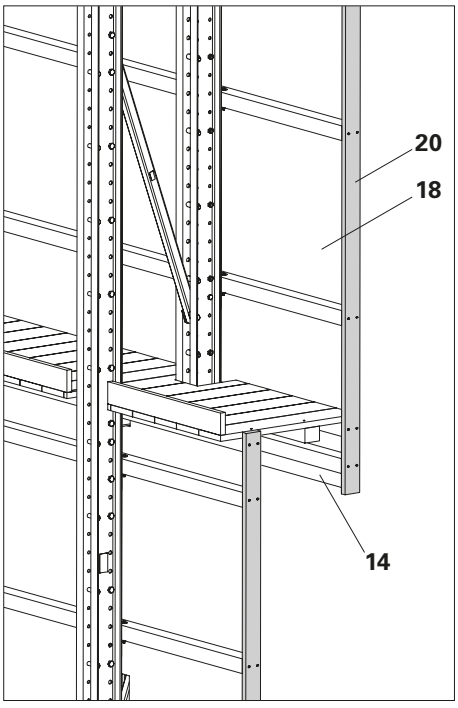


Fig. B2.10

Guardrails

Guardrails and lateral protection must be fitted according to valid safety regulations!
Guardrails must be fitted onto all leading edges and on all platform levels.
High working positions must be secured in order to prevent objects falling to the ground. To this end, fit safety nets or lateral protection with closed protection panels.
The following can be used as lateral protection:

- Guardrail boards
- Galvanised steel scaffolding tubes Ø 48.3 or Ø 60.3
- Squared timbers with enclosure made of netting, tarpaulin, plywood or trapezoidal metal sheeting

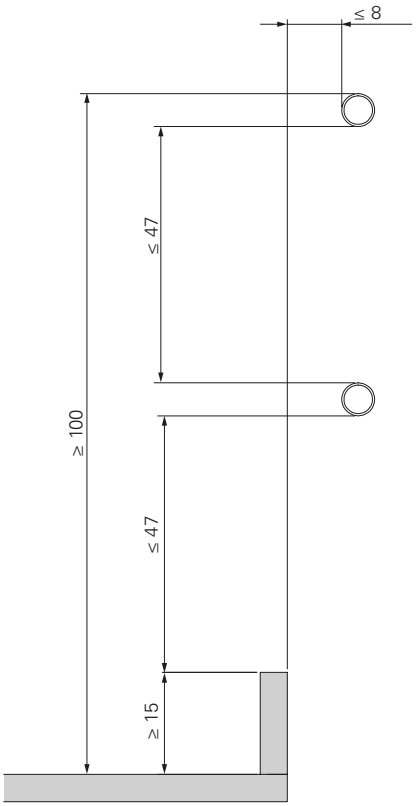


Fig. B2.11

Ladder cage with scaffolding tubes

Requirements:
Steel scaffolding tubes (**80**), minimum quality S235.
Dimensions Ø × t = 48.3 x 3.2 or 60.3 x 4.5 mm

Fixing:
Bracket A64 DIN 3570 (**81**)
Hex. Nut ISO 4032 M12-8 (**96**) (**2x**)
Mount scaffolding tubes on inner side, with netting or tarpaulin also on the outer side with spacing of a = 50 cm.

Max. cantilever d ≤ 0.5 x c
(Fig. B2.12)

At the ends and in the middle of the span the scaffolding tubes are to be connected to each other using vertical scaffolding tubes or supported to prevent any overloading.

Components

80 Steel Scaff. Tube 48.3x3.2 mm lfm ga
81 Bracket A64 DIN 3570
96 Hex. Nut ISO 4032 M12-8

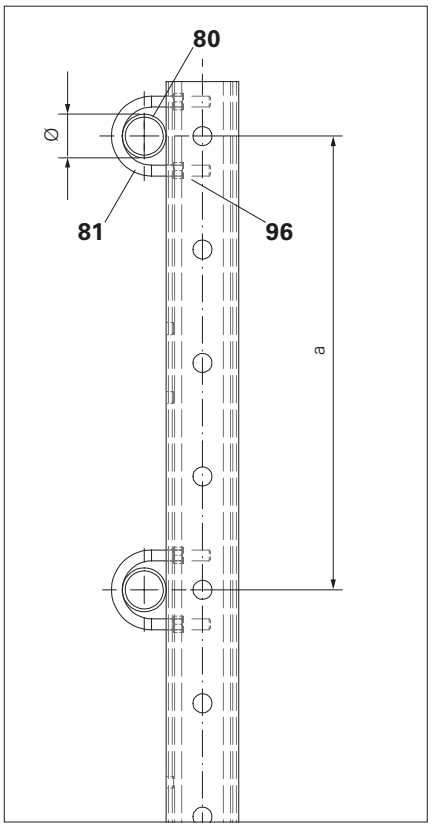


Fig. B2.12

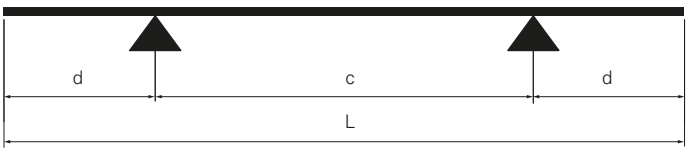


Fig. B2.13

Enclosure

Note

The influence width determines the dimensions of the enclosure beam and the distance a.
Structural verification is required and must be determined on a project-specific basis.

Requirements for enclosure beams:
Squared timbers (**14**) made of Solid Wood C24 (Coniferous Wood S10).
Dimensions w/h = 12/10, 12/12, 14/10, 14/14, 15/7.5 cm or 15/15
Spacing a and span according to static proof. Mount the squared timbers on the outer side.

Fixing the enclosure beams:
Attach the Squared Timber Adapter RCS (**13**) to the Enclosure Post RCS (**1**) using eyebolts (**13.1**) and to the climbing rail with bolts (**92/94**) according to the respective hole diameter.
Spacers (**3**) can be used.

Hole Ø 26:
Bolt ISO 4014-M24 x 130-8.8 (**94**)
with Hex. Nut ISO 7042-M24-8 (**95**)

Hole Ø 21:
Bolt ISO 4014-M20 x 120-8.8 (**92**)
with Hex. Nut ISO 7042-M20-8 (**93**)

Attach enclosure beam (**14**) to the Squared Timber Adapter RCS (**13**) using bolt ISO 4017:
for h ≤ 120 mm: M12 x 140-8.8 (**2x**)
for h > 120 mm: M12 x 240-8.8 (**2x**)
Hex. Nut ISO 4032 M12-8 (**2x**)
Washer ISO 7093 200HV, A12 (**2x**).
(Fig. B2.14 – B2.16)

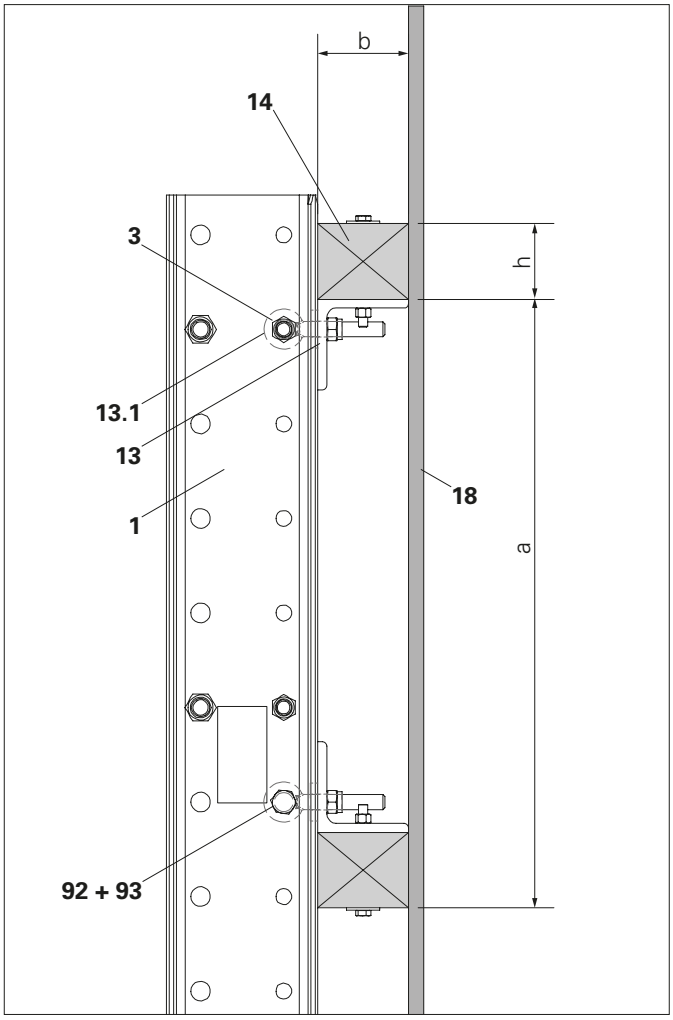


Fig. B2.14

Components

1	Enclosure post
3	Spacer M20-82
13	Squared Timber Adapter RCS 12/20
13.1	Eyebolt M20
14	Enclosure beam (squared timber)
18	Enclosure (multi-layer plywood sheeting)
19	Enclosure (trapezoidal metal sheeting)
23	Plate connector Ø 48/12 mm
90	Bolt ISO 4017 M12 x 140-8.8
91	Bolt ISO 4017 M12 x 240-8.8
92	Bolt ISO 4014-M20 x 120-8.8
93	Hex. Nut ISO 7042-M20-8
94	Bolt ISO 4014-M24 x 130-8.8
95	Hex. Nut ISO 7042-M24-8
96	Hex. Nut ISO 4032 M12-8
97	Washer ISO 7093 200HV, A12
98	TSS-Torx 6 x 80
99	TSS-Torx 6 x 60

Enclosure with multi-layer plywood sheeting
Install the enclosure (**18**) in accordance with the static proof.
Weight max. 15 kg/m²
Fixing by means of TSS-Torx 6x60 (**99**) or 6x80 (**98**) with given spacing e in accordance with the static proof.
(Fig. B2.15)

Enclosure with trapezoidal metal sheeting
Design of enclosure (**19**) and its fixing (**19.1**) in accordance with the static proof.
Weight max. 15 kg/m²
If necessary, fit an additional plate connector (**23**) between the enclosure beam (**14**) and squared timber adapter (**13**).
(Fig. B2.16)

The enclosure should completely enclose the working area.

Variant 1 with multi-layer plywood sheet

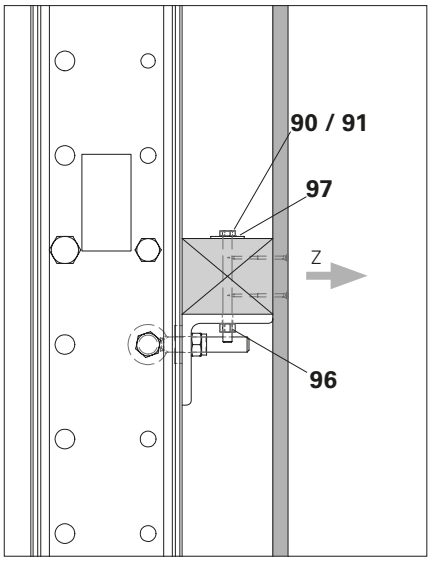


Fig. B2.15

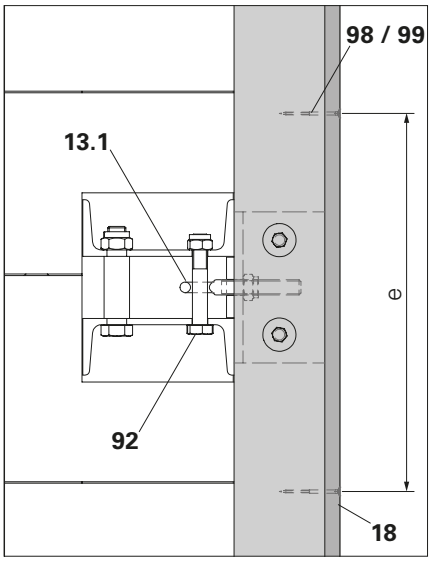


Fig. B2.15a

Variant 2 with trapezoidal sheeting

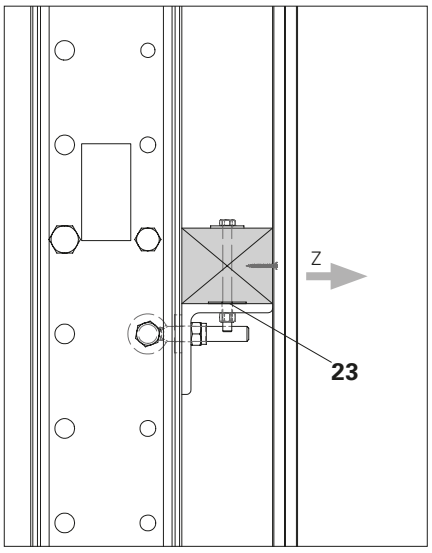


Fig. B2.16

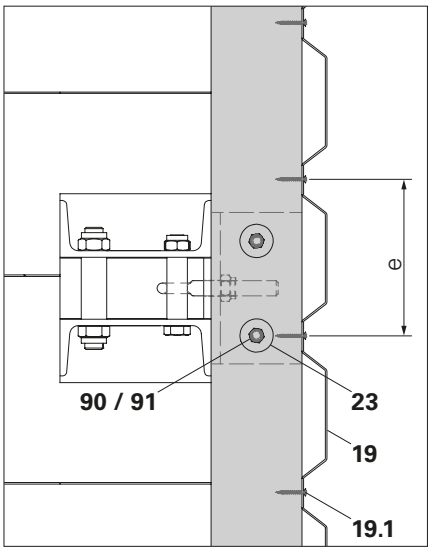


Fig. B2.16a

B3 Corner platforms

General information

- When planning all corner solutions ensure that the enclosure on the climbing rail does not collide with the platform of the neighbouring unit during climbing.
- Maintain a distance between the climbing units of 50 mm.
- Cover gaps between the enclosure elements, e.g. with Elastomer cover tape, or foldable covers consisting of multi-layer plywood sheet. Ensure covering does not move out of position. Remove covers during the climbing procedure.
- Close all open edges with toe boards.

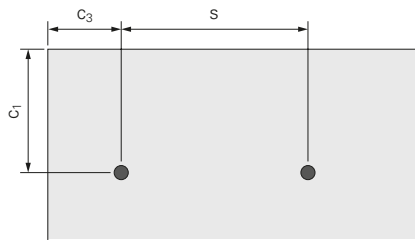
If there is a risk of the platforms colliding with the enclosure of the neighbouring unit during climbing, then the climbing sequence has to be specified during planning and has to be pointed out explicitly during the briefing and introduction.

For a load-optimised corner solution, arrange the slab shoes as close to the building corner as possible.

Note

- If the lateral edge distance c_3 is not undershot, no additional structural verification is required.
- If the lateral edge distance c_3 is undershot, additional structural verification must be provided by a structural engineer. The structural engineer specifies the necessary measures in this verification.
- Observe country-specific approvals for tie systems.

Top view



Gap cover with cover tapes

Fix cover tapes to the enclosure or platform decking using Spax screws and washers.

Units straight next to each other
Fix cover tape on one side.

Units on outside corner
Fix one cover tape on each enclosure.

Units on the inside corner
Fix one cover tape on each enclosure.

Work platforms
Fix cover tape on one side.

Outside corners

Mitred corner elements
Standard corner elements e.g. for internal building columns with an edge distance of x ≥ 400 mm. (Fig. B3.02)

At the corner of the building: a crosswise arrangement of the Slab Shoe RCS (**45**) and Slab Shoe Corner RCS (**46**). (Fig. B3.01)

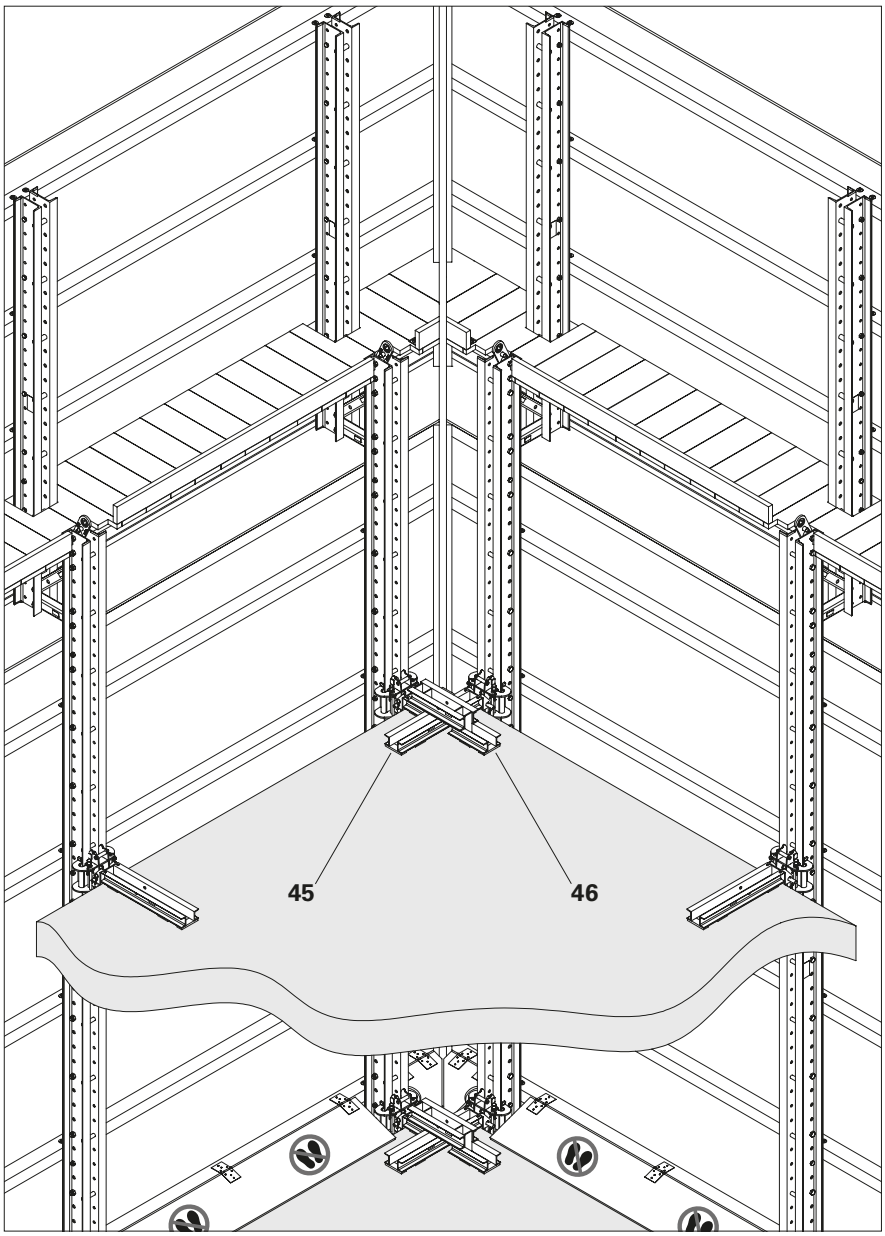


Fig. B3.01

B3 Corner platforms

Climbing protection panel variant 1
with narrow work platform, see Section "A1 System variants" on page 22.

The work platform is mitred accordingly. Push the enclosure beam (**14**) and platform beam (**40**) up to the mitre. Assemble platform decking using multi-layer plywood sheeting in the mitred area.
Cover the mitre gap. (Fig. B3.02)

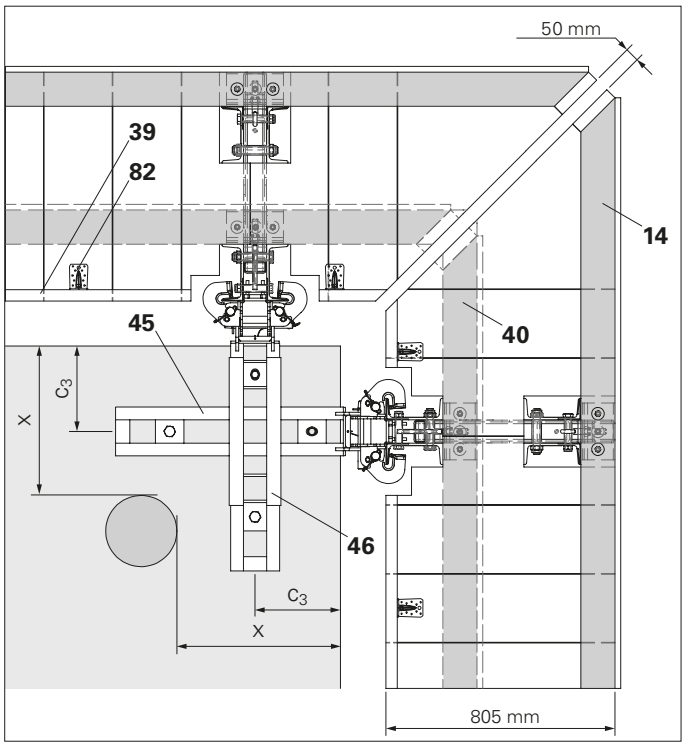


Fig. B3.02

Climbing protection panel variant 2 + 3
with wide work platform, see Section "A1 System variants" on page 22.

The work platform is mitred accordingly. Push the enclosure beam (**14**) and platform beam (**40**) up to the mitre. Assemble platform decking using multi-layer plywood sheeting in the mitred area. Cover the mitre gap. (Fig. B3.03)

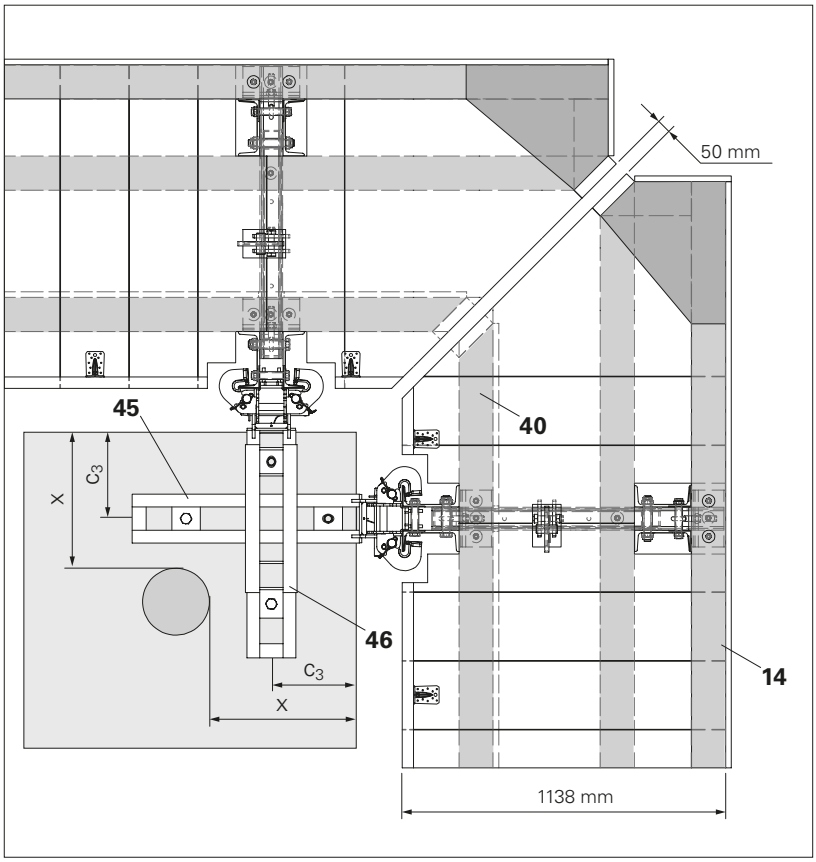


Fig. B3.03

Components

14	Enclosure beam (squared timber)
39	Toe board
40	Platform beam (squared timber)
45	Slab Shoe RCS
46	Slab Shoe RCS Corner
82	Angle bracket 90° reinforced

Climbing protection panel variant 2 + 3
with wide work platform, see Section "A1 System variants" on page 22.

Provide inclined support for the work platform in the mitred area. Guide the enclosure beam (**14**) around the corner up to the platform joint.
Reinforce the topside and underside of the enclosure beam with multi-layer plywood sheeting (**14.1**).
Assemble platform decking using multi-layer plywood sheeting in the mitred area.
Cover the mitre gap.
(Fig. B3.04 + B3.05)

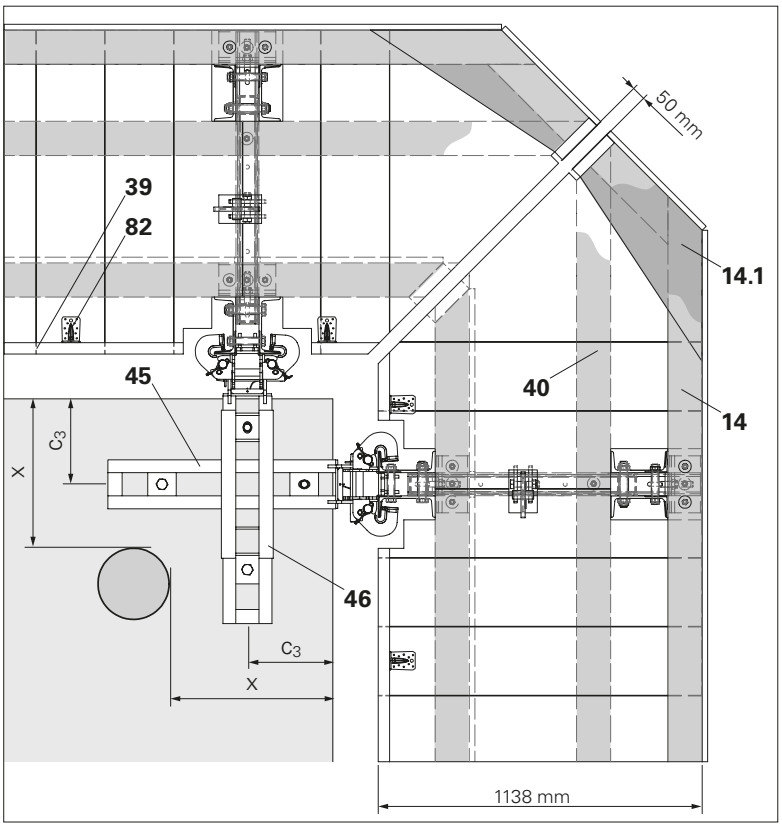


Fig. B3.04

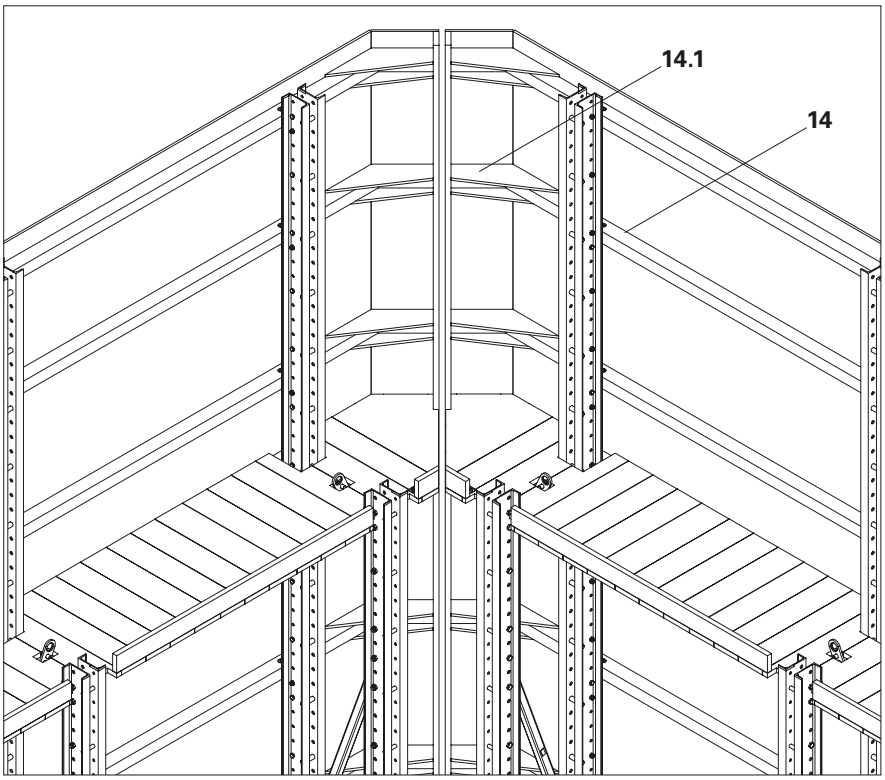


Fig. B3.05

Components

14	Enclosure beam (squared timber)
14.1	Bracing (multi-layer plywood sheet)
39	Toe board
40	Platform beam (squared timber)
45	Slab Shoe RCS
46	Slab Shoe RCS Corner
82	Angle bracket 90° reinforced

Corner supports at the edge of the building
For corner support, mount the Stop End Slab Shoe RCS (**48**).

The work platform in the mitred area is implemented as previously described.

The corresponding stop end slab tie (**51/52**) enables anchoring through the prop reinforcement.
Due to load transfer through the bond, the stop end slab tie can be positioned very close to the slab edge.
(Fig. B3.06)
See Section "B4 Special applications" on page 78.

Do not go below the lateral edge distance c_3 for the anchoring without additional structural verification. If necessary, measure and arrange edging reinforcement in the slab.
Anchoring applicable for c_3: screw-on cone 285 mm, climbing cone 320 mm.
(Fig. B3.06)

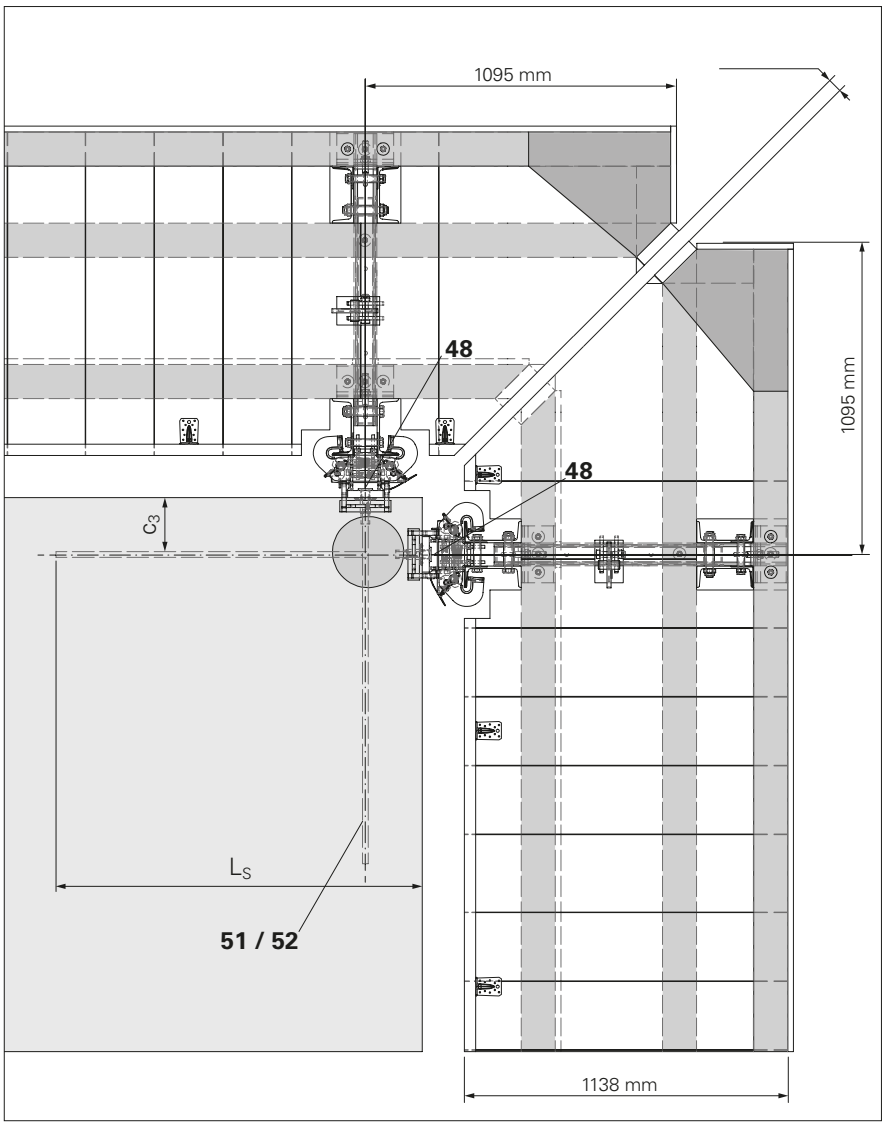


Fig. B3.06

Components

48 Stop End Slab Shoe RCS
51 Stop End Slab Tie M30/25-160
52 Stop End Slab Tie M24/20-128

B3 Corner platforms

Overlapping corner elements
With large building columns in the corner of a building, the corner elements can also be overlapped.

In order to keep the cantilever of the corner element to a minimum, a Wall Shoe RCS (**59**) can be used for anchoring in the prop. See Section "Anchoring to props or walls" on page 79.

The side wind load on corner platforms is kept to a minimum through an open, multi-part design of the lateral guardrails (**85**).
PERI recommends scaffolding tube bracing.

An enclosure consisting of netting or sheeting which is attached to this must be removed if wind speeds of over 100 km/h are expected.

For transferring force under the L-bracket (**86**), screw on planks (**37a**) transversely to the direction of the decking (**37**). Fix lateral planking to planking as well as the planking on platform beams (**40**) by means of Torx screws (**99**).

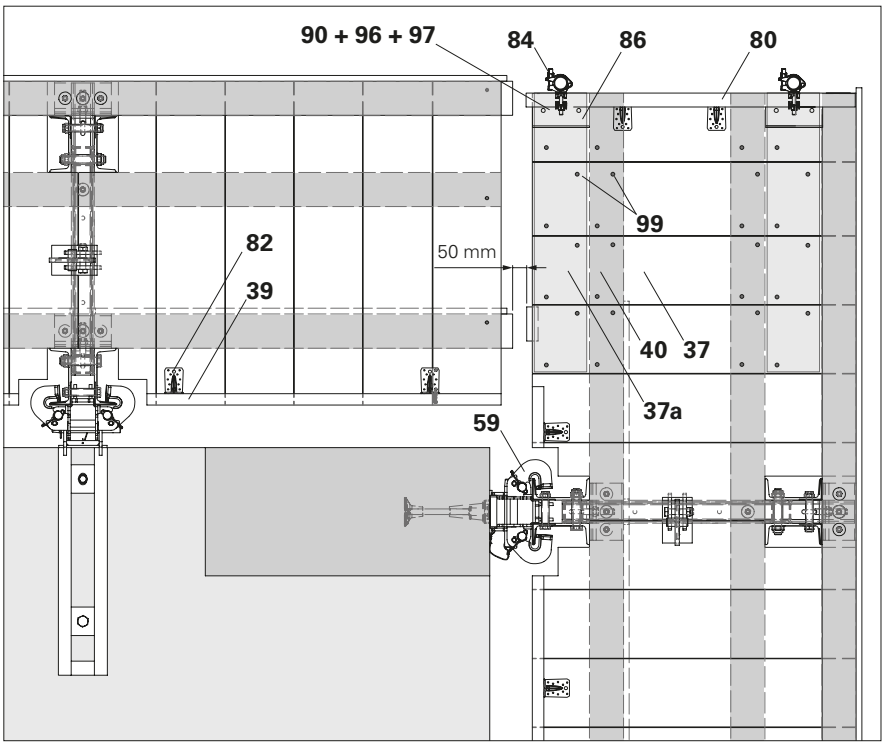


Fig. B3.07

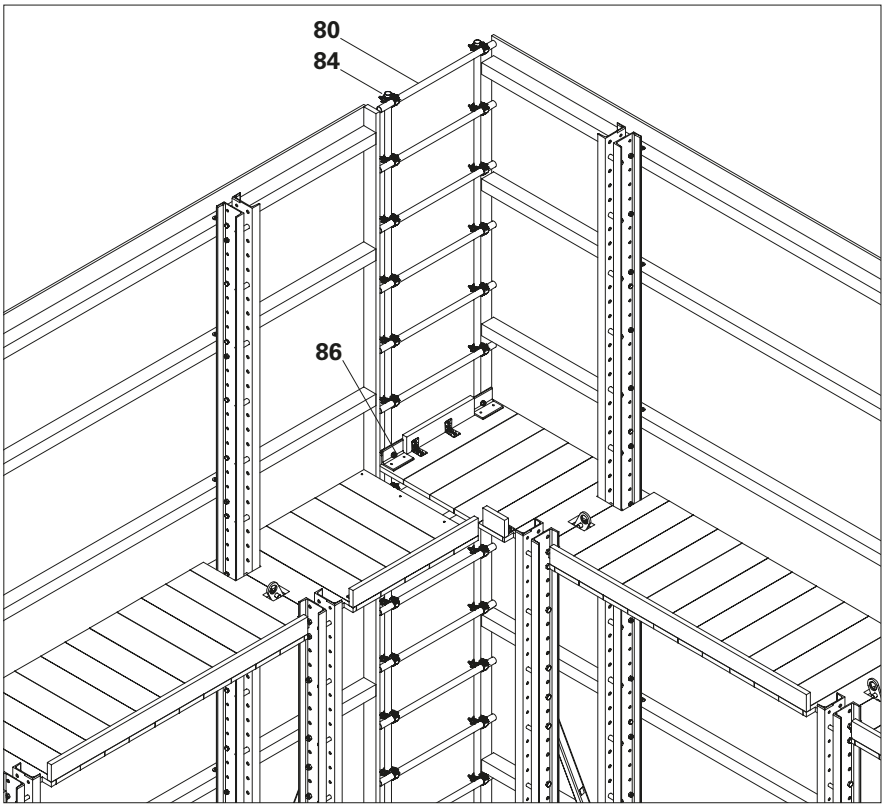


Fig. B3.08

Components

37	Work platform decking (planks)
39	Toe board
40	Platform beam (squared timber)
59	Wall Shoe RCS
80	Steel Scaff. Tube 48.3x3.2 mm lfm ga
82	Angle bracket 90° reinforced
84	Standard Coupler NK 48/48
85	Guardrail
86	L-bracket RCS
90	Bolt ISO 4017 M12 x 140-8.8
96	Hex. Nut ISO 4032 M12-8
97	Washer ISO 7093 200HV, A12
99	TSS-Torx 6 x 60

Bracing of corner elements

In the case of expected wind speeds of more than 100 km/h, corner elements are to be additionally secured with temporary diagonal bracing.

Angle of inclination $\alpha = 45 \pm 5°$

Anchoring with
4 x heavy-duty dowel Ø22 (**117**),
Dowel spacings 130 x 230 mm,
e.g. Hilti HDA-T M12

Alternative
2 x heavy-duty dowel Ø30 (**118**),
Dowel spacing 230 mm,
e.g. Hilti HDA-T M16.

Components

25	Fitting pin Ø 26 mm
47.6	Tie Rod DW 15, special length
117	Heavy-duty dowel Ø22
118	Heavy-duty dowel Ø30
119	Hex-Nut DW15 SW30 50 mm ga
121	Spindle Shoe SLS/RCS M24
122	Bracing Shoe RCS DW 15
123	Eye Nut RCS DW 15
125	Articulated Spanner RCS DW 15

The heavy-duty dowels used have to be statically verified for the oblique tension force Z.
The given minimum slab thicknesses and edge distances are valid for the mentioned dowels only.
Take into consideration the technical documentation of the dowel that has been used!

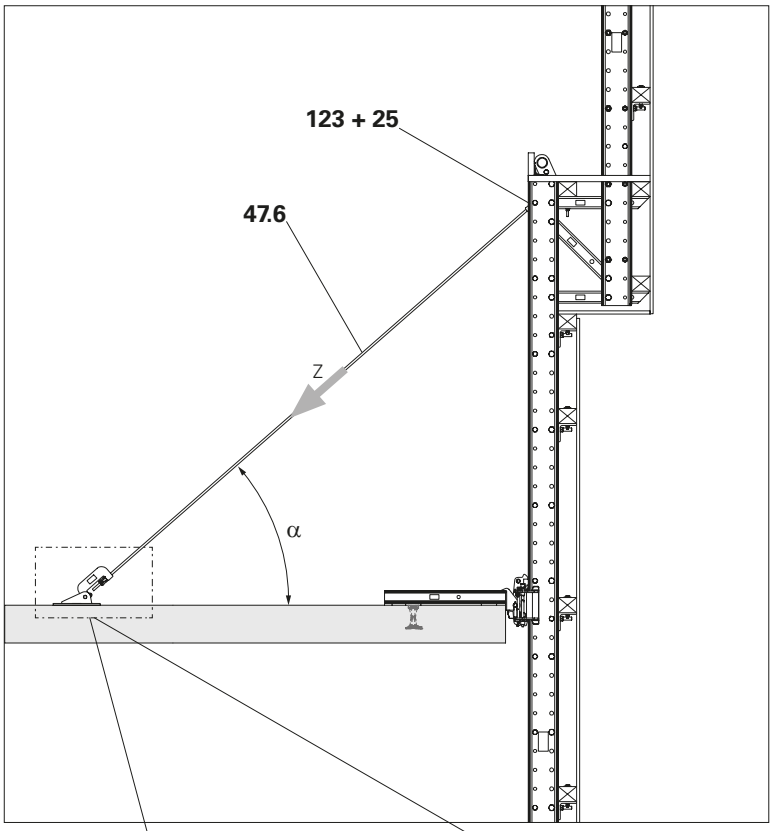


Fig. B3.08

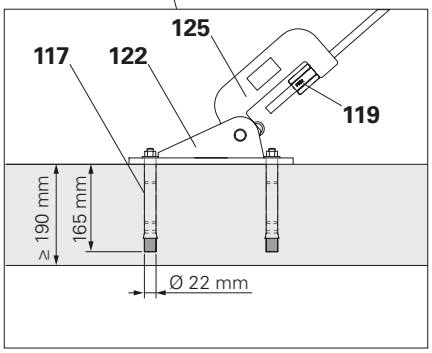


Fig. B3.08a

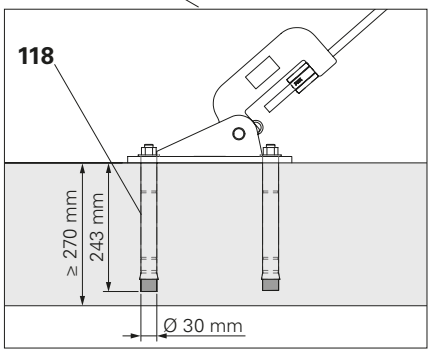


Fig. B3.08c

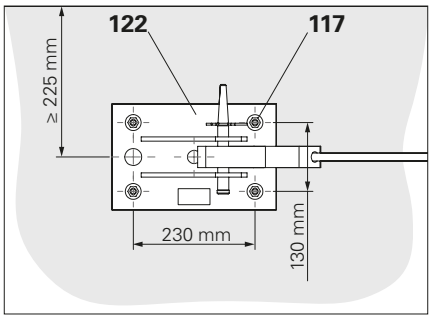


Fig. B3.08b

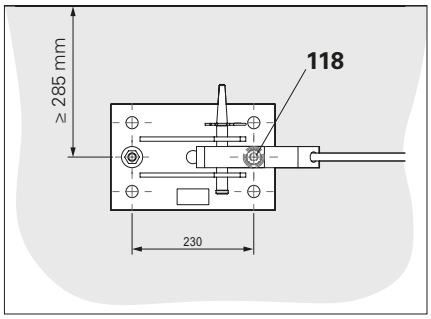


Fig. B3.08d

Inside corners

For inside corners, PERI recommends having a mitred arrangement.

The work platform is mitred accordingly. Push the enclosure beam (**14**) and platform beam (**40**) up to the mitre. Assemble platform decking using multi-layer plywood sheeting in the mitred area. Cover the mitre gap. (Fig. B3.09)

Components

14 Enclosure beam (squared timber)
39 Toe board
40 Platform beam (squared timber)
82 Angle bracket 90° reinforced

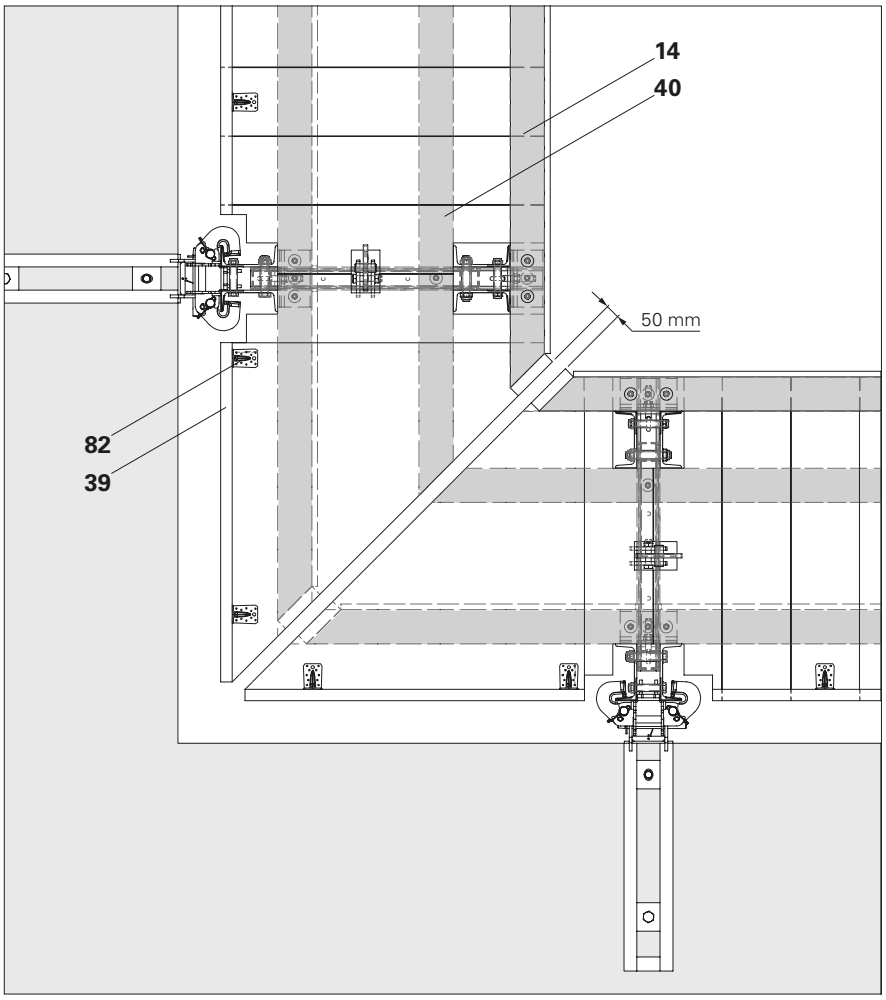


Fig. B3.09

Non-rectangular building corners

A combination of the Slab Shoe RCS (**45**) with the Slab Shoe Corner RCS (**46**) in the corner.
Using the Slab Shoe Corner RCS on non-rectangular corners results in an application range of min. 65° and max. 115°.

The tie arrangement is determined by the edge distance in the direction of force of 600 mm and through the intersecting point distance of the slab shoe axes to the slab edge of 300 mm.

Do not go below the lateral edge distance c_3 for the anchoring without additional structural verification. If necessary, measure and arrange edging reinforcement in the slab.
Anchoring applicable for c_3: screw-on cone 285 mm, climbing cone 320 mm.
(Fig. B3.10)

Obtuse-angled corners
The work platform is mitred accordingly. Push the enclosure beam (**14**) and platform beam (**40**) up to the mitre.
Assemble platform decking using multi-layer plywood sheeting in the mitred area.
Cover the mitre gap.
(Fig. B3.10)

Components

14	Enclosure beam (squared timber)
40	Platform beam (squared timber)
45	Slab Shoe RCS
46	Slab Shoe RCS Corner

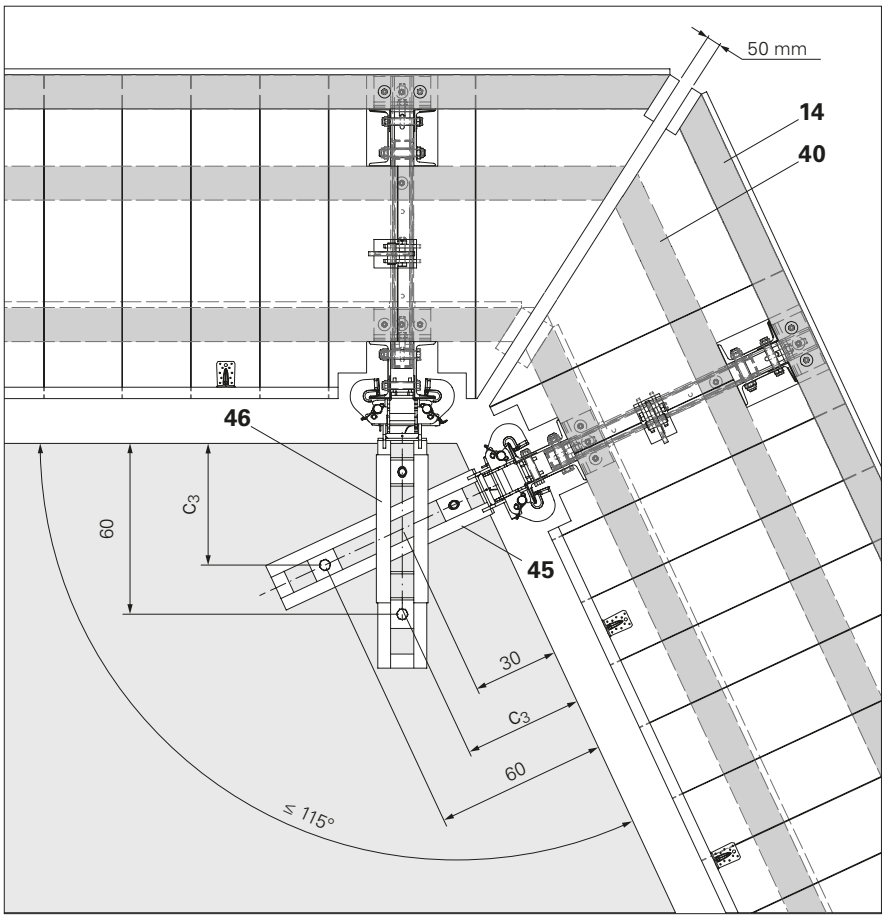


Fig. B3.10

Acute-angled corners
Provide inclined support for the work platform in the mitred area. Guide the enclosure beam (**14**) around the corner up to the platform joint.
Reinforce the topside and underside of the enclosure beam with multi-layer plywood sheeting (**14.1**).
Assemble platform decking using multi-layer plywood sheeting in the mitred area.
Cover the mitre gap.
(Fig. B3.11)

Depending on the assumed wind load, additional transverse bracing may be required.

Components

14	Enclosure beam (squared timber)
14.1	Multi-layer plywood sheet
40	Platform beam (squared timber)
45	Slab Shoe RCS
46	Slab Shoe RCS Corner

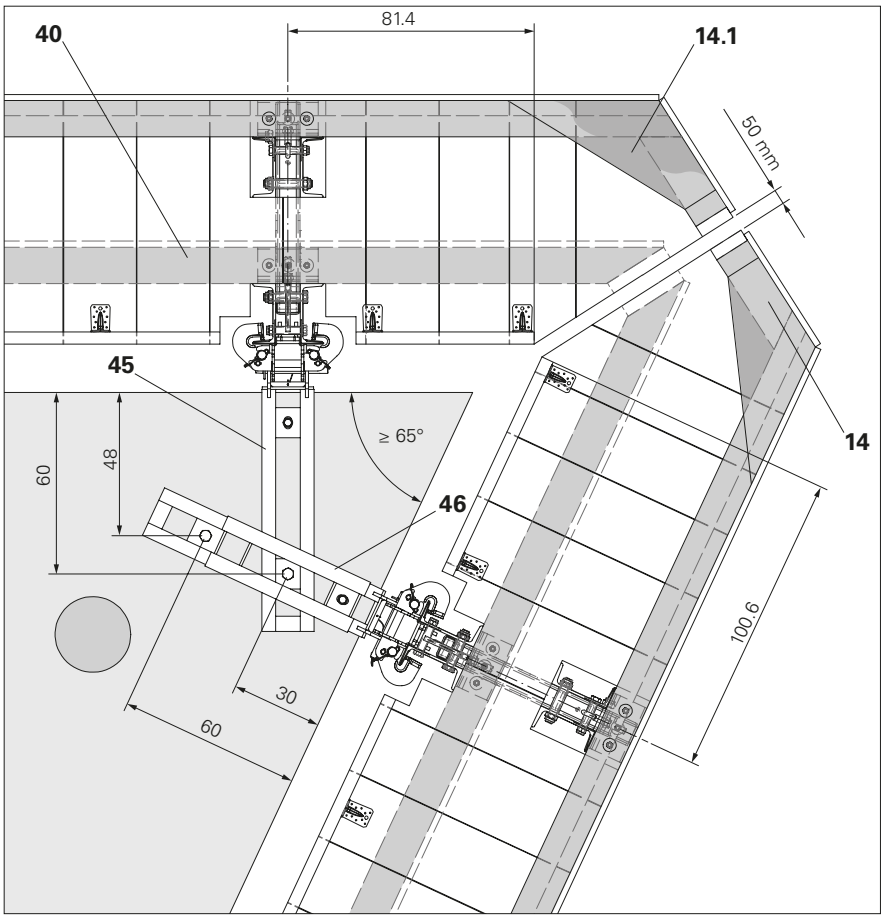


Fig. B3.11

Units on circular structures

On circular structures, the work platforms are generally jointed with a mitre cut.

Slab shoes (**45**), climbing rails (**2**) and crossbars (**10**) are arranged parallel to each other for each climbing unit.

Plan the anchoring of the slab shoes to be at least 20 cm apart. Otherwise static proof is to be provided.

The smallest possible building radius is to be shown on the drawing. During the planning process, take into consideration a gap s of ≥ 30 mm between the work platform decking (**36**) and edge of the building.

The foldable covers (**41**) must be wide enough to cover all areas of the building edge.

The position of the anchoring is to be determined on the drawing and must be clearly dimensioned.
Ensure that gap covers cannot move out of position.

The lateral adjustability of the slab shoe (**45**) must be guaranteed. Therefore, during the planning phase, ensure that the gap x between the building edge and the stop plate of the slab shoe is a min. of 10 mm along the whole width of the shoe. (Fig. B4.01a + B4.01b)

Components

10 Crossbar RCS 103
14 Enclosure beam (squared timber)
36 Work platform decking
45 Slab Shoe RCS

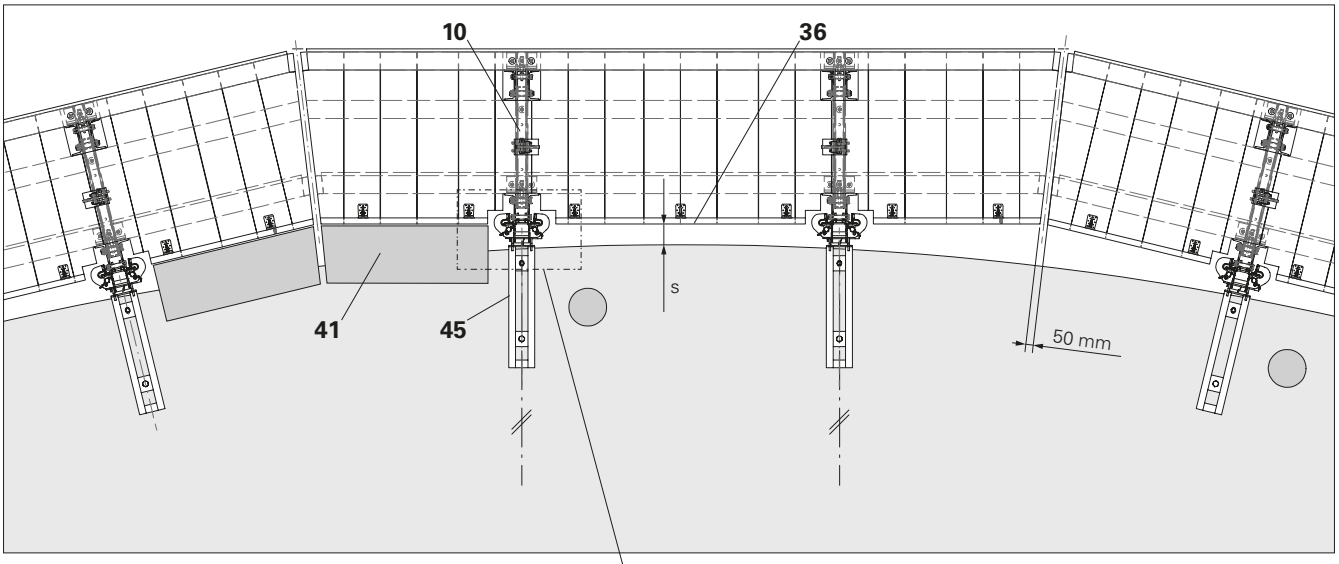


Fig. B4.01

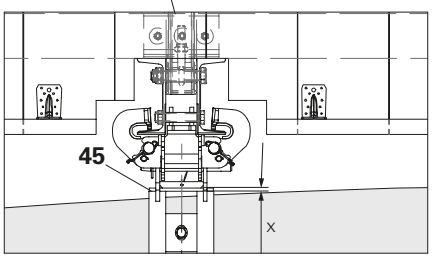


Fig. B4.01a

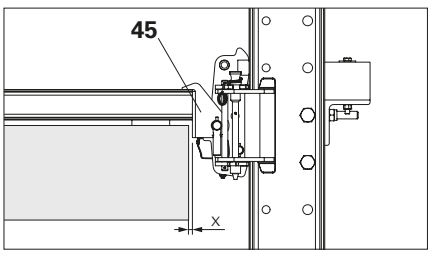


Fig. B4.01b

Anchoring to props or walls

Suspension with Wall Shoe RCS
The climbing shoe (**44**) is bolted by means of a locking pin (**59.1**) to the Wall Shoe RCS (**59**).

Slab shoes and wall shoes must be in the same vertical system grid. For this, the suspension of the wall shoe (**59**) is height-adjusted by Δh in 125 mm increments to the upper edge of the slab. (Fig. B4.02 + B4.02b)

If the climbing enclosure is to be moved with the self-climbing device, an offset Δh of 500 mm is required.

Anchoring for the wall shoe:
Threaded Anchor Plate DW20 (**47.2**)
Tie Rod DW20 L = t – 77 mm (**47.10**)
Climbing Cone M30/DW 20 (**47.9**)

Fix the Wall Shoe RCS (**59**) to the anchoring (**47**) using a Hex. Bolt ISO 4014 M30x70-8.8.

Adapt foldable covers to suit the building columns.
Close remaining gaps with cover mat and cover tape.

- Determine the required anchoring depth and concrete strength according to separate static calculations in accordance with Building Authority Approval Z-21.6-1767.
- Separate static proof is required and the support forces must be determined separately!
- The negative offset Δh of the wall shoe is to be added to the storey height itself and taken into account in the structural design.

Components

44	Climbing Shoe RCS
47.2	Threaded Anchor Plate DW 20
47.9	Climbing Cone M30/DW 20
47.10	Tie Rod DW20 spec. length
49	Bolt ISO 4017 M30 x 70-8.8
59	Wall Shoe RCS

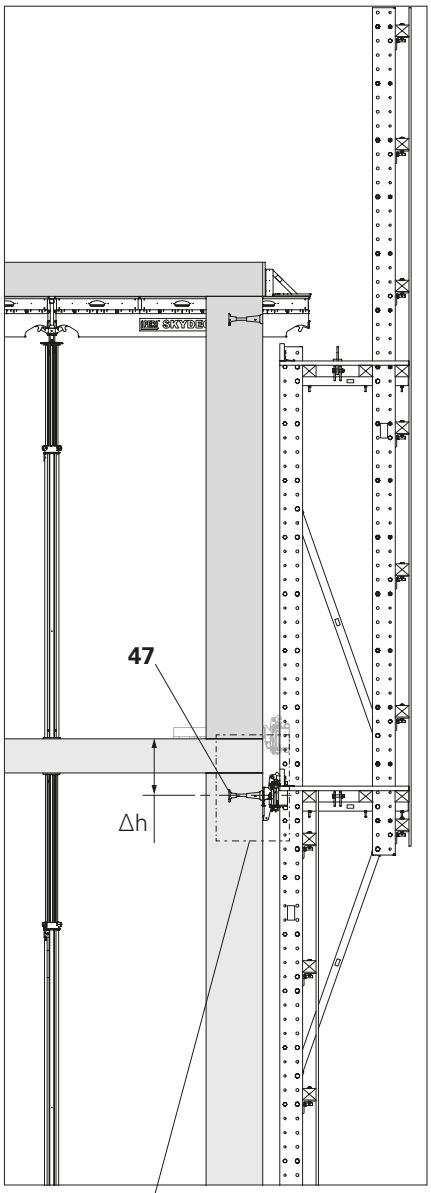


Fig. B4.02

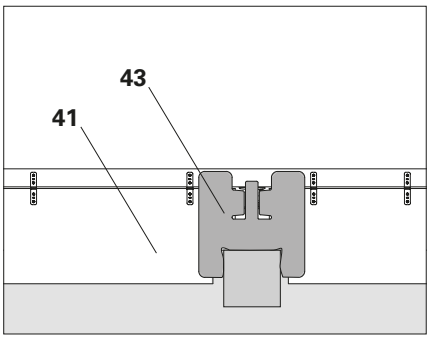


Fig. B4.02a

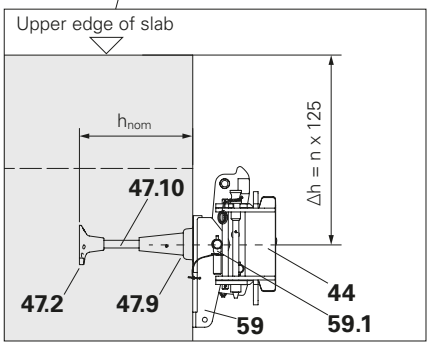


Fig. B4.02b

Anchoring on the front side of the slab

Suspension with the Stop End Slab Shoe RCS

The Stop End Slab Shoe RCS transfers vertical forces into the slab edge through contact. As a result, the anchoring is loaded with tension forces only.

Due to the slot in the Stop End Slab Shoe RCS, two stop end slab ties can be installed crosswise and vertically offset at the corners of the building.

Components

48 Stop End Slab Shoe RCS
49 Bolt ISO 4017 M30 x 70-8.8
50 Reducing bushing Ø 30 - 25
51 Stop End Slab Tie M30/25-160
52 Stop End Slab Tie M24/20-128
53 Bolt ISO 4014 M24 x 70-10.9
89 Slab prop

The Stop End Slab Shoe RCS (**48**) is fixed according to the anchoring type with corresponding bolts M30x70 (**49**) or bolt M24x70 (**53**) and reducing bushing Ø30-25 (**50**) to the Stop End Slab Tie M30/25-160 (**51**) or M24/20-128 (**52**).
(Fig. B4.03)

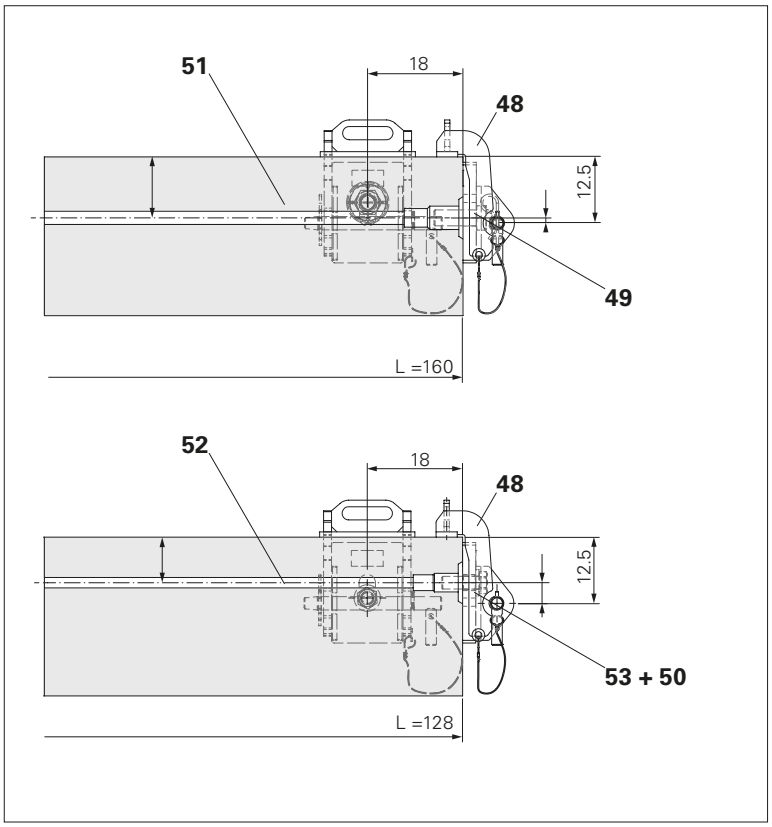


Fig. B4.03

For details on how to fit the stop end slab tie, see Section "Fitting the stop end slab tie" on page 117.

- The mounting height is offset downwards by 12.5 cm to the upper edge of the slab (mounting height of the standard slab shoe).
- To move the climbing unit with the climbing device, fit additional spacers in the climbing rail and compensate for the offset of 12.5 cm. (Fig. B4.04)

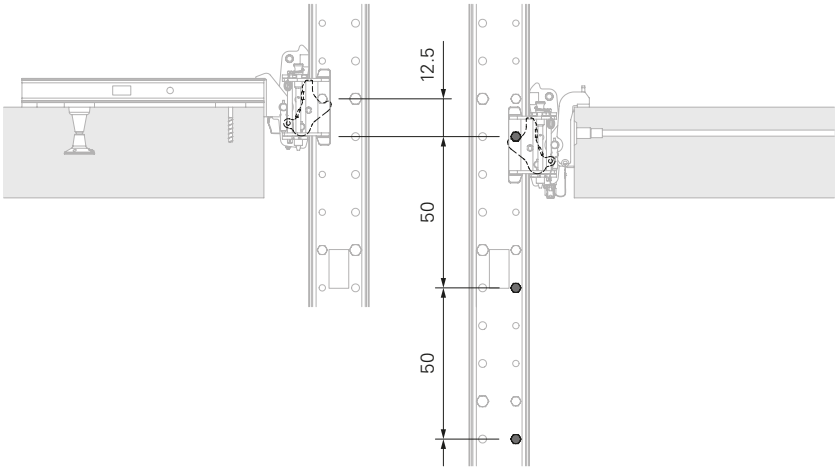


Fig. B4.04

Observe the type test.

Determine the required anchoring depth, additional reinforcement, support and concrete strength according to separate static calculations.

Warning

Falling fasteners (49, 50, 53) may strike people!
This can result in serious injuries.
⇒ Attach a trailing catching box (**87**) to the climbing unit. (Fig. B4.05)
⇒ Cordon off danger zones.
⇒ Danger zones to be protected by safety roofs.

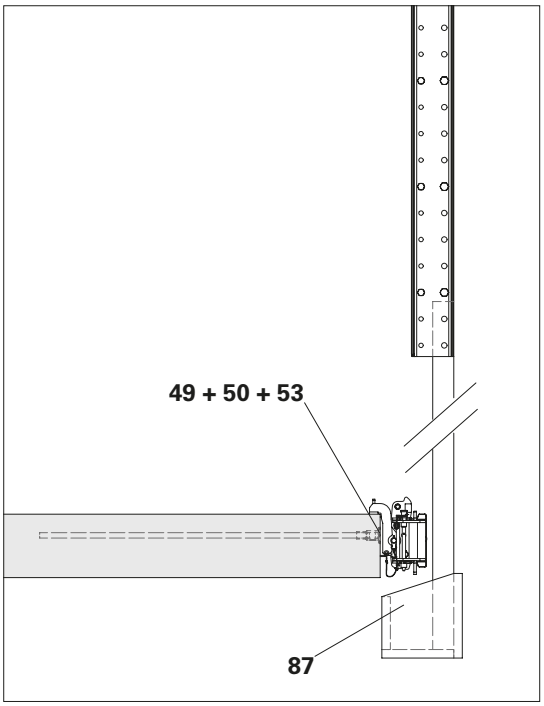


Fig. B4.05

If the stirrup reinforcement (**B**) at the slab edge is located behind the axis (**A**) of the load transfer point (max. 30 mm), then the slab edge has to be supported separately.
PERI recommends that an approx. 10 mm steel plate (**89.1**) be securely fixed to a slab prop (**89**) and positioned at the slab edge.
Hole diameter in the plate 13 mm, hole arrangement depends on the type of slab prop used. Countersink plate approx. 7 mm deep at 90°. Use Ø 14 mm holes in the prop head. Provide at least 2 screw connections.
Screw connection: countersunk screw M12x35 8.8, with nut.
(Fig. B4.06)

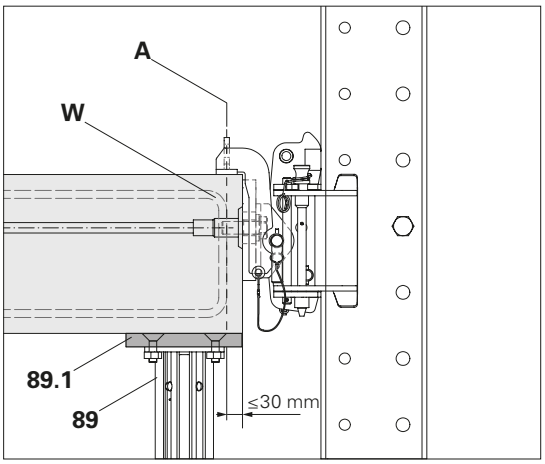


Fig. B4.06

The safe transfer of the loads into the reinforced concrete slab and further transfer have to be verified separately by a structural analysis.

Cantilevered anchoring

Cantilevered anchors are necessary to compensate for an offset in the concrete slabs.
This variant makes it possible to compensate for an offset > 30 cm.
(Fig. B4.07)
The following components are required in order to install the cantilevered anchoring.

Components

2.6	Climbing Rail RCS 148
44	Climbing Shoe RCS
53	Bolt ISO 4014 M24 x 70-10.9
68	Slab Support Tie Shoe RCS M24
69	Slab Support Alignment Shoe RCS
70	Slab Support Adapter RCS
151	Anchor Bolt SW24 Ø14/20x130 mm

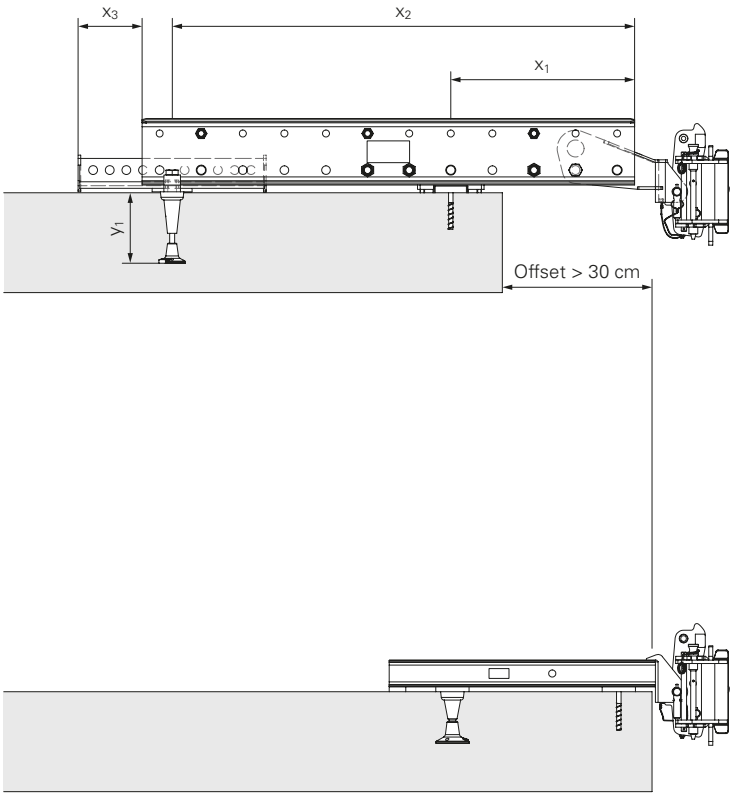


Fig. B4.07

Note

- The offset results in project-specific dimensions x and y for installation and anchoring. For these, refer to the project-specific installation plans.
- The anchoring (**47**) consists of:
  – Climbing Cone-2 M24/DW 15 (**47.5**)
  – Tie Rod DW15 (**47.6**)
  – Threaded Anchor Plate DW15 (**47.7**)
- The RCS Climbing Rail and components for anchoring may vary depending on the project.

Module pre-assembly

Components

2.6 Climbing Rail RCS 148
44 Climbing Shoe RCS
69 Slab Support Alignment Shoe RCS
70 Slab Support Adapter RCS

1. Move spacer M24-82 (**4**).
(Fig. B4.08)
2. Fit the Slab Support Adapter RCS (**70**) and Slab Support Alignment Shoe RCS (**69**) at the installation position on the Climbing Rail RCS 148 (**2.6**) using the enclosed fitting materials.
   Note the installation position of the Climbing Rail RCS 148 (**2.6**), the large row of holes is at the bottom.
(Fig. B4.09)
3. Bolt Climbing Shoe RCS (**44**) to Slab Support Adapter RCS (**70**) and secure with cotter pin.
(Fig. B4.10)

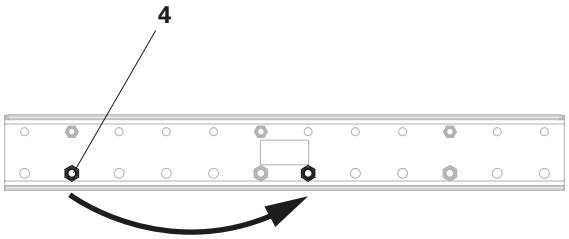


Fig. B4.08

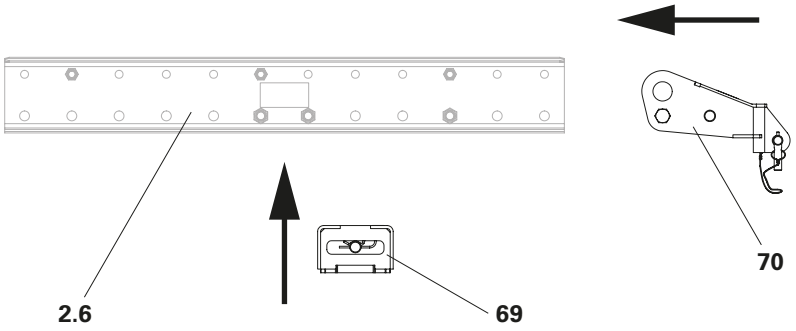


Fig. B4.09

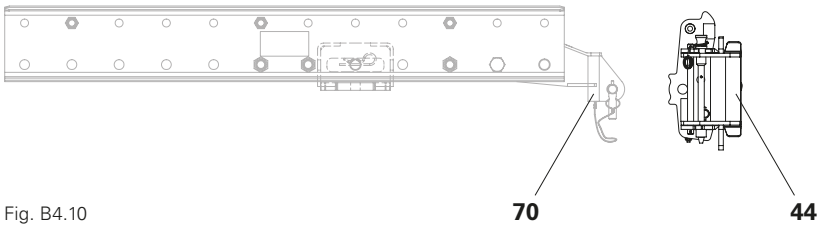


Fig. B4.10

Assembling the module

Components

53	Bolt ISO 4014 M24 x 70-10.9
68	Slab Support Tie Shoe RCS M24
151	Anchor Bolt SW24 Ø14/20x130 mm

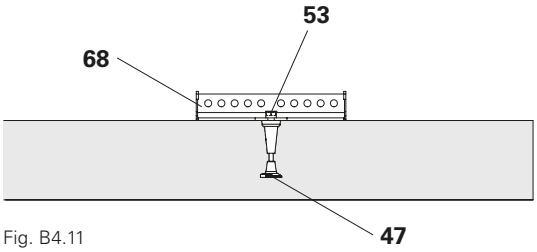


Fig. B4.11

1. Screw Slab Support Tie Shoe RCS M24 (**68**) to the anchoring (**47**) using bolt ISO 4014 M24 x 70-10.9 (**53**), but do not tighten the bolt fully at this stage.

(Fig. B4.11)

2. Align the Slab Support Tie Shoe RCS M24 (**68**) so that it is at right angles to the slab edge.
3. Remove Fitting Pin Ø26x120 mm (**68.1**), Cotter Pin 5/1 ga (**68.2**) and the hold-down device (**68.3**).

(Fig. B4.12)

4. Place the pre-assembled assembly on the Slab Support Tie Shoe RCS M24. The Climbing Rail RCS 148 (**2.6**) must not protrude beyond the slab edge!
5. Screw the hold-down device (**68.3**) to the Slab Support Tie Shoe RCS M24 (**68**) and secure the Climbing Rail RCS 148 (**2.6**) to prevent it from lifting.

(Fig. B4.13)

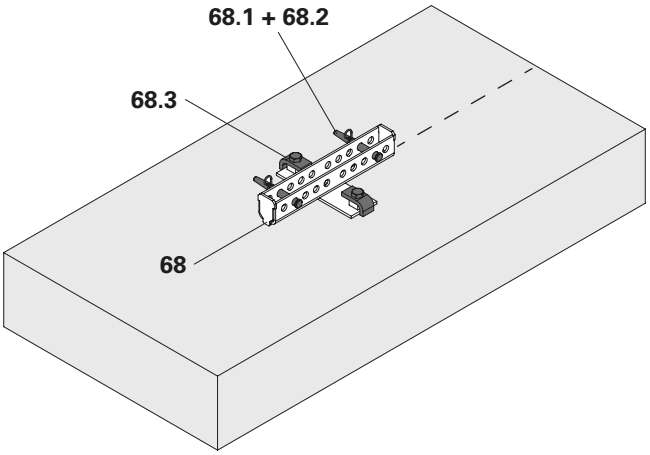


Fig. B4.12

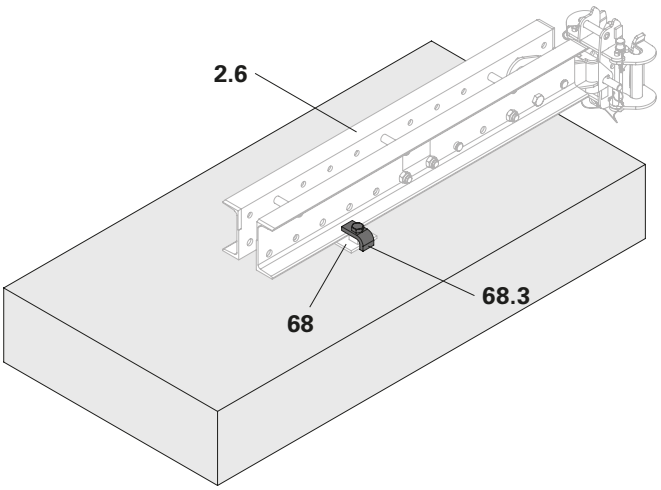


Fig. B4.13

6. Slide the assembly into the installation position.
7. Fasten the assembly to the Slab Support Tie Shoe RCS M24 (**68**) with Fitting Pin Ø26x120 mm (**68.1**) and secure with Cotter Pin 5/1 ga (**68.2**).
8. Align the assembly in such a way that the Climbing Shoe RCS (**44**) is flush with the climbing shoes from the previous concreting sections.

(Fig. B4.14)

9. Mark the hole for the Anchor Bolt SW24 Ø14/20x130 mm (**151**) and drill a Ø 14 mm hole.
10. Screw down the Slab Support Alignment Shoe RCS (**69**) with the tie bolt (**151**).
11. Tighten Bolt ISO 4014 M24 x 70-10.9 (**53**).

(Fig. B4.15)

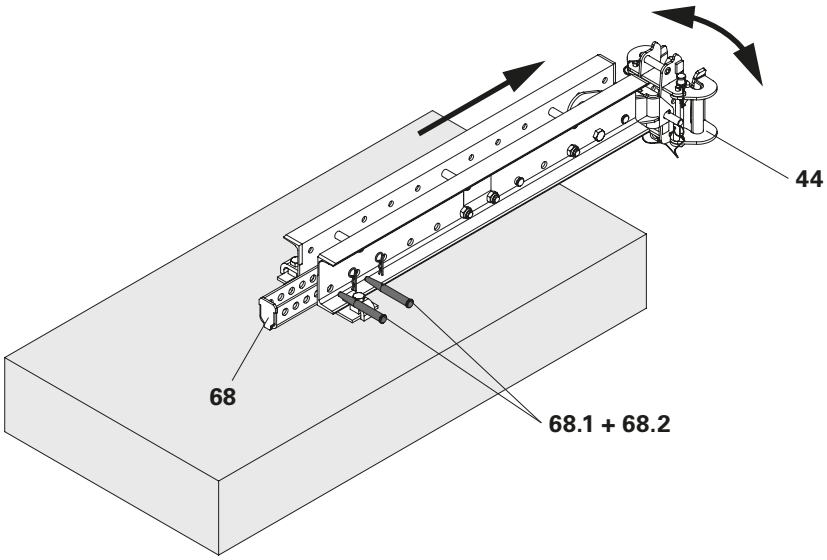


Fig. B4.14

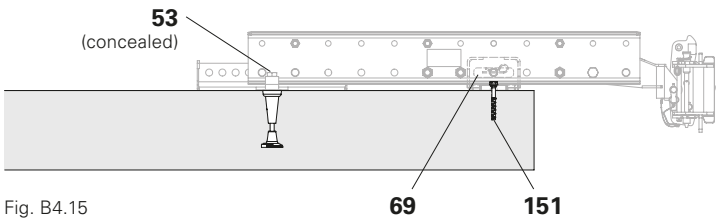


Fig. B4.15

C1 Pre-assembly of console brackets

General information

For pre-assembly, there must be a sufficiently large and level assembly area available, as well as sufficient space for temporary storage.
A crane or other lifting equipment is required.
Secure intermediate posts with temporary supports to prevent tipping over.
Assembly is carried out on aligned squared timbers.

Preparing the climbing rails

Position Climbing Rails RCS on squared timbers. Observe centre of gravity position with enclosure post.

! Note

Risk of collision when climbing!
An overly long bolt will jam the climbing rail on the climbing shoe.
⇒ Only use the specified bolt lengths and nuts.
(Fig. C1.01)

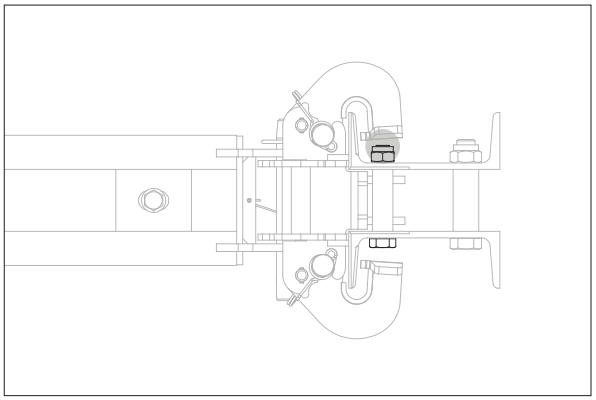


Fig. C1.01

C1 Pre-assembly of console brackets

Fitting the spacer M20
In some cases, it may be necessary to fit an additional spacer M20-82 (**3**) as a climbing bolt in the climbing rail, see Section "Additional spacers" on page 48.

Components

3 Spacer M20-82
3.1 Tube RO26.9x2.6mm 82mm
3.2 Bolt ISO 4014 M20 x 120-8.8
3.3 Nut ISO 7042 M20-8

Assembly
1. Position tube RO26.9x2.6mm 82mm (**3.1**) of the spacer M20 (**3**) in the Climbing Rail RCS using a hammer.
2. Insert bolt M20×120 (**3.2**) through the holes Ø21 of the climbing rail and through the spacer tube.
3. Attach self-locking nut M20-8 (**3.3**) (AF30) to the bolt and tighten. Tightening torque min. 100 Nm.

(Fig. C1.02)

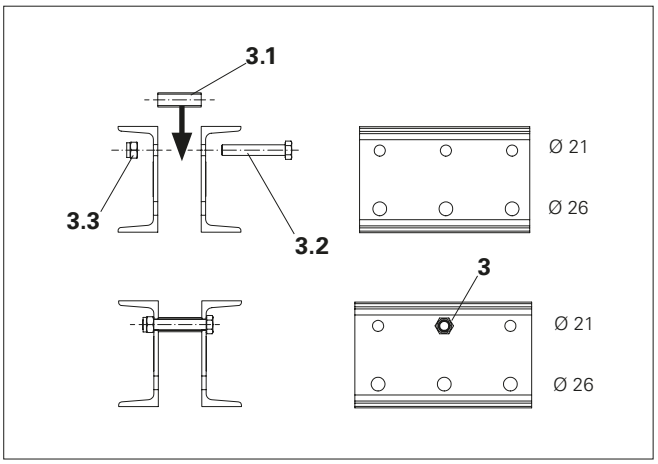


Fig. C1.02

- Spacers M20 (climbing bolts) must not be moved within the climbing rail, but installed in addition. The stroke of the climbing device allows a maximum distance of 50 cm from the spacers.
- It may be necessary to release adjacent spacers in the climbing rail. After mounting the additional spacer, re-tighten all previously loosened bolts. Tightening torque min. 60 Nm.

Has the nut (**3.3**) been tightened?

C1 Pre-assembly of console brackets

Re-positioning spacer M24
In some cases, re-positioning of spacers M24 in the climbing rail or enclosure post is required

Components

4 Spacer M24-82
4.1 Tube RO33.7x4mm 82mm
4.2 Bolt ISO 4014 M24 x 130-8.8
4.3 Nut ISO 7042 M24-8

Assembly
1. Remove nut M24-8 (**4.3**) (AF36).
2. Remove bolt M24×130 (**4.2**).
3. Re-position the Tube RO33.7x4mm 82mm (**4.1**) of the spacer M24 with the help of a hammer.
4. Insert bolt M24×130 (**4.2**) through the holes Ø26 of the climbing rail and through the spacer tube.
5. Attach self-locking nut M24-8 (AF36) to the bolt and tighten. Tightening torque min. 150 Nm.

(Fig. C1.03)

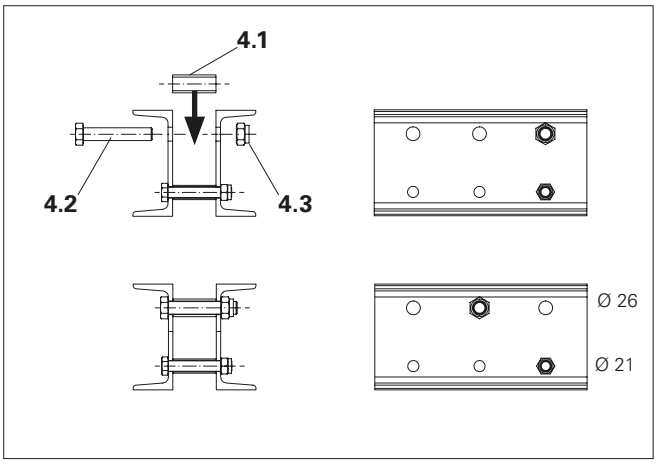


Fig. C1.03

- It may be necessary to release adjacent spacers in the climbing rail. After mounting the additional spacer, re-tighten all previously loosened bolts. Tightening torque min. 150 Nm.
- The Bolt Set RCS MAX (article no. 136109) can be used instead of the spacer M24-82.

Assembling the attachment points

Variant 1
with Crossbar RCS 69:
The Lifting Eye BR-2 2.5 t (**7**) is fixed to the Climbing Rail RCS (**2**) with the spacer M24 (**4**).

Components

4	Spacer M24-82
4.1	Tube RO33.7x4mm 82mm
4.2	Bolt ISO 4014 M24 x 130-8.8
4.3	Nut ISO 7042 M24-8
8	Lifting Eye BR-2 2.5 t

Assembly

1. Position Tube RO33.7x4mm 82mm (**4.1**) of the spacer M24 together with Lifting Eye BR 2.5t (**8**) on the topmost hole Ø26 of the climbing rail (**2**) with the help of a hammer.
2. Insert bolt M24×130 (**4.2**) through the holes Ø26 of the climbing rail and through the spacer tube.
3. Attach self-locking nut M24-8 (**4.3**) (AF36) to the bolt and tighten.

(Fig. C1.04)

Has the nut been tightened?

- Permissible load per Lifting Eye BR-2 2.5 t: max. 25 kN.
- If the permissible load-bearing capacity of the lifting eye is exceeded, attach the climbing unit to the spacers of the climbing rail using round slings with sufficient load-bearing capacity.
- Use the climbing beam 9 t to move the climbing units.
  Observe the relevant Instructions for Use.
- For further information see "Attachment point for crane" on page 58.

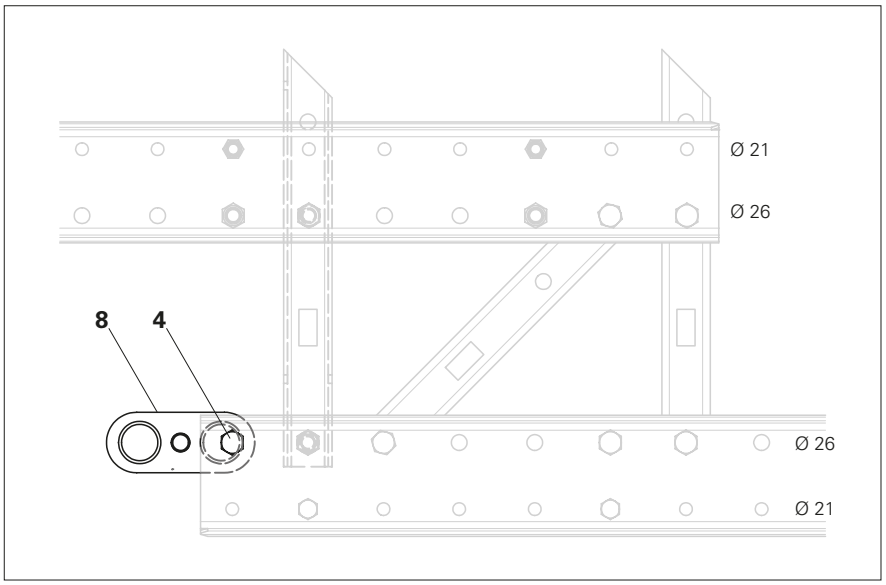


Fig. C1.04

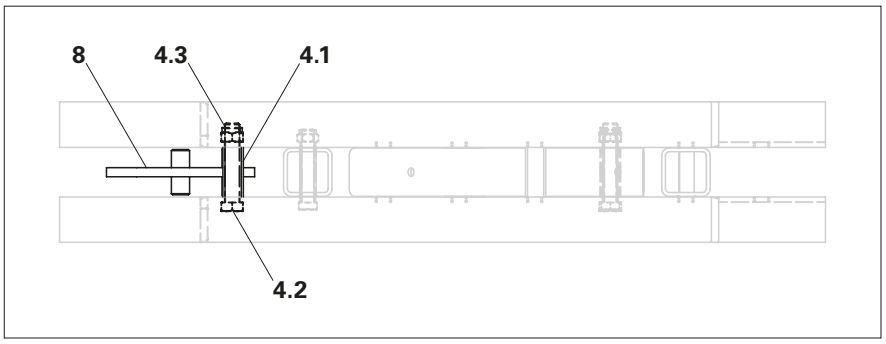


Fig. C1.04a

C1 Pre-assembly of console brackets

Variant 2 and 3
with Crossbar RCS 103:
Attach the Lifting Eye BR-2 2.5 t to the Crossbar 103 RCS.

Components

8 Lifting Eye BR-2 2.5 t
10 Crossbar RCS 103
10.1 Hex. Screw ISO 4014 M20x90-8.8
10.2 Nut ISO 4032 M20-8
10.3 Bracket

Assembly
1. Attach Lifting Eye BR-2 2.5 t (**8**) with the provided bolts M20x90-8.8 (**94**) and nuts M20-8 (**95**) to the brackets (**10.3**) of the Crossbar RCS 103 (**10**). (Fig. C1.05)

Has the nut been tightened?

- Permissible load per Lifting Eye BR-2 2.5 t: max. 25 kN.
- If the permissible load-bearing capacity of the lifting eye is exceeded, attach the climbing unit to the spacers of the climbing rail using round slings with sufficient load-bearing capacity.
- Use the climbing beam 9 t to move the climbing units.
  Observe the relevant Instructions for Use.
- For further information see “Attachment point for crane” on page 58.

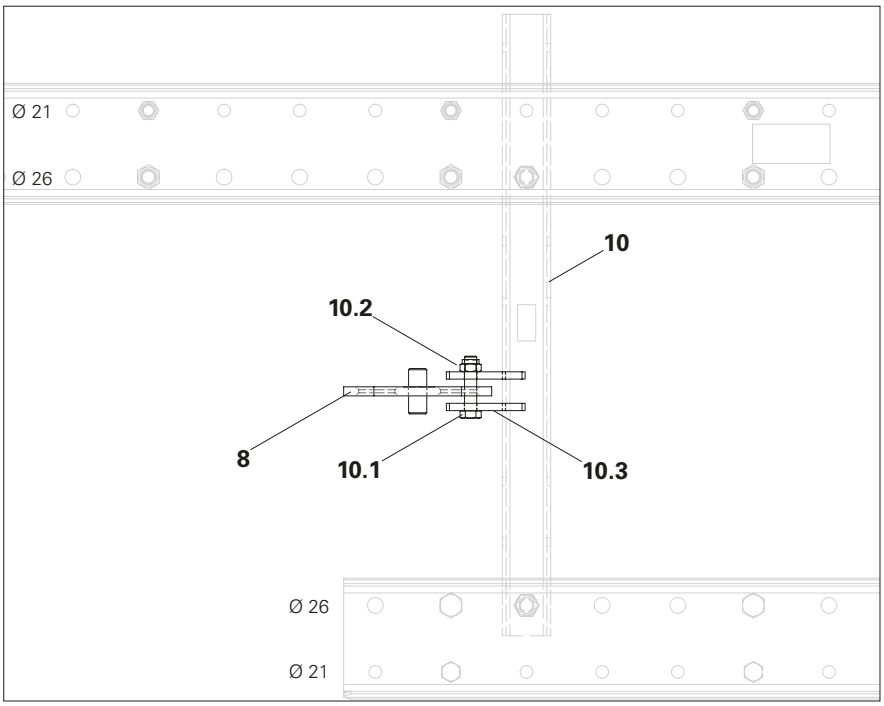


Fig. C1.05

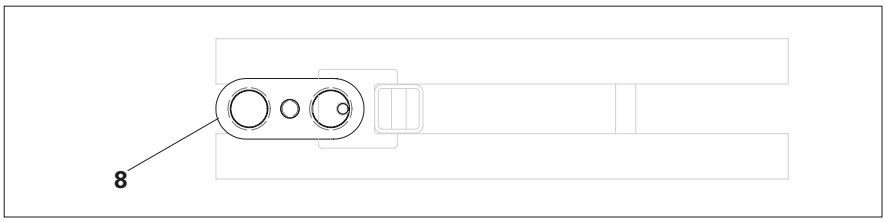


Fig. C1.05a

Assembling Climbing Rail Connector RCS 73

Enclosure post variant 3:
The Climbing Rail RCS 748 (**1.2**) is extended with a Climbing Rail RCS 148 (**1.4**) or 248 (**1.3**). For connecting the climbing rails, mount a Climbing Rail RCS 73 (**17**).

When connecting two climbing rails, ensure that the spacers are 50 cm apart. (Fig. C1.06)

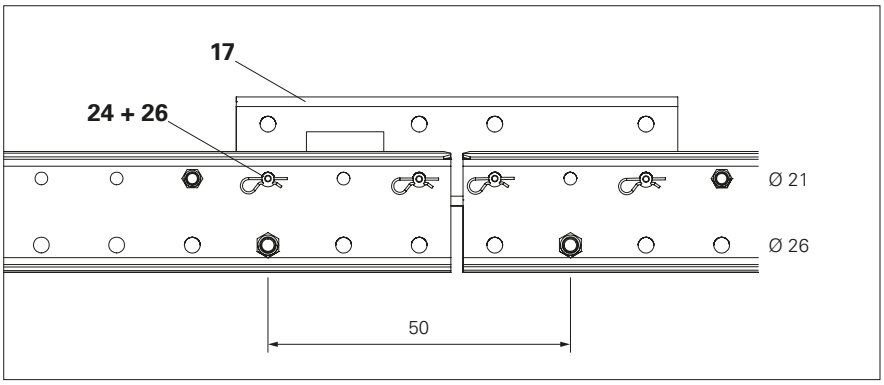


Fig. C1.06

Components

1.2 Climbing Rail RCS 748
1.3 Climbing Rail RCS 248
1.4 Climbing Rail RCS 148
17 Climbing Shoe Connector RCS 73
24 Fitting Pin Ø21x120 mm
26 Cotter Pin 4/1 ga

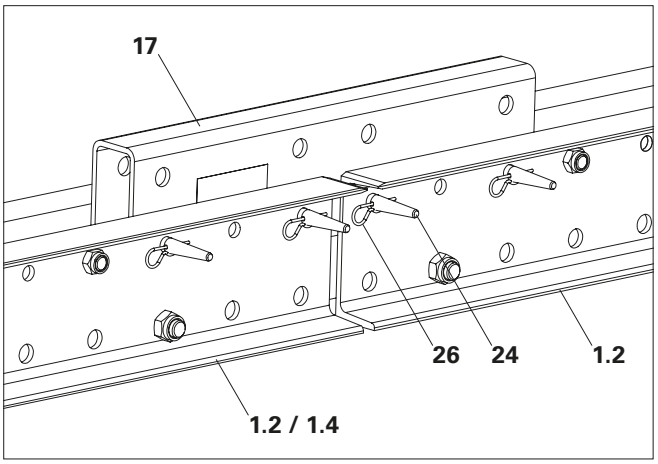


Fig. C1.06a

Assembly

1. Move spacers that are in the way. See Section "Preparing the climbing rails" on page 86.
2. Insert climbing rail connector (**17**) into the Climbing Rail RCS 748 (**1.2**) and connect with 2 fitting pins Ø 21 (**24**) in holes Ø 21.
3. Insert short Climbing Rail RCS (**1.3/1.4**) into the climbing rail connector and connect with 2 fitting pins Ø 21 in holes Ø 21.
4. Secure all fitting pins with cotter pins (**26**).

Assembling the bracket framework

- Assembly is explained using variant 2. The other variants are installed in the same way.
- The respective dimensions for the assembly are specified in the site-specific assembly drawings.

Installing climbing rails

Components

2	Climbing Rail RCS
13	Squared Timber Adapter RCS 12/20
14	Enclosure beam (squared timber)

Assembly

1. Prepare two climbing rails (**2**), with spacers Ø 26 mm above on squared timbers and align them according to the planned dimensions between axes.
2. Mount several enclosure beams (**14**) with squared timber adapters (**13**) according to plan. See Section "C4 Assembling the enclosure" on page 104.
   → The axial dimension of the climbing rails is fixed.
   → The enclosure beam also acts simultaneously as anti-tilt protection for bracket units.

(Fig. C1.07)

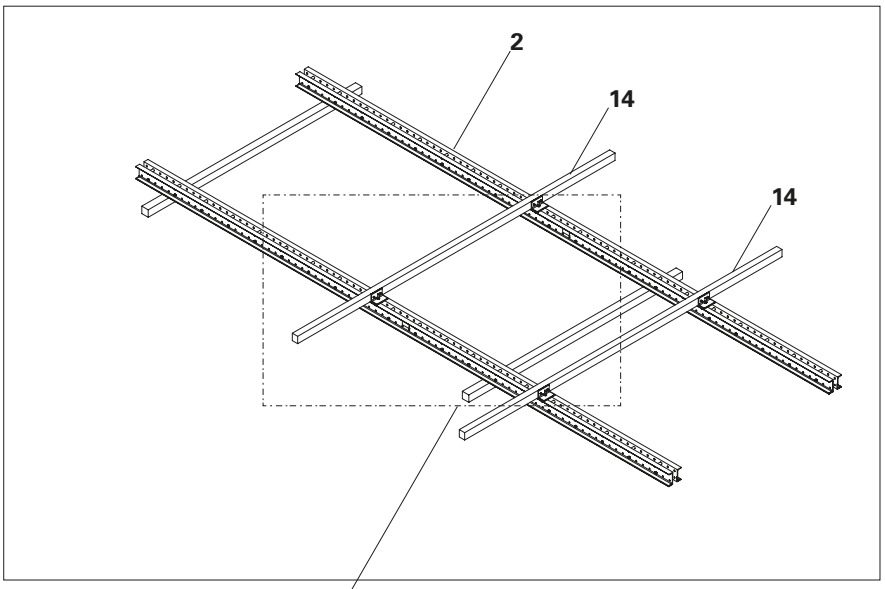


Fig. C1.07

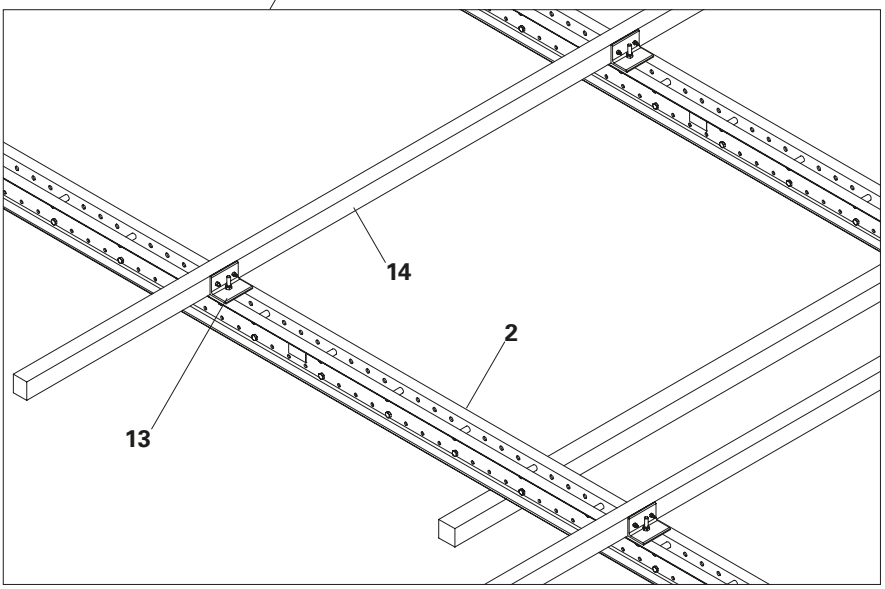


Fig. C1.07a

C1 Pre-assembly of console brackets

Mounting the framework

Components

2	Climbing Rail RCS
10	Crossbar RCS 103
12	Diagonal Strut RCS 212
40	Platform beam (squared timber)
91	Bolt ISO 4017 M12 x 240-8.8
94	Bolt ISO 4014-M24 x 130-8.8
95	Hex. Nut ISO 7042-M24-8
96	Hex. Nut ISO 4032 M12-8
97	Washer ISO 7093 200HV, A12

Assembly

1. Bolt on crossbar (**10**) and diagonal strut (**12**) with the bolts M24 x 130 (**94**) and nuts M24 (**95**) provided . Fold down the diagonal strut.
2. Position crossbar (**10**) vertically and screw the platform beam (**40**) securely to the crossbar. For information on preparing the platform beams, see Section "C2 Assembling the work platforms" on page 98.
3. Temporarily clamp truss girders on which no work platform is mounted using a screw clamp and squared timber.

(Fig. C1.08)

Depending on the organisation of work, pre-assembled work platforms can be mounted up to the outer decking transom.

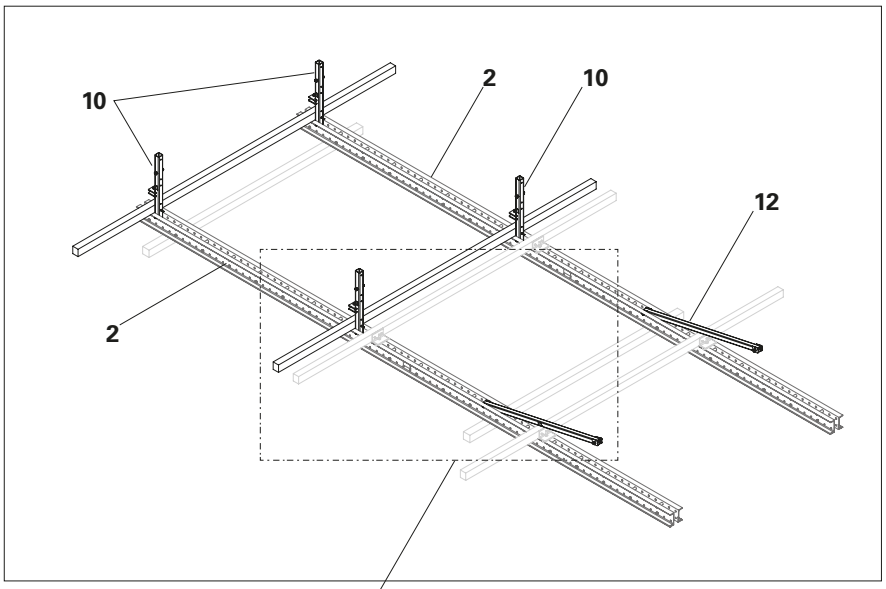


Fig. C1.08

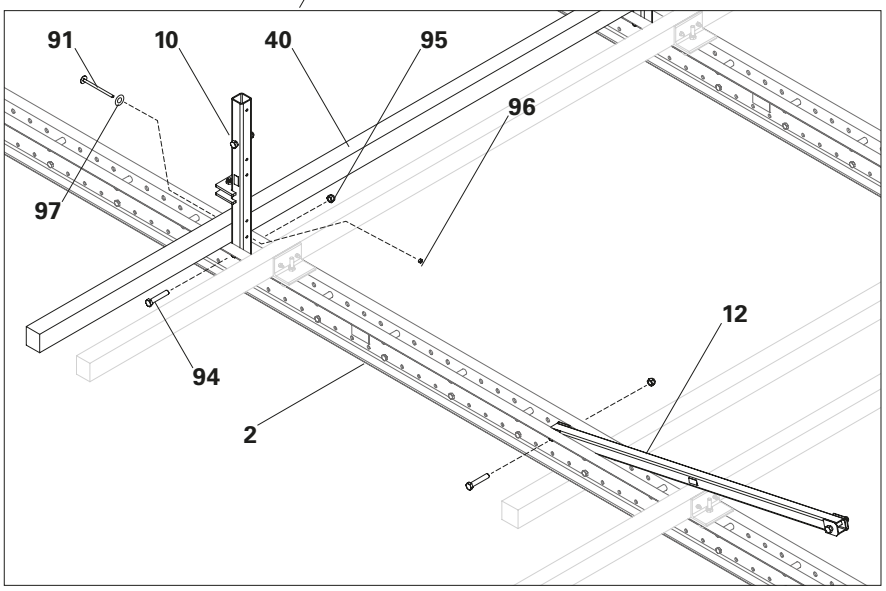


Fig. C1.08a

C1 Pre-assembly of console brackets

Mounting the enclosure posts

Components

1.2 Climbing Rail RCS 748
2 Climbing Rail RCS
10 Crossbar RCS 103
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8
12 Diagonal Strut RCS 212
40 Platform beam (squared timber)

Assembly

1. From above, position Climbing Rail RCS (**1.2**) as an enclosure post, with spacer Ø 26 mm below, on the crossbar (**10**).
2. Screw the enclosure post on the crossbar securely using bolts M24 x 130 (**94**) and nuts M24 (**95**). (Fig. C1.09)
3. Align the enclosure post with the crane until the crossbar is in a vertical position.
4. Fold down the bottom diagonal strut (**12**) and secure to the enclosure post (**1.2**) with bolt (**94**) and nut (**95**). (Fig. C1.09 + C1.09a)

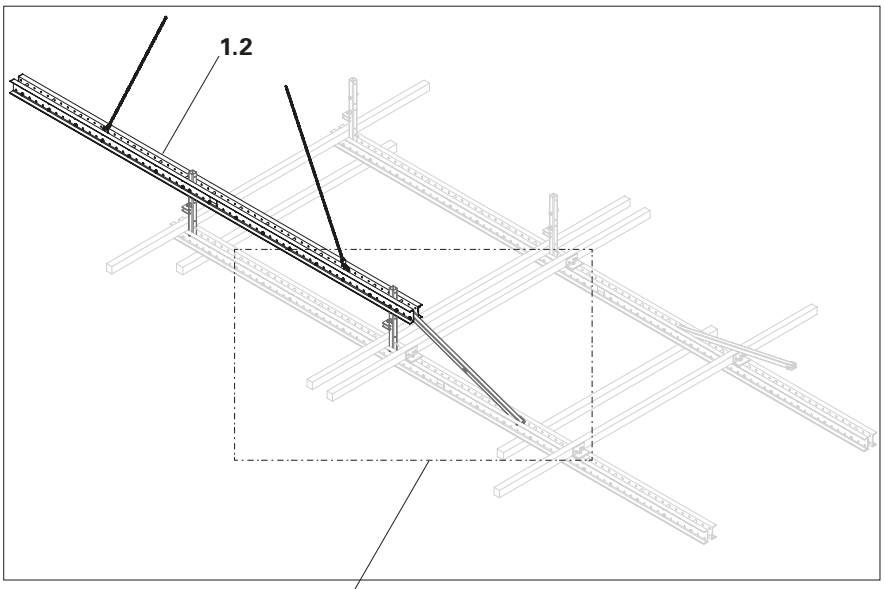


Fig. C1.09

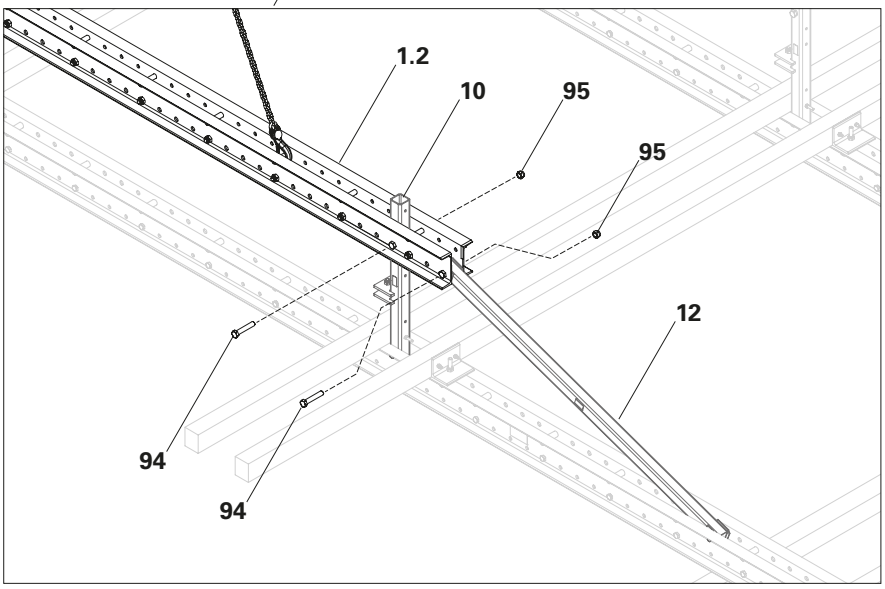


Fig. C1.09a

C1 Pre-assembly of console brackets

5. Install the middle diagonal strut (**12**) using bolts M24 x 130 (**94**) and nuts M24 (**95**). (Fig. C1.10a)
6. Release the enclosure post from the crane.
7. Mount additional enclosure posts.
8. Check for right-angled and parallel alignment in all directions before proceeding with assembly operations. For fixing, mount diagonal bracing if necessary.

→ Bracket framework variant 2 has now been mounted. (Fig. C1.10)

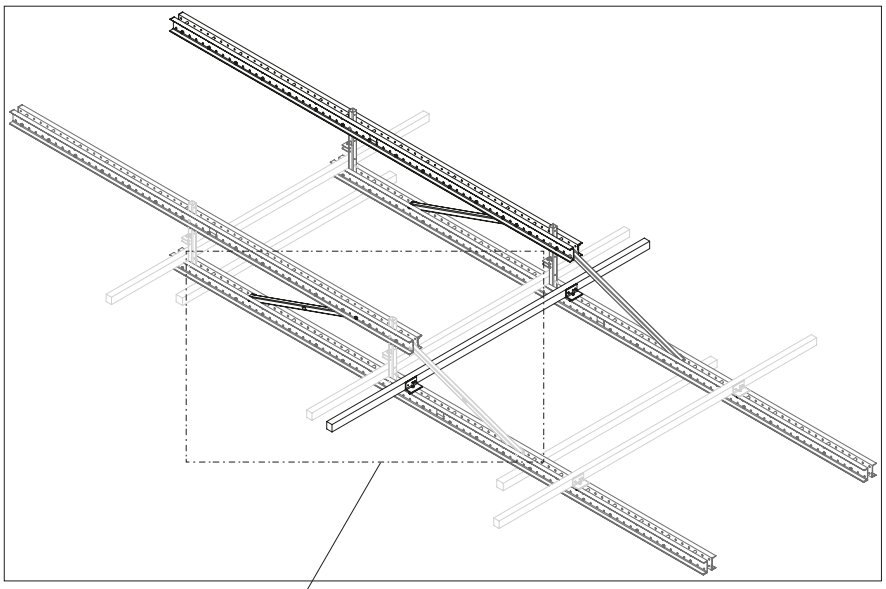


Fig. C1.10

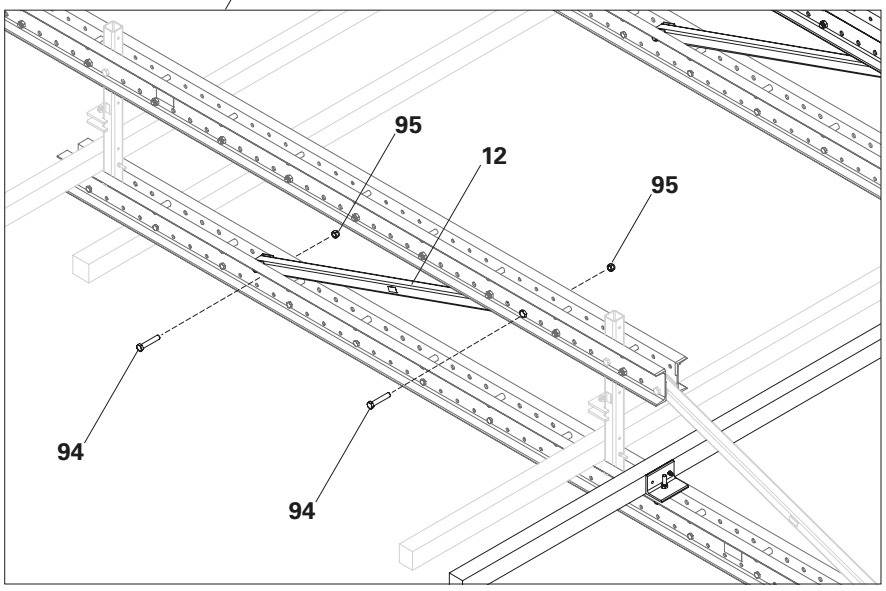


Fig. C1.10a

Overview of the bracket framework

(Enclosure post and girder not shown in order to provide a better overview)

Variant 1

Components

1.1 Climbing Rail RCS 348 or 498
2 Climbing Rail RCS
11 Crossbar RCS 69
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8

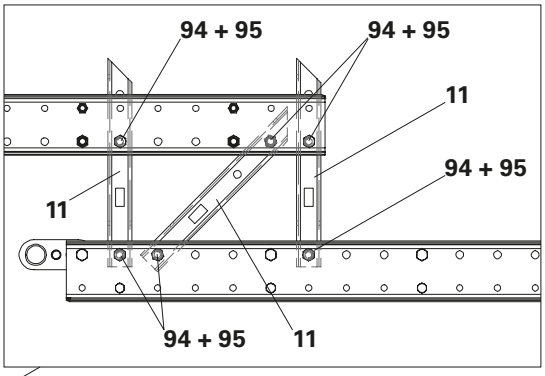


Fig. C1.11a

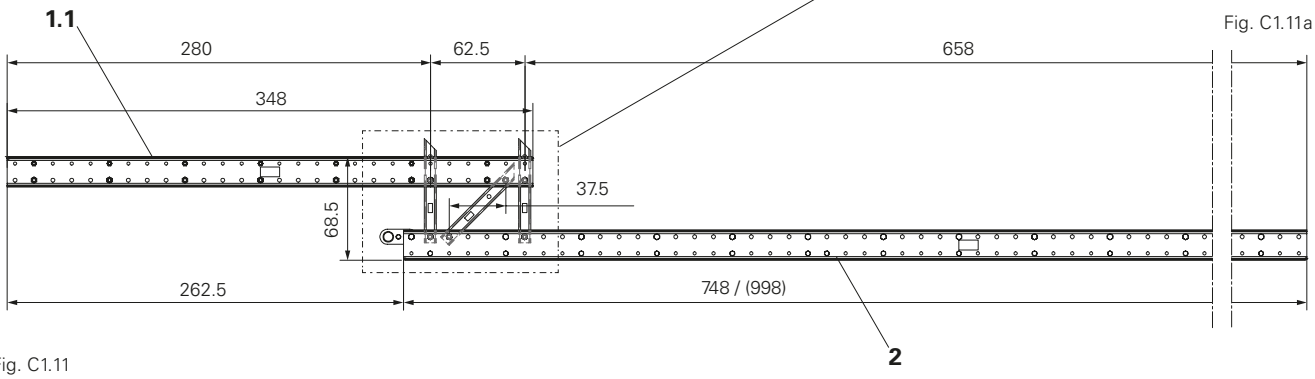


Fig. C1.11

Variant 2

Components

1.2 Climbing Rail RCS 748
2 Climbing Rail RCS
10 Crossbar RCS 103
12 Diagonal Strut RCS 212
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8

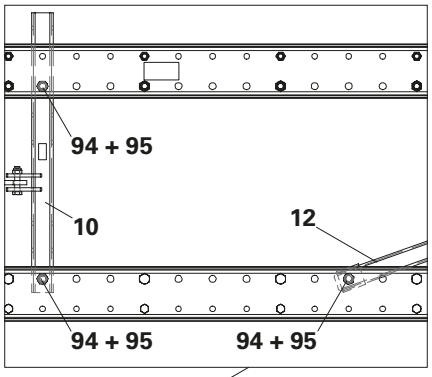


Fig. C1.12a

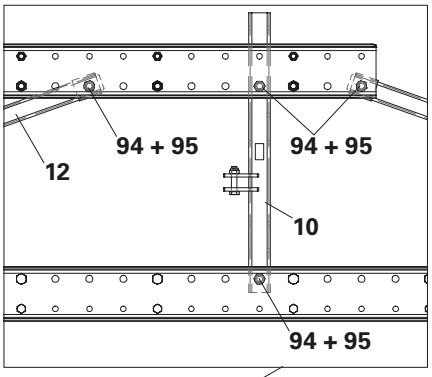


Fig. C1.12b

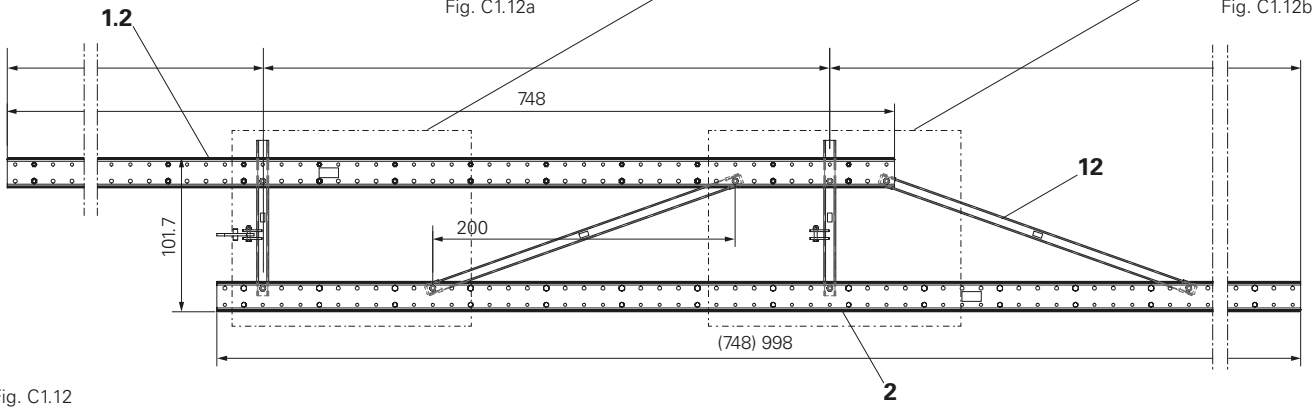


Fig. C1.12

C1 Pre-assembly of console brackets

Variant 3

Components

1.2 Climbing Rail RCS 748
1.3 Climbing Rail RCS 248
1.4 Climbing Rail RCS 148
2 Climbing Rail RCS
10 Crossbar RCS 103
12 Diagonal Strut RCS 212
31 Climbing Shoe Connector RCS 73
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8

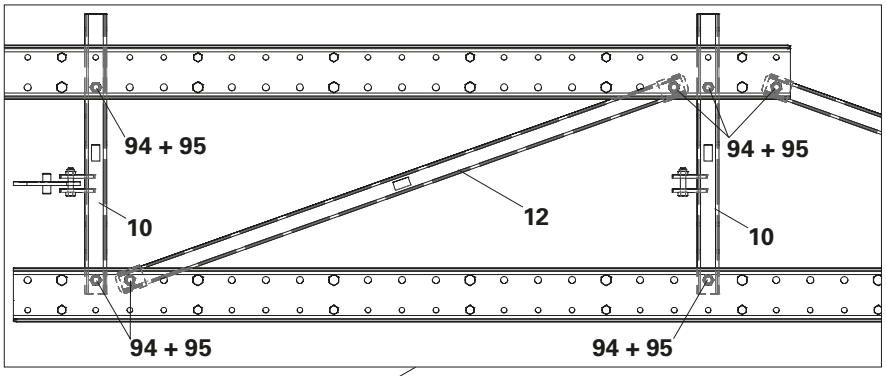


Fig. C1.13a

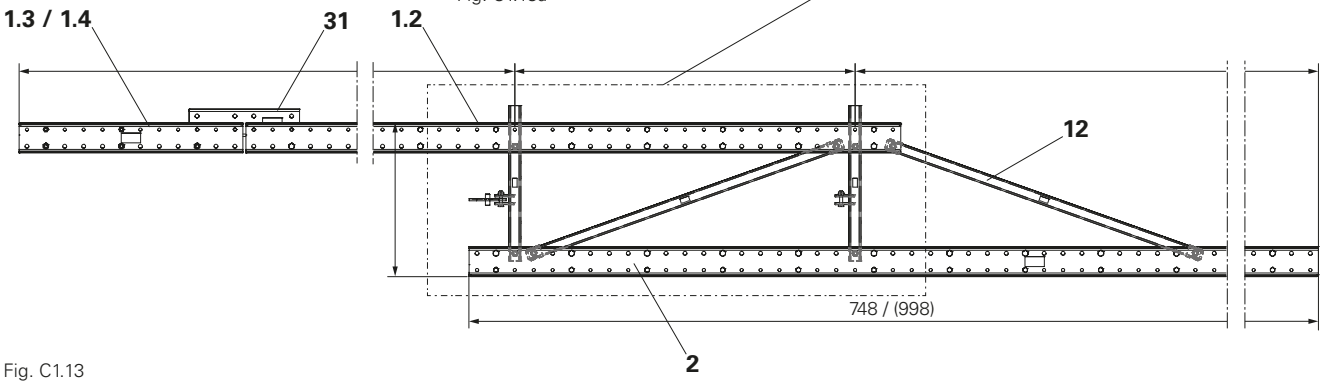


Fig. C1.13

Variant 4

Components

2.4 Climbing Rail RCS 348
2 Climbing Rail RCS
31 Climbing Shoe Connector RCS 73

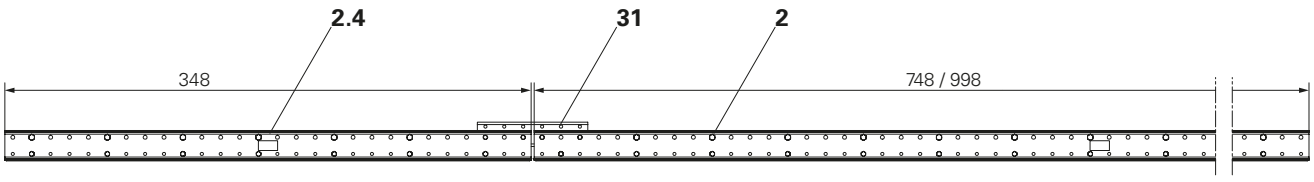


Fig. C1.14

General information

Cut the squared timber and platform decking according to site-specific planning documents.

Work platforms for variant 2 and 3 can be pre-assembled up to the platform beam.

Installing the platform beams

Screw the platform beams (squared timber) onto the truss girder.

Components

10 Crossbar RCS 103
40 Platform beam (squared timber)
91 Bolt ISO 4017 M12 x 240-8.8
96 Hex. Nut ISO 4032 M12-8
97 Washer ISO 7093 200HV, A12

Assembly

1. Countersink the platform beam (**40**) by at least 15 mm, e.g. with a Forstner drill Ø 45 mm, so that the planking does not project on the screw head.
   For squared timbers more than 160 mm thick, increase the countersink depth.
   Countersink depth x = squared timber thickness d - 145 mm
2. Drill squared timber with Ø 14 mm.
3. Insert bolt M12 x 240 (**91**) with washer (**97**) through the hole in the squared timber and crossbar, and tighten with nut (**96**). For the bolt M12 x 240, the maximum clamping length is a = 220 mm.

(Fig. C1.07)

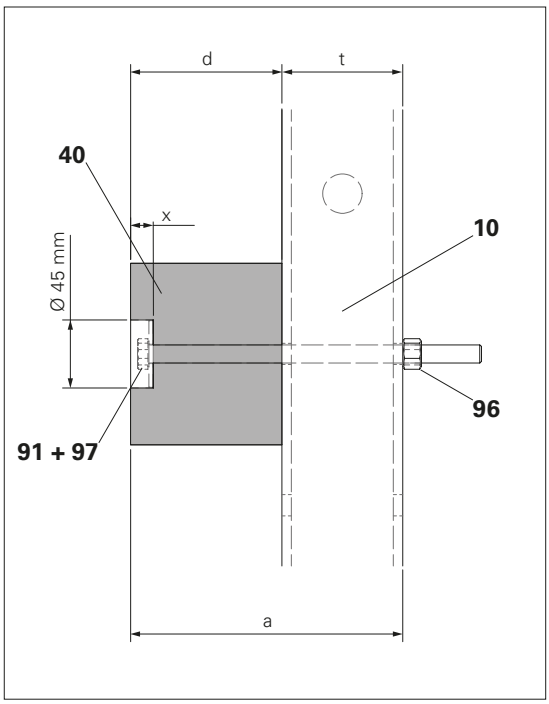


Fig. C2.01

Mounting the platform decking and toe boards

The platform decking must be tightly installed and flush with the enclosure. Close all open edges with toe boards.

Components

10	Crossbar RCS 103
11	Crossbar RCS 69
37	Work platform decking (planks)
39	Toe board
40	Platform beam (squared timber)
82	Angle bracket 90° reinforced
98	TSS-Torx 6 x 80
110	Spax Screw TX30, 6 x 20

Assembly

1. Secure each individual plank (**37**), 2x per intersection with each platform beam, with screws 6 x 80 (**98**).
2. Screw the angle bracket 90° reinforced (**82**) securely to the planking at a distance of approx. 100 cm using Spax Screw TX30, 6 x 20 (**110**).
3. Screw the toe boards to the angle bracket 90° reinforced with Spax Screw TX30, 6 x 20.
4. Fix toe boards (**39**) to the corners with Spax Screw TX30, 6 x 20 (**110**).

Cantilevered planking or cut-to-size decking made of multi-layer plywood sheeting is to be secured against lifting.
For the decking and toe board requirements, see Section “B2 Planning the units” on page 58.

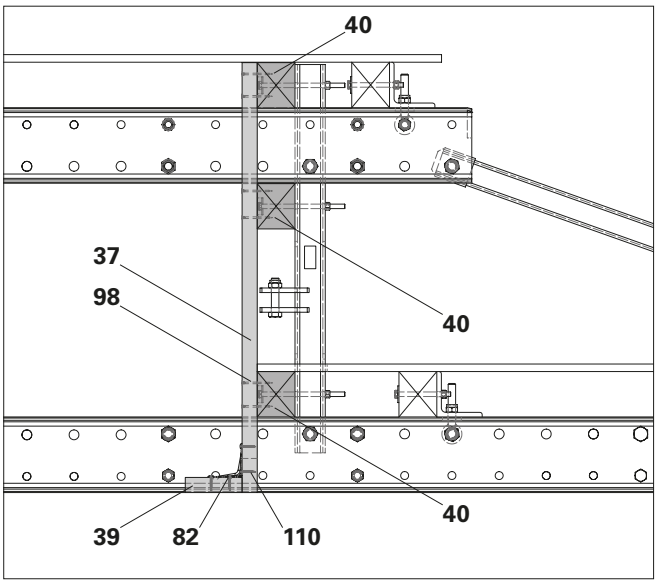


Fig. C2.02

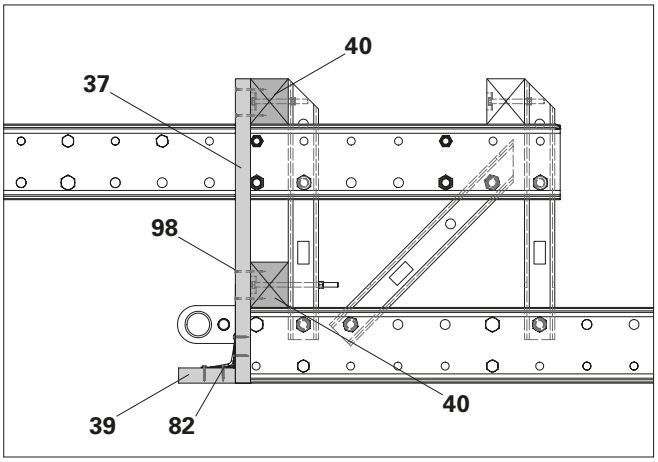


Fig. C2.02

C3 Fitting the foldable cover

Foldable cover

Assembly on the scaffolding tube

Components

2 Climbing Rail RCS
41 Foldable cover (multi-layer plywood sheeting)
80 Steel Scaff. Tube 48.3x3.2 mm lfm ga
137 Scaffold Tube Holder LPS/ RCS Ø 48
138 Flap Hinge LPS D48/M10
139 Flap Safety Plate LPS D=48 RCS
150 Reinforcement bar

Assembly

1. Mount scaffold tube holder (**137**) on the climbing rail (**2**) with fitting pin and cotter pin. The assembly position is specified in the planning documents.
2. As a transport locking device, screw one reinforcement bar (**150**) into both climbing rails with cam nuts. The reinforcement bar on the outer side must not project over the enclosure.

(Fig. C3.01)

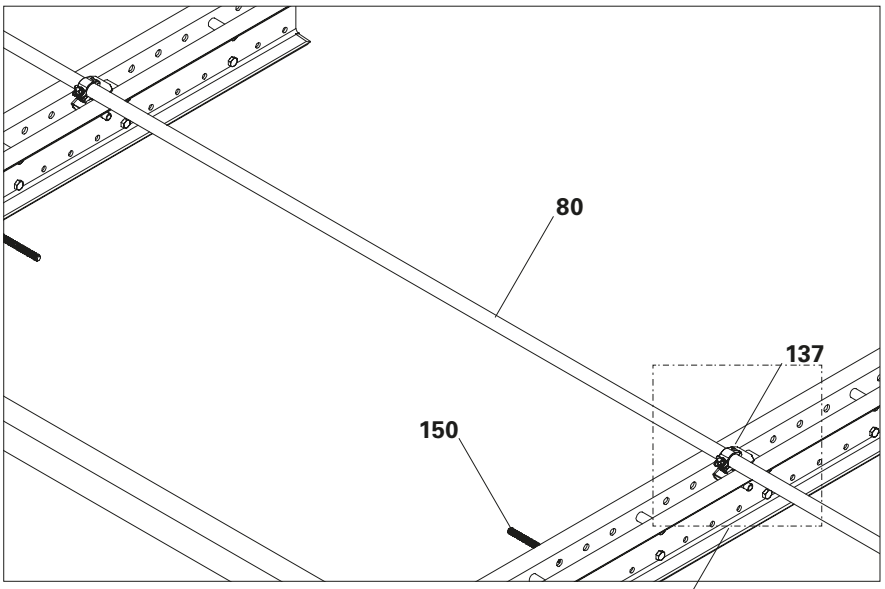


Fig. C3.01

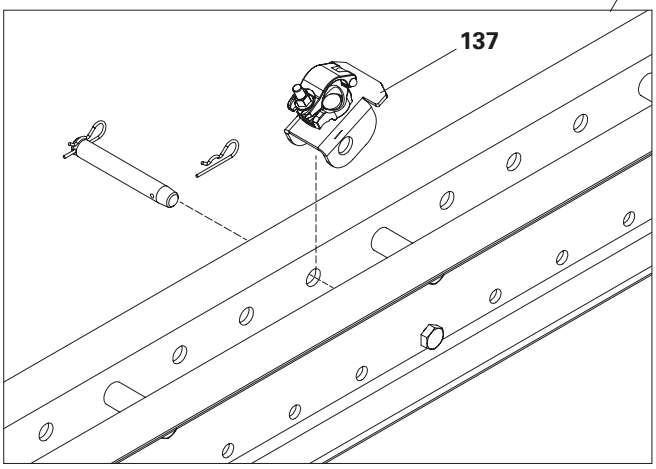


Fig. C3.01a

C3 Fitting the foldable cover

3. Cut the multi-layer plywood sheeting (**41.1**) to required size and pre-drill with Ø 11 mm.
4. Mount flap hinges (**138**) with the bolts M10x50-8.8 (**138.1**) and washers provided. For the permissible arrangement, see Figure "Fig. B2.07" on page 62 and Table "Tab. B2.02" on page 62.
5. Mount the foldable cover (**41**) on the scaffolding tube (**80**) and place on the reinforcement bar (**150**).
6. For each foldable cover, mount at least one flap safety plate (**139**) approximately in the centre using 2 SPAX Screws TX 30 8x20. Foldable cover is now secured. (Fig. C3.02)
7. Attach an "**Access to area prohibited**" sign to the top of the foldable cover. (Fig. C3.03)

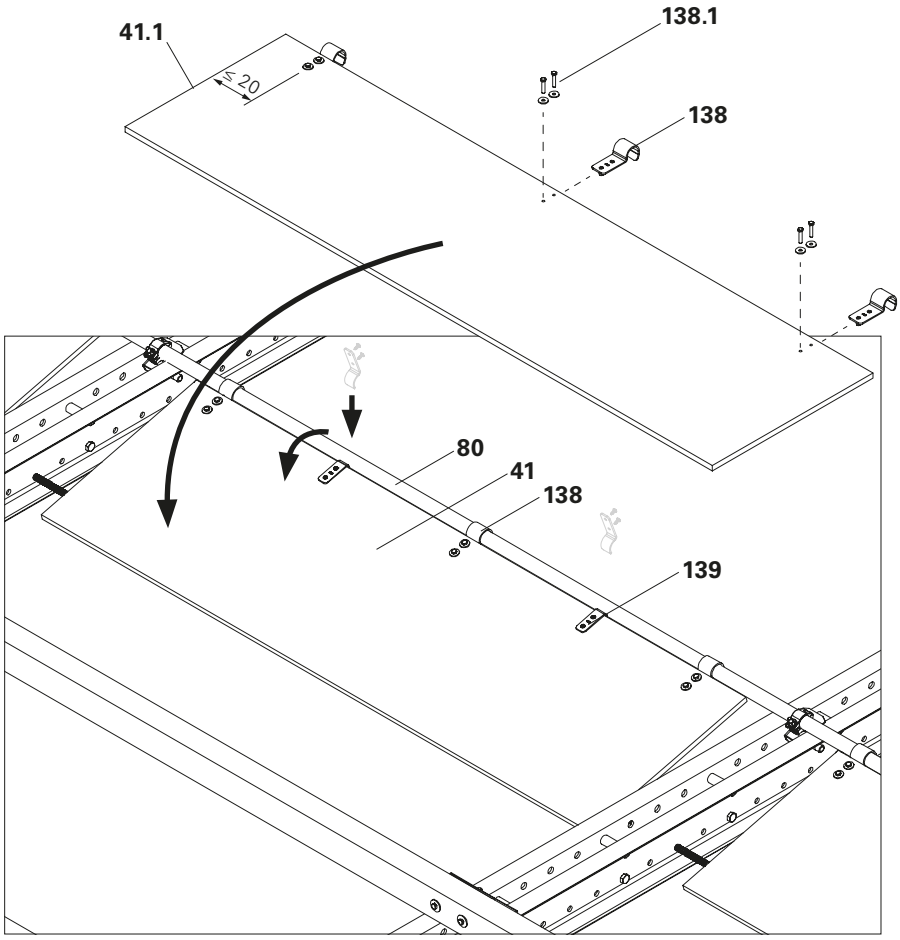


Fig. C3.02



Fig. C3.03

C3 Fitting the foldable cover

Assembly on the enclosure beam

Components

14 Enclosure beam (squared timber)
14.1 Support (squared timber)
41 Foldable cover (multi-layer plywood sheeting)
42 Hinge DIN 7957-200-ST
109 Spax Screw TX25, 5 x 20
111 Spax Screw TX30, 6 x 120
136 Fixation Bar RCS

Assembly

1. Position the pre-assembled enclosure beam (**14**), turned by half a turn, on the climbing rails.
2. As support (**14.1**) for the foldable cover, chamfer one squared timber to approx. 30°.
3. Screw the support (**14.1**) with screws 6 x 120 (**111**) at a distance of approx. 60 cm to the enclosure beam (**14**). (Fig. C3.04)
4. Cut foldable cover (**41**) made of weather-resistant multi-layer plywood sheeting according to site-specific assembly drawings.
5. On the enclosure side (**41.1**), chamfer the edges to under approx. 30°.
6. Secure each flap to the enclosure beam using at least 2 hinges (**42**). Secure hinges to flap and enclosure beam using 2 x 4 screws 5 x 20 (**109**). (Fig. C3.05)

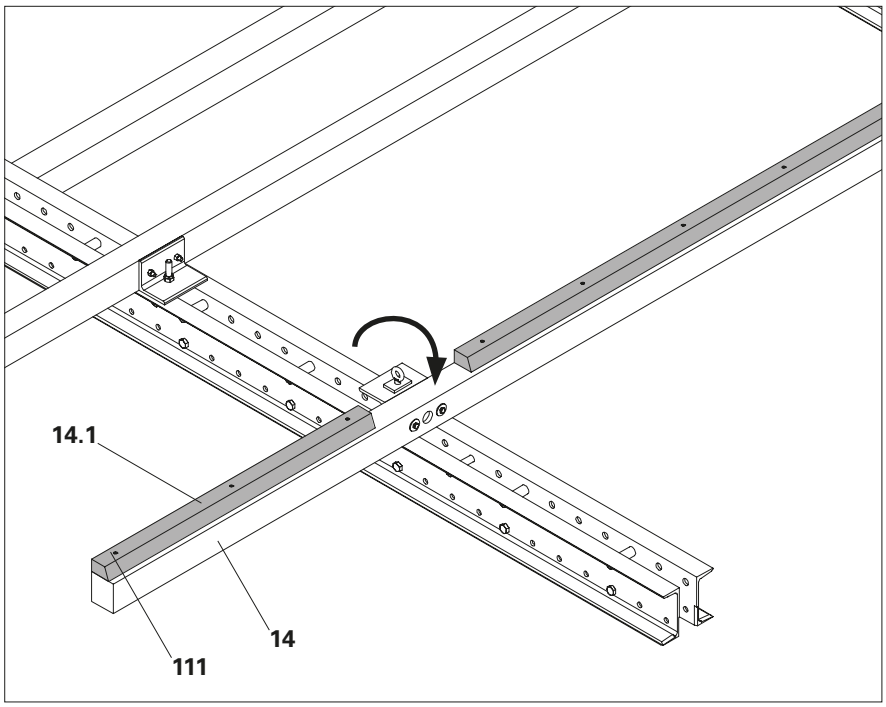


Fig. C3.04

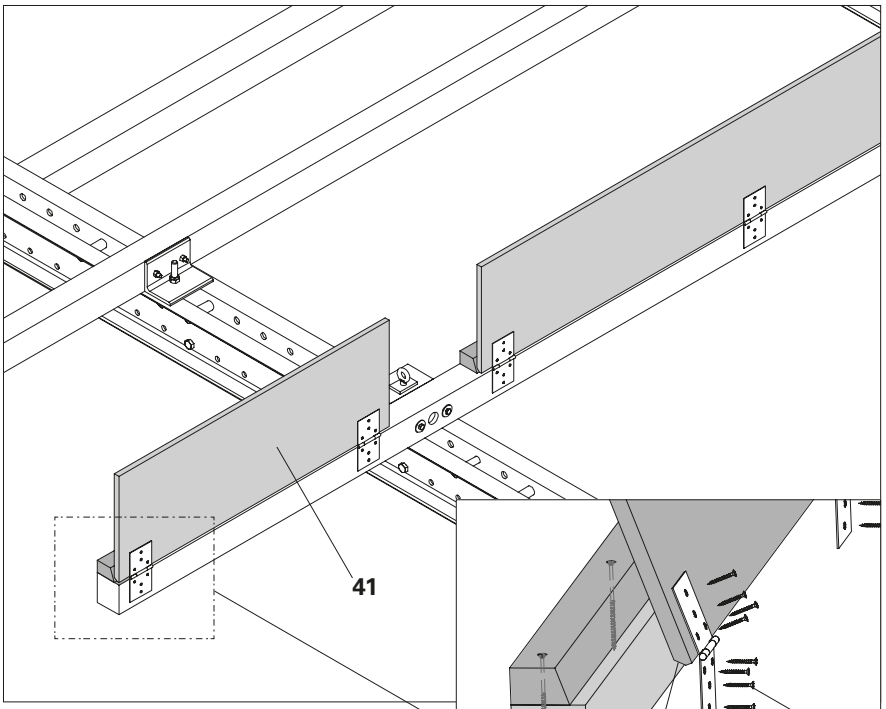


Fig. C3.05

Fig. C3.05a

C3 Fitting the foldable cover

7. Turn the enclosure beam back half a turn and mount on the climbing rails using the eyelets. See Section "C4 Assembling the enclosure" on page 104. (Fig. C3.06)
8. Provide a fixation bar (**136**) for each cover for the opened position. Secure each fixation bar to the enclosure using 4 screws 5 x 20 (**109**). The position is given in the project-specific planning documents.
9. Attach an "**Access to area prohibited**" sign to the top of the foldable cover. (Fig. C3.07)

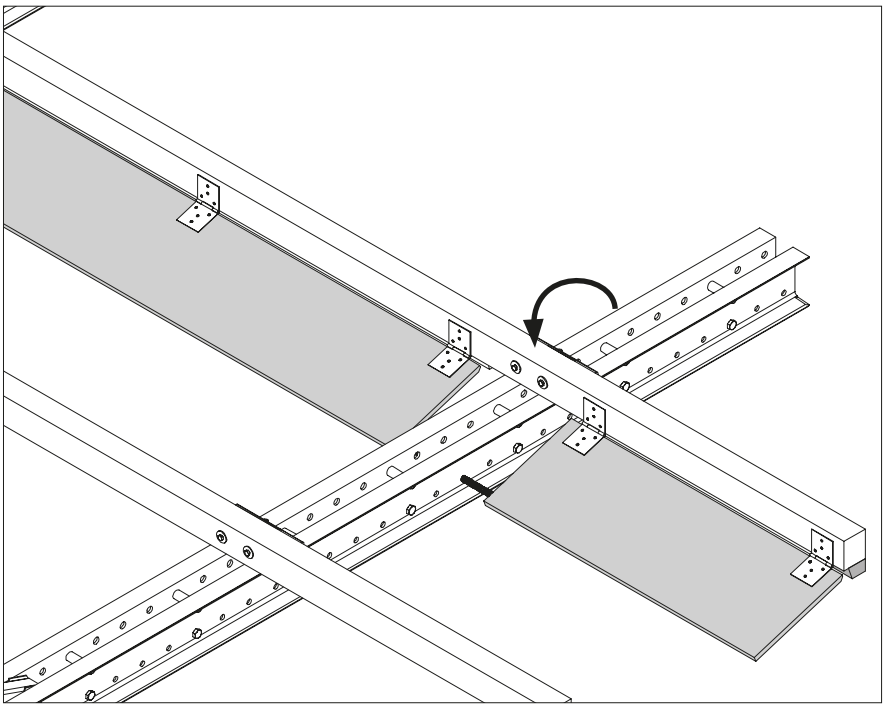


Fig. C3.06



Fig. C3.07

Mounting the squared timber adapter

Enclosure beams (squared timbers) are attached to the climbing rail or enclosure post by means of the squared timber adapter.

Components

1 Climbing Rail RCS
13 Squared Timber Adapter RCS 12/20
13.1 Eyebolt M20
13.2 Nut M20
13.3 Stop plate
14 Enclosure beam (squared timber)
23 Plate connector Ø 48/12 mm
92 Bolt ISO 4014-M20 x 120-8.8
93 Hex. Nut ISO 7042-M20-8
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8

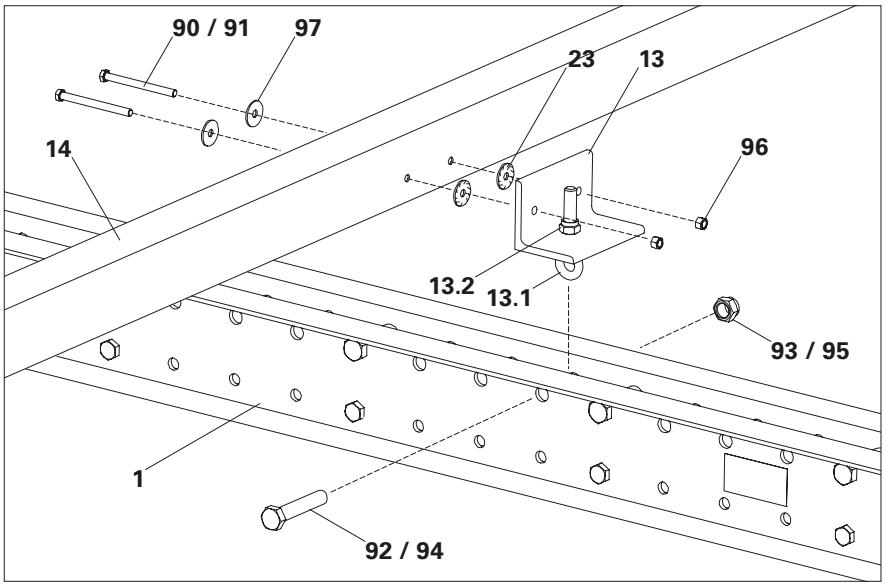


Fig. C4.01

Assembly

1. Adjust the projection of the eyebolt (**13.1**) with the nut (**13.2**) so that the eyelet corresponds to the hole of the climbing rail.
2. Position the squared timber adapter, with the stop plate (**13.3**) laterally turned, between the U-section of the climbing rail. The stop plate ensures the central alignment of the squared timber adapter on the climbing rail.
3. Insert bolts (**92/94**) through the holes in the climbing rail or enclosure post and eyelet (**13.1**). Secure bolts with nuts (**93/95**).
4. Tighten the nut on the eyebolt.

(Fig. C4.01 + C4.02)

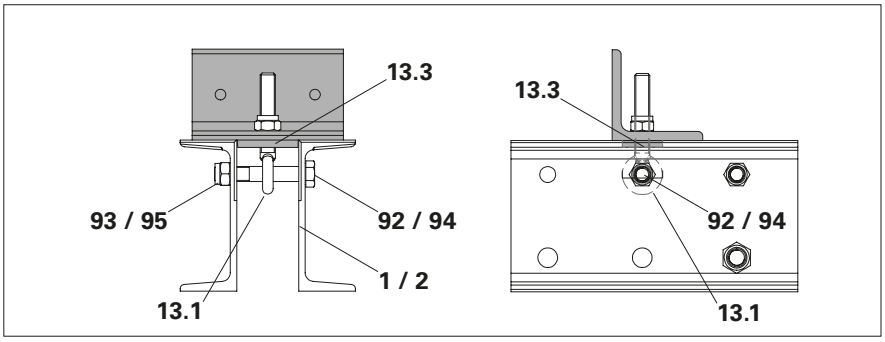


Fig. C4.02

Specified bolt connection			
Rail	Hole	Screw	Nut
Climbing rail	Ø 26 mm	M24 x 130 (**94**)	M24-8 (**95**)
Enclosure post	Ø 20 mm	M20 x 120 (**92**)	M20-8 (**93**)

Tab. C4.01

Mounting the enclosure beam

The enclosure beams (squared timbers) ensure the required axial dimension A of the bracket unit during console bracket assembly. Adhere to the exact dimensions specified in the site-specific assembly drawings!

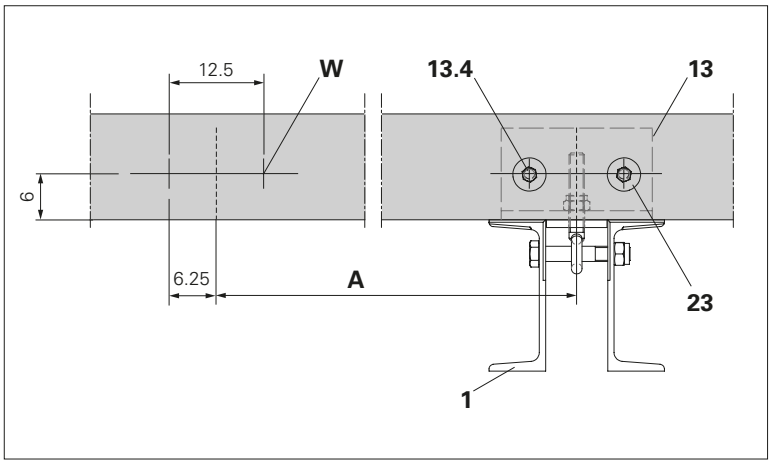


Fig. C4.03

Components

1 Climbing Rail RCS
13 Squared Timber Adapter RCS 12/20
13.4 Hole
14 Enclosure beam (squared timber)
23 Plate connector Ø 48/12 mm
90 Bolt ISO 4017 M12 x 140-8.8
91 Bolt ISO 4017 M12 x 240-8.8
96 Hex. Nut ISO 4032 M12-8
97 Washer ISO 7093 200HV, A12

Assembly

1. Carry over the position of console bracket axes A to the enclosure beam and mark drilled holes B which correspond to Fig. C4.03.
2. Place the squared timber adapter (**13**) in the subsequent mounting position as a drilling jig. Drill squared timber with Ø 12 mm. (Fig. C4.03)
3. If statically required: hammer plate connectors (**23**) congruently into the holes of the enclosure beam, on the side of the squared timber adapter. Secure the plate connectors with wire pins. (Fig. C4.01)
4. Depending on the clamping length (squared timber height), insert bolts M12 x 140 (**90**) or M12 x 240 (**91**) through the holes of the squared timber adapter and enclosure beam. Secure bolt with washer (**97**) and nut (**96**). (Fig. C4.01)

Mounting the Girder VT 20

Use the Adapter VT 20/RCS-P when mounting the Girder VT 20 as an enclosure beam. Adhere to the exact dimensions specified in the site-specific assembly drawings!

Components

1 Climbing Rail RCS
7 Girder VT 20
15 Adapter VT 20/RCS-P
92 Bolt ISO 4014-M20 x 120-8.8
93 Hex. Nut ISO 7042-M20-8
94 Bolt ISO 4014-M24 x 130-8.8
95 Hex. Nut ISO 7042-M24-8
99 TSS-Torx 6 x 60

Assembly

1. Align the climbing rails to the axis dimension.
2. Insert Adapter VT 20/RCS-P (**15**) with the support above into the climbing rail or enclosure post.
2. Insert bolts (**92/94**) through the holes in the climbing rail or enclosure post and adapter (**15**). Secure bolts with nuts (**93/95**). (Fig. C4.04a)
3. Align Girder VT 20 on the adapter (**15**) accordingly and secure with 2 Torx screws 6 x 60 (**99**) per adapter. Use the marked screw holes. (Fig. C4.04b)

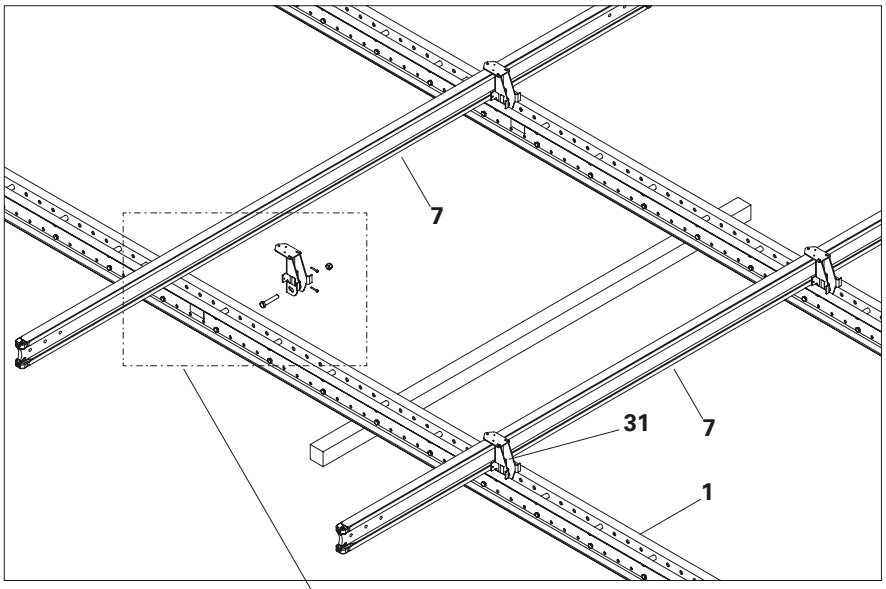


Fig. C4.04

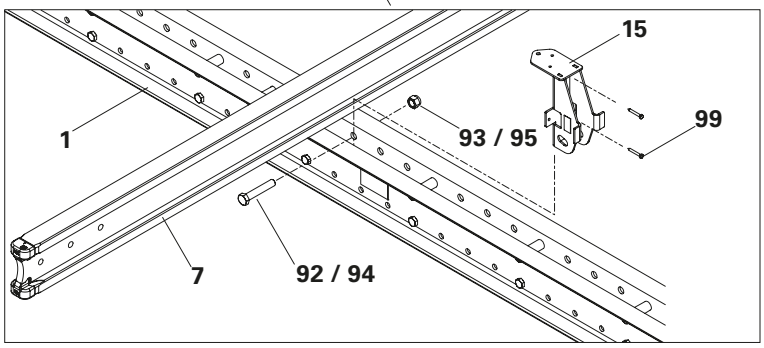


Fig. C4.04a

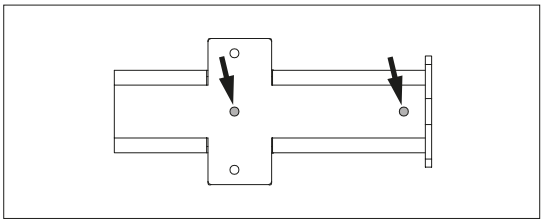


Fig. C4.04b

Specified bolt connection			
Rail	Hole	Screw	Nut
Climbing rail	Ø 26 mm	M24 x 130 (**94**)	M24-8 (**95**)
Enclosure post	Ø 20 mm	M20 x 120 (**92**)	M20-8 (**93**)

Tab. C2.01

Mounting the multi-layer plywood sheeting

The dimensions for cutting the multi-layer plywood sheeting, as well as screw spacing e, are provided in the site-specific assembly drawings.

Components

1 Climbing Rail RCS
14 Enclosure beam (squared timber)
18 Enclosure (multi-layer plywood sheeting)
99 TSS-Torx 6 x 60

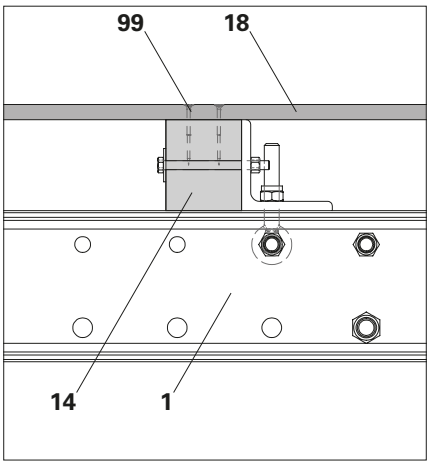


Fig. C4.05

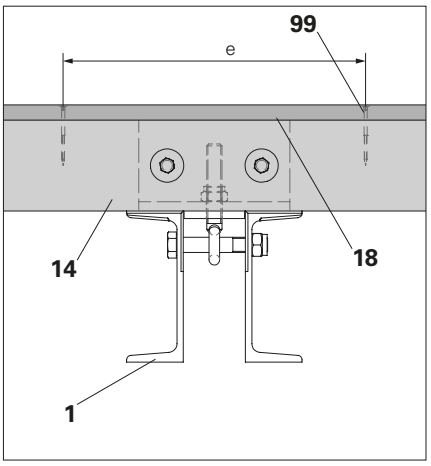


Fig. C4.05a

Assembly

1. Cut the multi-layer plywood sheeting according to the plans, position on the enclosure beams and align.
2. Mark the position of the enclosure beam, e.g. with a chalk line, and mark bolt positions according to site-specific assembly drawings.
3. Push the multi-layer plywood sheeting to one side and pre-drill with Ø 7 mm. Do not pre-drill the enclosure beam.
4. Align the multi-layer plywood sheeting and secure on the enclosure beam using Torx Screws (**99**).

(Fig. C4.05)

Cover for variant 1

In order to provide protection against falling objects, a non-accessible covering made of multi-layer plywood sheeting is to be installed in variant 1.

Components

1 Climbing Rail RCS
14 Enclosure beam (squared timber)
18 Enclosure (multi-layer plywood sheeting)
87 Squared timber 50 x 50
98 TSS-Torx 6 x 80
99 TSS-Torx 6 x 60

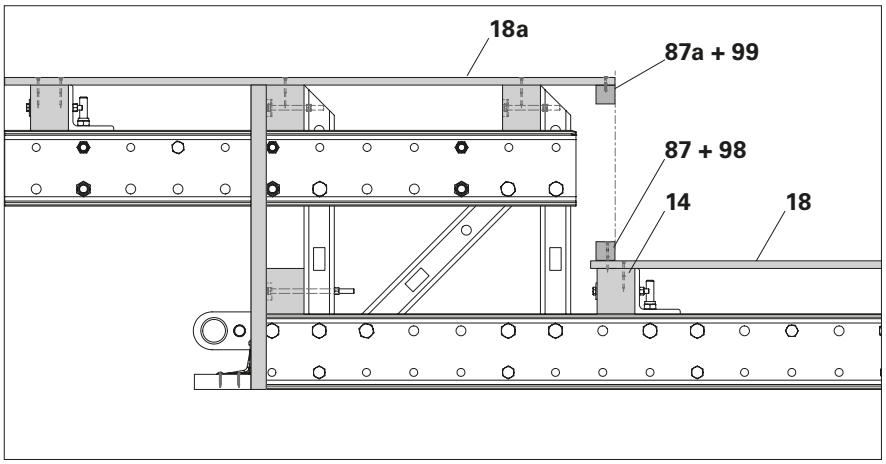


Fig. C4.06

Assembly

1. Mount the enclosure panel (**18**) on the climbing rail so that the top enclosure beam (**14**) is completely covered.
2. Pre-drill squared timber 50 x 50 (**87**) with Ø 7 mm and secure with screws 6 x 80 (**98**) to the enclosure beam.
3. Align the enclosure panel (**18a**) on the enclosure post so it is flush with the squared timber (**87**) on the enclosure beam.
4. Secure squared timber 50 x 50 (**87a**) to pre-drilled enclosure panel (**18a**) with screws 6 x 60 (**99**). (Fig. C4.06)
5. Pre-drill cover sheet (**18b**) and fix to squared timbers (**87 + 87a**) using screws 6 x 60 (**99**).

(Fig. C4.06a)

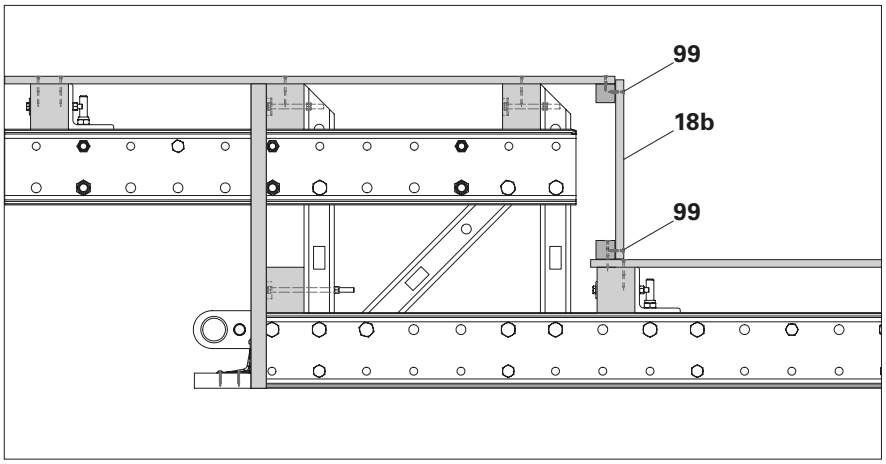


Fig. C4.06a

Mounting the trapezoidal metal sheeting

- To provide protection against falling objects: in the area of the work platforms and hinged covers, cover the cavities between the trapezoidal metal sheeting and the squared timbers.
- The dimensions for cutting the trapezoidal metal sheeting, as well as screw spacing e, are provided in the site-specific assembly drawings.

Components

1 Climbing Rail RCS
14 Enclosure beam (squared timber)
19 Enclosure (trapezoidal metal sheeting)
99 TSS-Torx 6 x 60

Assembly

1. Cut the trapezoidal metal sheeting according to the plans, position on the enclosure beams and align.
2. Mark the position of the enclosure beam, e.g. with a chalk line, and mark bolt positions according to site-specific assembly drawings.
3. Align the trapezoidal metal sheeting and fix to the enclosure beam using connection means recommended by the trapezoidal sheeting manufacturer.
4. Cover the cavities between the squared timber and trapezoidal sheeting, e.g. with Elastomer cover tape.

(Fig. C4.07)

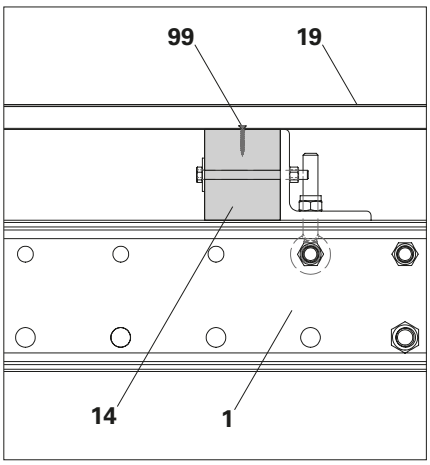


Fig. C4.07

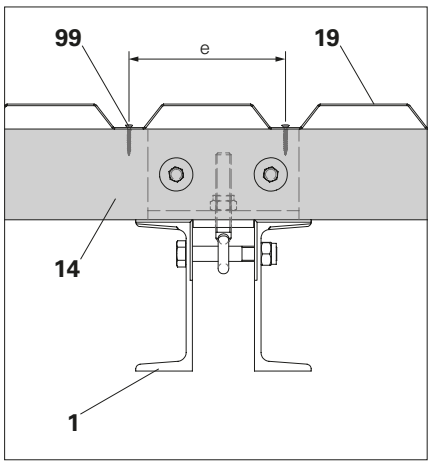


Fig. C4.07a

Mounting the protection edges

Secure the protection edges to the enclosure beams according to the site-specific assembly drawings.
For mounting the protection edges, the enclosure beams are shortened by approx. 20 mm.

Components

14 Enclosure beam (squared timber)
18 Enclosure (multi-layer plywood sheeting)
19 Enclosure (trapezoidal metal sheeting)
20 Protection edge
99 TSS-Torx 6 x 60

Assembly

1. Cut solid wood boards 30 mm thick to match dimension b. Dimension b depends on the thickness of the enclosure beam and the enclosure materials used. Chamfer protection edges on one side above and below approx. 10 mm.
2. Fix the protection edges (**20**) to the front side of the enclosure beam (**14**) with screws 6 x 60 (**99**). Use 2 screws per enclosure beam.

(Fig. C4.08 - C4.08b)

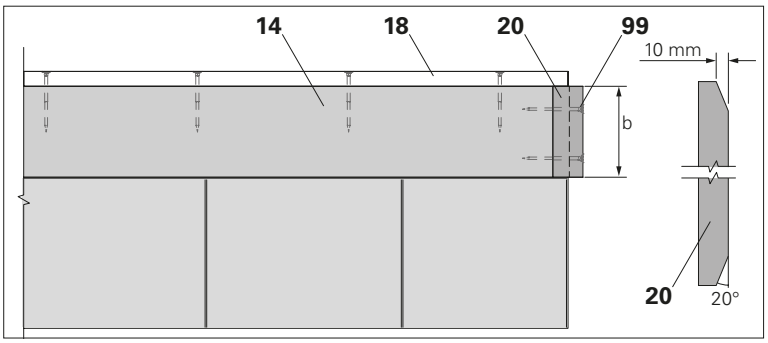


Fig. C4.08

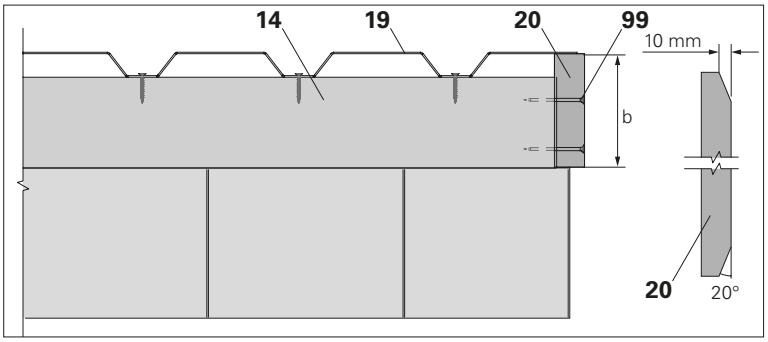


Fig. C4.08a

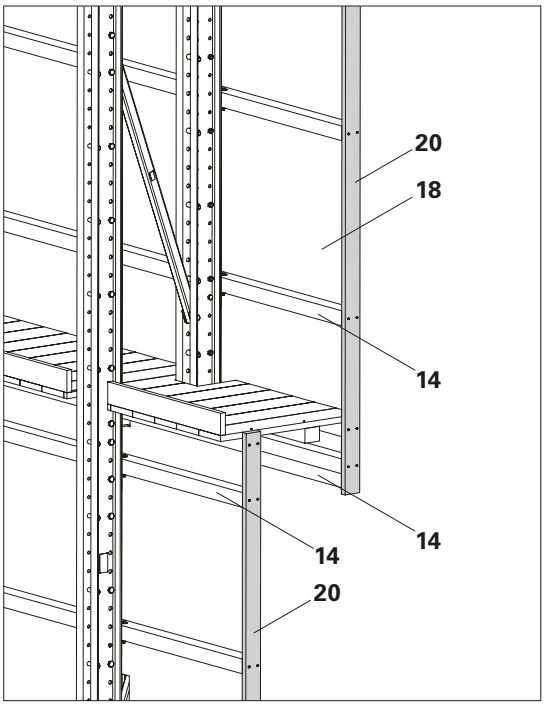


Fig. C4.08b

Scaffolding tubes with nets or tarpaulins

Mesh size for enclosure nets ≤ 20 mm.
Scaffolding tube spacing a = 50 cm.

Components

1	Enclosure post
3	Spacer M20-82
4	Spacer M24-82
80	Steel Scaff. Tube 48.3x3.2 mm lfm ga
80.1	Steel Scaff. Tube 60.3x3.2 mm lfm ga
83.1	Swivel Coupling DK 60/48
88	Safety net
88.1	Cable tie, UV-resistant
137	Scaffold Tube Holder Ø RCS

Mounting scaffolding tube Ø 48 mm

1. Remove cotter pins and bolts from scaffold tube holder (**137**).
2. Insert scaffold tube holder with retaining lug (**137.1**) into the drilled hole of the enclosure post (**1**).
3. Insert bolts (**137.2**) through the holes in the enclosure post and scaffold tube holder and secure with cotter pins (**137.3**).
4. Mount scaffolding tube Ø 48 mm (**80**) in the tube coupling. Tighten coupling nut with 50 Nm.

(Fig. C4.09)

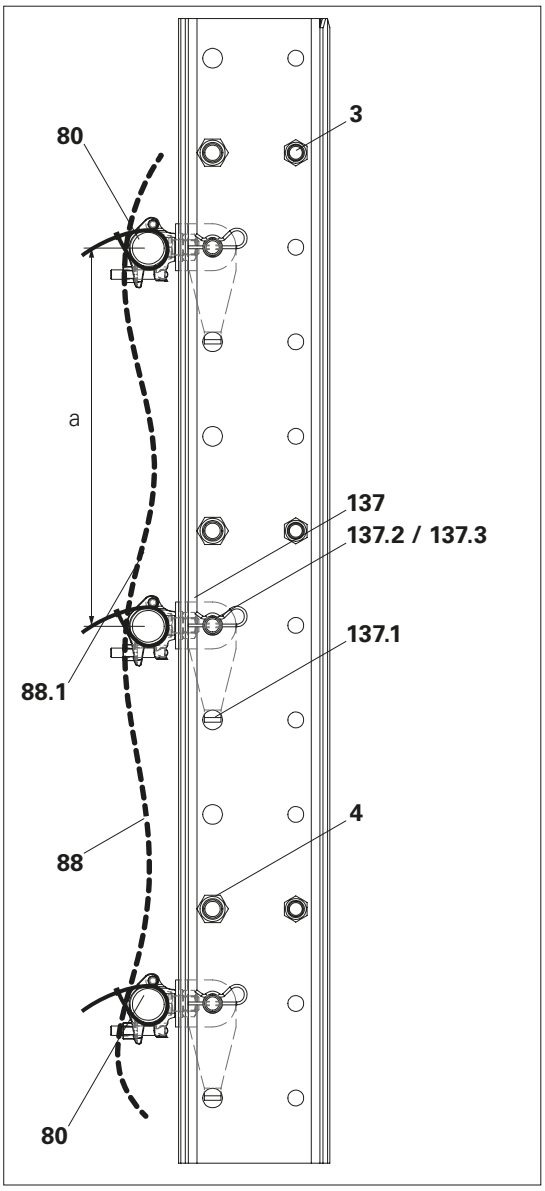


Fig. C4.09

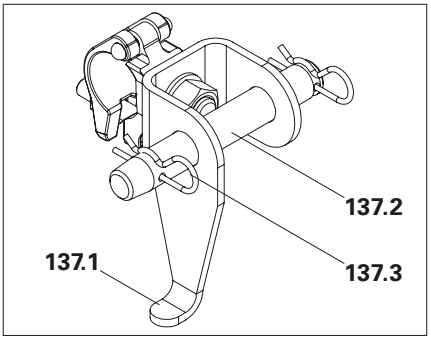


Fig. C4.09a

Mounting scaffolding tube Ø 60 mm

1. Install scaffolding tube sections Ø 48 mm, (**80.1**) L = 80 mm with spacers M20 (**3**) or M24 (**4**) into the enclosure post (**1**).
2. Fit scaffolding tube Ø 60 mm to scaffolding tube sections with swivel coupling 60/48. Tighten coupling nut with 50 Nm.

(Fig. C4.09b)

Fitting safety nets

1. Attach the safety net according to the manufacturer information.
2. Guide the lower edge of the safety nets towards the building.
3. Ensure that there is a sufficient overlap with other parts of the enclosure.

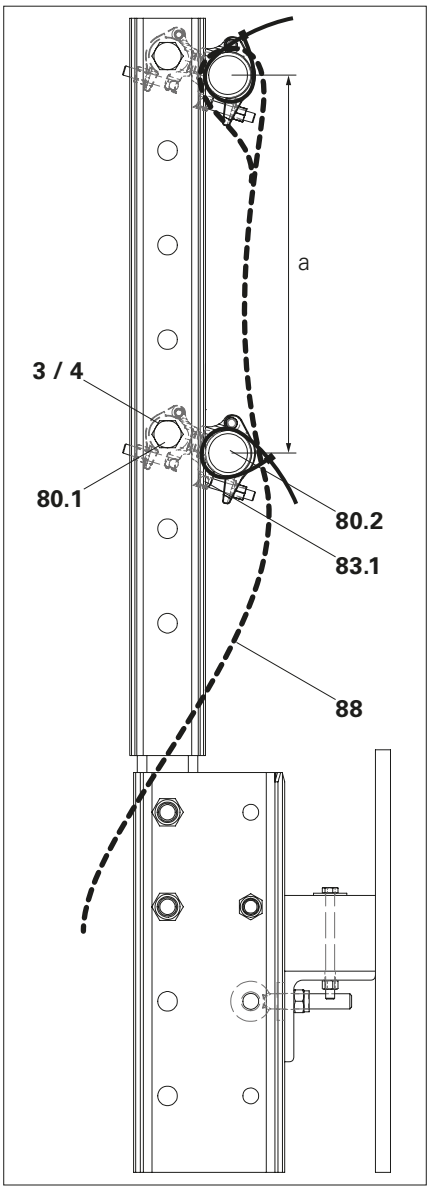


Fig. C4.09b

Fitting the leading tie

With the Slab Tie Gauge RCS 61 (**54**), the leading tie (**47**) is fixed in position during concreting.
Variable length L = 61 to 102 cm.

Components

1	Enclosure post
47	Anchoring
53	Bolt ISO 4014 M24 x 70-10.9
54	Slab Tie Gauge 61 RCS

Assembly

1. Loosen the screw connections of the clamping plates (**54.4**).
2. Insert the slab tie gauge into the enclosure post.
3. Turn the clamping plates behind the profile of the enclosure post (**1**) and slightly tighten the bolted connection.

Adjusting the length

1. Loosen wing screws (**54.1**).
2. Move telescopic piece (**54.2**) until the support plate (**54.3**) sits flush on the stop end formwork.
3. Place support plate on stop end formwork and fix using nails.

Adjusting the height

1. Slightly loosen the bolted connections of the clamping plates (**54.4**).
2. Push the slab tie gauge on the enclosure post until it is in a horizontal position.
3. Tighten the bolted connection.

(Fig. D1.01 + D1.02)

The stop on the support plate creates an impression in the concrete which is suitable for the slab shoe.

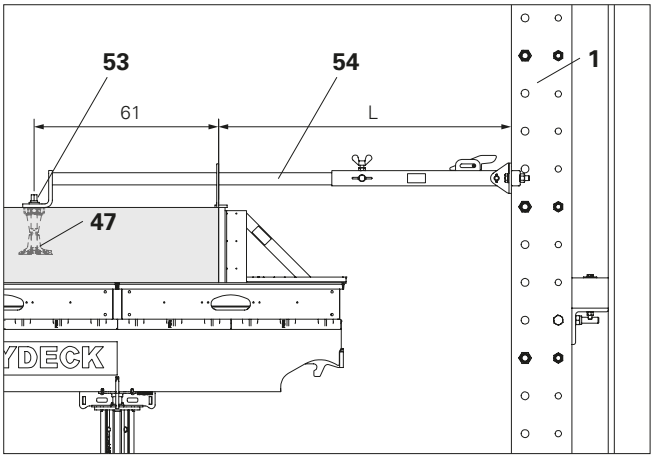


Fig. D1.01

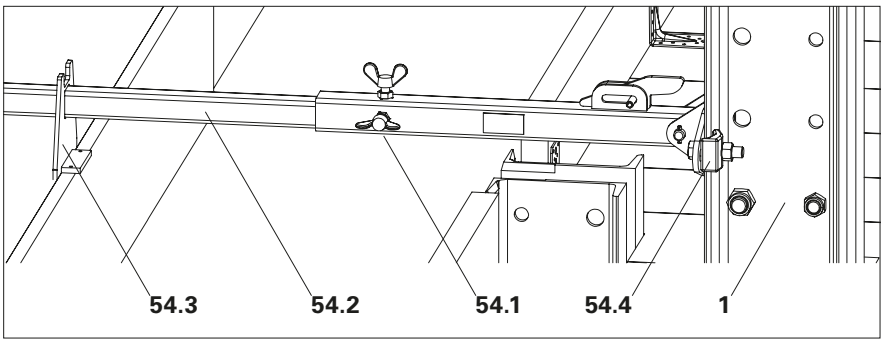


Fig. D1.02

Pivoting downwards

1. Mount the leading tie (**47**) on the slab tie gauge (**54**) using bolts M24 x 70 (**53**).
2. Press the slab tie gauge lightly against the enclosure post, hold in place and push the locking bar (**54.5**) upwards.
3. Swivel the slab tie gauge downwards.
4. Fix the support plate (**54.3**) to the stop end formwork using nails.

(Fig. D1.03 + D1.03a)

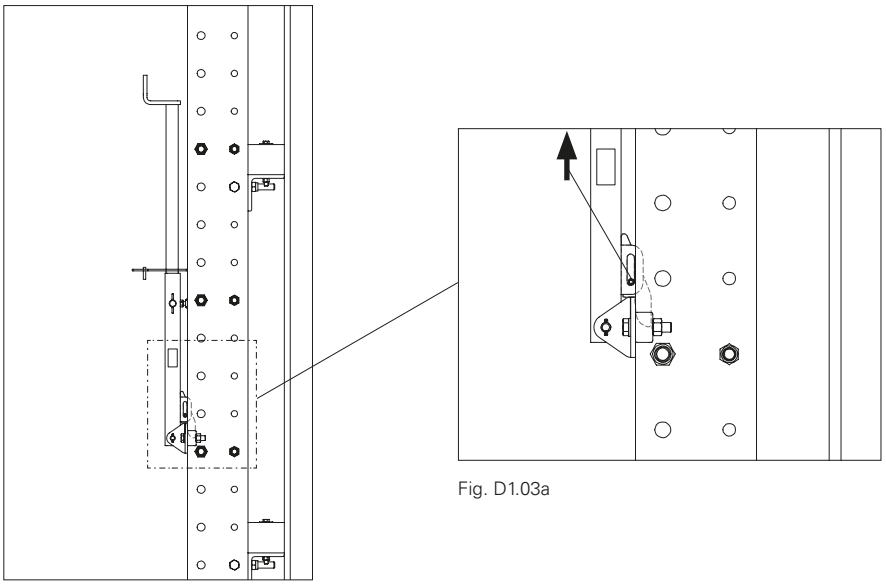


Fig. D1.03a

Fig. D1.03

Pivoting upwards

Swivel the slab tie gauge upwards only after the concrete has sufficiently hardened.

1. Remove bolts M 24 x 70 (**53**) from the leading tie.
2. Pull out nails that have been used to fix the support plate (**54.3**) to the stop end formwork.
3. Hold the locking bar (**54.5**) up and pivot the slab tie gauge vertically upwards. Drop the locking bar behind the mounting plate. The locking bar (**54.5**) fixes the slab tie gauge in a vertical position.

(Fig. D1.03 + D1.03b)

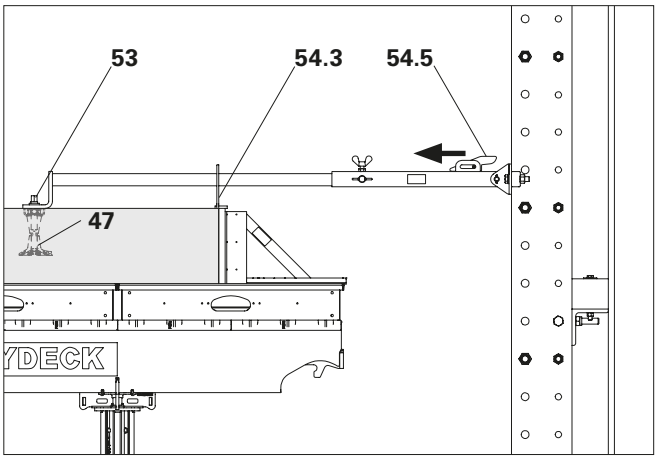


Fig. D1.03b

Fixing the slab tie in the reinforcement

In order to prevent the climbing tie from moving, PERI recommends fixing the tie to the top reinforcement of the slab.

Components

47.2	Threaded Anchor Plate DW 20
47.5	Climbing Cone-2 M24/DW 15
54	Slab Tie Gauge 61 RCS
150	Reinforcement

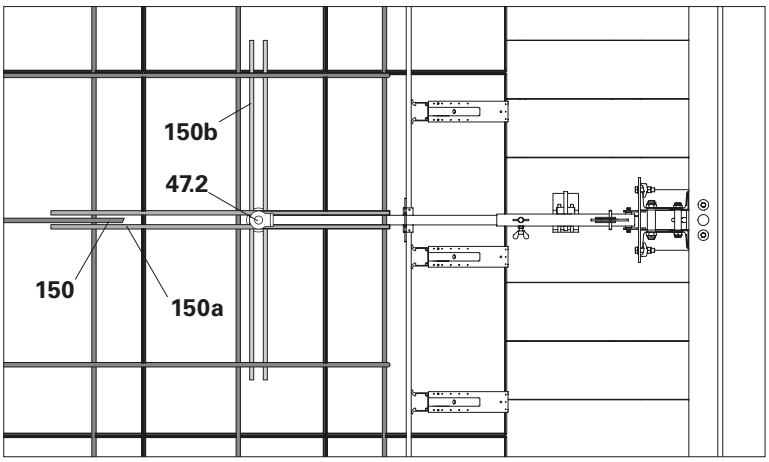


Fig. D1.04

Assembly

1. Create an opening in the reinforcement for the threaded anchor plate (**47.2**). If necessary, move colliding reinforcement bars. For mesh reinforcement, cut rod and replace it with reinforcement bars of the same diameter.
2. Insert two pairs of reinforcement bars crosswise in the top (**150a**) and bottom (**150b**) positions of the top reinforcement.
3. Fold down the slab tie gauge (**54**) and install the climbing cone (**47.5**). Align slab tie gauge and secure.
4. Push the 4 reinforcement bars (**150a + 150b**) all the way up to the climbing cone (**47.5**) so that they touch it on each side. Wire reinforcement bars to the slab reinforcement.

(Fig. D1.04)

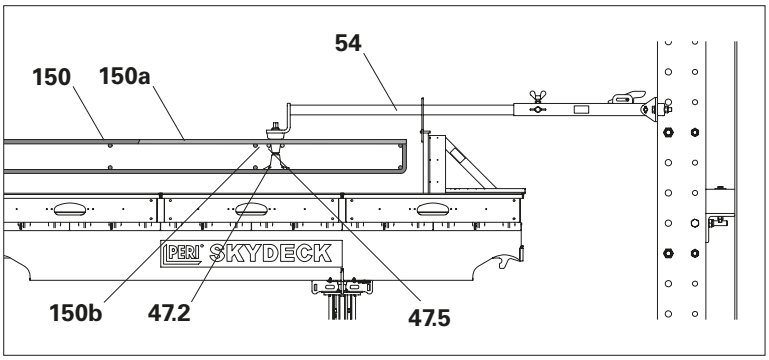


Fig. D1.04a

Fitting the stop end slab tie

Anchoring M30
Stop End Slab Tie M30/25-160
with red advancing cap

Anchoring M24
Stop End Slab Tie M24/20-128
with grey advancing cap

Components

51 Stop End Slab Tie M30/25-160
52 Stop End Slab Tie M24/20-128

Assembly

1. Nail the advancing cap (**51.1**) to the stop end formwork. ❶
2. Twist stop end slab tie (**51**) onto the thread of the cap. ❷
3. Wire the stop end slab tie to the slab reinforcement. ❸

→ The stop end slab tie is ready.

Deshuttering

Caution
You can get caught on the protruding nails of the advancing cap!
Risk of injury.
⇒ Bend over nails immediately after striking.

4. Bend over protruding nails immediately after striking. ❹
5. Loosen the advancing cap (**51.1**) by turning it counter-clockwise and remove. ❺

→ The anchoring point is now ready. ❻

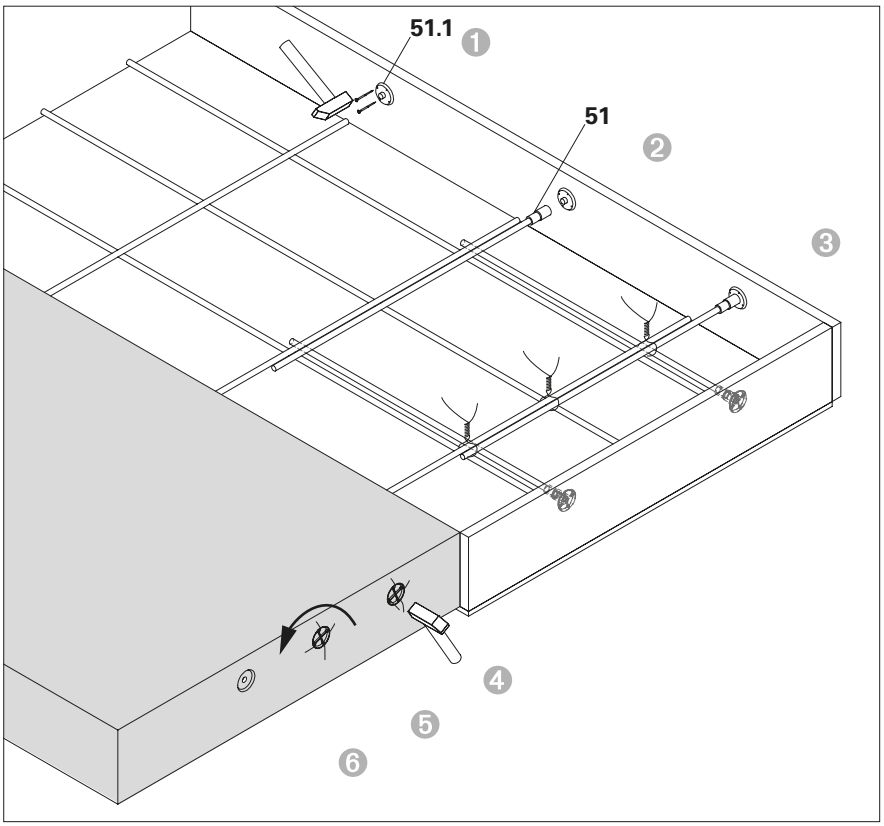


Fig. D1.05

Fitting the suspension

Warning

If not correctly assembled, the slab shoe and climbing shoe can tip over the slab edge, fall to the ground and hit people below!
This can lead to serious injuries or even death.

⇒ Cordon off danger zones beneath the working areas.
⇒ Secure components with a rope to prevent them from falling.

Assembly of the slab shoe is usually carried out with protection provided by the climbing enclosure. If this is not possible in exceptional cases or the gap to the enclosure is too large, use personal protective equipment to prevent falls.

Fitting the Slab Shoe RCS

Components

38 Rope
44 Climbing Shoe RCS
45 Slab Shoe RCS
53 Bolt ISO 4014 M24 x 70-10.9
87 Squared timber
151 Anchor Bolt SW24 Ø14/20x130 mm
152 Visual Aid Climbing Shoe RCS

Do not carry out this work step on assembly areas where there is a risk of falling.

Preparation

1. Place the slab shoe (**45**) on the slab and support it with squared timber (**87**).
2. Pull out locking pin (**45.1**).
3. Bolt the Climbing Shoe RCS (**44**) to the front side of the slab shoe (**45**) using the locking pin (**45.1**) and secure with a cotter pin.

(Fig. D1.06)

4. Tie a rope (**38**) to the bolt (**44.6**).
5. If necessary, fit Visual Aid Climbing Shoe RCS (**152**).

(Fig. D1.07)

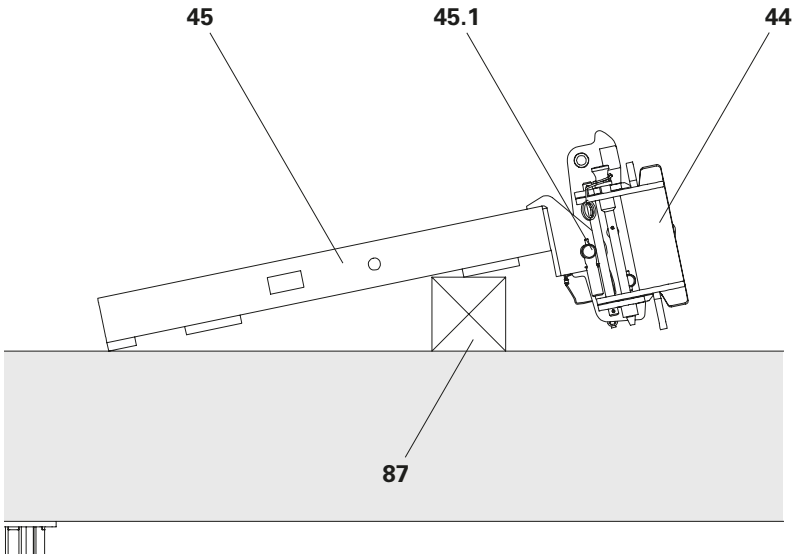


Fig. D1.06

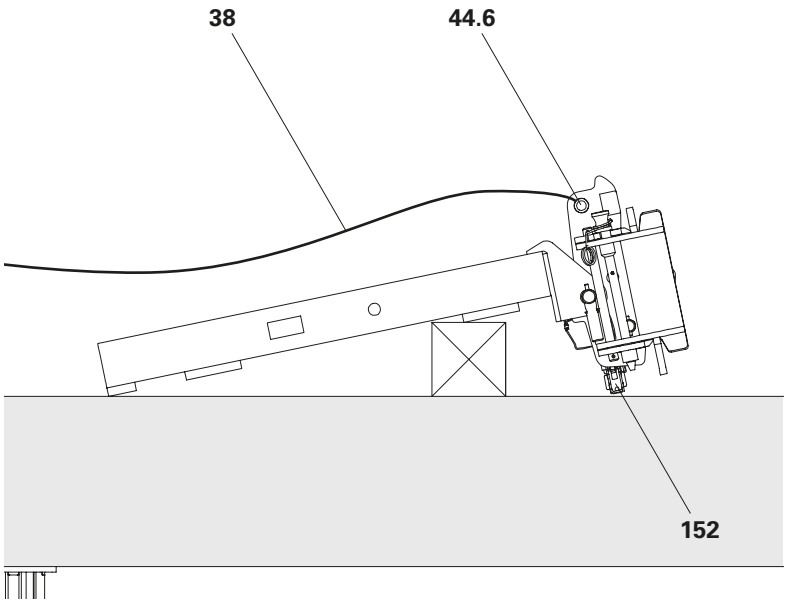


Fig. D1.07

- For information on operating the climbing shoe, see Section "A3 Operating the climbing shoe" on page 33.
- PERI recommends calling in a second person to secure the assembly when installing the slab shoe and climbing shoe.

Assembly

1. Place the slab shoe (**45**) at the installation position on the slab and secure it with the rope (**38**).

(Fig. D1.08)

2. Screw the bolt (**53**) to the anchoring (**47**).
   Do not tighten the bolt (**53**).
2. Position the Climbing Shoe RCS (**44**) in such a way that the climbing shoe is aligned with the climbing shoes from the previous concreting sections.
3. Mark the hole for the tie bolt (**151**) and drill a Ø 14 mm hole.
4. Tighten the slab shoe (**45**) with the tie bolt (**151**).
5. Tighten the bolt (**53**).
6. Deactivate the climbing shoe (**44**) and open the guiding skids (**44.2**).

(Fig. D1.09)

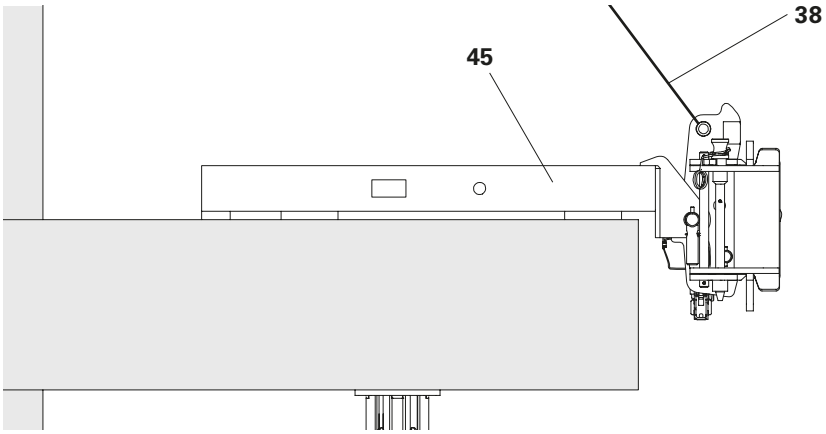


Fig. D1.08

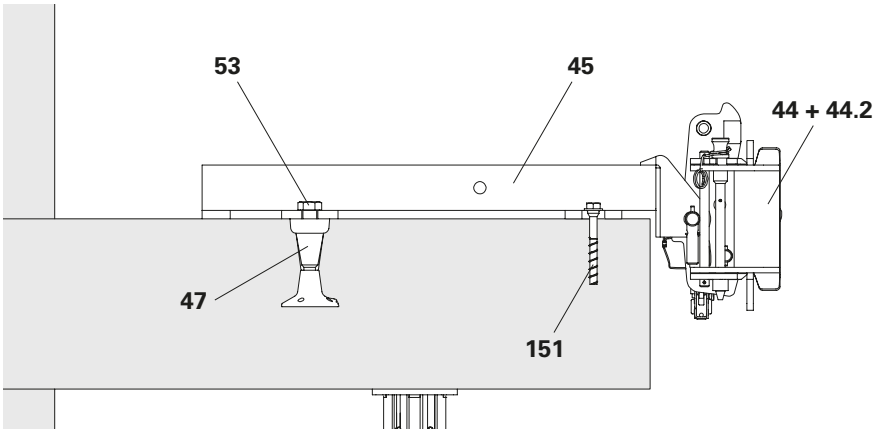


Fig. D1.09

Have all fixings been correctly tightened?

- Tightening torque of slab shoe M24 = 60 Nm.
- Are all locking pins on the guiding skids fully inserted and secured?
- Are all locking pins of the slab shoes/ stop end slab shoes secured with cotter pins?

Assembling the Stop End Slab Shoe RCS

- For information on operating the climbing shoe, see Section "A3 Operating the climbing shoe" on page 33.
- PERI recommends calling in a second person to secure the components when installing the stop end slab shoe and climbing shoe.

Components

38 Rope
48 Stop End Slab Shoe RCS
49 Bolt ISO 4017 M30 x 70-8.8
50 Reducing bushing Ø 30 - 25
51 Stop End Slab Tie M30/25-160
53 Bolt ISO 4014 M24 x 70-10.9

Assembly

1. Secure the Stop End Slab Shoe RCS (**48**) with the rope (**38**) to prevent it from falling.
2. Screw the Stop End Slab Shoe RCS (**48**) onto the Stop End Slab Tie (**51/52**) using bolt M30 x 70 (**49**) or bolt M24 (**53**) with the reducing bushing (**50**).

(Fig. D1.10)

3. Tie a rope (**38**) to the bolt (**44.6**).
4. If necessary, fit Visual Aid Climbing Shoe RCS (**152**).
5. Pull out locking pin (**48.1**).
6. Bolt the Climbing Shoe RCS (**44**) to the front of the Slab Shoe RCS (**48**) using the locking pin (**48.1**) and secure with a cotter pin.
7. Deactivate the climbing shoe (**44**) and open the guiding skids (**44.2**).

(Fig. D1.11)

Have all fixings been correctly tightened?

- Tightening torque of stop end slab shoe M24 = 100 Nm.
- Tightening torque of stop end slab shoe M30 = 100 Nm.

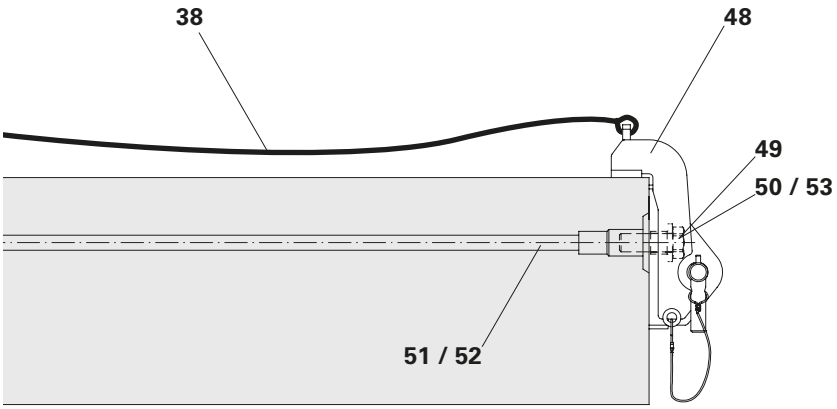


Fig. D1.10

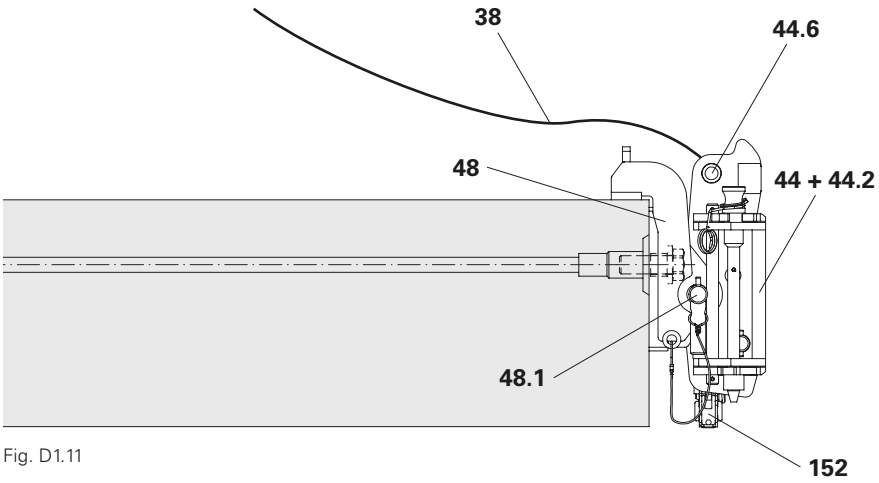


Fig. D1.11

Bracing corner elements

Install temporary bracing in the case of expected wind speeds of more than 100 km/h.

Components

2	Climbing Rail RCS
24	Fitting Pin Ø21x120 mm
26	Cotter Pin 4/1 ga
47.6	Tie Rod DW 15, special length
117	Heavy-duty dowel Ø 22
118	Heavy-duty dowel Ø 30
119	Hex-Nut DW15 SW30 50 mm ga
122	Bracing Shoe RCS DW 15
123	Eye Nut RCS DW 15
125	Articulated Spanner RCS DW 15

Assembly:

1. Screw the tie rod (**47.6**) into the eye nut (**123**). (Fig. D1.12a)
2. Connect the tie rod to the articulated spanner (**125**) by means of Nut DW 15 (**119**).
3. Fit the eye nut (**123**) into the Climbing Rail RCS (**2**) using the fitting pin Ø 21 x 120 (**24**) and cotter pin (**26**) whilst standing on the platform.
4. Bolt the articulated spanner (**125**) to the Bracing Shoe RCS DW15 (**122**). (Fig. D1.12b)

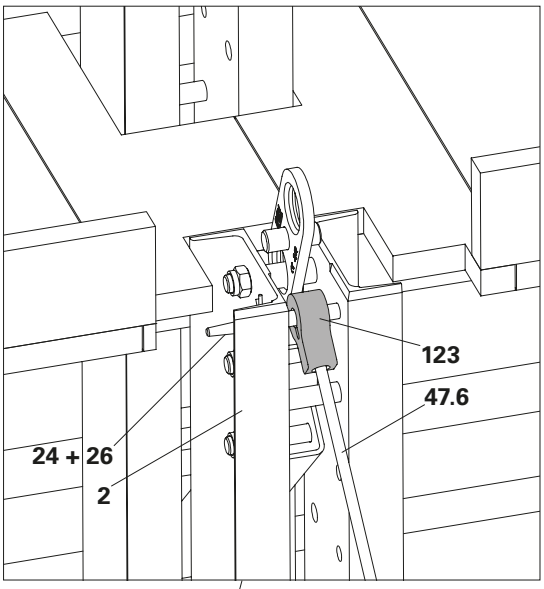


Fig. D1.12a

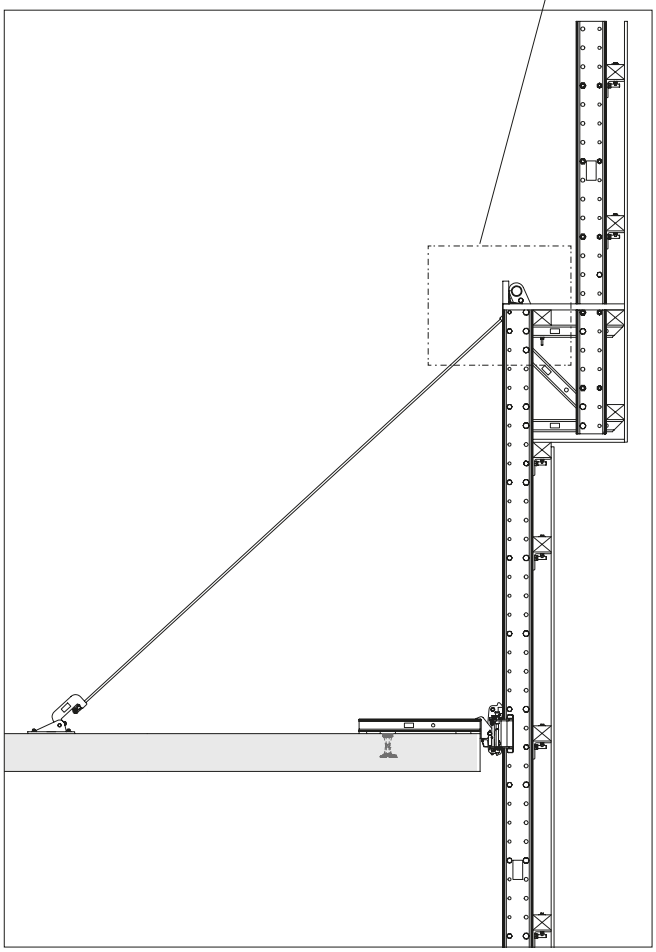


Fig. D1.12

5. Position the bracing shoe on the slab and drill the holes for the heavy-duty dowels in accordance with the plan.
6. Brush and blow out holes according to installation instructions of the dowel manufacturer.
7. Attach the bracing shoe (**122**) with heavy-duty dowels (**117**) (**4 x Ø 22**) or (**118**) (**2 x Ø 30**) (Fig. D1.12b – Fig. D1.12e)
8. Turn the nut (**119**) in a clockwise direction in order to pre-tension the bracing.

Storage
Assembled or packaged on the platforms outside of the walkways. Secure bracing to prevent it falling to the ground.

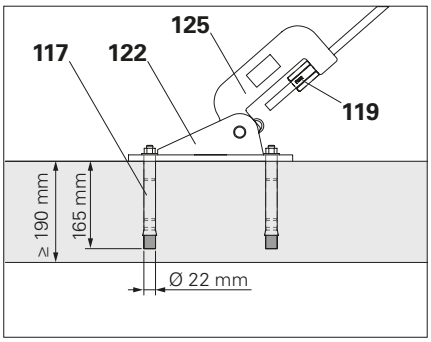


Fig. D1.12b

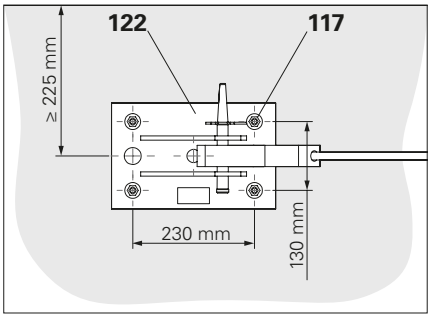


Fig. D1.12c

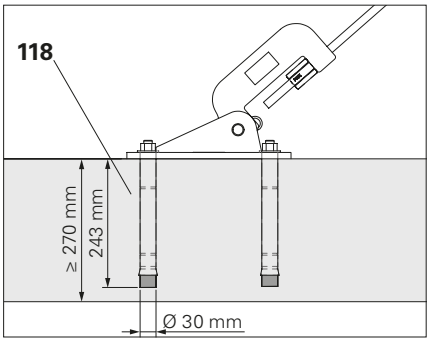


Fig. D1.12d

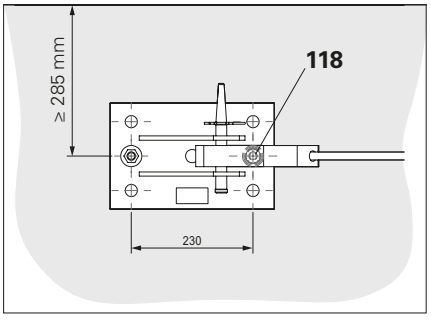


Fig. D1.12e

Horizontal bracing

The horizontal bracing provides necessary anchoring to the building and serves to transfer the acting wind loads during working and storm conditions.
During the climbing procedure, the horizontal bracing is to be swivelled up and fixed in position in order to prevent a collision with the building or formwork.

Components

1 Enclosure post
24 Fitting Pin Ø21x120 mm
25 Fitting Pin Ø26x120 mm
26 Cotter Pin 4/1 ga
27 Cotter Pin 5/1 ga
47 Anchoring
48 Stop End Slab Shoe RCS
53 Bolt ISO 4014 M24 x 70-10.9
120 Heavy Duty Spindle SLS 100-180
121 Spindle Shoe SLS/RCS M24
124 Forkhead Adapter RCS/SLS

Assembly on the enclosure post:
1. Connect the Spindle Shoe SLS/RCS (**121a**) to the enclosure post (**1**) using one fitting pin Ø 26 mm (**25**) and one fitting pin Ø 21 mm (**24**). Secure both fitting pins with cotter pins (**26 + 27**).
   Angle of inclination α = 10 ± 5°)
2. Connect Heavy Duty Spindle SLS 100-180 (**120**) to the spindle shoe (**121a**) using fitting pin Ø 21 mm (**24**) and cotter pin (**26**).
3. Attach a second spindle shoe (**121b**) to the heavy-duty spindle (**120**) using fitting pin Ø21 and cotter pin (**26**).

(Fig. D1.13)

Are all bolts secured with cotter pins?

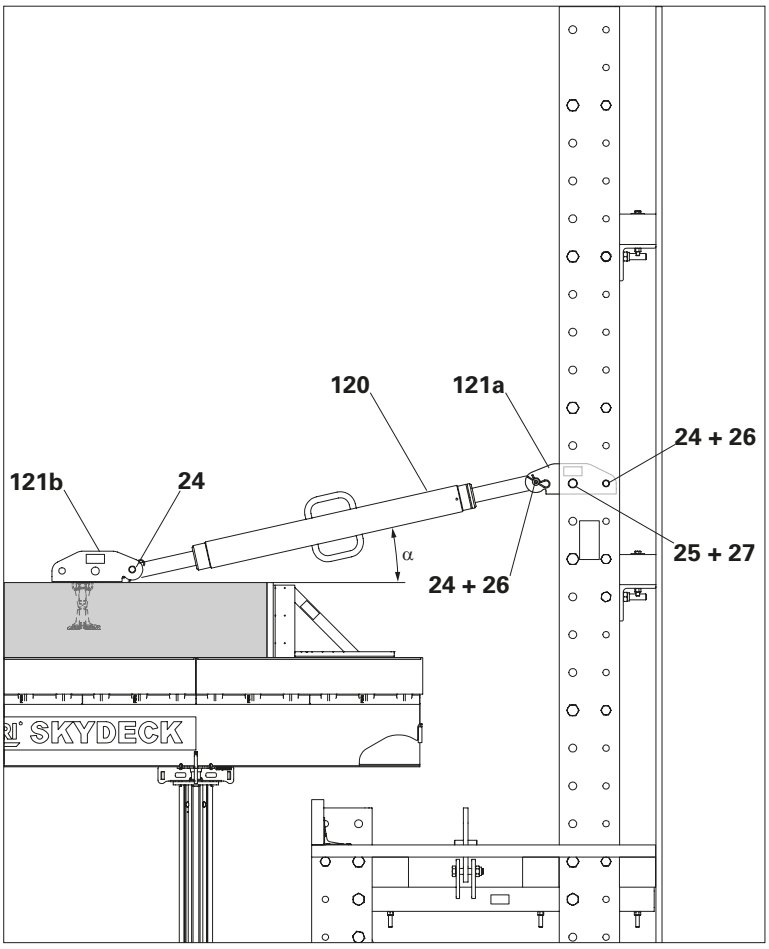


Fig. D1.13

Anchoring position A:
Heavy-duty spindle in climbing position:
1. Remove fitting pin Ø 21 mm (**24**) in the spindle shoe (**121b**) and store in hole of the climbing rail.
2. Swivel down the heavy-duty spindle (**120**) with spindle shoe.

Assembly on the anchoring:
3. Adjust the heavy-duty spindle so that the position of the hole in the spindle shoe corresponds to the anchoring (**47**).
4. Connect the spindle shoe (**121b**) to the anchoring using bolt M24 x 70 (**53**).

Are all bolts secured with cotter pins?

Climbing position B:
Heavy-duty spindle in the anchoring position:
1. Remove bolts M24 x 70 (**53**) from the anchoring (**47**).
2. Swivel up the heavy-duty spindle (**120**) with the spindle shoe.
3. Fix the spindle shoe (**121b**) in the hole Ø 26 of the enclosure post (**1**) using fitting pins Ø 21.

(Fig. D1.14)

Are all bolts secured with cotter pins?

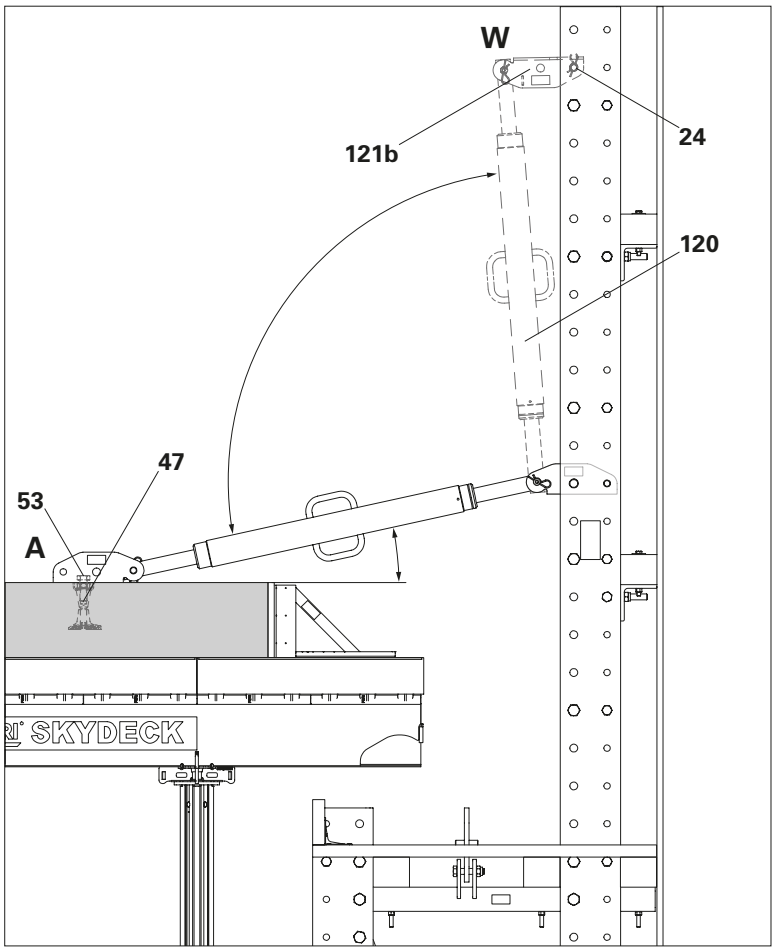


Fig. D1.14

Assembly on the stop end slab shoe

1. Mount the forkhead adapter (**124**) on the building side of the heavy-duty spindle (**120**) using the bolt and nut provided. (Fig. D1.15)
2. Connect the Spindle Shoe SLS/RCS (**121a**) to the enclosure post (**1**) using one fitting pin Ø 26 mm (**25**) and one fitting pin Ø 21 mm (**24**). Secure both fitting pins with cotter pins (**26 + 27**).
3. Connect the heavy-duty spindle (**120**) to the spindle shoe (**121a**) using the fitting pin Ø 21 mm (**24**) and cotter pin (**26**).

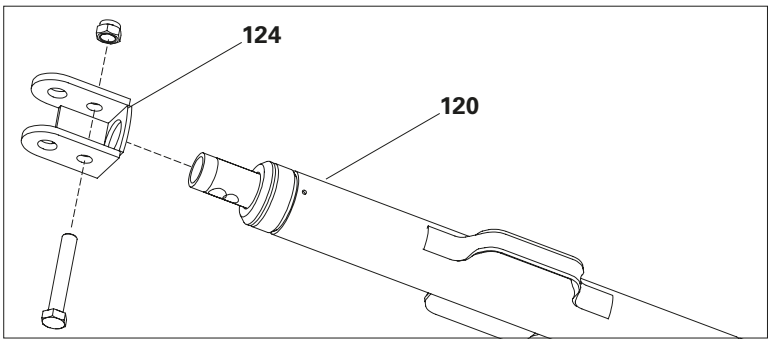


Fig. D1.15

Anchoring position A:

4. Connect the heavy-duty spindle with attached forkhead adapter (**124**) to the Stop End Slab Shoe RCS (**48**) using bolts Ø 25 (**48.1**).

Climbing position B:

3. Fix heavy-duty spindle to the enclosure post using binding wire.

(Fig. D1.15a)

Are all bolts secured with cotter pins?

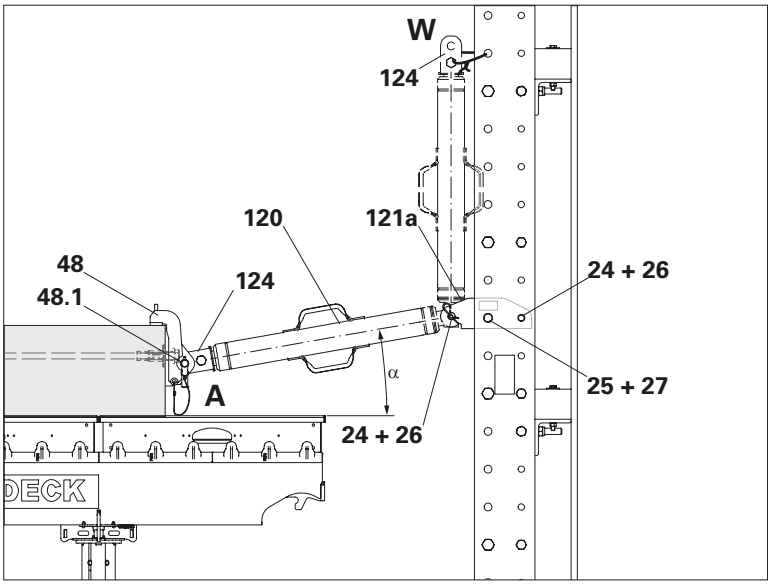


Fig. D1.15a

Dismantling the suspension

Warning

- There is a risk of falling from unsecured slab edges!
  A fall can result in serious injury or even death.
  ⇒ Guardrails must be installed prior to climbing.
  ⇒ Use personal protective equipment to prevent falling from a height.
- If not correctly disassembled, the slab shoe and climbing shoe can tip over the slab edge, fall to the ground and hit people below!
  This can lead to serious injuries or even death.
  ⇒ Cordon off danger zones beneath the working areas.
  ⇒ First loosen the anchoring (**47**) slightly and turn the slab shoe to a secure position.

If possible, install guardrails on the slab edge before dismantling the slab shoe. Complete the toe board after dismantling the slab shoe.

Components

44 Climbing Shoe RCS
44.1 Climbing pawl
45 Slab Shoe RCS
45.1 Locking pin
53 Bolt ISO 4014 M24 x 70-10.9

Dismantling

1. Secure the Climbing Shoe RCS (**44**) to the bolt (**44.6**) with a rope (**38**) to prevent it from falling.
2. Unscrew the bolt (**53**) and tie bolt (**151**).

(Fig. D1.16)

3. Pull the climbing shoe (**44**) and slab shoe (**45**) onto the concrete slab using the rope.
4. Set the climbing shoe (**44**) and slab shoe (**45**) down at an assembly point that is not at risk of falling, and support them with squared timber.

(Fig. D1.17)

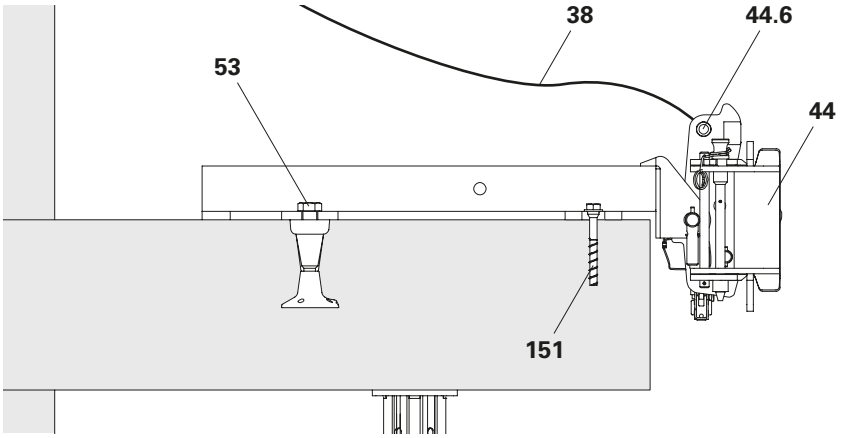


Fig. D1.16

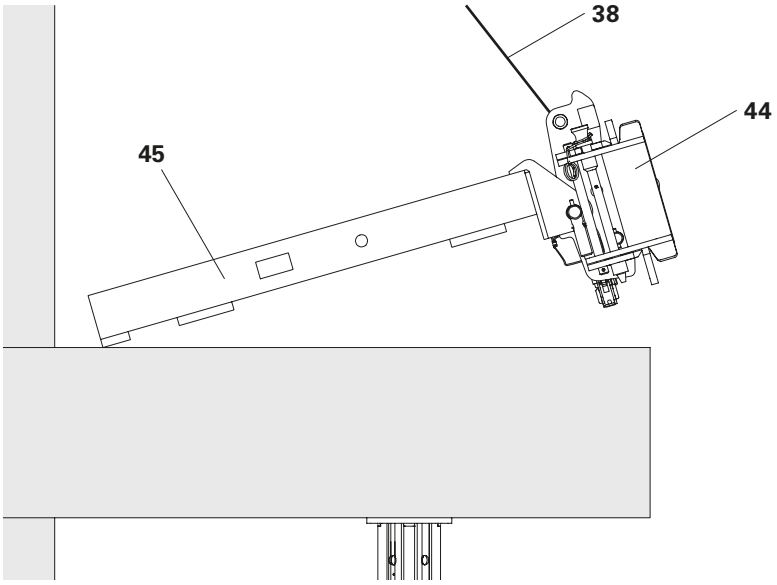


Fig. D1.17

Removing the anchoring

Warning

There is a risk of falling from unsecured slab edges!
A fall can result in serious injury or even death.
⇒ Guardrails must be installed prior to climbing.
⇒ Use personal protective equipment to prevent falling from a height.

- Work to be carried out with site personnel protected by guardrails that follow the climbing protection panel.
- For fixing the concrete cones, observe the separate Instructions for Use!

Components

47.1	Screw-On Cone-2 M24/DW 20
47.7	Threaded Anchor Plate DW 15 Ø 80 mm
153	KK Concrete Cone M24

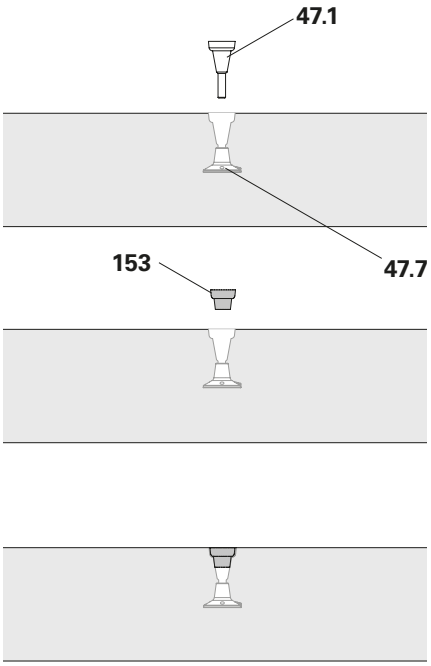


Fig. D1.18a

Anchoring M24 Variant 1
Screw-On Cone M24/DW 20 (**47.1**) partially re-usable.

Dismantling
1. Release the screw-on cone with socket wrench AF 36 and remove.
2. Close the remaining hole with a suitable KK Concrete Cone (**153**) and matching adhesive.

(Fig. D1.18a)

For further information, see the "Concrete cones and adhesive" Instructions for Assembly and Use.

Anchoring M24 Variant 2
Climbing Cone-2 M24/DW 15 (**47.5**) partially re-usable.

Components

47.5	Climbing Cone-2 M24/DW 15
47.7	Threaded Anchor Plate DW 15 Ø 80 mm
153	KK Concrete Cone M24

Dismantling
1. Release the climbing cone with socket wrench AF 36 and remove.
2. Close the remaining hole with a suitable KK Concrete Cone (**153**) and matching adhesive.

(Fig. D1.18b)

For further information, see the "Concrete cones and adhesive" Instructions for Assembly and Use.

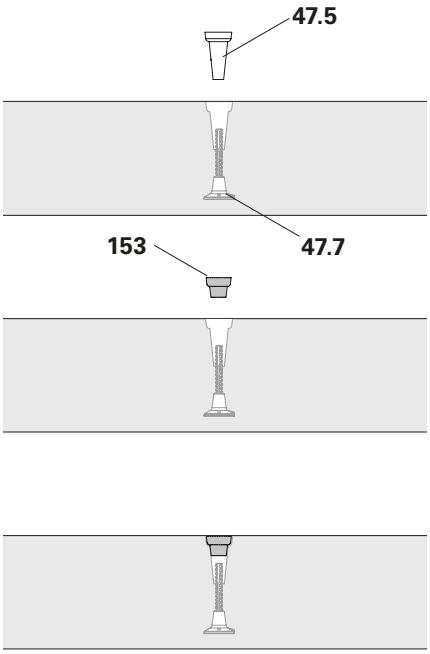


Fig. D1.18b

Warning

During dismantling, anchoring components may fall to the ground and hit people below!
This can lead to serious injuries or even death.

⇒ Cordon off danger zones beneath the working areas.

⇒ In order to prevent personnel falling out of the building, install anti-fall protection with a dense mesh underneath, e.g. PROKIT.

Anchoring M24 Variant 3

Climbing Cone-2 DW 15/M24 ga completely re-usable.

Components

47.5	Climbing Cone-2 M24/DW 15
47.7	Threaded Anchor Plate DW 15 Ø 80 mm
153	KK Concrete Cone M24

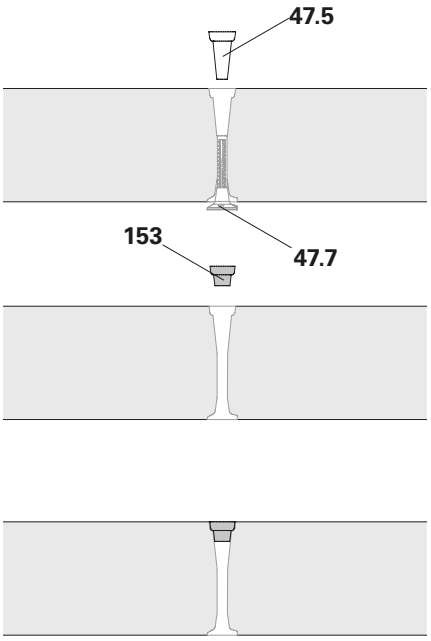


Fig. D1.18c

Dismantling

1. Loosen climbing cone (**47.5**) using a Socket Wrench AF36 and unscrew approx. 1 cm.
2. Hammer the cone downwards so that the Threaded Anchor Plate DW 15 (**47.7**) is loosened.
3. Now completely remove the cone. Remove the threaded anchor plate together with Tie Rod DW 15 from below using a secured mobile scaffold.
4. Close the remaining hole with a suitable KK Concrete Cone (**153**) and matching adhesive.

(Fig. D1.18c)

For further information, see the "Concrete cones and adhesive" Instructions for Assembly and Use.

Conventions on the instructions for action

The description always refers to all climbing units and all connected climbing devices of the hydraulic pump!

The following example shows the structure of an instruction for action.

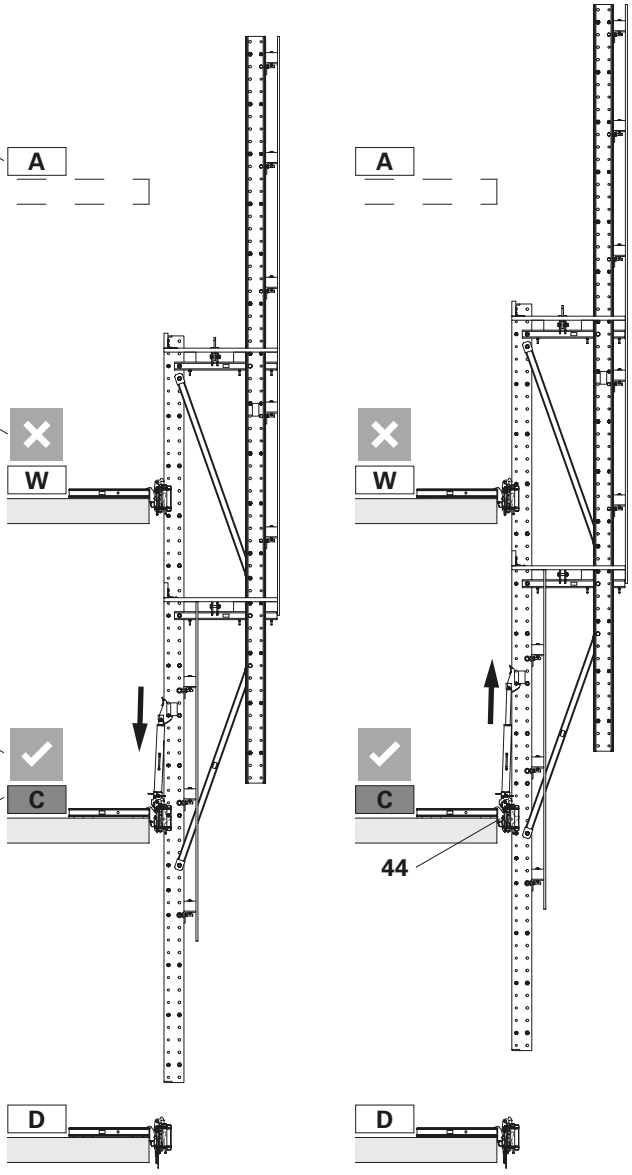


Fig. 15

Fig. 16

Illustrations show the climbing unit at the beginning and during the action step.

Heading of the action step

Step 2: Extend the climbing saw

1. Adjust the climbing shoes, see table. (Fig. 15)
2. Extend the hydraulic cylinder and extend the climbing saw all the way.
   → The climbing unit does not move.
   → The climbing saw moves downwards.

(Fig. 16)

Action steps, outcome of the action step, if applicable, and reference to illustration.

Attaching the climbing unit

For further information on tie points, see Section "Attachment point for crane" on page 58.

Components

24 Fitting Pin Ø21x120 mm
25 Fitting Pin Ø26x120 mm
26 Cotter Pin 4/1 ga
27 Cotter Pin 5/1 ga
83 Round sling

Assembly

1. Fold up the pre-assembled foldable covers and attach to the enclosure using fixation bars.
2. Remove or secure all loose components.
3. Pull a round sling (**83**) with sufficient load-bearing capacity and length between the spacers (**3 + 4**).
4. Attach the round sling to the enclosure post using the bolt and cotter pin (**25 + 27**).

(Fig. D2.01)

5. Secure guide ropes to the climbing enclosure.
6. Attach the crane slings to the round sling.
7. Align and lift the climbing unit.

(Fig. D2.02)

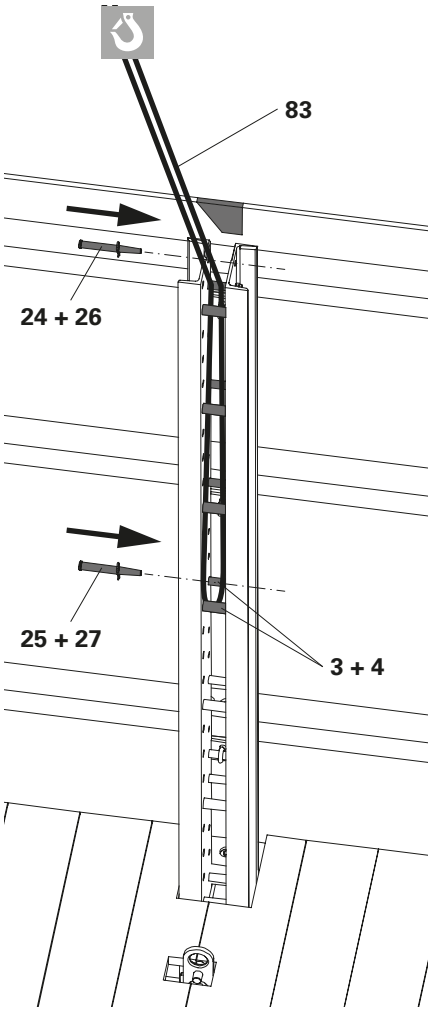


Fig. D2.01

To prevent damage to the enclosure when lifting the climbing unit, fit a Fitting Pin Ø21x120 mm (**24 + 26**) in the top hole of the climbing rail or saw a cut-out in the enclosure.

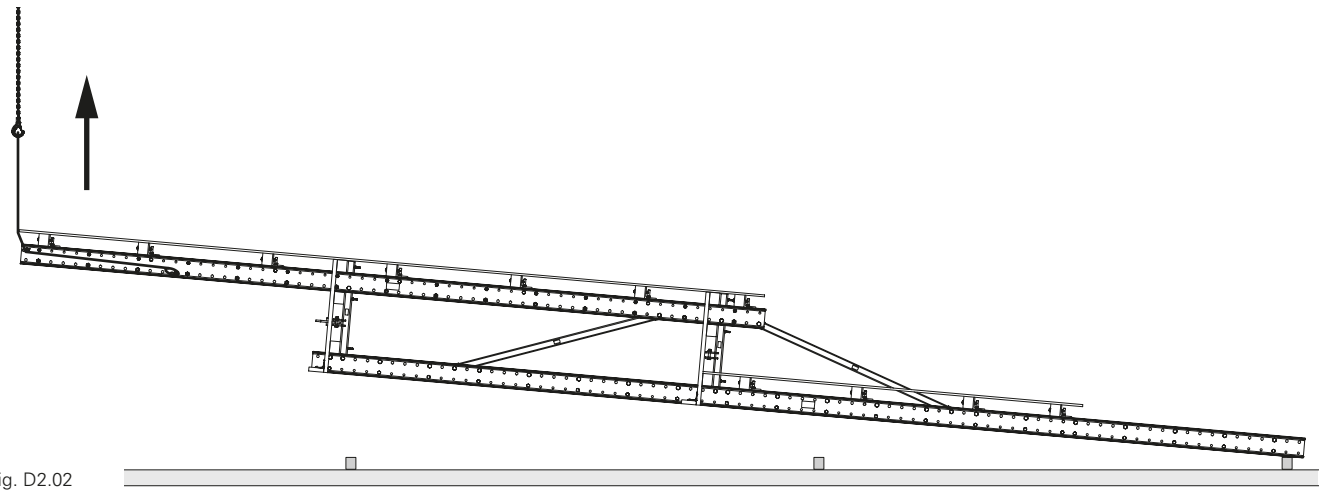


Fig. D2.02

Installing the climbing unit

Warning

- Risk of falling from unsecured building edges!
  A fall can result in serious injury or even death.
  ⇒ Install guardrails.
  ⇒ Use personal protective equipment to prevent falling from a height (PPE).
- During assembly on the construction site, components may fall to the ground and hit people below!
  This can lead to serious injuries or even death.
  ⇒ Cordon off danger zones beneath the working areas.
  ⇒ Release the climbing unit from the crane lifting gear only when all climbing shoes are closed and the climbing unit is resting fully on the lower slab shoes.

Components

44 Climbing Shoe RCS
45 Slab Shoe RCS
83 Round sling

Preparations

1. Mount required guardrails on all unsecured slab edges or ensure that PPE is used.
2. Screw the slab shoes (**45**) to position **B** and **C** on the anchoring.
3. Open the guiding skids (**44.2**) of the climbing shoes (**44**) at position **B** and **C**, see Section "Opening and closing the climbing shoe" on page 33.
4. Deactivate the Climbing Shoe RCS (**44**) at position **C** to prevent unintentional engagement if h_B = n x 50 cm.
5. Activate the Climbing Shoe RCS (**44**) at position **B**. See Section "Activating and deactivating the climbing pawl" on page 35.

(Fig. D2.03)

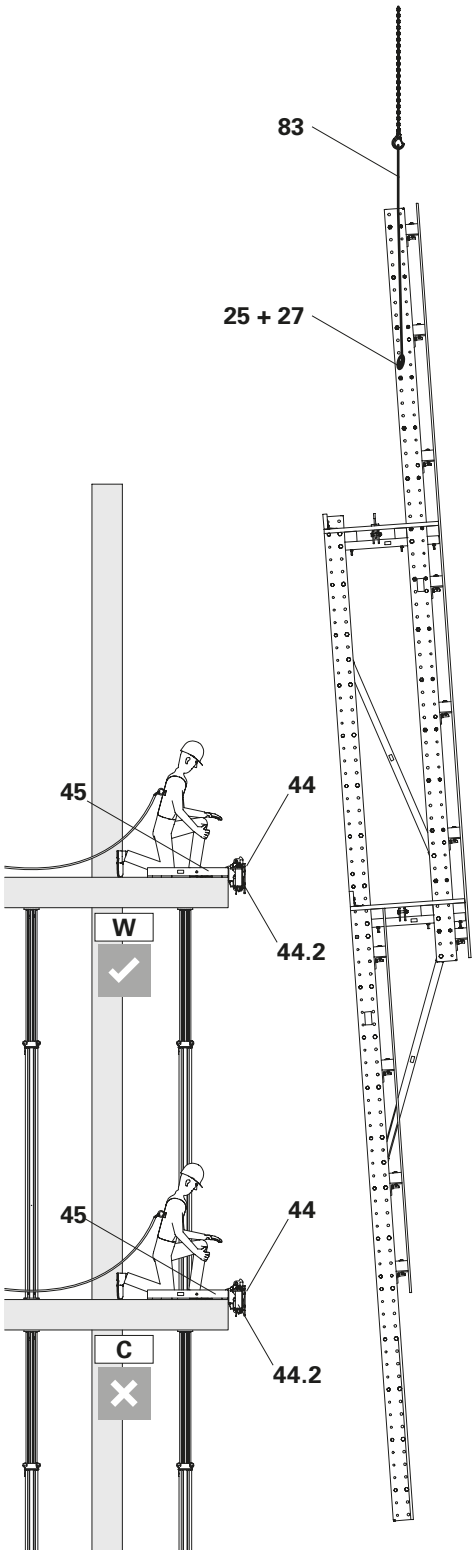


Fig. D2.03

Warning

Body parts can become trapped between climbing rails and slab shoes! This can result in serious injuries.

⇒ Do not take hold of anything between the rail guidance shoes and climbing rails.

⇒ Use the guide-in tool.

⇒ Guide the climbing enclosure with ropes.

- Place the correct spacer (**3**) on the pawl (**44.1**) of the climbing shoe.
- In order to facilitate threading, do not tighten the tie bolt (**151**) until the climbing enclosure has been mounted.

Components

3 Spacer M20-82
44 Climbing Shoe RCS
45 Slab Shoe RCS

Assembly

1. Position the climbing rail in front of the climbing shoe (**44**) at position **B** . (Fig. D2.04a)
2. Place the climbing rail with spacer (**3**) on the climbing pawl (**44.1**).
3. Release the strain on the crane slings until the guiding skids (**44.2**) of the climbing shoe (**44**) can be closed at position **B**.
4. Close and lock the guiding skids (**44.2**) of the climbing shoe (**44**) at position **B**, see Section "Opening and closing the climbing shoe" on page 33.

(Fig. D2.04)

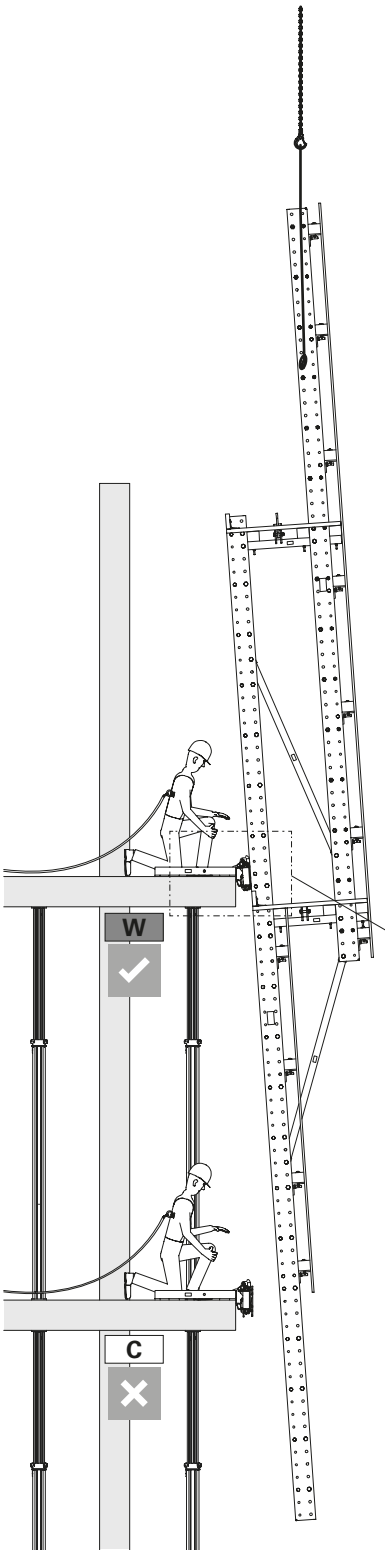


Fig. D2.04

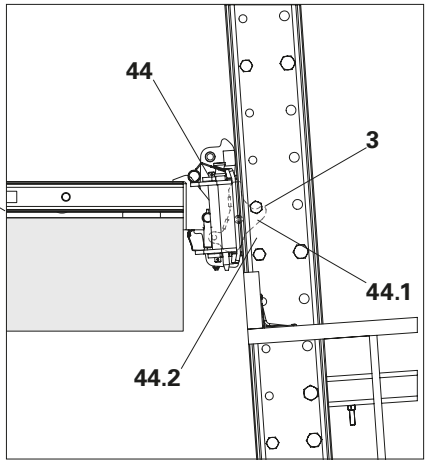


Fig. D2.04a

6. Release the strain on the crane slings further still and swivel the climbing rail into the climbing shoe (**44**) at position **C**.
7. Close and lock the guiding skids (**44.2**) of the climbing shoe at position **C** and secure.
8. Tighten the tie bolts (**151**) of all slab shoes.
9. Raise the climbing unit by approx. 10 cm.
10. Activate climbing shoe (**44**) at position **C** and deactivate climbing shoe (**44**) at position **B**.
11. Relieve the crane of all loads and release crane lifting gear whilst standing in a safe position.

(Fig. D2.05)

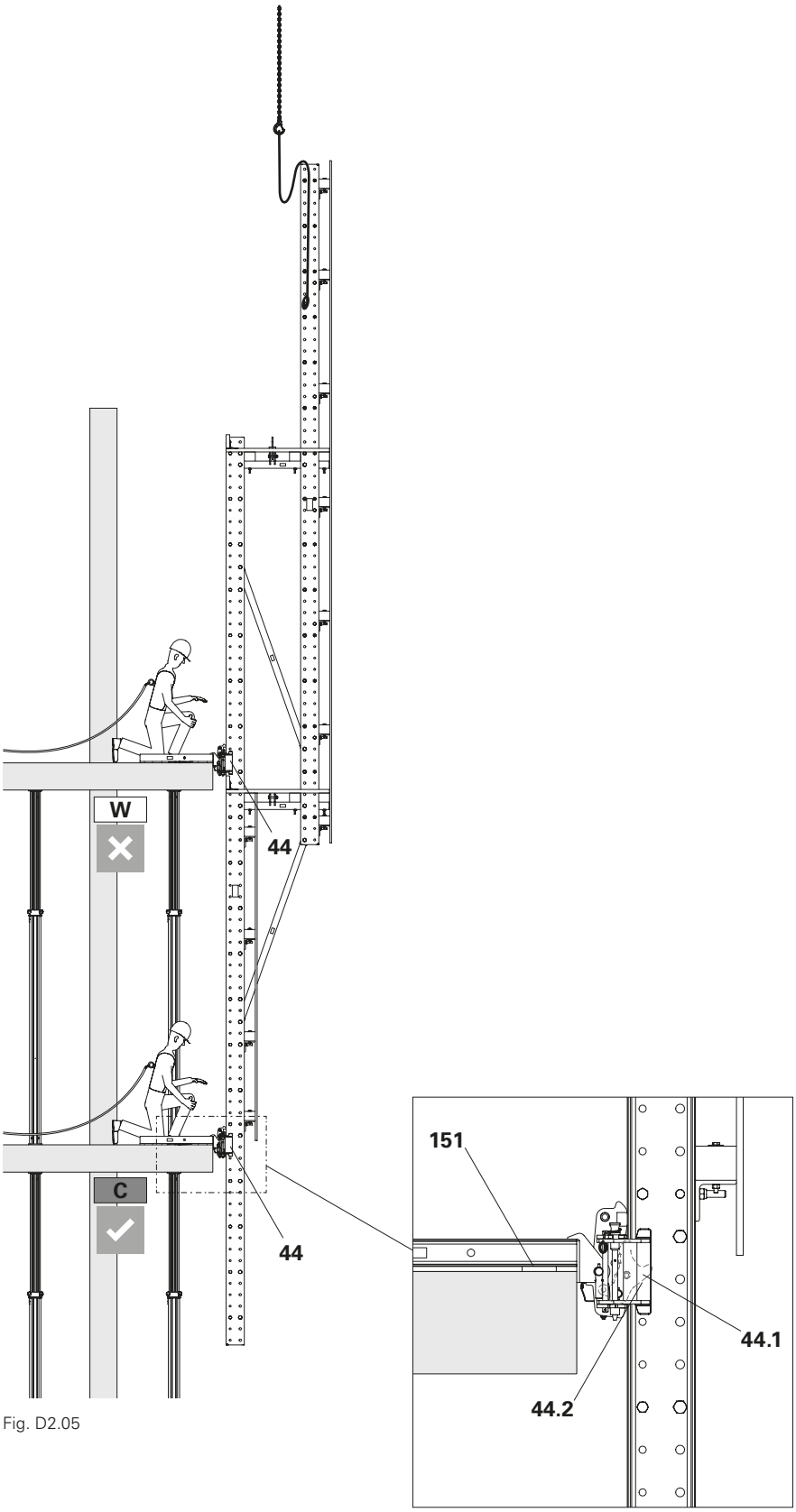


Fig. D2.05

Fig. D2.05a

After mounting

Warning

- There is a risk of falling during assembly work on the suspended enclosure! A fall can result in serious injury or even death.
  ⇒ Use personal protective equipment to prevent falling from a height (PPE).
- During assembly, for example, tools can fall down and strike people! Risk of injury
  ⇒ Cordon off all danger zones below.

Components

41	Foldable cover (multi-layer plywood sheeting)
109	Spax Screw TX25, 5 x 20
136	Fixation Bar RCS

Assembly

1. Close the foldable covers.
2. If not yet installed: provide a fixation bar (**136**) for each cover for the opened position. Secure each fixation bar to the enclosure using 4 screws 5 x 20 (**109**).
3. If necessary, carry out adjustments, e.g. in the area of the climbing shoes.

(Fig. D2.06)

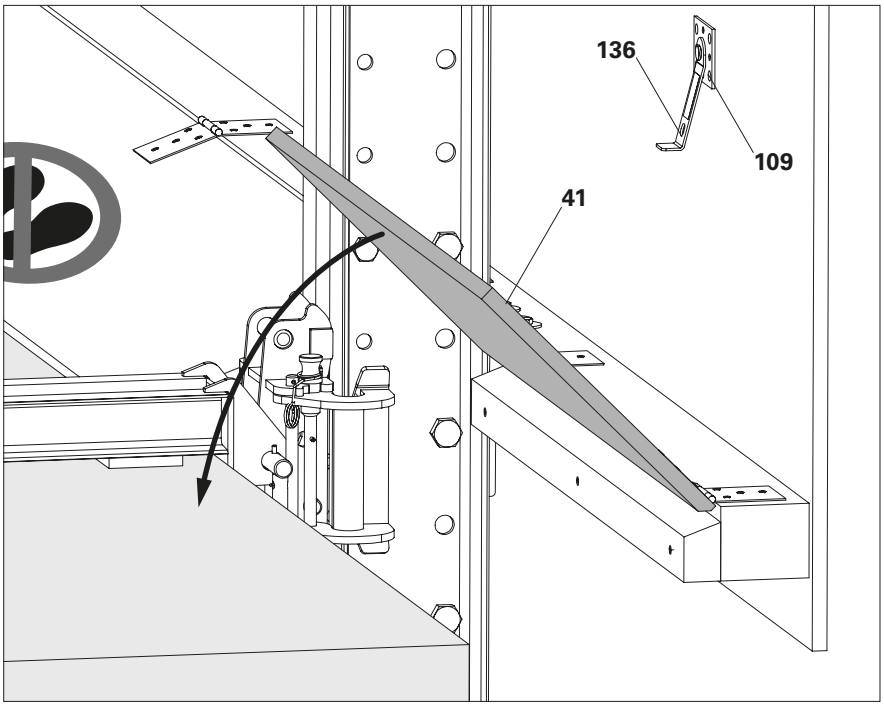


Fig. D2.06

Closing gaps

Components

41 Foldable cover (multi-layer plywood sheeting)
43 Cover Mat RCS 70 x 70
45 Slab Shoe RCS

Closing

1. Cover all gaps in the area of the slab shoe with Cover Mat RCS 70x70 (**43**). (Fig. D2.07)
2. If necessary, nail the cover mat to the foldable cover.

Cover any remaining gaps with suitable means, e.g. Elastomer cover tapes. Make sure that neither the climbing procedure nor the opening of the flaps is impaired in any way.

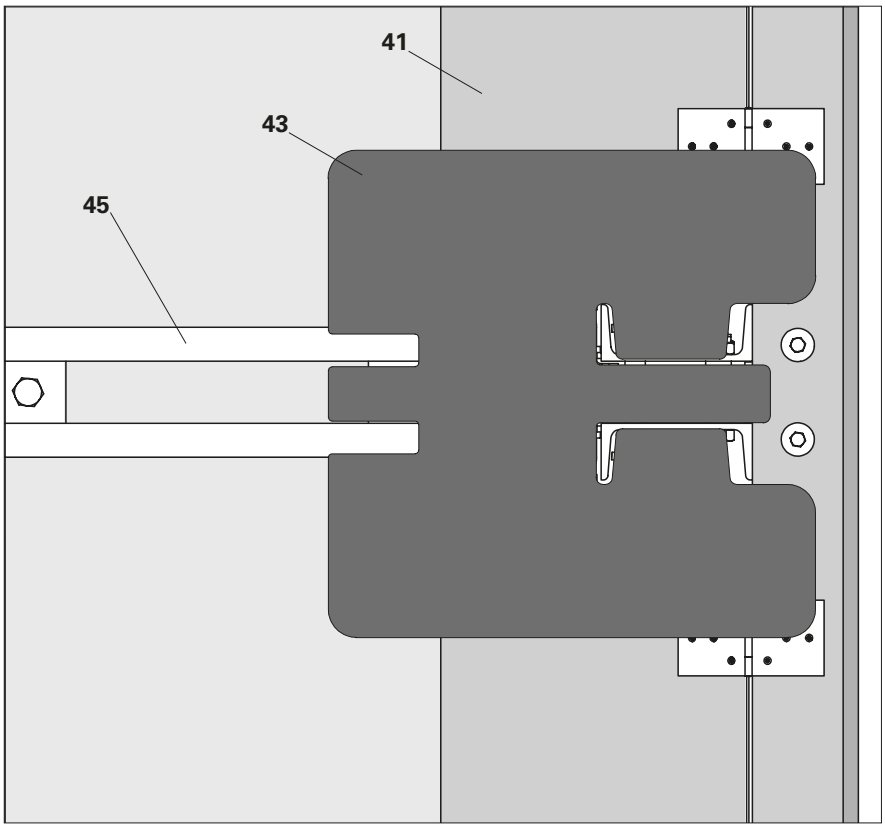


Fig. D2.07

Troubleshooting

Warning
During assembly on the construction site, components may fall to the ground and hit people below!
This can lead to serious injuries or even death.
⇒ Cordon off danger zones beneath the working areas.

Fault	Cause	Measure
Guiding skids cannot be closed.	■ Climbing rail is not correctly positioned in the guide shoe.	■ Pull climbing rail inwards with the guide-in tool.
	■ Climbing rail spacing is not correct.	■ Detach climbing enclosure and adjust spacing of climbing rail.
	■ Slab shoe spacing is not correct.	■ Slightly loosen the leading tie bolt, close the guiding skids and tighten them using component tolerances. Alternatively: ■ Mount new anchoring through the slab with tie rods and wingnut counterplates.
Climbing unit is not lying on the intended spacers on both sides.	■ Climbing rail is resting on a slab shoe that is positioned below. ■ Storey height is approx. a multiple of 50 cm.	■ Raise the climbing unit by approx. 10 cm using the crane. Deactivate the pawls of all climbing shoes positioned above. Position climbing unit with the intended spacer on the pawl of the bottom climbing shoe.

D3 Repositioning with the crane

Safety instructions

Warning

- There is a risk of falling from unsecured slab edges!
- As a result of the relocation procedure, falling edges are formed between the platforms!

A fall can result in serious injury or even death.

⇒ Guardrails must be installed prior to climbing.
⇒ Areas of risk are to be cordoned off.
⇒ Use personal protective equipment to prevent falling from a height.

Warning

Body parts can become trapped between climbing rails and slab shoes! This can result in serious injuries.

⇒ Do not take hold of anything between the rail guidance shoes and climbing rails while the climbing enclosure is moving.

- The load-bearing capacity of the structural elements, which carry the load-carrying slab shoes, must be ensured!
- Do not transport persons, building materials or tools when moving with the crane. These could fall off, leading to serious injury or even death.
- Materials or other components must not protrude beyond the slab edge. These could hinder the climbing process or fall off.
- In the event of a malfunction, the climbing unit is to be set down in the next possible position and an authorised person is to be informed immediately!
- When climbing by crane, always provide safe access for attaching and detaching the crane lifting gear. Additional two-sling lifting gear that remains on the climbing enclosure may be necessary until it can be safely removed.

Preparations

Components

41 Foldable cover (multi-layer plywood sheeting)
44 Climbing Shoe RCS
45 Slab Shoe RCS
85 Guardrail

Assembly

1. Fit the slab shoes (**45**) and climbing shoes (**44**) at position **A**.
2. Open the guiding skids of the climbing shoes (**44**) at position **A** and deactivate the climbing shoe (**44**) at position **A**.
3. Activate the climbing shoes (**44**) at position **B**. The climbing shoe (**44**) at position **C** continues to bear the load.
4. Remove temporary connections between the climbing units.
5. Dismantle formwork in the area of the slab edge.
6. Mount trailing guardrails (**85**).
7. Fold up foldable covers (**41**) and secure.
8. From a safe position, attach crane lifting gear to Lifting Eye BR-2 2.5 t.
9. Leave the climbing enclosure and danger zone.

(Fig. D3.01)

For information on operating the climbing shoes, see Section “Opening and closing the climbing shoe” on page 33 and Section “Activating and deactivating the climbing pawl” on page 35.

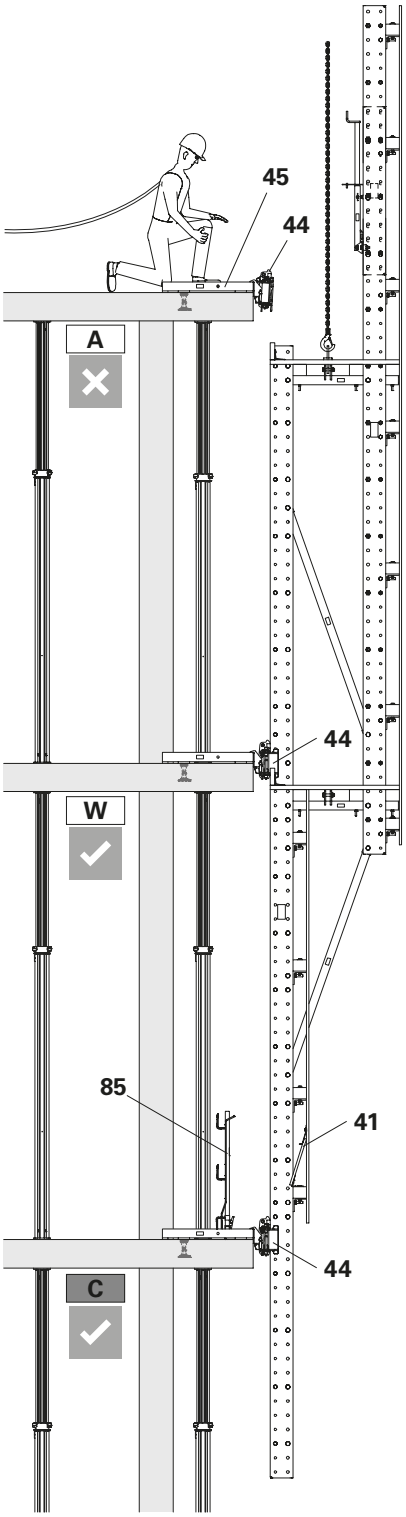


Fig. D3.01

Moving procedure

Components

126 Guide-In Tool RCS

1. Use the crane to lift the climbing unit up to the climbing shoes (**44**) at position **A**.
   Not required for variant 4.
2. Pull the climbing rail (**2**) onto the climbing shoes (**44**) at position **A** using the guide-in tool (**126**).
3. Close the guiding skids of the climbing shoes (**44**) at position **A**.
   See Section "Closing the climbing shoe" on page 34.
4. If necessary, deactivate the climbing shoes (**44**) at position **C**.
5. Raise the climbing unit to the end position.
   → The climbing pawls of the climbing shoes (**44**) at position **B** must engage below the spacer M20-82 (**3**)!
6. Lower the climbing unit until spacer M20-82 (**3**) rests on the climbing pawls of the climbing shoes (**44**) at position **B** in a fully load-bearing manner. (Fig. D3.02)

If climbed too far

1. Raise the climbing unit by approx. 10 cm using the crane.
2. Deactivate all climbing shoes for this climbing unit. See Section "Activating and deactivating the climbing pawl" on page 35.
3. Lower the climbing unit until the correct spacer is approx. 10 cm above the climbing pawls of the climbing shoes (**44**) at position **B**.
4. Activate the climbing shoes (**44**) at position **B**.
5. Lower the climbing unit onto spacers M20-82.

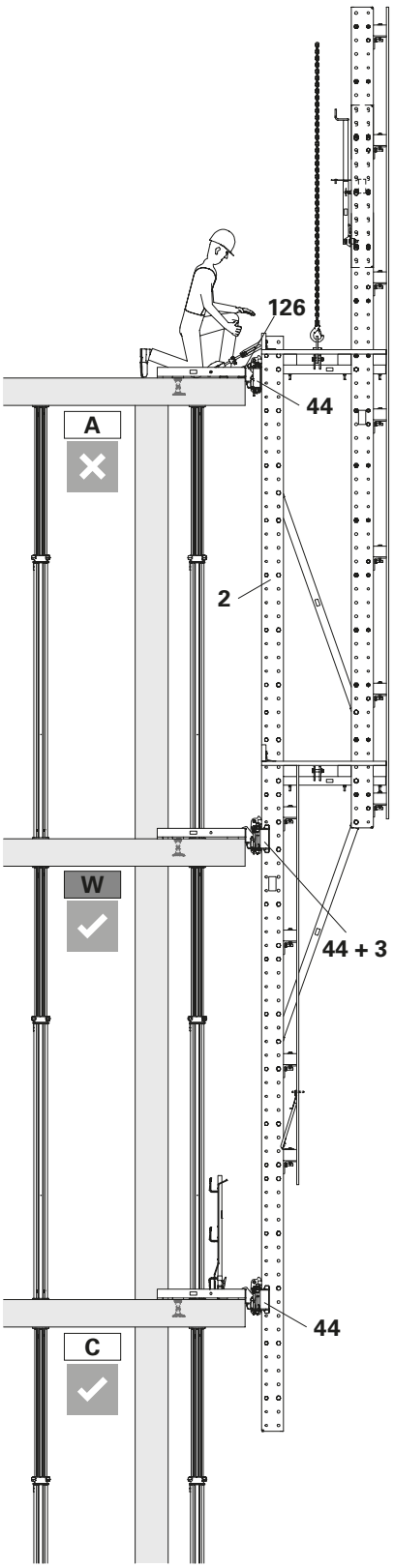


Fig. D3.02

Troubleshooting

Fault	Cause	Measure
Guiding skids cannot be closed.	■ Climbing rail is not correctly positioned in the guide shoe.	■ Pull climbing rail inwards with the guide-in tool.
	■ Slab shoe spacing is not correct.	■ Slightly loosen the leading tie bolt, close the guiding skids and tighten them using component tolerances. Alternatively: ■ Mount new anchoring through the slab with tie rods and wingnut counterplates.
Climbing unit is not lying on the intended spacers on both sides.	■ Climbing rail is resting on a slab shoe that is positioned below. ■ Storey height is approx. a multiple of 50 cm.	■ Raise the climbing unit by approx. 10 cm using the crane. Deactivate the pawls of all climbing shoes positioned above. Position climbing unit with the intended spacer on the pawl of the bottom climbing shoe.

Concluding work

1. Detach the crane lifting gear from a safe position, e.g. mobile scaffold. Alternatively, leave two-sling lifting gear attached to the climbing enclosure until it can be safely dismantled.
2. Complete the guardrails.
3. Remove the trailing slab shoe, see Section “Dismantling the suspension” on page 127.
4. Remove anchoring that is no longer required, see Section “Removing the anchoring” on page 129.

D4 Repositioning with the climbing device

Safety instructions

Warning

- There is a risk of falling from unsecured slab edges!
- As a result of the relocation procedure, falling edges are formed between the platforms!

A fall can result in serious injury or even death.

⇒ Guardrails must be installed prior to climbing.
⇒ Areas of risk are to be cordoned off.
⇒ Use personal protective equipment to prevent falling from a height.
⇒ Keep foldable covers closed after assembling the climbing hydraulics.

Warning

Body parts can become trapped between climbing rails and slab shoes! This can result in serious injuries.

⇒ Do not hold the climbing shoe and climbing rails when the climbing unit is being moved.

- The load-bearing capacity of the structural elements, which carry the load-carrying slab shoes, must be ensured!
- Do not transport persons, building materials or tools when moving with the crane. These could fall off, leading to serious injury or even death.
- Materials or other components must not protrude beyond the slab edge. These could hinder the climbing process or fall off.
- If manual intervention is necessary during the climbing procedure, the platforms to be climbed may only be accessed after consultation with the operating personnel.
- In the event of a malfunction, the climbing enclosure is to be set down in the next possible position and an authorised person is to be informed immediately!
- Arrange the hydraulic hoses in such a way that
  – loops and knots are prevented,
  – no loops form beyond the slab edge,
  – they do not get caught on the climbing platforms.
- Up to 2 units can be climbed at the same time.

Significant differences between variants 1 - 3 and 4

With variants 1 to 3, the climbing rail is pulled into the top slab shoes during the climbing procedure.

With variant 4, the slab shoe must be swivelled into the projecting climbing rail before climbing begins, then anchored and closed.

Commissioning the climbing hydraulics

See the instructions for use for the "RCS Climbing Device and Hydraulics".

Preparations

The self-climbing procedure takes place from the slab level with the middle slab shoe.

Carry out preparatory work as described in Section "Preparations" on page 125; however, the foldable covers remain closed at this level until the climbing unit has been mounted!

Additionally:

1. Prepare the climbing hydraulics. See the instructions for use for the "RCS Climbing Device and Hydraulics".
2. Ensure that the hydraulic pump is available.
3. Lay out hydraulic hoses on the slab without any loops or entanglement.
4. Ready the Climbing Devices RCS 50.

Hydraulic diagram

See "Fig. D4.01".
The arrangement of the plug connectors and bushings of the quick couplers is clearly shown.

Remedial measures for malfunctions

See the instructions for use for the "RCS Climbing Device and Hydraulics":

- Uneven cylinder extension and retraction
- Cylinder sinks
- Hydraulic oil is leaking
- Cylinder does not extend

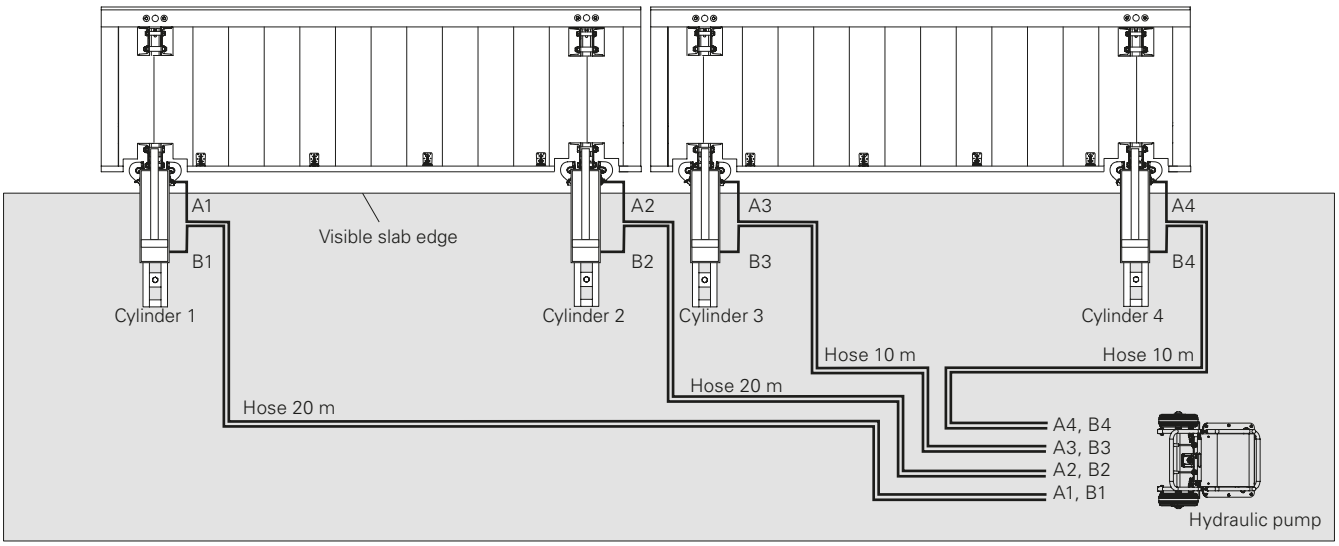


Fig. D4.01

Moving procedure

For a detailed explanation of the individual steps, see the following section.

Components

44 Climbing Shoe RCS
45 Slab Shoe RCS
60 Climbing Device RCS 50

Variant 1 – 3

1. Fit the slab shoes (**45**) and climbing shoes (**44**) at position **A** and open the guiding skids.
2. Activate the climbing shoes (**44**) at position **B**. The climbing shoe (**44**) at position **C** continues to bear the load.
3. Fit the climbing devices (**60**) at position **B** and clip them onto the bolts of the climbing shoes (**44**).
4. Fold up foldable covers (**41**) and secure.
5. Leave the climbing enclosure and operate the hydraulic pump from a secure position.

(Fig. D4.02)

6. Raise the climbing enclosure with the climbing device (**60**) in 50 cm strokes.
7. When the climbing rail (**2**) reaches the climbing shoe (**44**) at position **A**:
   – Interrupt the climbing process and insert the climbing rails into the climbing shoes.
   – Continue climbing.
8. After the specified protection height has been reached:
   – Stop the climbing procedure.
   – Set down the climbing unit at position **B** with the spacers on the climbing shoes.

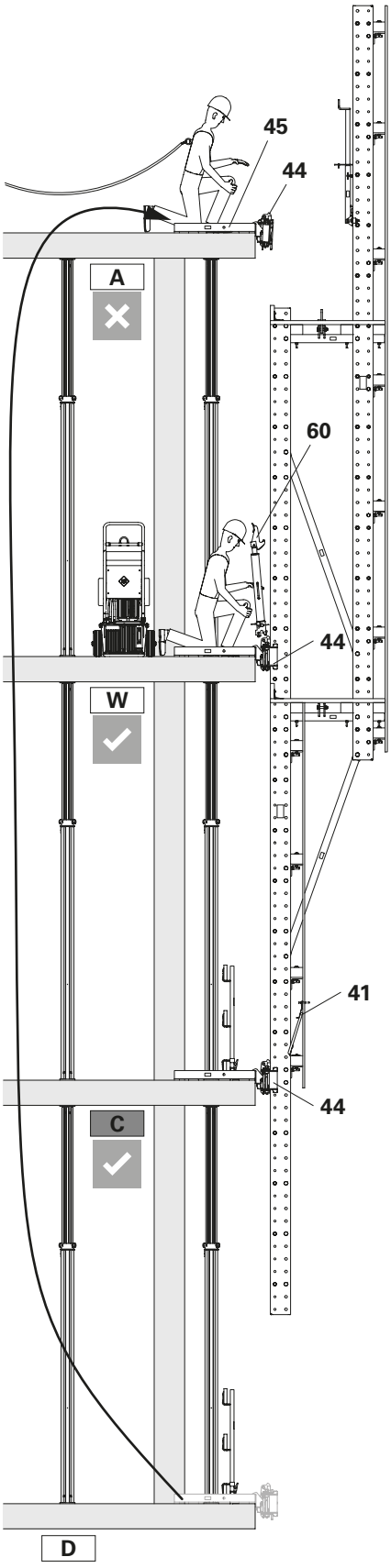


Fig. D4.02

Variant 4

Danger

Risk of falling when working at position **B**!
Risk of serious injury or death if this is disregarded.
⇒ Use PPE.

1. Fit the Slab Shoe RCS 30 adjustable (**67**) and climbing shoes (**44**) at position **A** and open the guiding skids.
2. Pull the climbing rail onto the climbing shoe using the guide-in tool.
3. Close the guiding skids.
4. Remove the guide-in tool.
5. Activate the climbing shoe (**44**) at position **B**. The climbing shoe (**44**) at position **C** continues to bear the load.
6. Fold back the Cover Mat RCS. Fit the climbing device (**60**) at position **B** and clip it onto the bolt of the climbing shoe (**44**).
7. Fold up foldable covers (**41**) and secure.
8. Leave the climbing enclosure and operate the hydraulic pump from a secure position.

(Fig. D4.03)

9. Raise the climbing enclosure with the climbing device (**60**) in 50 cm strokes.
10. After the specified protection height has been reached:
    – Stop the climbing procedure.
    – Set down the climbing unit at position **B** with the spacers on the climbing shoes.
11. Fold down the foldable covers (**41**) and close any open gaps, e.g. with Cover Mat RCS.

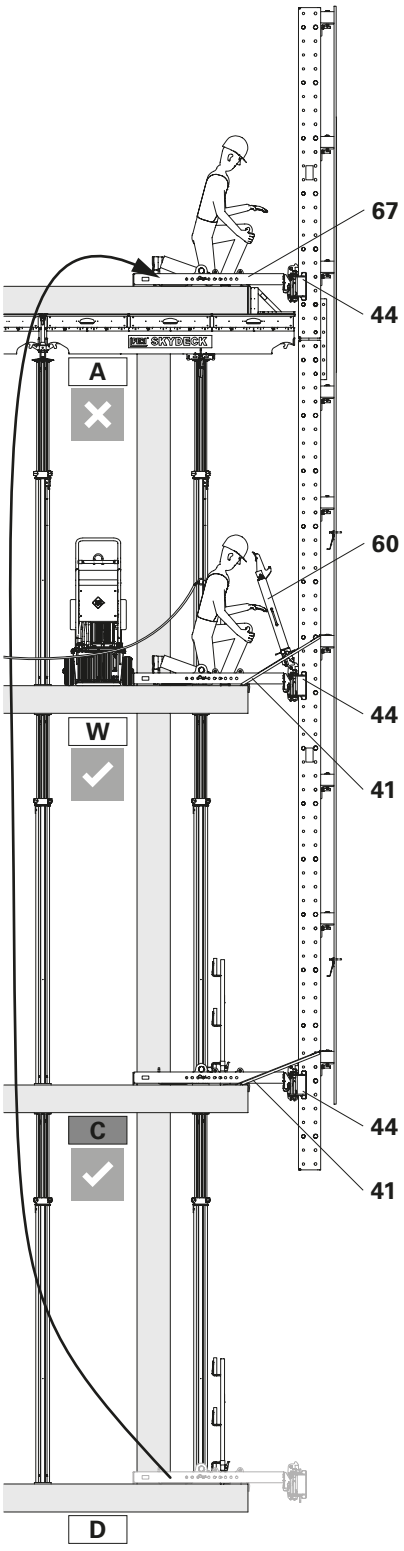


Fig. D4.03

Self-climbing procedure

Step 1

1. Remove the cover mat above the climbing shoe.
2. Place the Climbing Device RCS (**60**) on the bolt (**44.6**) of the climbing shoe (**44**) at position **B** and clip it in. The climbing device is pressed against the climbing rail through spring force. Guide the claw into the climbing rail.

(Fig. D4.04)

3. Attach twin hoses to the hydraulic pump and create a short-circuit connection at the other end by coupling them together.
4. Switch on the hydraulic pump and flush the hose for approx. 1 minute by operating the hand valve.
5. Disconnect the hose ends from one another and connect them to the Climbing Device RCS 50.

- Is the locking lever (**60.6**) fully engaged on the cylinder base?
- No possibility of the hydraulic hoses becoming entangled?

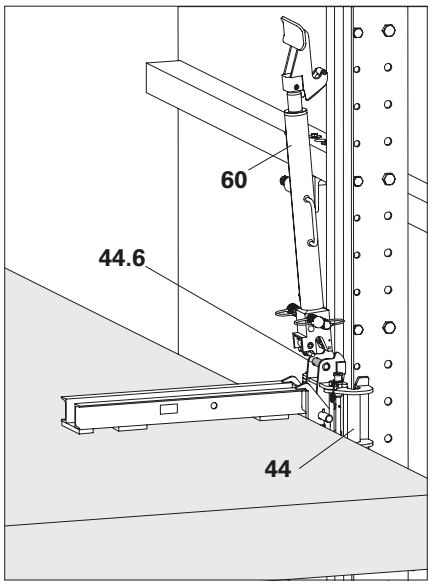


Fig. D4.04

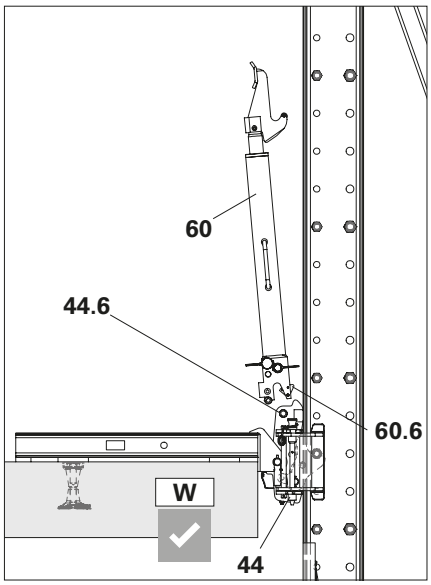


Fig. D4.04a

Step 2

Use personal protective equipment to prevent falling from a height.

1. Fold up foldable covers and secure.
2. Extend the hydraulic cylinder (**60**) up to the first spacer (**3**).
3. The load is borne by the piston with claw (**60.1**).

(Fig. D4.05)

Are all claws engaged in the spacers?

If the foldable covers (**41**) collide with the hoses or hydraulic climbing device during opening:

- Trim the covers.

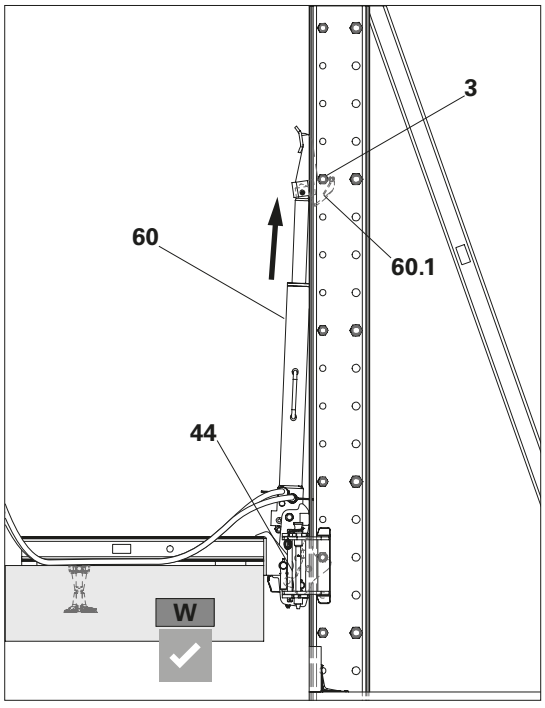


Fig. D4.05

Step 3

1. Fully extend the hydraulic cylinder.
2. The climbing pawl (**44.1**) in the climbing shoe is pressed inwards by the spacer when climbing past, then unfolded again by means of the spring force (audible click).

(Fig. D4.06)

Are the climbing pawls (**44.1**) of all climbing shoes (**44**) engaged in the climbing rail at position **B**?
If not:

- Fully extend the hydraulic cylinder. Due to the end position compensation, the following cylinder moves very slowly.
- Climb back, remove cylinder and bleed.

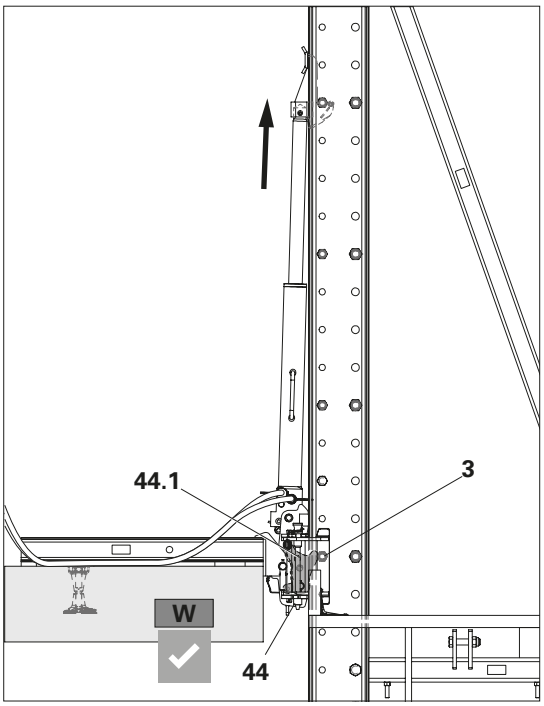


Fig. D4.06

Step 4

1. Retract the hydraulic cylinder.
   → The climbing unit is supported at position **B** with the spacer (**3**) on the climbing pawl (**44.1**) of the climbing shoe (**44**).

(Fig. D4.07)

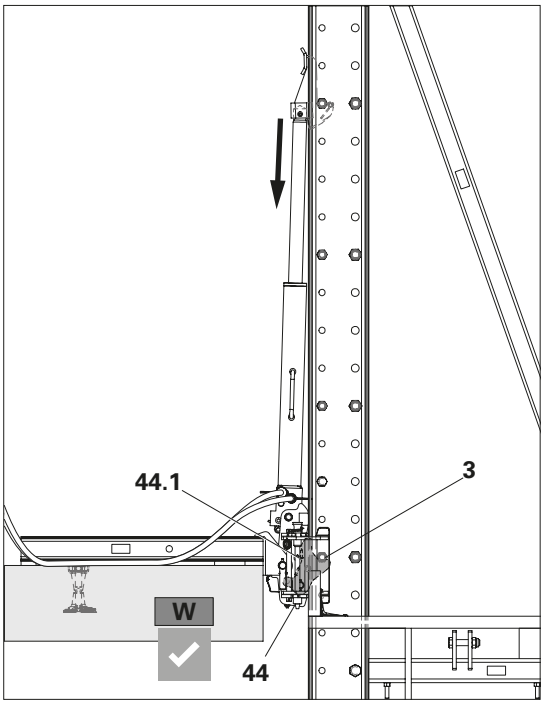


Fig. D4.07

Components for steps 5 - 7

3 Spacer M20-82
44 Climbing Shoe RCS
60 Climbing Device RCS 50
126 Guide-In Tool RCS

Step 5

1. Retract hydraulic cylinder until it tilts backwards, claw (**60.1**) slides past the spacers (**3**) positioned underneath and engages again below. (Fig. D4.08)

Are all claws under the spacers correctly engaged?
Otherwise press down by hand.
If necessary, further retract the hydraulic cylinder.

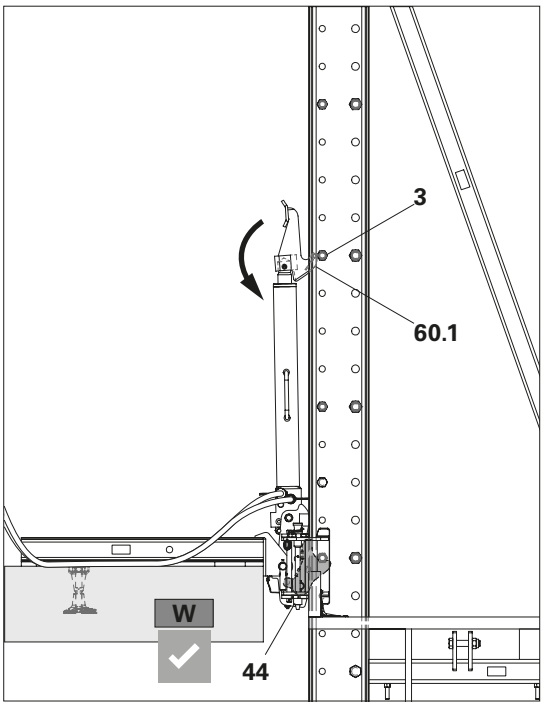


Fig. D4.08

Step 6

1. Extend the hydraulic cylinder.
   → The claw grips the spacer and raises the climbing unit.
2. By repeating steps 3 to 6 several times, the climbing unit is gradually climbed upwards in increments of 50 cm.

(Fig. D4.09)

Note

If the hydraulic hoses become taut or entangled, immediately stop the climbing procedure and eliminate the problem!

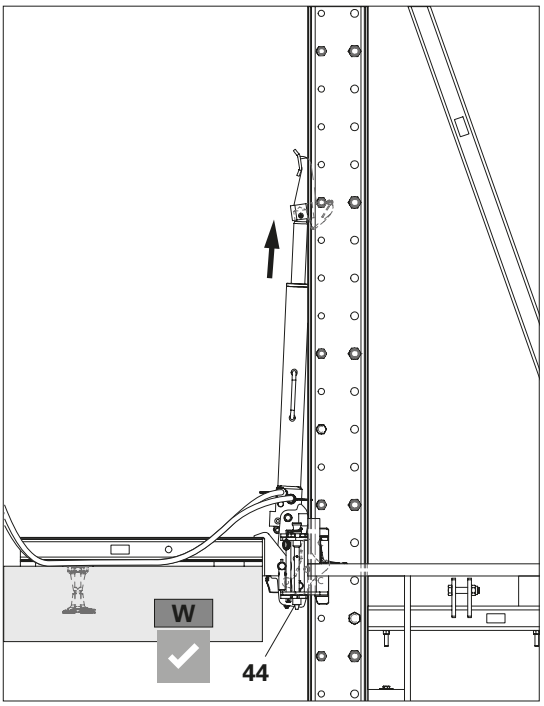


Fig. D4.09

Step 7 (Variant 1-3)
When the climbing shoe (**44**) is reached at position **A**:
1. Stop the climbing procedure.
2. Pull the climbing rail inwards by means of the guide-in tool (**126**).
3. Close the guiding skids (**44.2**) of the climbing shoe (**44**) at position **A**.
4. Deactivate the climbing shoe (**44**) at position **A**.
5. Remove the guide-in tool.
6. Continue the climbing procedure.

(Fig. D4.10)

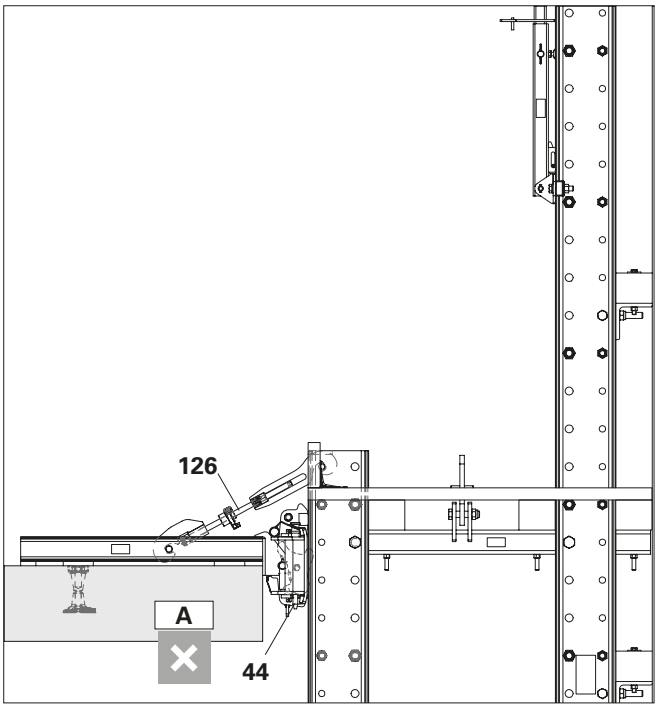


Fig. D4.10

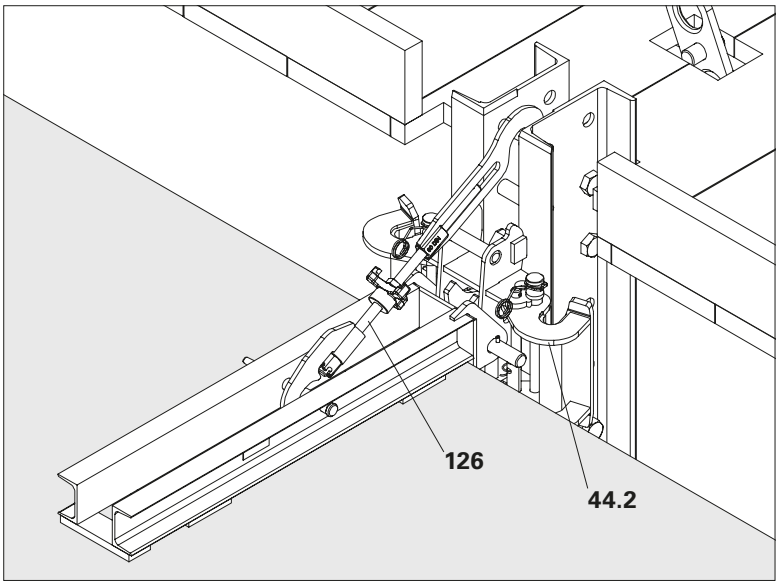


Fig. D4.10a

Components for steps 8 - 9

3	Spacer M20-82
41	Foldable cover
44	Climbing Shoe RCS
60	Climbing Device RCS 50

Step 8

1. Repeat steps 3 to 6 and climb the climbing unit to the end position.

(Fig. D4.11)

Are the climbing pawls of all climbing shoes (**44**) engaged at position **B**?

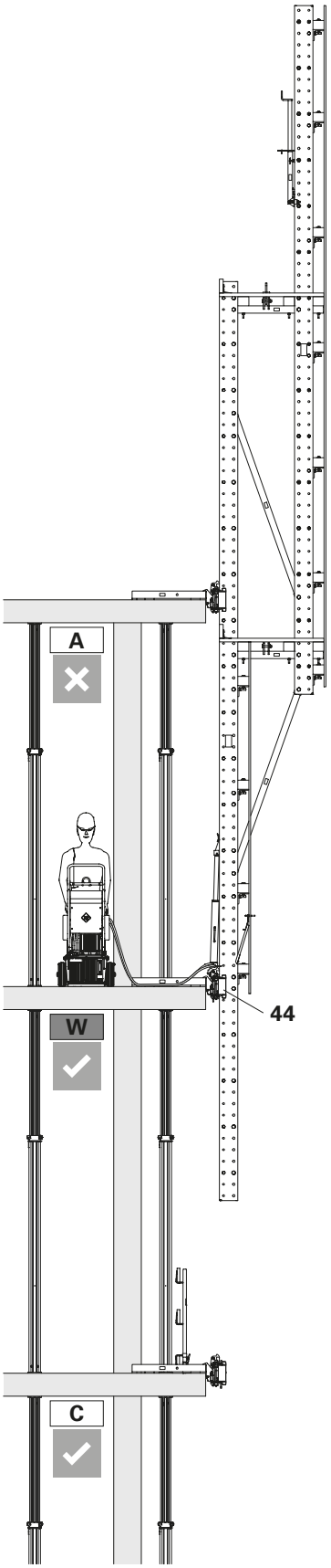


Fig. D4.11

Step 9

1. Completely retract the hydraulic cylinders until:
   → The climbing unit is supported at position **B** with the spacer (**3**) on the climbing pawl (**44.1**) of the climbing shoe (**44**).
2. Detach hydraulic hoses from the climbing device using the quick couplers.
3. Close the foldable covers (**41**).
4. Tilt the climbing device backwards, operate the locking lever (**60.6**) on the cylinder base and lift out the climbing device.

(Fig. D4.12)

5. Transport the hydraulic pump, climbing device and hydraulic hoses to the next climbing unit.

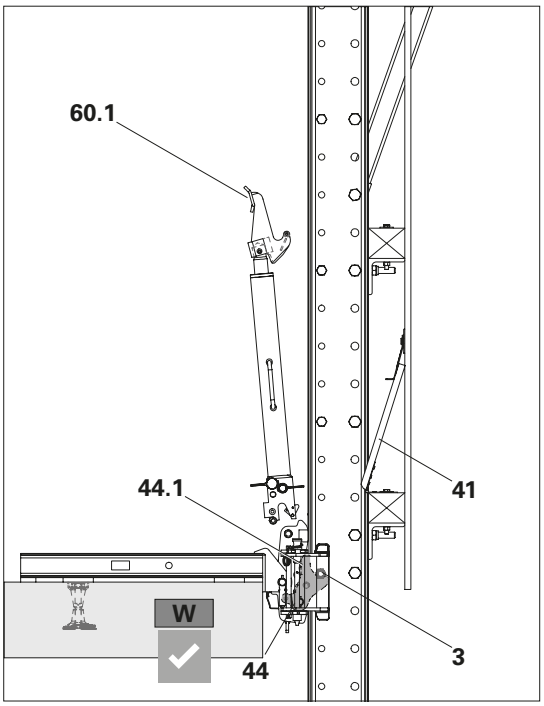


Fig. D4.12

In order to prevent the locking lever immediately engaging again after releasing, press the climbing device slightly to the side.

When the hydraulic cylinders are not in use, always retract the pistons completely.

Concluding work

1. Fold down the foldable covers and close any remaining gaps.
2. Complete the guardrails.
3. Remove the trailing slab shoe, see Section “Dismantling the suspension” on page 127.
4. Remove anchoring that is no longer required, see Section “Removing the anchoring” on page 129.

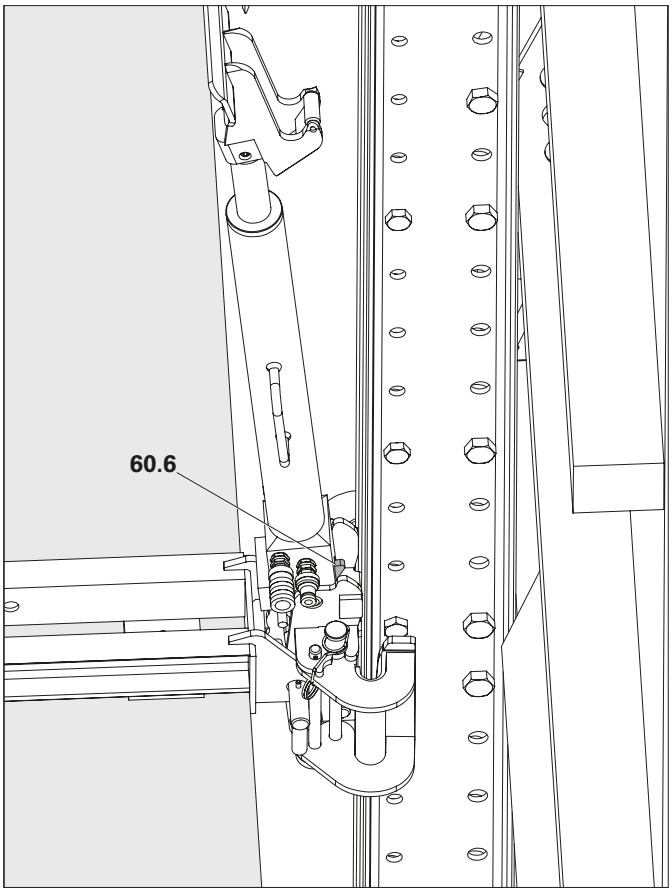


Fig. D4.12a

Removing the climbing enclosure

Warning

As a result of removing the climbing enclosure, unsecured building edges are formed!
A fall can result in serious injury or even death.
⇒ Install guardrails before removing the climbing enclosure.
⇒ Areas of risk are to be cordoned off.
⇒ Use personal protective equipment to prevent falling from a height.

Components

41 Foldable cover
44 Climbing Shoe RCS
85 Guardrail

Preparations

1. Remove connections between the climbing enclosures.
2. Dismantle formwork in the area of the slab edge.
3. Mount guardrails (**85**) on all unsecured slab edges.
4. Remove cover mats, fold up and secure foldable covers (**41**).
5. Remove or secure all loose components.
6. Fit Lifting Eye BR-2 2.5 t, see Section “Assembling the attachment points” on page 89.
7. Secure guide ropes to the climbing enclosure.
8. Attach crane lifting gear to Lifting Eye BR-2.

(Fig. E1.01)

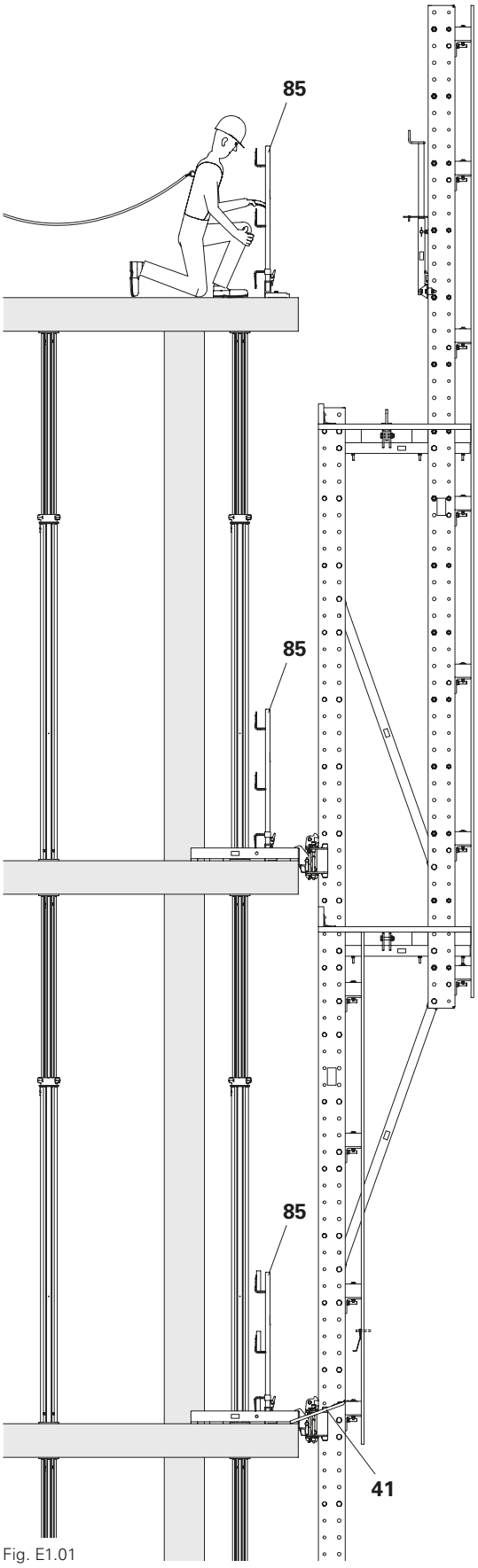


Fig. E1.01

Removing the climbing enclosure

Warning

Hands can become trapped between climbing rails and slab shoes!
This can result in serious injuries.

⇒ Do not take hold of anything between the rail guidance shoes and climbing rails while the climbing enclosure is moving.

⇒ Do not open the guiding skids if the climbing rail is pressing against them.

1. Leave the climbing enclosure platforms.
2. Open the guiding skids of the bottom climbing shoes (**44c**).
3. Lift the climbing enclosure slightly with the crane in order to relieve the middle climbing shoes (**44b**).
4. Open the guiding skids of the middle climbing shoes (**44b**).
5. Move climbing enclosure away from the building with the crane and transport to a suitable dismantling area.
6. Remove the remaining slab shoes and ties.
7. Complete the guardrails.

(Fig. E1.02)

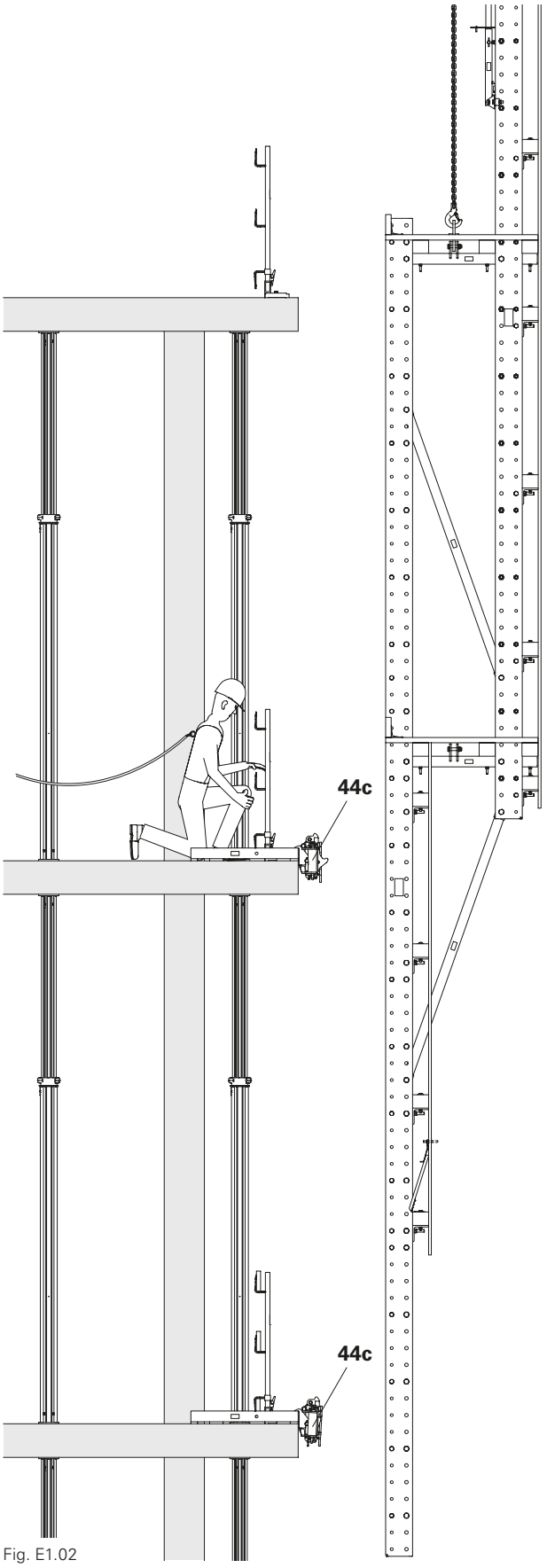


Fig. E1.02

Dismantling the climbing enclosure

Components

1 Enclosure post
2 Climbing Rail RCS
10 Crossbar RCS 103
12 Diagonal Strut RCS 212
14 Enclosure beam (squared timber)
40 Platform beam (squared timber)

Dismantling the enclosure

1. Place the climbing unit with the enclosure above on the dismantling area.
2. Remove the enclosure from the enclosure beams.
3. Remove decks from the platform beams.
4. Dismantle the foldable covers.
5. Remove any remaining bracing.

Dismantling the framework

1. Remove the enclosure beams from the enclosure posts.
2. Remove the platform beams (**40**) from the crossbars (**10**).
3. Remove the enclosure posts (**1**) from both console bracket units.

(Fig. E1.03 + E1.04)

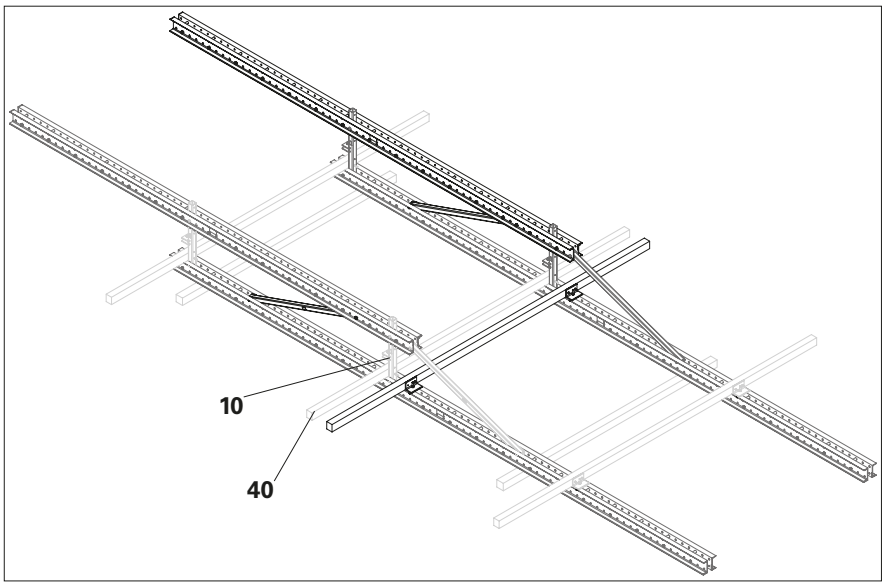


Fig. E1.03

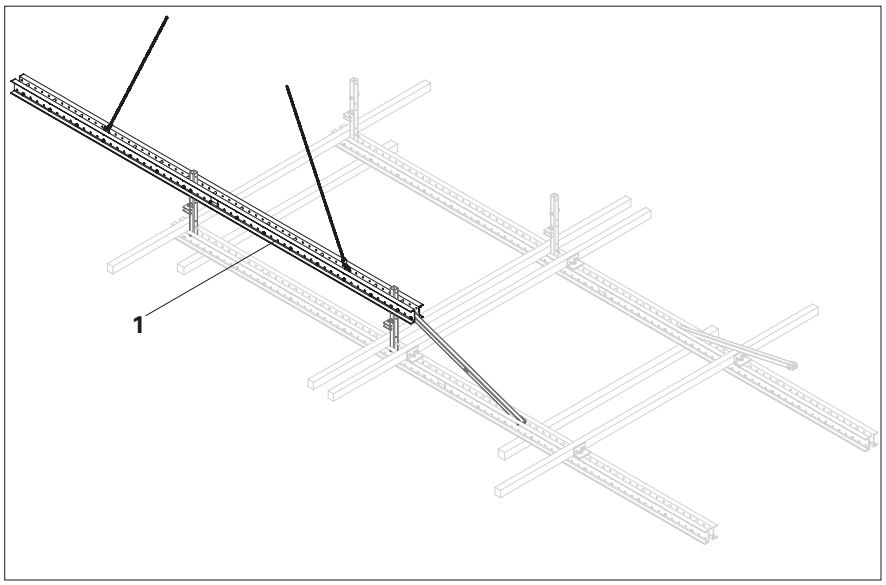


Fig. E1.04

4. Remove crossbars (**10**) and diagonal struts (**12**) from the climbing rails (**2**). (Fig. E1.05)
5. Remove the enclosure beam (**14**) from the climbing rails. (Fig. E1.06)
6. Put spacers back in original position, remove any additional spacers.
7. Remove squared timber adapters, lifting eyes and other mounting parts.

- Spacers in climbing rails must be returned to their original position, see Section “C1 Pre-assembly of console brackets” on page 87. Otherwise, if the spacers are displaced or additional spacers are added, this can lead to considerable disruptions in the climbing process during subsequent operations, requiring additional assembly work.
- In the case of rented equipment, PERI may subsequently invoice for the cost of dismantling.
- Non-reusable materials are to be disposed of in a suitable and environmentally-friendly manner.

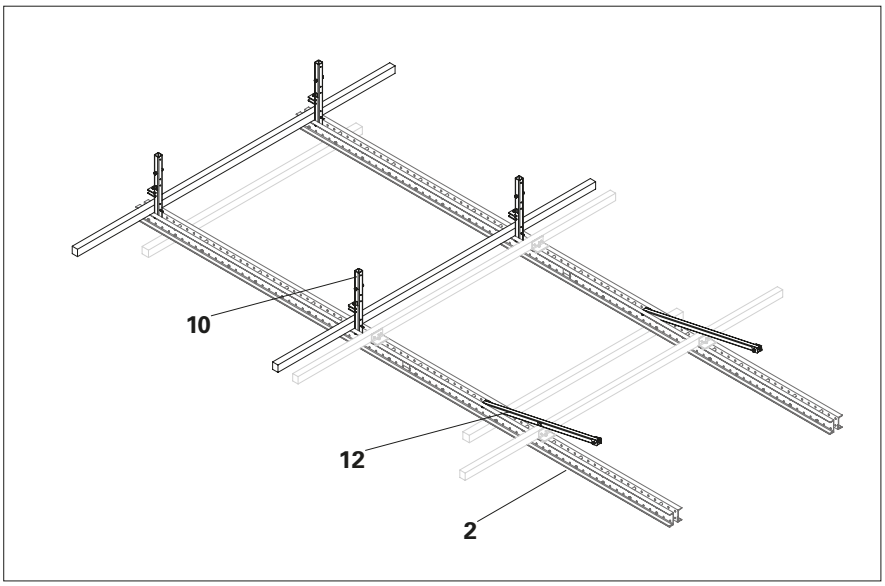


Fig. E1.05

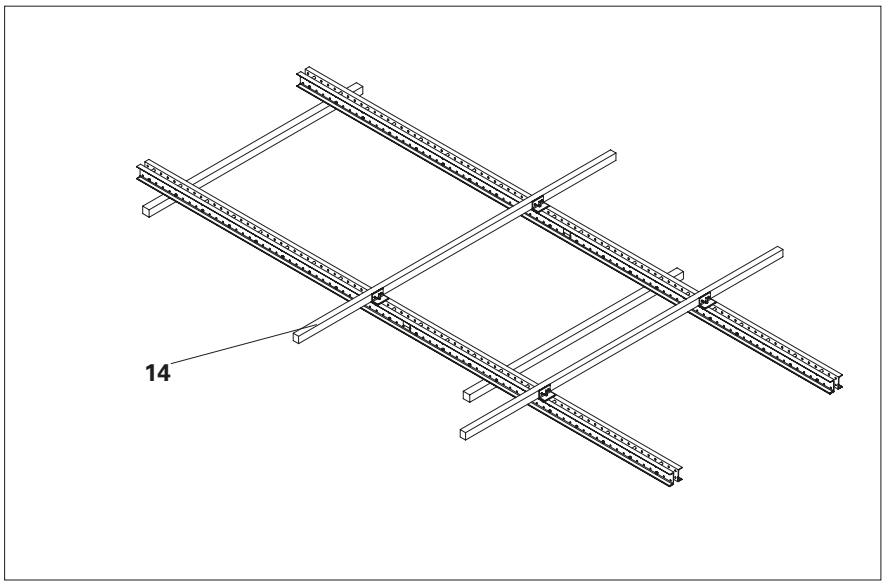
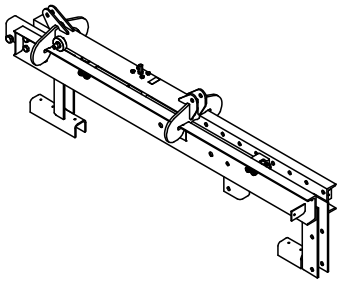
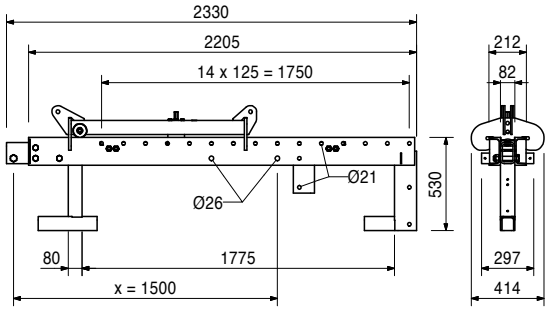


Fig. E1.06

Art no.	Weight [kg]	
118094	159.000	**Crossbeam Head RCS 220 VARIO**

Platform Beam for RCS Climbing Formwork. Assembly unit of Crossbeam RCS 220, Crossbeam Head RCS/VARIO and Carriage RCS.





Accessory (not included)

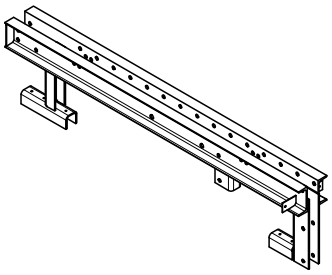
110094	0.895	**Carriage Crank Lever SW19 RCS**
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**
024470	0.008	**Wood Screw 6x60 SK-TX30 HPI**
109720	26.600	**Guardrail Post RCS 226**
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**

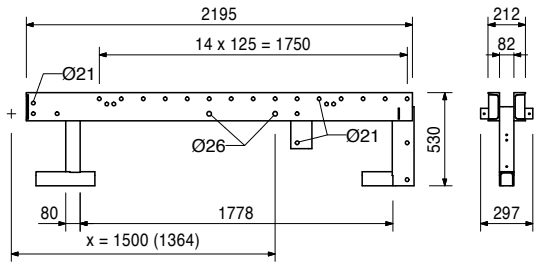
Consists of

109716 Crossbeam U160 RCS 1 pc
110015 Crossbeam Head RCS/VARIO 1 pc
109968 Carriage RCS 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc
104477 Screw ISO4014-M20x120-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc

Art no.	Weight [kg]	
109716	107.000	**Crossbeam U160 RCS**

Spare part.
Platform beam for formwork scaffolding with Carriage RCS.



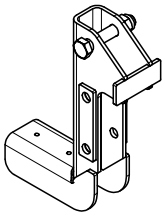


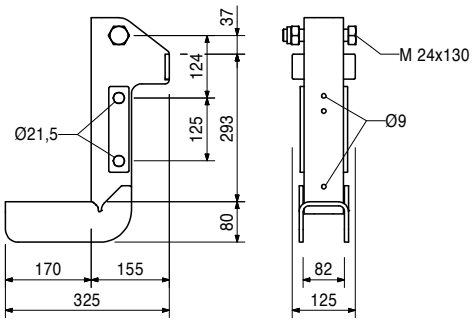
Accessory (not included)

132800	10.900	**Crossbeam Head RCS/VARIO**
110285	8.100	**TRIO Crossbeam Head RCS**
109968	41.500	**Carriage RCS**

Art no.	Weight [kg]	
116477	10.600	**Platform Beam Support RCS**

Support for additional Platform Beams 2 x GT 24 or VT 20 when used with Cross Beam RCS 220. With connector for Guardrail Post RCS.



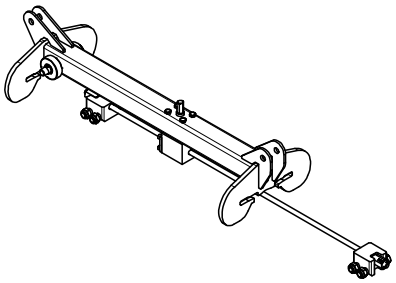


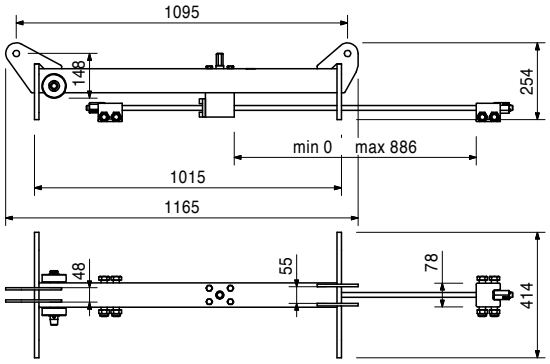
Consists of

109612 Screw ISO4014-M24x130-8.8-ga 1 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc

Art no.	Weight [kg]	
109968	41.500	**Carriage RCS**

Spare part.
Self-locking carriage with roller bearings on the Crossbeam RCS 220. Formwork moveable by max. 88 cm.





Accessory (not included)

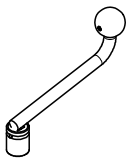
110094	0.895	**Carriage Crank Lever SW19 RCS**

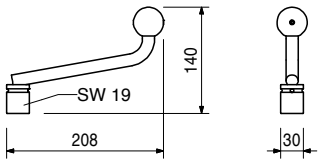
Consists of

104477 Screw ISO4014-M20x120-8.8-ga 4 pc
781053 Hex-Nut ISO7040-M20-8-ga 4 pc

Art no.	Weight [kg]	
110094	0.895	**Carriage Crank Lever SW19 RCS**

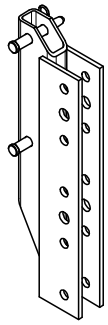
For operating the Carriage RCS.

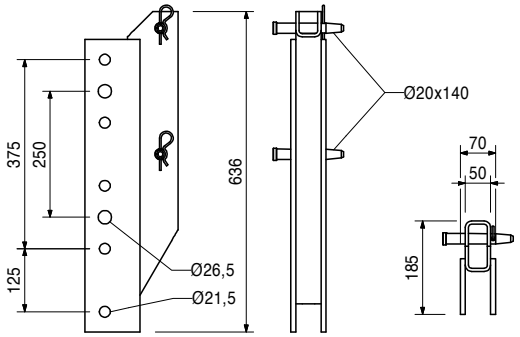




Art no.	Weight [kg]	
115325	16.600	**Strongback Adaptor RCS/SRU**

For mounting the Strongback SRU to the Carriage RCS when used with TRIO Panel Formwork.



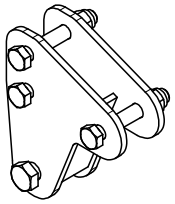


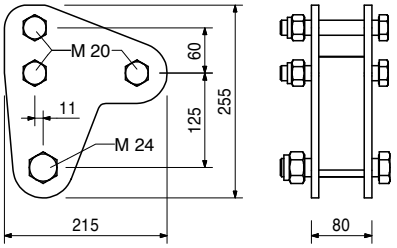
Consists of

105400 Pin Ø20x140mm ga 2 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
110285	8.100	**TRIO Crossbeam Head RCS**

For connecting the Crossbeam RCS 220 to the Climbing Rail RCS when using TRIO Panel Formwork (x = 1364).



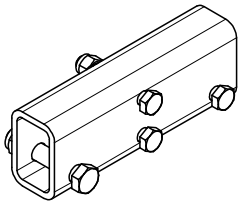


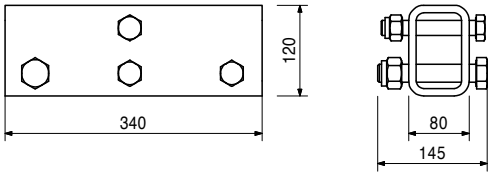
Consists of

109612 Screw ISO4014-M24x130-8.8-ga 1 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc
104477 Screw ISO4014-M20x120-8.8-ga 3 pc
781053 Hex-Nut ISO7040-M20-8-ga 3 pc

Art no.	Weight [kg]	
132800	10.900	**Crossbeam Head RCS/VARIO**

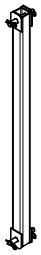
Spare part. For connecting the Crossbeam RCS 220 to the Climbing Rail RCS.

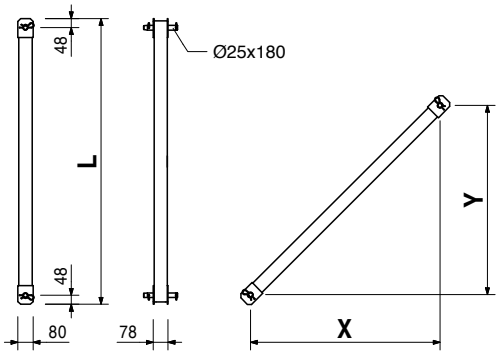




Art no.	Weight [kg]		L [mm]	X [mm]	Y [mm]
		Diagonal Struts RCS			
109718	16.600	**Diagonal Strut RCS 142**	1512	1000	1000
110473	18.300	**Diagonal Strut RCS 160**	1697	1500	1000
110012	23.500	**Diagonal Strut RCS 212**	2217	1500	1500

For bracing RCS framework brackets.



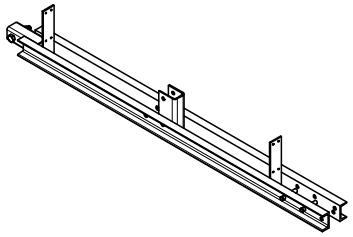


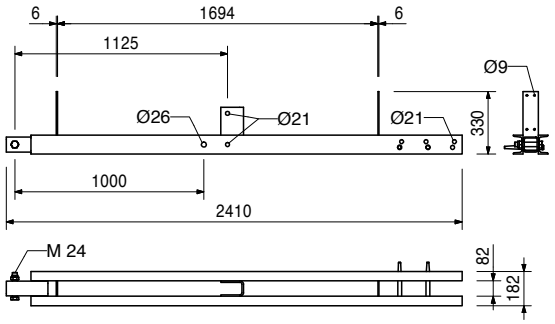
Consists of

710894 Pin Ø25x180mm coat 1 pc
018060 Cotter Pin 4/1 ga 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 2 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc

Art no.	Weight [kg]	
109717	59.300	**Intermediate Platform Beam RCS**

Platform beam for climbing platform.





Accessory (not included)

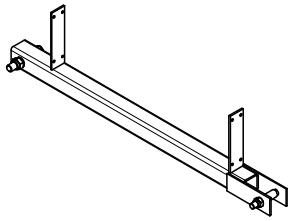
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**

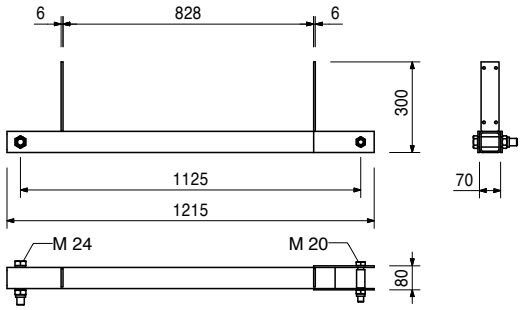
Consists of

104031 Fitting Pin Ø21x120mm 2 pc
018060 Cotter Pin 4/1 ga 2 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc

Art no.	Weight [kg]	
109722	14.200	**Finishing Platform Beam RCS**

Platform beam for finishing platform.





Accessory (not included)

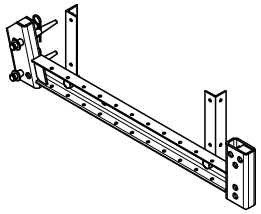
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**

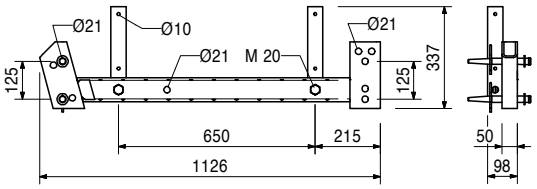
Consists of

104477 Screw ISO4014-M20x120-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc
105032 Hex-Nut ISO7040-M24-8-ga 1 pc

Art no.	Weight [kg]	
114301	17.100	**Platform Beam RCS/SRU 113**

For assembling cantilvered platforms on Steel Walers SRU or Climbing Rails RCS.





Accessory (not included)

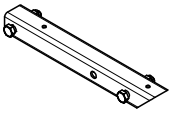
114328	16.600	**Guardrail Post RCS/SRU 184**

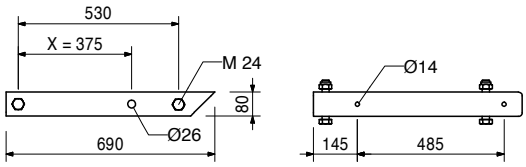
Consists of

104031 Fitting Pin Ø21x120mm 2 pc
022230 Cotter Pin 5/1 ga 2 pc
706458 Screw ISO4017-M20x040-8.8-ga 2 pc
781053 Hex-Nut ISO7040-M20-8-ga 2 pc
706454 Washer ISO7089-20-200HV-ga 2 pc

Art no.	Weight [kg]	
111631	10.100	**Crossbar RCS 69**

As horizontal bar or strut for assembly as Climbing Protection Panel (platform width 1,00 m).





Accessory (not included)

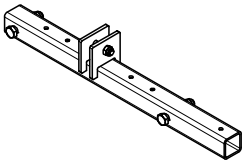
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

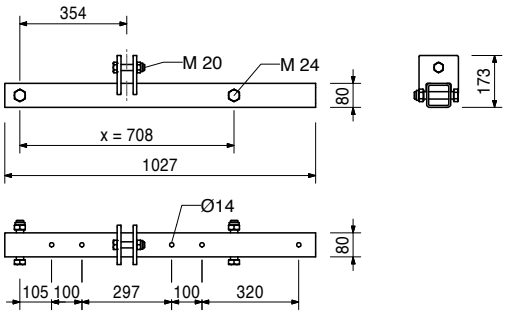
Consists of

109612 Screw ISO4014-M24x130-8.8-ga 2 pc
105032 Hex-Nut ISO7040-M24-8-ga 2 pc

Art no.	Weight [kg]	
110234	18.200	**Crossbar 103 RCS**

As horizontal bar for assembly as Climbing Protection Panel (platform width 1.32 m).
With connection to enclosure girders made of squared timber.





Accessory (not included)

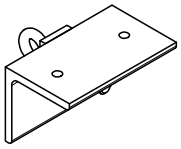
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

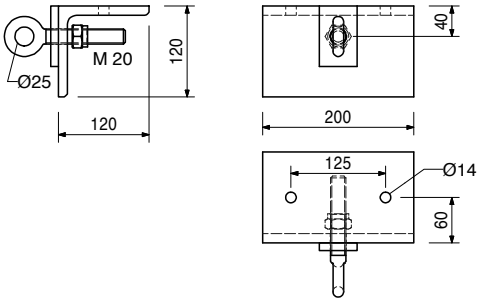
Consists of

710226 Screw ISO4014-M20x090-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 2 pc
105032 Hex-Nut ISO7040-M24-8-ga 2 pc

Art no.	Weight [kg]	
110290	5.030	**Timber Fixation RCS**

For assembly of timbers on the Climbing Rails RCS for use as climbing protection panel.





Accessory (not included)

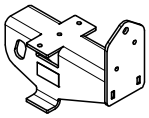
070030	0.015	**Plate Conn. Ø50/12mm single**
018330	0.140	**Screw ISO4016-M12x140-4.6-ga-N**
027340	0.180	**Screw ISO4016-M12x180-4.6-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

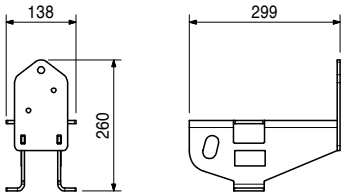
Consists of

110281 Eyebolt M20 right coat 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc

Art no.	Weight [kg]	
126430	4.460	**Adaptor VT 20 / RCS-P**

For mounting a horizontal positioned Girder VT 20 onto the Climbing Profile RCS.



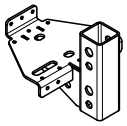


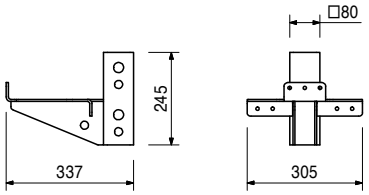
Accessory (not included)

024470	0.008	**Wood Screw 6x60 SK-TX30 HPI**
109612	0.600	**Screw ISO4014-M24x130-8.8-ga**
105032	0.070	**Hex-Nut ISO7040-M24-8-ga**
104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Art no.	Weight [kg]	
128519	6.840	**Enclosure Adaptor RCS Ø26-Ø21**

For the fixation of horizontal Enclosure Girders GT 24 or Climbing Rails profile RCS U200 on vertical Climbing Rails RCS.



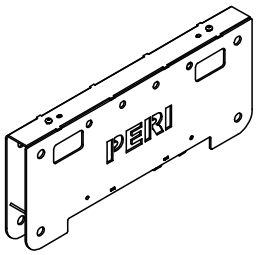


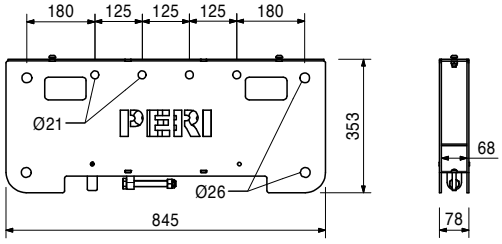
Accessory (not included)

109612	0.600	**Screw ISO4014-M24x130-8.8-ga**
105032	0.070	**Hex-Nut ISO7040-M24-8-ga**
104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Art no.	Weight [kg]	
130219	24.400	**Platform Cantilever Beam RCS**

Bracket for fixing Platform LPS to Climbing Rail RCS.





Accessory (not included)

111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Consists of

125991 Screw ISO7380-M10x025-10.9-ga 1 pc
126248 Castle-Nut DIN935-M16-8-ga 1 pc
126249 Screw ISO4017-M16x130-drilled 1 pc
780356 Hex-Nut ISO7040-M10-8-ga 1 pc
750329 Sleeve ISO8752-05.0x020-coat 1 pc

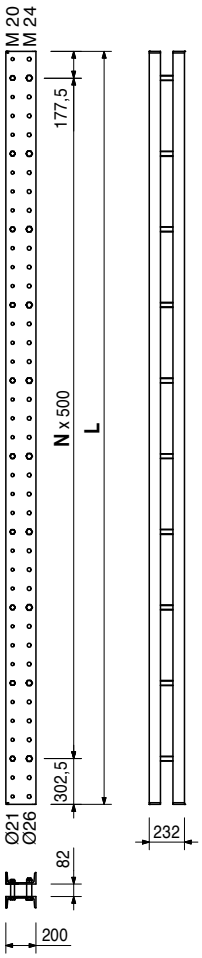
Art no.	Weight [kg]		L [mm]
		Climbing Rails RCS	
114166	78.200	**Climbing Rail RCS 148**	1480
135990	105.000	**Climbing Rail RCS 198**	1980
109469	130.000	**Climbing Rail RCS 248**	2480
112102	156.000	**Climbing Rail RCS 298**	2980
109470	182.000	**Climbing Rail RCS 348**	3480
112141	209.000	**Climbing Rail RCS 398**	3980
109471	262.000	**Climbing Rail RCS 498**	4980
109472	393.000	**Climbing Rail RCS 748**	7480
109610	524.000	**Climbing Rail RCS 998**	9980

Steel profile for all-purpose use of climbing application or civil constructions.
With Spacers M20x82mm and M24x82mm.

Notes

Wy = 357.6 cm³, Iy = 3576 cm⁴.



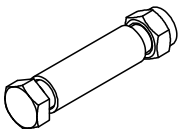


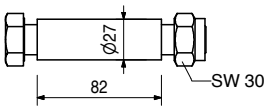
Accessory (not included)

136109 Pin Set RCS MAX

Art no.	Weight [kg]	
110022	0.491	**Spacer M20x82mm**

Spacer for Climbing Rails RCS.



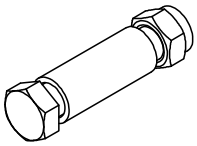


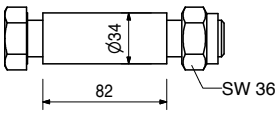
Consists of

104477 Screw ISO4014-M20x120-8.8-ga 1 pc
130341 Hex-Nut ISO7042-M20-8-ga 1 pc

Art no.	Weight [kg]	
110023	0.910	**Spacer M24x82mm**

Spacer for Climbing Rails RCS.



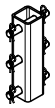


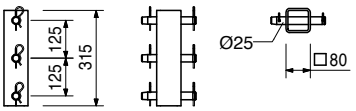
Consists of

109612 Screw ISO4014-M24x130-8.8-ga 1 pc
130342 Hex-Nut ISO7042-M24-8-ga 1 pc

Art no.	Weight [kg]	
109743	6.370	**Climbing Rail Conn. RCS 32**

For an articulated connection of Climbing Rails RCS.



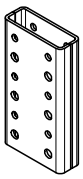


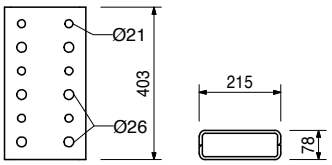
Consists of

710894 Pin Ø25x180mm coat 3 pc
018060 Cotter Pin 4/1 ga 6 pc

Art no.	Weight [kg]	
111833	12.700	**Climbing Rail Conn. RCS 40**

For an articulated connection or doubling of the RCS Climbing Rails.



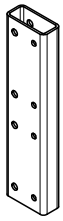


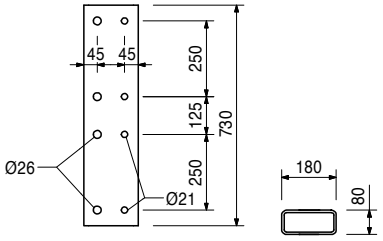
Accessory (not included)

104031	Fitting Pin Ø21x120mm
018060	Cotter Pin 4/1 ga
111567	Fitting Pin Ø26x120mm
022230	Cotter Pin 5/1 ga

Art no.	Weight [kg]	
113744	21.000	**Climbing Rail Conn. RCS 73**

For rigid connection of Climbing Rails RCS. Perm. bending moment limited.



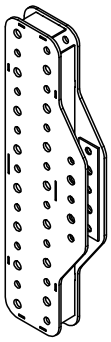


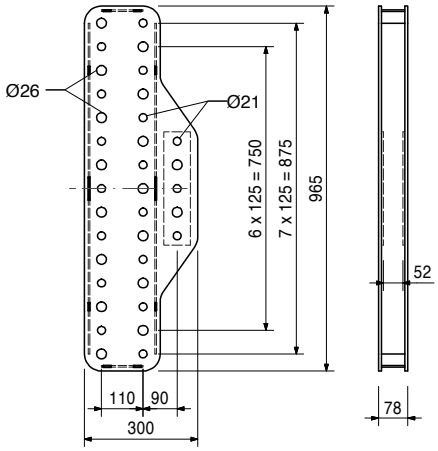
Accessory (not included)

104031 Fitting Pin Ø21x120mm
018060 Cotter Pin 4/1 ga
111567 Fitting Pin Ø26x120mm
022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
111390	32.800	**Climbing Rail Conn. RCS 97**

For rigidly connecting the Climbing Rails RCS. With connection for the Heavy-Duty Spindles SLS.



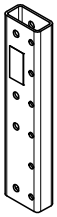


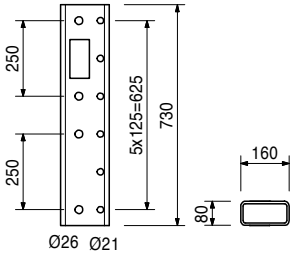
Accessory (not included)

104031 Fitting Pin Ø21x120mm
018060 Cotter Pin 4/1 ga
111567 Fitting Pin Ø26x120mm
022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
128671	19.100	**Climbing Rail Conn. RCS/LPS 73**

For height extension of Climbing Rails RCS in combination with Screen Elements LPS.



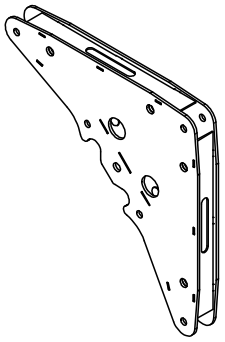


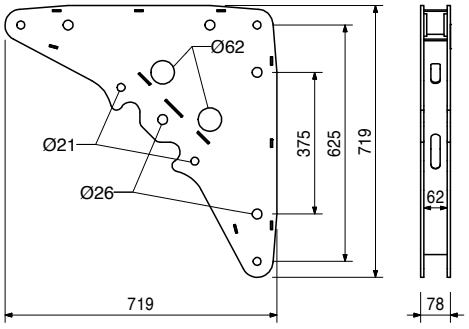
Accessory (not included)

127875 Screen Support LPS M20

Art no.	Weight [kg]	
111382	35.200	**Climbing Rail Angle Conn. RCS**

For rigidly connecting the Climbing Rails RCS at right-angles, for frame construction or as bracket. With connection for the Heavy-Duty Spindle SLS and Tie Rod Cylinder Yoke SRU.



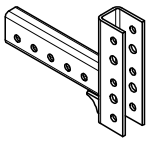


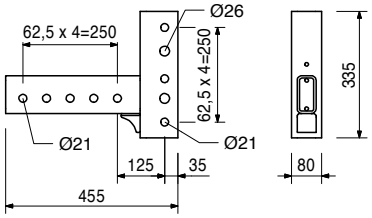
Accessory (not included)

104031	Fitting Pin Ø21x120mm
018060	Cotter Pin 4/1 ga
111567	Fitting Pin Ø26x120mm
022230	Cotter Pin 5/1 ga
110755	Tie Yoke SRU

Art no.	Weight [kg]	
111283	9.950	**Angle Connector RCS/SRU**

For right-angled connection of Steel Walers SRU to the Climbing Rails RCS and for attaching guardrail posts to Steel Walers SRU.



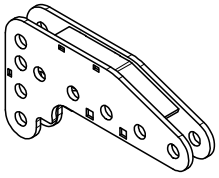


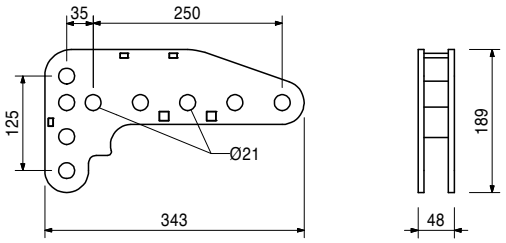
Accessory (not included)

104031	Fitting Pin Ø21x120mm
018060	Cotter Pin 4/1 ga
111567	Fitting Pin Ø26x120mm
022230	Cotter Pin 5/1 ga

Art no.	Weight [kg]	
115623	5.040	**Corner Connector SRU VARIOKIT**

For a rigid connection of Steel Walers SRU.



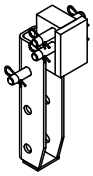


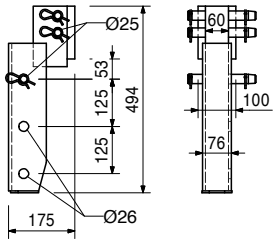
Accessory (not included)

104031	Fitting Pin Ø21x120mm
018060	Cotter Pin 4/1 ga

Art no.	Weight [kg]	
110569	16.700	**Climbing Rail Hinge RCS**

For an articulated connection of the Climbing Rails RCS and as pressure point on the RCS Climbing Brackets.



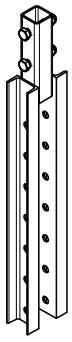


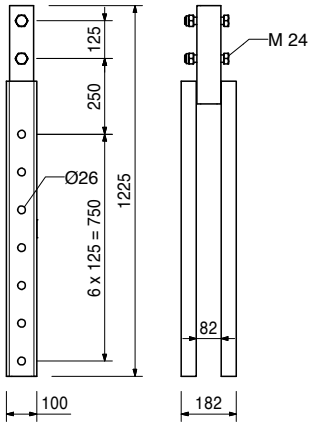
Consists of

710894 Pin Ø25x180mm coat 3 pc
018060 Cotter Pin 4/1 ga 4 pc

Art no.	Weight [kg]	
109791	25.900	**Climbing Rail Extens. RCS 100**

As extension of the Climbing Rail RCS or Drive Rail RCS MAX for connecting the finishing platform.



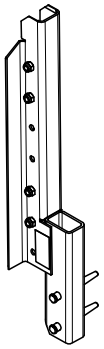


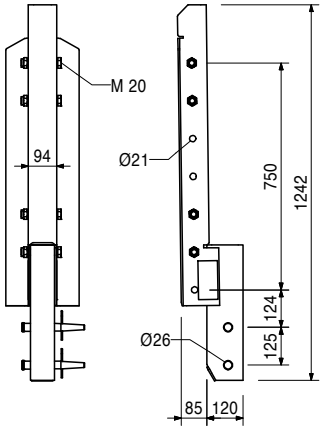
Consists of

109612 Screw ISO4014-M24x130-8.8-ga 2 pc
105032 Hex-Nut ISO7040-M24-8-ga 2 pc

Art no.	Weight [kg]	
113745	30.200	**Climbing Rail Extens. RCS 125**

For extending the Climbing Rail RCS and using the Climbing Device RCS 50 on the working platform.



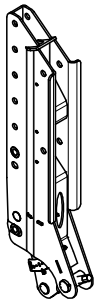


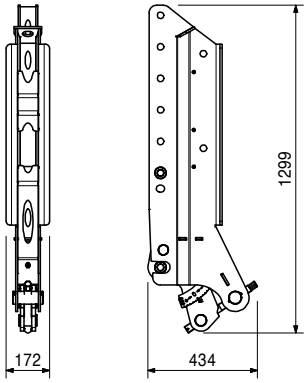
Consists of

110022 Spacer M20x82mm 4 pc
111567 Fitting Pin Ø26x120mm 2 pc
022230 Cotter Pin 5/1 ga 2 pc

Art no.	Weight [kg]	
136108	66.100	**Incline Connector RCS CL MAX**

For connecting Climbing Rail RCS to Drive Rail RCS CL MAX and for adjusting the angle of inclination during climbing.





Accessory (not included)

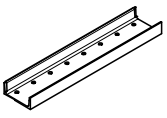
021790	Combi Ratchet Spanner SW24
111567	Fitting Pin Ø26x120mm
022230	Cotter Pin 5/1 ga

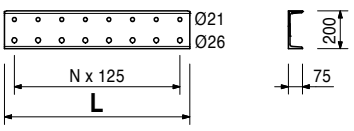
Consists of

136311 Tension Bolt TR right coat 1 pc
722583 Sleeve ISO8751-06.0x028-coat 1 pc
136310 Tension Bolt TR left coat 1 pc
136309 Tension Spindle TR coat 1 pc
722217 Sleeve ISO8752-06.0x060-coat 2 pc
136312 Inclination Indicator coat 1 pc
780356 Hex-Nut ISO7040-M10-8-ga 1 pc
118533 Screw ISO4017-M10x030-8.8-ga 1 pc

Art no.	Weight [kg]		L [mm]
		Climbing Rail Profiles RCS	
117585	24.300	**Climbing Rail Profile RCS 98**	980
116478	37.000	**Climbing Rail Profile RCS 148**	1480
116479	61.500	**Climbing Rail Profile RCS 248**	2480
112150	73.900	**Climbing Rail Profile RCS 298**	2980
116480	86.300	**Climbing Rail Profile RCS 348**	3480
113705	98.700	**Climbing Rail Profile RCS 398**	3980
116481	124.000	**Climbing Rail Profile RCS 498**	4980
116482	186.000	**Climbing Rail Profile RCS 748**	7480
116483	248.000	**Climbing Rail Profile RCS 998**	9980

Steel profile for all-purpose use of climbing application or civil constructions. Single profile.



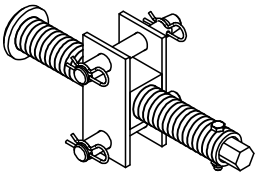


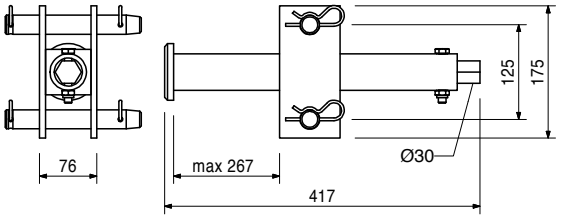
Accessory (not included)

110022	Spacer M20x82mm
110023	Spacer M24x82mm

Art no.	Weight [kg]	
110000	7.540	**Spindle Compression Point RCS**

The Spindle Pressure Point RCS is used to support the RCS Climbing Rail. For this purpose, the Spindle Pressure Point RCS is bolted between the two profiles of the RCS Climbing Rail.



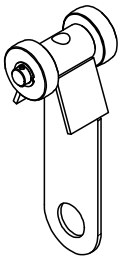


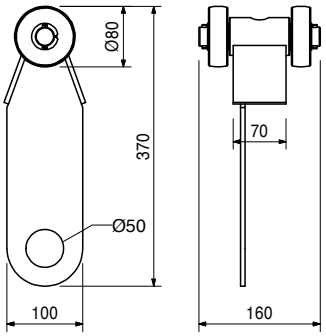
Art no.	Weight [kg]	
111403	4.840	**Mounting Castor Climb Rail RCS**

For mounting and moving formwork elements on horizontally-positioned Climbing Rails RCS.

Notes

Permissible load-bearing capacity 1.5 t.



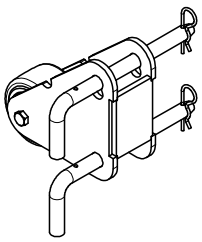


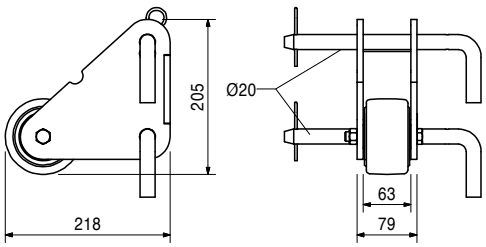
Art no.	Weight [kg]	
116469	5.920	**Heavy Duty Castor RCS 1.5t**

For assembling in Climbing Rails RCS, foldable.

Notes

Permissible load-bearing capacity 1.5 t.



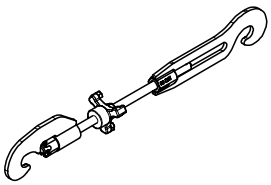


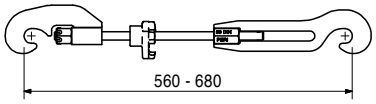
Consists of

113012 Locking Pin Ø20x260mm coat 2 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
114317	3.210	**Guide-in Tool RCS**

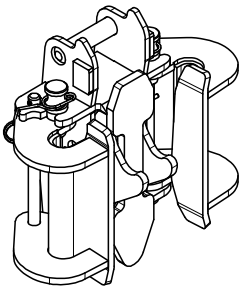
For pulling up the Climbing Rail RCS in order to close the folding runners of the Climbing Shoe.

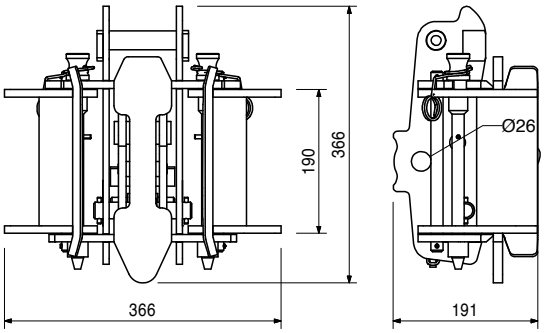




Art no.	Weight [kg]	
109468	19.800	**Climbing Shoe RCS**

Guide and support for Climbing Rail RCS. With foldable leading runners and self-actuating bearing pawl.





Accessory (not included)

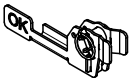
135962 Visual Aid Climbing Shoe RCS

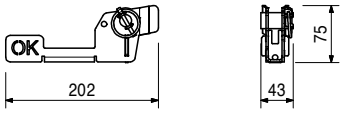
Consists of

116067 Climbing Shoe Lock RCS 2 pc
109902 Locking Pin Ø30x290mm coat 2 pc
711063 Sleeve ISO8752-05.0x035-coat 4 pc
109508 Bolt Ø16x239mm coat 2 pc
750329 Sleeve ISO8752-05.0x020-coat 4 pc
109903 Spring Lock 1 pc

Art no.	Weight [kg]	
135962	0.379	**Visual Aid Climbing Shoe RCS**

Used to indicate the switching position of the Climbing Pawl in the Climbing Shoe RCS.





Accessory (not included)

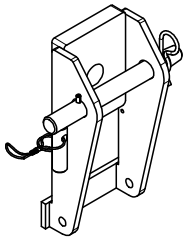
109468 Climbing Shoe RCS

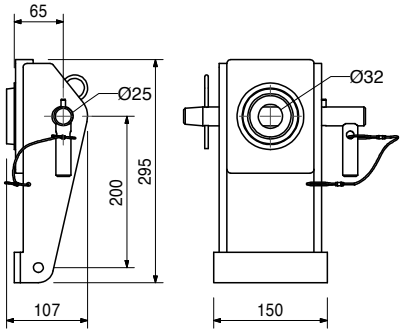
Consists of

126908 Screw ISO4014-M08x045-8.8-ga 1 pc
711071 Hex-Nut ISO7040-M08-8-ga 1 pc

Art no.	Weight [kg]	
109503	7.380	**Wall Shoe RCS**

Anchor System M30. For anchoring Climbing Shoe RCS to the wall.





Accessory (not included)

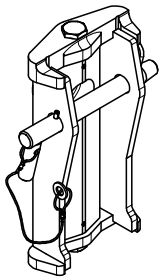
029420 Screw ISO4017-M30x070-8.8-ga

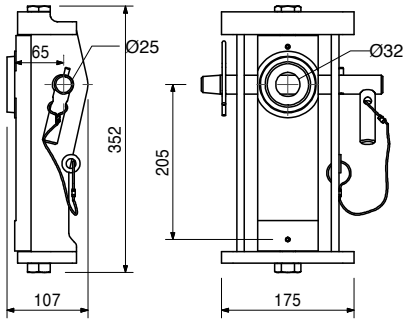
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
110667	13.700	**Wall Shoe RCS privoted**

Anchor System M30. For anchoring Climbing Shoe RCS to circular walls. Swivel range ± 15°.





Accessory (not included)

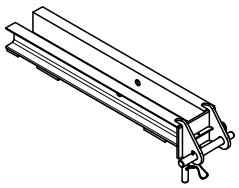
113007 Screw ISO4762-M30x070-8.8-ga

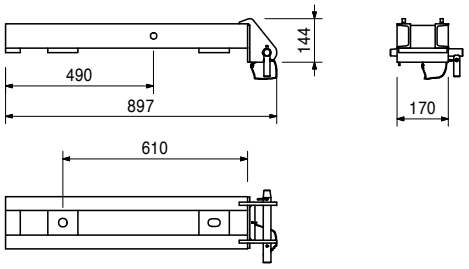
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
109567	20.200	**Slab Shoe RCS**

Anchor System M24. For mounting Climbing Shoe RCS to slab edges.



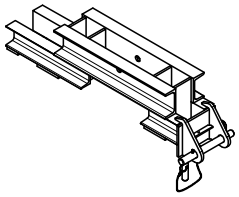


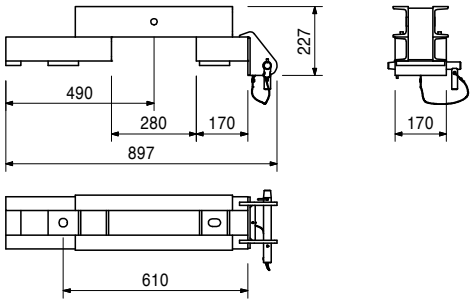
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
110375	30.800	**Climbing Shoe RCS Corner**

Anchor System M24. For mounting Climbing Shoe RCS to the corners of slab edges.



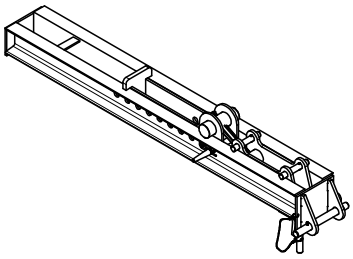


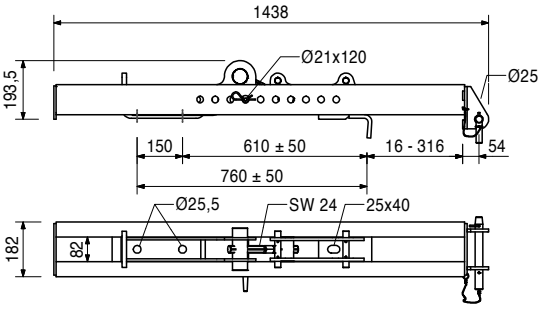
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
115570	54.400	**Slab Shoe RCS 30 adjustable**

Anchor System M24. For mounting the Climbing Shoe RCS to slab edges. Offset up to 30 cm. Anchor distance variable 61 ± 5 cm or 76 ± 5 cm.



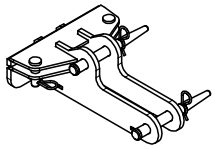


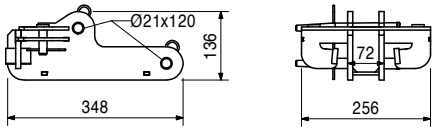
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
104031 Fitting Pin Ø21x120mm 1 pc
022230 Cotter Pin 5/1 ga 2 pc

Art no.	Weight [kg]	
115918	9.380	**Slab Shoe Adaptor RCS/AV/SLS**

Mounted on the Slab Shoe RCS and serves for connecting Kicker AV or SLS Spindles and Bracing DW15.



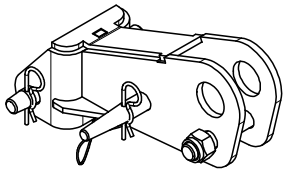


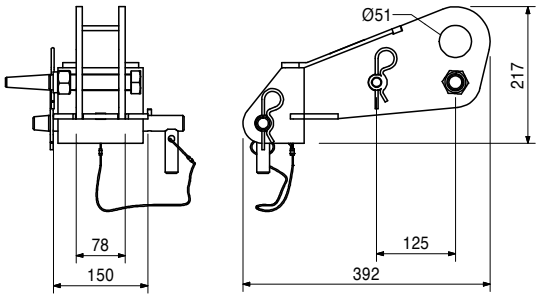
Consists of

104031 Fitting Pin Ø21x120mm 2 pc
027170 Pin Ø16x42mm ga 2 pc
018060 Cotter Pin 4/1 ga 4 pc

Art no.	Weight [kg]	
115850	11.200	**Slab Support Adaptor RCS**

For attaching the Climbing Shoe RCS to a slab support with horizontal Climbing Rail RCS.



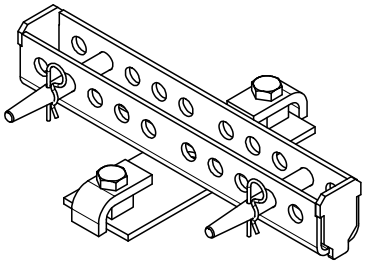


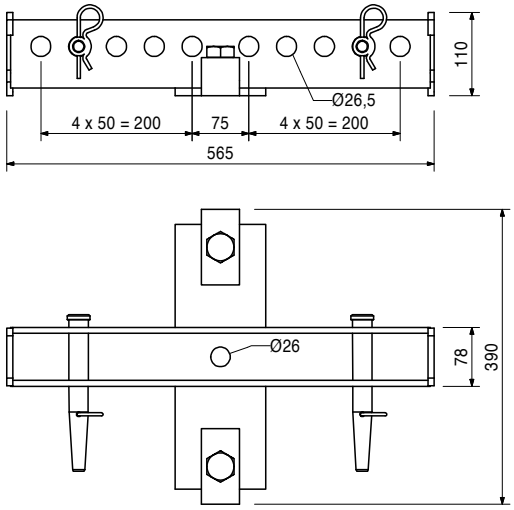
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
111567 Fitting Pin Ø26x120mm 1 pc
022230 Cotter Pin 5/1 ga 2 pc

Art no.	Weight [kg]	
112359	15.000	**Slab Supp. Anchor Shoe RCS M24**

Anchor System M24. For anchoring the slab support with horizontal Climbing Rail RCS.





Accessory (not included)

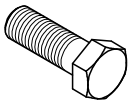
026430 Screw ISO4014-M24x070-10.9

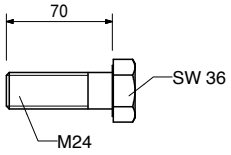
Consists of

111567 Fitting Pin Ø26x120mm 2 pc
022230 Cotter Pin 5/1 ga 2 pc
026290 Screw ISO4017-M24x050-10.9 2 pc

Art no.	Weight [kg]		L [mm]
026430	0.334	**Screw ISO4014-M24x070-10.9**	70

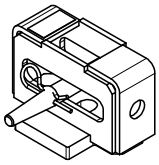
High-strength bolt for anchoring climbing systems.

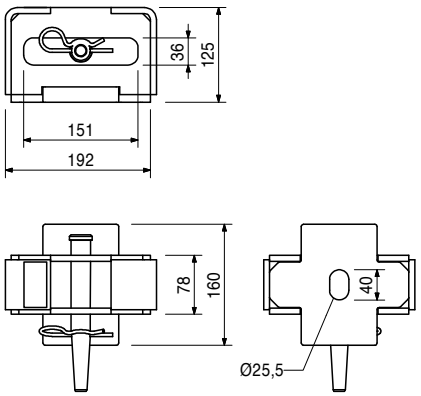




Art no.	Weight [kg]	
116538	6.900	**Slab Supp. Alignment Shoe RCS**

As compression point and for alignment of the slab support with horizontal Climbing Rail RCS. Fixation with the Anchor Bolt Ø14/20x130mm or the anchor system M24.





Accessory (not included)

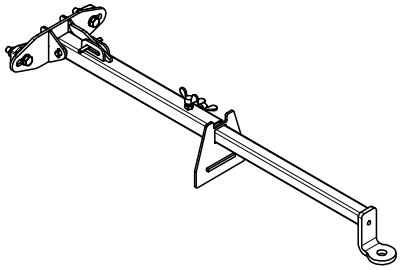
124777 Anchor Bolt SW24 Ø14/20x130mm

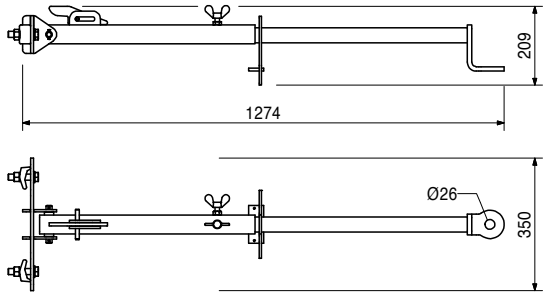
Consists of

111567 Fitting Pin Ø26x120mm 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
114947	12.600	**Slab Anchor Template RCS 61**

For positioning the Advancing Bolt M24 for the Slab Shoe RCS. Fixed on the stopend formwork.





Accessory (not included)

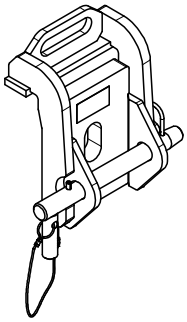
029270 Advancing Screw M24 ga

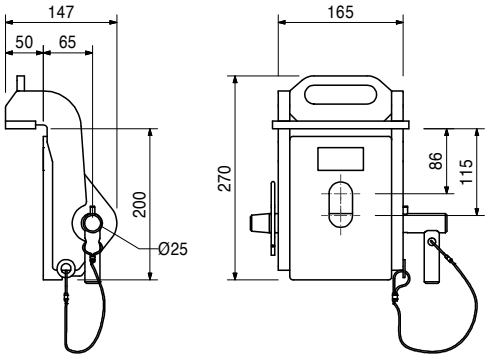
Consists of

115112 Screw DIN316-M12x25-GT-ga 1 pc
714093 Screw ISO4014-M16x070-8.8-ga 1 pc
710229 Hex-Nut ISO4032-M16-8-ga 1 pc
711074 Washer ISO7089-16-200HV-ga 1 pc
112815 Clamping Plate M16 Nova Grip 1 pc

Art no.	Weight [kg]	
113232	10.500	**Stopend Slab Shoe RCS M30**

Anchor System M30. For anchoring the Climbing Shoe RCS at the front end of the slab. With the Reduction Bush Ø30–Ø25, Item no. 113822, also usable with Anchor System M24.





Accessory (not included)

029420 Screw ISO4017-M30x070-8.8-ga

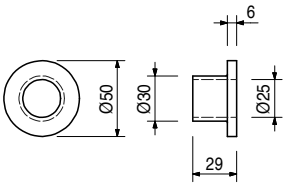
Consists of

113247 Locking Pin Ø25x260mm comp 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
113822	0.108	**Reducing Sleeve Ø30-Ø25**

For using Stopend Slab Anchor M24/20-128 on the Stopend Slab Shoe RCS.



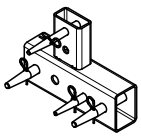


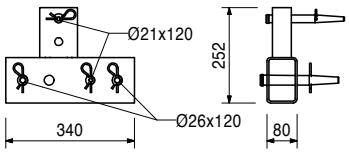
Accessory (not included)

026430 Screw ISO4014-M24x070-10.9

Art no.	Weight [kg]	
117763	8.570	**Head Adaptor RCS/SRU**

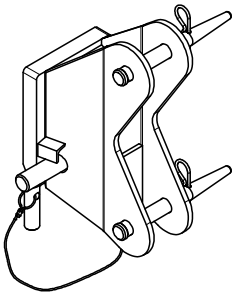
For vertical connection of Steel Ledger SRU to Climbing Rail RCS.

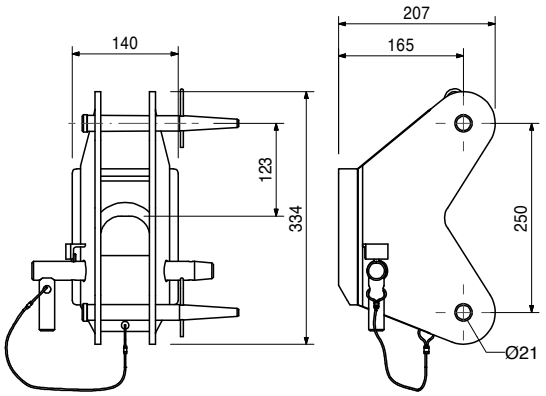




Art no.	Weight [kg]	
110315	11.000	**Mounting Ring Adapter RCS M30**

For suspension with Scaffold Mounting Ring M30 during use as unguided climbing formwork.





Accessory (not included)

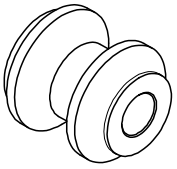
029480 Scaff. Mount. Ring M30 ga

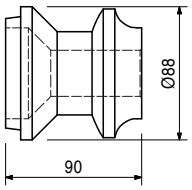
Consists of

715585 Lock.PinØ25x240mm SKS 150 coat 1 pc
104031 Fitting Pin Ø21x120mm 2 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
029480	1.830	**Scaff. Mount. Ring M30 ga**

Anchor system M30. For anchoring climbing systems.





Accessory (not included)

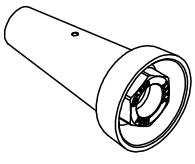
029540 Screw ISO4014-M30x130-10.9

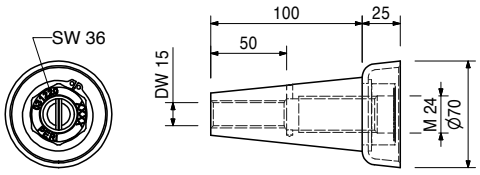
Art no.	Weight [kg]	
031220	1.050	**Climbing Cone-2 DW15 M24 ga**

Anchor System M24. For anchoring climbing systems.

Notes

Seperate design information on request.





Accessory (not included)

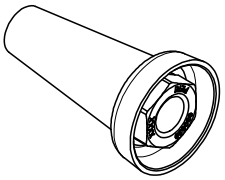
030840 Threaded Anchor Plate DW15
030030 Tie Rod DW15 spec. Length
030740 Tie Rod B15 spec. Length

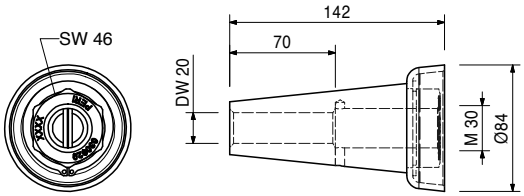
Art no.	Weight [kg]	
030920	1.650	**Climbing Cone-2 DW20 M30 ga**

Anchor System M30. For anchoring climbing systems.

Notes

Separate Design Information on request.





Accessory (not included)

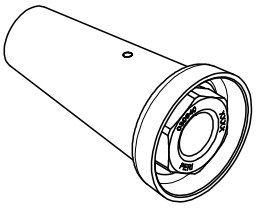
030860 Threaded Anchor Plate DW20
030700 Tie Rod DW20 spec. Length
030745 Tie Rod B20 spec. Length

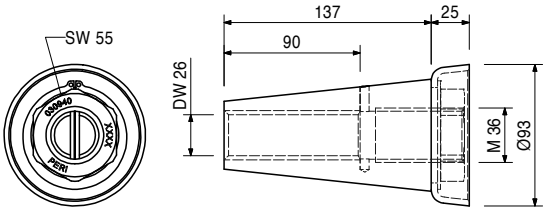
Art no.	Weight [kg]	
030940	2.980	**Climbing Cone-2 DW26 M36 ga**

Tie System M36. For anchoring of climbing systems.

Notes

Separate Design Information on request.





Accessory (not included)

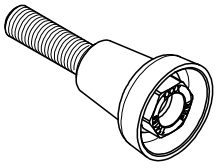
030870 Threaded Anchor Plate DW26
030340 Tie Rod DW26 spec. Length
029430 Screw ISO4017-M36x070-8.8-ga

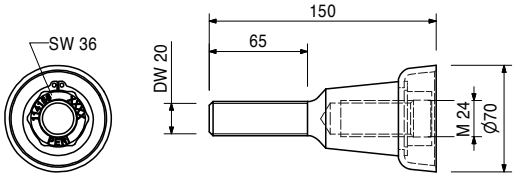
Art no.	Weight [kg]	
114158	1.030	**Screw-On Cone-2 DW20 M24 ga**

Anchor System M24. For anchoring climbing systems.

Notes

Seperate Design Information on request.





Accessory (not included)

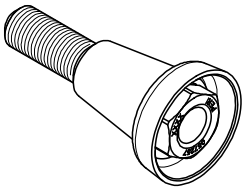
030860 Threaded Anchor Plate DW20

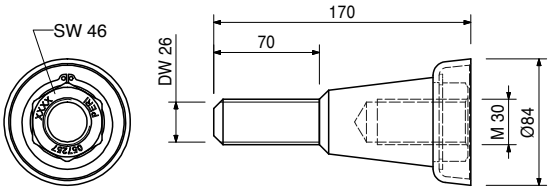
Art no.	Weight [kg]	
057257	1.810	**Screw-On Cone DW26 M30**

Anchor System M30. For anchoring climbing systems.

Notes

Separate Design Information on request.





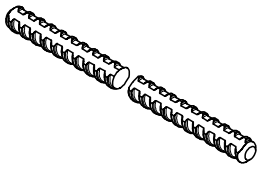
Accessory (not included)

030870 Threaded Anchor Plate DW26

Art no.	Weight [kg]	
		Tie Rods DW 15
030030	1.440	**Tie Rod DW15 spec. Length**
030720	4.320	**Tie Rod DW15 3m**
030730	5.040	**Tie Rod DW15 3.5m**
030160	8.640	**Tie Rod DW15 6m**
030050	0.000	**Cutting Cost DW15/B15**
030005	0.720	**Tie Rod DW15 0.5m**
030010	1.230	**Tie Rod DW15 0.85m**
030480	1.440	**Tie Rod DW15 1m**
030490	1.730	**Tie Rod DW15 1.2m**
030170	2.160	**Tie Rod DW15 1.5m**
030020	2.450	**Tie Rod DW15 1.7m**
030180	2.880	**Tie Rod DW15 2m**
030710	3.600	**Tie Rod DW15 2.5m**

Notes

Non-weldable! Observe Approval! Permissible tension force 90 kN.

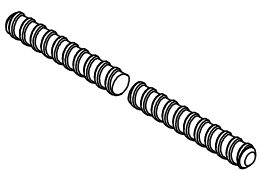




Art no.	Weight [kg]	
		Tie Rods B15
030740	1.550	**Tie Rod B15 spec. Length**
030050	0.000	**Cutting Cost DW15/B15**
030150	0.420	**Tie Rod B15 0.30m**

Notes

Weldable! Observe Approval! Permissible tension force 85 kN.

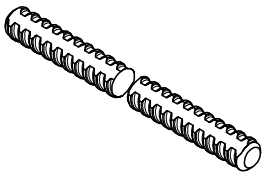




Art no.	Weight [kg]	
		Tie Rods DW 20
030700	2.560	**Tie Rod DW20 spec. Length**
030640	1.280	**Tie Rod DW20 0.5m**
030641	2.560	**Tie Rod DW20 1m**
030680	15.400	**Tie Rod DW20 6m**
030800	0.000	**Cutting Costs DW20/B20**

Notes

Non-weldable! Observe Approval! Permissible tension force 150 kN.

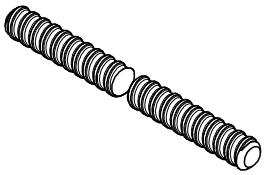




Art no.	Weight [kg]	
		Tie Rods B20
030745	2.600	**Tie Rod B20 spec. Length**
030800	0.000	**Cutting Costs DW20/B20**

Notes

Weldable! Take official Approval into consideration! Permissible tension force 150 kN.

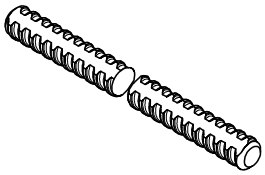




Art no.	Weight [kg]	
		Tie Rods DW26
030340	4.480	**Tie Rod DW26 spec. Length**
030645	2.240	**Tie Rod DW26 0.5m**
030646	4.480	**Tie Rod DW26 1m**
030500	0.000	**Cutting Costs DW26**

Notes

Non-weldable! Take official approval into consideration! Permissible tension force 250 kN.



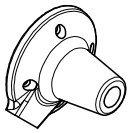


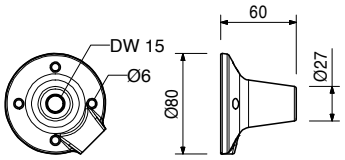
Art no.	Weight [kg]	
030840	0.515	**Threaded Anchor Plate DW15**

For use with Tie Rod DW15 or B15. For anchoring in concrete.

Notes

Lost anchor part.



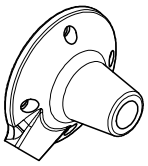


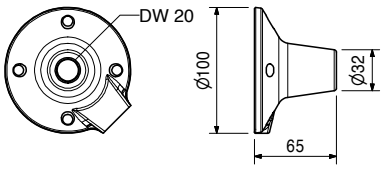
Art no.	Weight [kg]	
030860	0.792	**Threaded Anchor Plate DW20**

For use with Tie Rod DW20, B20 or Screw-On Cone-2 M24/DW20. For anchoring in concrete.

Notes

Lost anchor part.



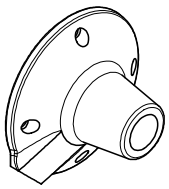


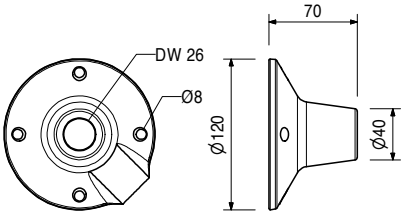
Art no.	Weight [kg]	
030870	1.260	**Threaded Anchor Plate DW26**

For use with Tie Rod DW26 or Screw-On Cone M36/DW26. For anchoring in concrete.

Notes

Lost anchor part.



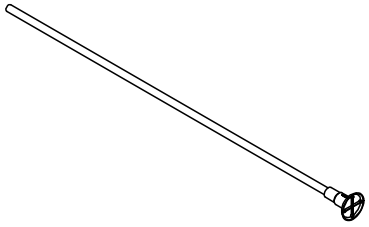


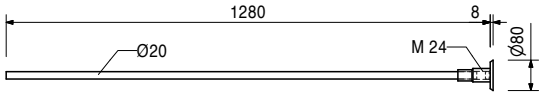
Art no.	Weight [kg]	
113820	3.450	**Stopend Slab Anchor M24/20-128**

Anchor System M24 or M30. For transferring clear tension forces into the slab with the use of Slab Stopend Shoe RCS. Inclusive Positioning Plate M24 (grey) or M30 (red).

Notes

Separate design information on request.



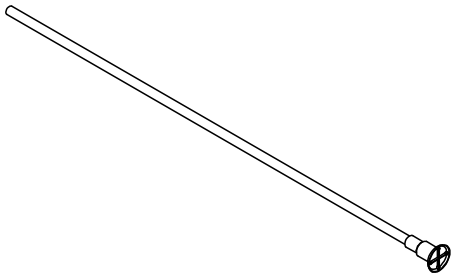


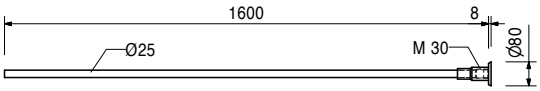
Art no.	Weight [kg]	
113821	6.700	**Stopend Slab Anchor M30/25-160**

Tie System M24 or M30. For transferring clear tension forces into the slab with the use of Front Slab Shoe RCS. With Steckteller M24 (grey) and M30 (red).

Notes

Permissible load: see PERI product information.



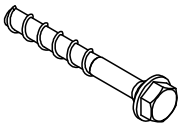


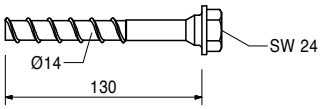
Art no.	Weight [kg]	
124777	0.210	**Anchor Bolt SW24 Ø14/20x130mm**

For temporary attachment to reinforced concrete components.

Notes

Take the PERI Data Sheet into consideration!
Hole Ø 14 mm.



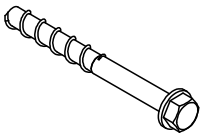


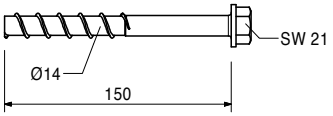
Art no.	Weight [kg]	
132889	0.213	**Anchor Bolt SW21 Ø14x150mm**

For temporary attachment to reinforced concrete components.

Notes

Take the PERI Data Sheet into consideration!
Drill hole Ø 14 mm.



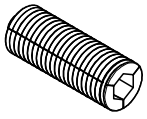


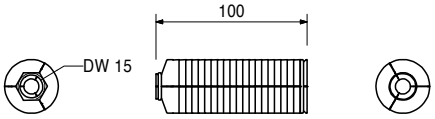
Art no.	Weight [kg]	
108795	0.450	**Rock Anchor HB DW15**

For subsequent anchoring with Tie Rods DW15.

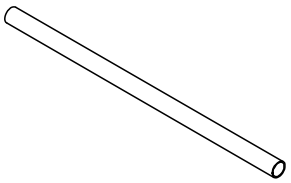
Notes

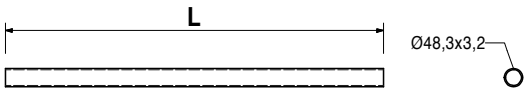
Follow Instructions for Use!
Permissible load 90 kN.
Drill hole Ø = 36,5 - 38 mm.





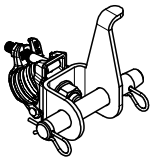
Art no.	Weight [kg]		L [mm]
		Scaff. Tubes 48.3x3.2mm ga	
026417	0.000	**Cutting Costs Scaffold Tube**	1
125976	8.900	**Scaff. Tube 48,3x3,2mm 2,5m ga**	2500
114287	12.500	**Scaff. Tube 48,3x3,2mm 3,5m ga**	3500
026411	3.550	**Scaff. Tube 48.3x3.2mm 1m ga**	1000
026412	7.100	**Scaff. Tube 48.3x3.2mm 2m ga**	2000
026413	10.650	**Scaff. Tube 48.3x3.2mm 3m ga**	3000
026414	14.200	**Scaff. Tube 48.3x3.2mm 4m ga**	4000
026419	17.750	**Scaff. Tube 48.3x3.2mm 5m ga**	5000
026418	21.600	**Scaff. Tube 48.3x3.2mm 6m ga**	6000
026415	3.550	**Scaff. Tube 48.3x3.2mm lfm ga**	1000

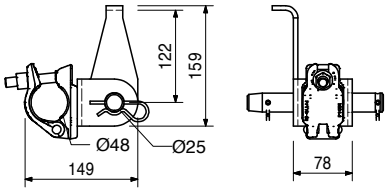




Art no.	Weight [kg]	
110084	2.510	**Scaff. Tube Holder RCS Ø48mm**

For connecting Scaffold Tubes Ø 48 mm to Climbing Rails RCS.



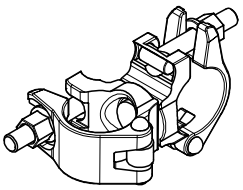


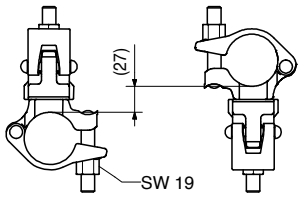
Consists of

017040 Screw-On Coupler DK 48 ga 1 pc
710894 Pin Ø25x180mm coat 1 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
017010	1.400	**Swivel Coupler SW Ø48/48mm ga**

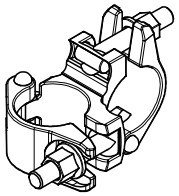
For Scaffold Tubes Ø 48 mm.

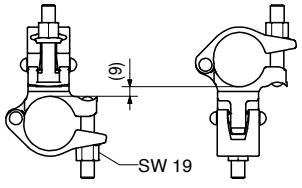




Art no.	Weight [kg]	
017020	1.120	**Standard Coupl. RA Ø48/48mm ga**

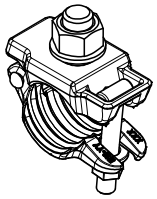
For Scaffold Tubes Ø 48 mm.

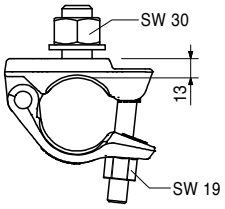




Art no.	Weight [kg]	
131404	1.080	**Screw-On Cou.-2 HT B Ø48mm M20**

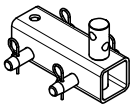
For screwing Scaffold Tubes Ø 48 mm to components up to 9 mm thickness.

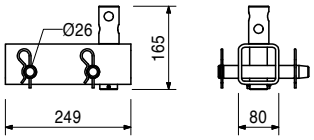




Art no.	Weight [kg]	
123534	5.910	**Brace Connector RCS/DW15-M20**

For mounting diagonal bracing with Tie Rod DW15 and a compression strut to the Climbing Rail RCS.

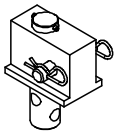


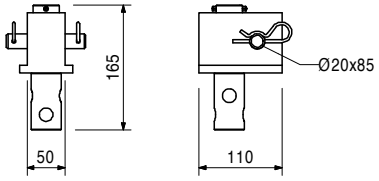


Consists of

710894 Pin Ø25x180mm coat 2 pc
018060 Cotter Pin 4/1 ga 4 pc

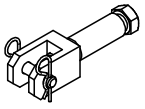
Art no.	Weight [kg]	
117766	4.450	**Brace Connector SRU/DW15**

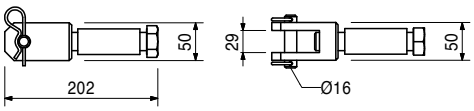




Art no.	Weight [kg]	
115626	1.880	**Kicker Connector RCS M24**

Bolted in holes Ø 26 of the Climbing Rail RCS.Serves for connecting Kicker AV or Bracing DW15.





Consists of

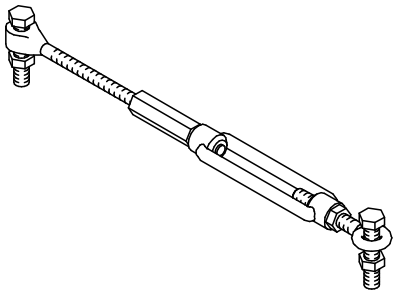
115916 Bolt Ø16x70mm coat 1 pc
018060 Cotter Pin 4/1 ga 2 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc

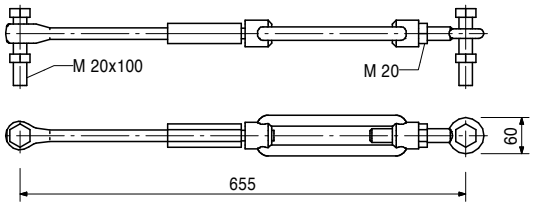
Art no.	Weight [kg]	
057083	3.820	**Bracing ACS DW15**

For bracing scaffolds. For bracing large VARIO GT 24 Elements.

Notes

Tie Rod DW15 must be ordered seperately. Transport dimension 655 mm.





Accessory (not included)

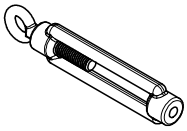
030030	1.440	**Tie Rod DW15 spec. Length**
030050	0.000	**Cutting Cost DW15/B15**

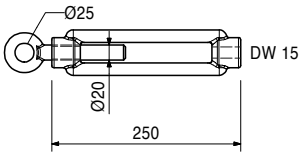
Consists of

037150 Tie Yoke 1 pc
030090 Hex-Nut DW15 SW30 108mm ga 1 pc
701335 Tie Rod DW15 0.1m 1 pc
711059 Turnbuckle CB coat 1 pc
711060 Eyebolt M20 left coat 1 pc
057263 Hex-Nut ISO4032-M20-8-left-ga 1 pc
024910 Screw ISO4014-M20x080-8.8-ga 2 pc
710334 Hex-Nut ISO4032-M20-8-ga 2 pc

Art no.	Weight [kg]	
116807	1.850	**Turnbuckle CB Ø25-M20/DW15**

For tensioning of Tie Rod DW15.



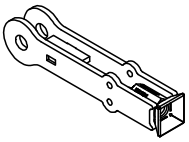


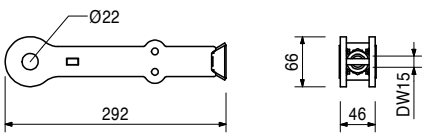
Consists of

711059 Turnbuckle CB coat 1 pc
711060 Eyebolt M20 left coat 1 pc

Art no.	Weight [kg]	
116532	1.890	**Tie Yoke VARIOKIT Ø22mm DW15**

For assembling in Steel Waler SRU.

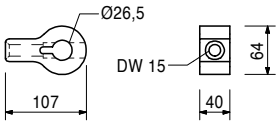




Art no.	Weight [kg]	
115378	1.080	**Eye Nut RCS DW15**

As an articulated connection to the Climbing Rail RCS, Steel Waler SRU for bracing with DW15.



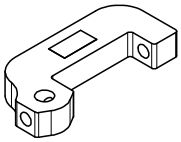


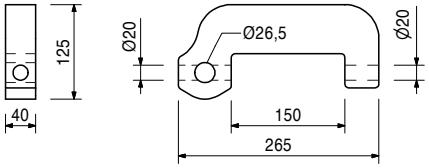
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
115375	6.100	**Articulated Spanner RCS DW15**

For tensioning and as an articulated connection to the Climbing Rail RCS, Steel Waler SRU or Bracing Shoe RCS for bracing with DW15.



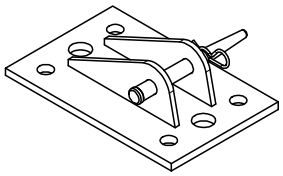


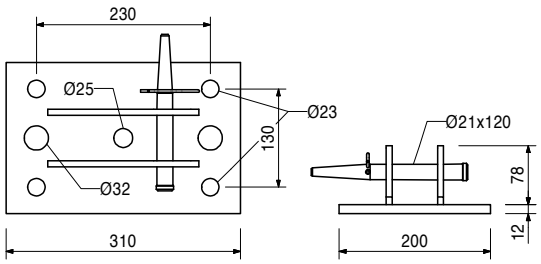
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**
030030	1.440	**Tie Rod DW15 spec. Length**

Art no.	Weight [kg]	
114997	7.160	**Bracing Shoe RCS DW15**

For anchoring the bracing with DW15 to the building slab. Fixation with Anchor System M24 or corresponding dowels.





Consists of

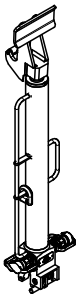
104031 Fitting Pin Ø21x120mm 1 pc
018060 Cotter Pin 4/1 ga 1 pc

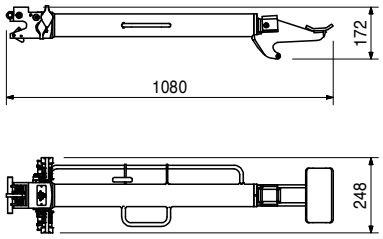
Art no.	Weight [kg]	
109765	27.000	**Climbing Device RCS 50**

For crane-independent climbing of RCS Climbing Units.

Notes

Follow Instructions for Use.
Operating pressure max. 190 bar.
Available nominal lifting force 45 kN.





Accessory (not included)

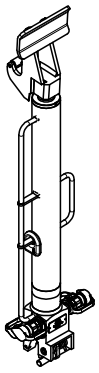
109766	109.000	**Hydr.Pump RCS 4x190/380-460V**

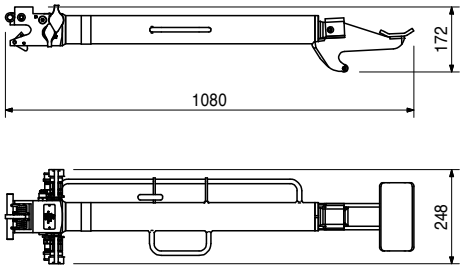
Art no.	Weight [kg]	
135413	27.000	**Climbing Device-2 RCS 50**

For crane-independent climbing of RCS Climbing Units.

Notes

Follow Instructions for Use.
Operating pressure max. 210 bar.
Available nominal lifting force 50 kN.





Accessory (not included)

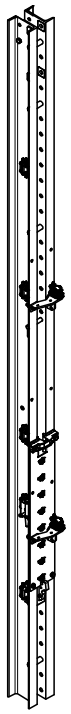
109766	109.000	**Hydr.Pump RCS 4x190/380-460V**
135500	47.000	**Hydr.P. RCS MAX 2x210/380-460V**

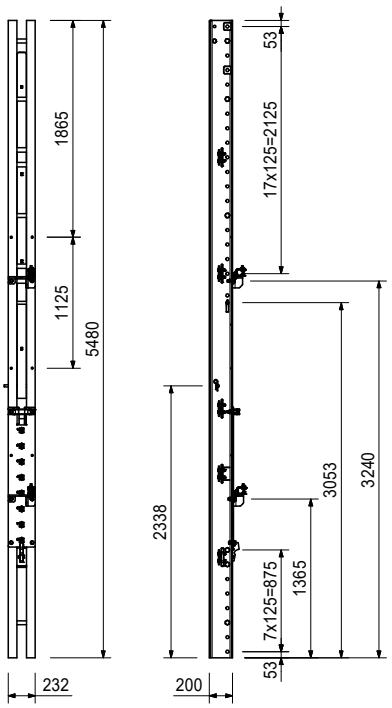
Art no.	Weight [kg]	
136110	395.000	**Driving Rail RCS C MAX**

For simultaneous climbing of Self-Climbing Formwork System RCS C MAX in conjunction with networked Hydraulic Pumps RCS MAX

Notes

After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport. For the installation of the climbing cylinder, the cylinder fixing must be removed.
Follow Assembly Instructions!





Accessory (not included)

136107	41.400	**Climbing Cylinder RCS MAX 75**

Consists of

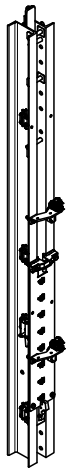
111567 Fitting Pin Ø26x120mm 1 pc
123692 Lock Pin Ø25x200mm SCS coat 1 pc
022230 Cotter Pin 5/1 ga 2 pc
110022 Spacer M20x82mm 1 pc
110023 Spacer M24x82mm 4 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc
057138 Screw ISO4014-M24x160-8.8-ga 1 pc
130342 Hex-Nut ISO7042-M24-8-ga 2 pc
070890 Hex-Nut ISO7040-M16-8-ga 8 pc
710381 Hex-Nut ISO7040-M12-8-ga 21 pc
710224 Screw ISO4017-M12x040-8.8-ga 1 pc
710221 Screw ISO4014-M12x060-8.8-ga 20 pc
108546 Screw ISO4017-M16x060-8.8-ga 6 pc
721729 Screw ISO4014-M16x090-8.8-ga 2 pc
711074 Washer ISO7089-16-200HV-ga 8 pc
710880 Washer DIN434-18-ga 14 pc

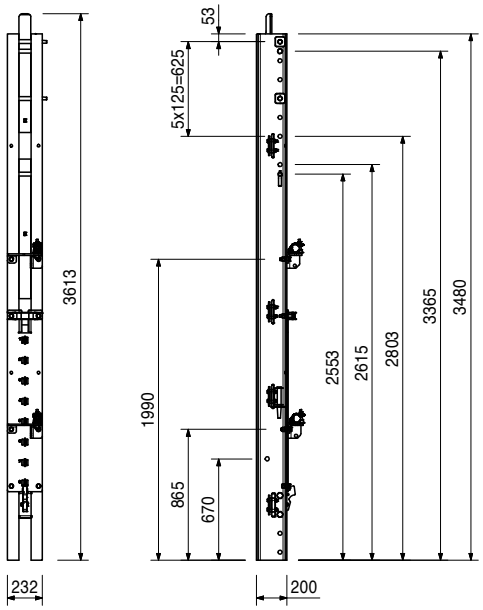
Art no.	Weight [kg]	
136111	268.000	**Driving Rail RCS CL MAX**

For simultaneous climbing of Self-Climbing Formwork System RCS CL MAX in conjunction with networked Hydraulic Pumps RCS MAX.

Notes

After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport. For the installation of the climbing cylinder, the cylinder fixing must be removed.
Follow Assembly Instructions!





Accessory (not included)

136107	41.400	**Climbing Cylinder RCS MAX 75**

Consists of

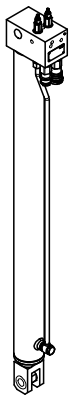
111567 Fitting Pin Ø26x120mm 3 pc
123692 Lock Pin Ø25x200mm SCS coat 1 pc
022230 Cotter Pin 5/1 ga 4 pc
110022 Spacer M20x82mm 1 pc
109612 Screw ISO4014-M24x130-8.8-ga 1 pc
057138 Screw ISO4014-M24x160-8.8-ga 1 pc
130342 Hex-Nut ISO7042-M24-8-ga 2 pc
070890 Hex-Nut ISO7040-M16-8-ga 8 pc
710381 Hex-Nut ISO7040-M12-8-ga 17 pc
710224 Screw ISO4017-M12x040-8.8-ga 1 pc
710221 Screw ISO4014-M12x060-8.8-ga 16 pc
108546 Screw ISO4017-M16x060-8.8-ga 6 pc
721729 Screw ISO4014-M16x090-8.8-ga 2 pc
711074 Washer ISO7089-16-200HV-ga 8 pc
710880 Washer DIN434-18-ga 14 pc

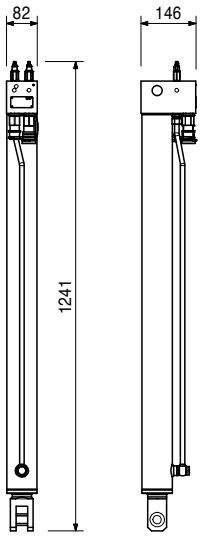
Art no.	Weight [kg]	
136107	41.400	**Climbing Cylinder RCS MAX 75**

Hydraulic Cylinder for Driving Rail RCS C MAX or Driving Rail RCS CL MAX.

Notes

Follow Assembly Instructions of the manufacturer!
After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport.
Max. stroke length 90 cm (effective 75 cm).
Available nominal lifting force 50 kN (theoretical nominal lifting force 65 kN).
Max. operating pressure 210 bar.
Ready for operation with Hydraulic Unit RCS MAX 2x210/380-460V.



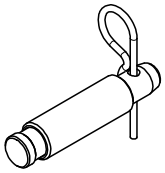


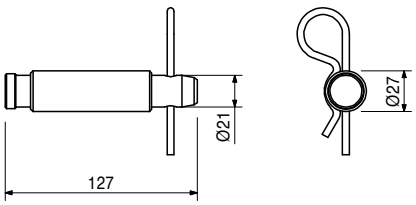
Accessory (not included)

136110	395.000	**Driving Rail RCS C MAX**
136111	268.000	**Driving Rail RCS CL MAX**
135500	47.000	**Hydr.P. RCS MAX 2x210/380-460V**

Art no.	Weight [kg]	
136109	0.472	**Pin Set RCS MAX**

For Creation of 250 mm pin pattern in the Climbing Rail RCS.





Consists of

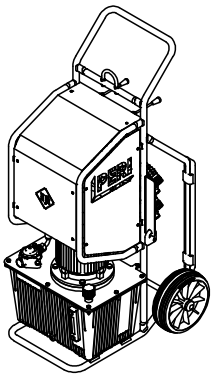
136289 Sleeve 26.9x2.6x80 coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

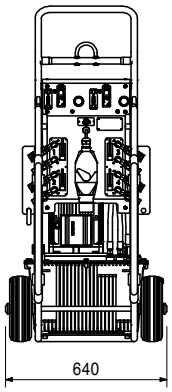
Art no.	Weight [kg]	
109766	109.000	**Hydr.Pump RCS 4x190/380-460V**

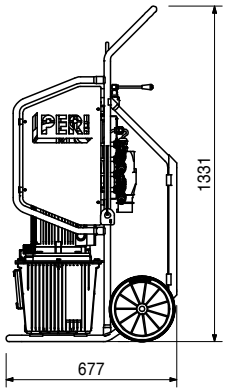
Hydraulic pump for actuating the Climbing Device RCS 50 or LPS 30.

Notes

Follow Instructions for Use.
Use only original PERI Hydraulic Oil.







Accessory (not included)

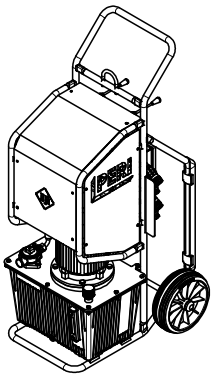
057376	18.300	**Hydr.Oil ISO11158 HVI46 20l**
131270	17.900	**Hydr.Oil ISO11158 HM10 20l**
131274	18.300	**Hydr.Oil ISO11158 HVI22 20l**
137373	18.300	**Hydr.Oil ISO11158 HVI32 20l**

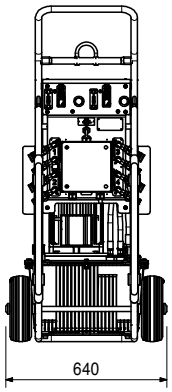
Art no.	Weight [kg]	
114243	109.000	**Hydr.Pump RCS 4x190/460V CSA**

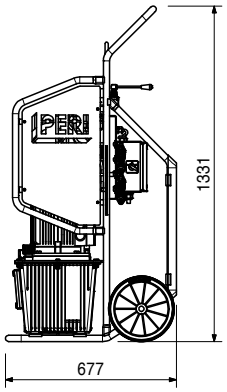
Hydraulic pump for actuating the Climbing Device RCS 50 or LPS 30 (Application area North America).

Notes

Follow Instructions for Use!
Only use original PERI Hydraulic Oil.



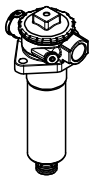


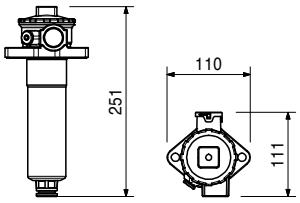


Accessory (not included)

057376	18.300	**Hydr.Oil ISO11158 HVI46 20l**
131270	17.900	**Hydr.Oil ISO11158 HM10 20l**
131274	18.300	**Hydr.Oil ISO11158 HVI22 20l**
137373	18.300	**Hydr.Oil ISO11158 HVI32 20l**

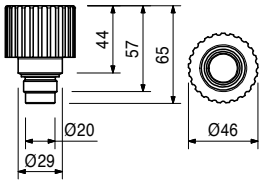
Art no.	Weight [kg]	
130528	0.500	**Return Oil Filter Pump RCS**





Art no.	Weight [kg]	
130529	0.600	**Ventilation Filter Pump RCS**



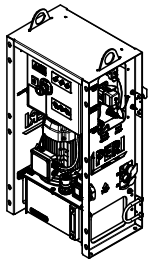


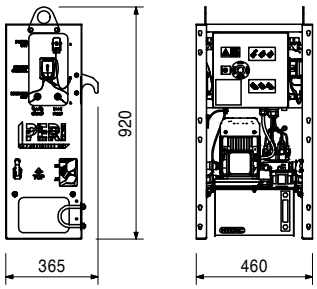
Art no.	Weight [kg]	
135500	47.000	**Hydr.P. RCS MAX 2x210/380-460V**

Hydraulic Pump for driving two Climbing Devices RCS MAX 75 or Climbing Device-2 RCS 50.
Connecting several units enables synchronous climbing of all climbing units.

Notes

Follow Assembly Instructions of the manufacturer!
See PERI Product Information.
Only use original PERI Hydraulic Oil.





Accessory (not included)

135606	0.100	**Return Filter RCS MAX**
135607	0.100	**Tank Breather Filter RCS MAX**
137281	14.000	**Hydr.Oil Filter Pump CE**
137282	1.000	**Hydr.Oil Filterelement 500**
137283	1.000	**Suction-/Pressure Hose 250**

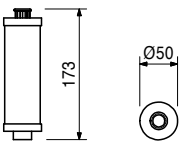
Art no.	Weight [kg]	
135606	0.100	**Return Filter RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





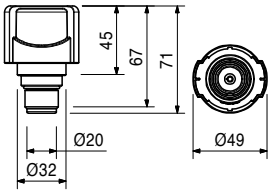
Art no.	Weight [kg]	
135607	0.100	**Tank Breather Filter RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!



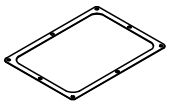


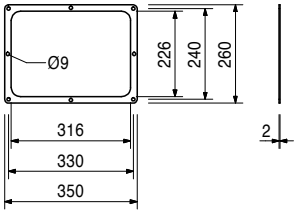
Art no.	Weight [kg]	
136597	0.050	**Gasket Hydr. Tank RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions!





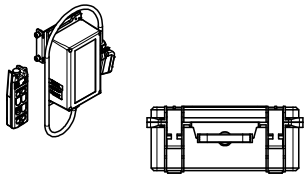
Art no.	Weight [kg]	
136530	5.080	**Remote Contr. RCS MAX wireless**

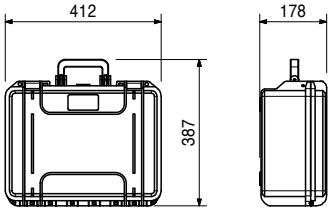
For a wireless operation of Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!

Scope of delivery:
1 pc. Remote Control RCS MAX wireless
1 pc. Receiver paired with Remote Control RCS MAX wireless
1 pc. Battery charger with base adapters
2 pc. Chargeable batteries
1 pc. case remote control RCS MAX
2 pc. Magnetic keys
1 pc. Protective casing with harmess





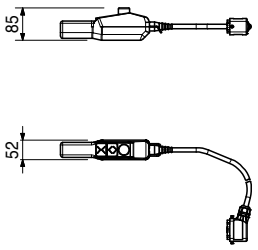
Art no.	Weight [kg]	
135506	2.500	**Remote Control RCS MAX**

Remote control for the simultaneous operation of a climbing unit.

Notes

Follow Assembly Instructions of the manufacturer!



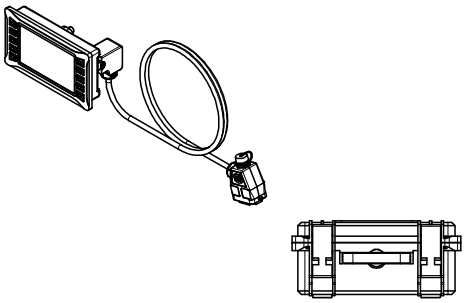


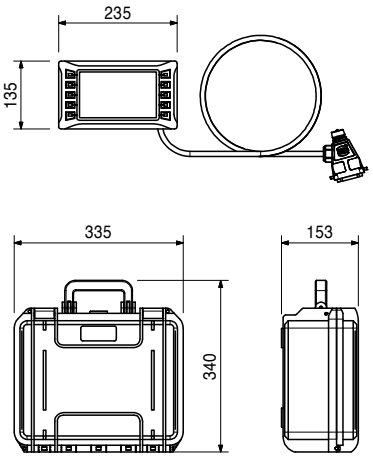
Art no.	Weight [kg]	
135507	3.360	**Display RCS MAX**

For displaying extended information and monitoring of interconnected Hydraulic power packs RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!
Cable length: 1.5 m.



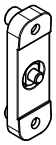


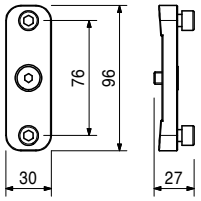
Consists of

136675 Case Display RCS MAX 1 pc

Art no.	Weight [kg]	
136043	0.058	**Display Holder RCS MAX**

For attachement of Display RCS MAX on the Power Unit RCS MAX 2x210 bar.





Consists of

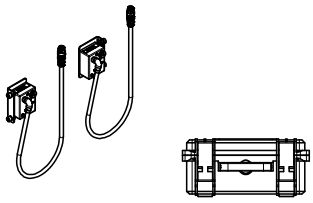
136045 Screw ISO10642-M08x016-8.8-ga 1 pc

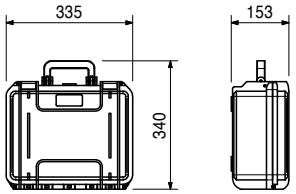
Art no.	Weight [kg]	
136531	2.330	**Data Conn. RCS MAX wireless**

For a wireless group connection between Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Group IN and Group OUT modules are compatible paired.
Technical data see PERI Product Information.





Consists of

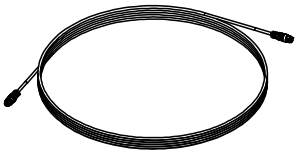
136673 Case Data Conn. RCS MAX 1 pc

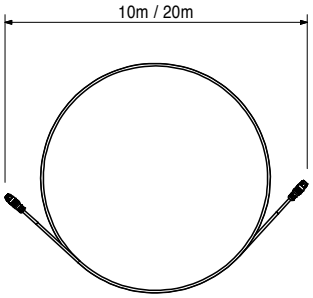
Art no.	Weight [kg]	
		Data Conn. Cables RCS MAX
135503	0.600	**Data Conn. Cable RCS MAX 10m**
135504	1.200	**Data Conn. Cable RCS MAX 20m**

For data connection between Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





Accessory (not included)

135505	0.100	**Connector Data Cable RCS MAX**

Art no.	Weight [kg]	
135505	0.100	**Connector Data Cable RCS MAX**

For connecting two Data Connection Cables RCS MAX.

Notes

Follow Assembly Instructions of the manufacturer!
Length 18 cm.

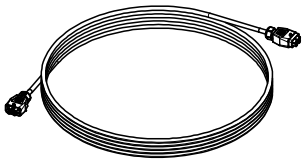


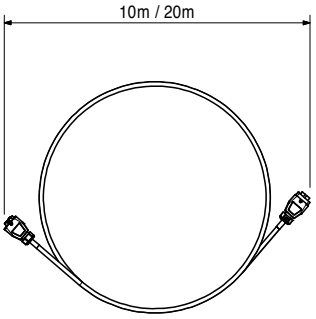
Art no.	Weight [kg]	
		Power Conn. Cables RCS MAX
135498	2.500	**Power Conn. Cable RCS MAX 10m**
135501	4.700	**Power Conn. Cable RCS MAX 20m**

For the power supply between max. 8 Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





Accessory (not included)

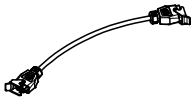
135502	0.200	**Conn. Power Cable RCS MAX**

Art no.	Weight [kg]	
135502	0.200	**Conn. Power Cable RCS MAX**

For connecting two Power Connection Cables RCS MAX.

Notes

Follow Assembly Instructions of the manufacturer!
Lenght 18 cm.

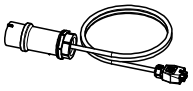


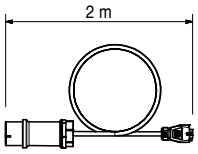
Art no.	Weight [kg]	
135499	0.800	**Power Cab. RCS MAX CEE-32A 2m**

For connecting max. 8 Hydraulic Pumps RCS MAX 2x210 bar to the power supply.

Notes

Follow Assembly Instructions of the manufacturer!
With CEE-Plug 400 V, 32 A. Manual phase inverter inside.





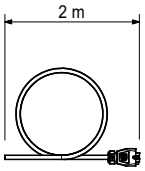
Art no.	Weight [kg]	
136532	0.400	**Power Cable RCS MAX 2m**

For making a country specific power cable.

Notes

Follow Assembly Instructions of the manufacturer!
To connect a country-specific connector to the cable. Only qualified electricians are permitted to work on and repair electrical components.



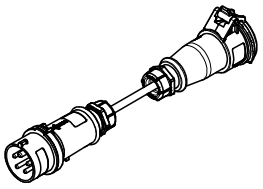


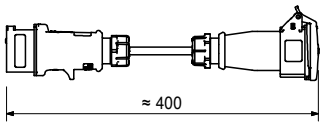
Art no.	Weight [kg]	
110280	0.500	**Adapter Cable RCS**

For the power supply to the Hydraulic Pump RCS.

Notes

Follow Instructions for Use!
With CEE plug connector 400 V 16 A.





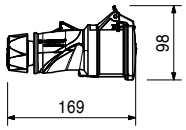
Art no.	Weight [kg]	
110279	0.291	**Plug Socket RCS black**

For providing the power supply to the Hydraulic Pump RCS with 380–460V, 50–60Hz.

Notes

Follow Instructions for Use!

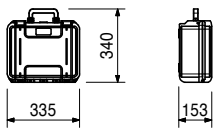




Art no.	Weight [kg]	
136673	1.700	**Case Data Conn. RCS MAX**

For packaging wireless RCS MAX group connections.



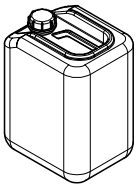


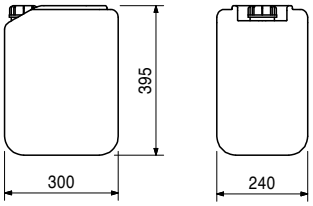
Art no.	Weight [kg]	
		Hydr.Oils ISO11158 in canister
131270	17.900	**Hydr.Oil ISO11158 HM10 20l**
131274	18.300	**Hydr.Oil ISO11158 HVI22 20l**
137373	18.300	**Hydr.Oil ISO11158 HVI32 20l**
057376	18.300	**Hydr.Oil ISO11158 HVI46 20l**

High-quality synthetic hydraulic oils for PERI Hydraulic Power Units with different viscosity suitable for different temperature ranges.

Notes

Filter with filter pump before filling the aggregates.
Observe Safety Data Sheet and applicable National Safety Regulations regarding hydraulic oil, in particular for transport, storage and disposal! Observe the technical documentation for the hydraulic power unit! Product Data Sheet on request.



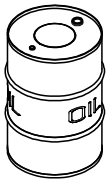


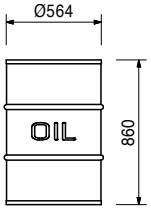
Art no.	Weight [kg]	
		Hydr.Oils ISO11158 in drum
131273	200.000	**Hydr.Oil ISO11158 HM10 210l**
131275	200.000	**Hydr.Oil ISO11158 HVI22 210l**
137374	201.000	**Hydr.Oil ISO11158 HVI32 210l**
131277	201.000	**Hydr.Oil ISO11158 HVI46 210l**

High-quality synthetic hydraulic oils for PERI Hydraulic Power Units with different viscosity suitable for different temperature ranges.

Notes

Filter with filter pump before filling the aggregates.
Observe Safety Data Sheet and applicable National Safety Regulations regarding hydraulic oil, in particular for transport, storage and disposal! Observe the technical documentation for the hydraulic power unit! Product Data Sheet on request.



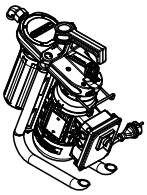


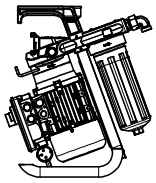
Art no.	Weight [kg]	
137281	14.000	**Hydr.Oil Filter Pump CE**

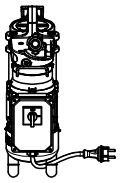
Filter pump for quick and clean transfer of hydraulic oil with simultaneous filtration.

Notes

Follow Instructions for Use!
Power connection 220 V / 50 Hz, plug CEE 7/7.







Accessory (not included)

137282	1.000	**Hydr.Oil Filterelement 500**
137283	1.000	**Suction-/Pressure Hose 250**

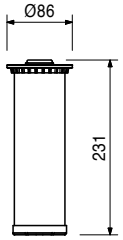
Art no.	Weight [kg]	
137282	1.000	**Hydr.Oil Filterelement 500**

Wear part of the Hydr.Oil Filter Pump CE.

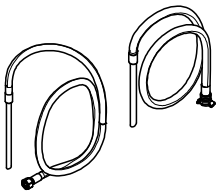
Notes

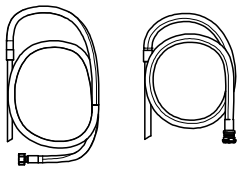
Follow Instruction for use!
Observe the maintenance instructions in the technical documentation for the oil filter pump!
Observe disposal instructions!





Art no.	Weight [kg]	
137283	1.000	**Suction-/Pressure Hose 250**

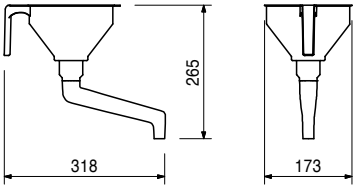




Art no.	Weight [kg]	
130685	0.225	**Universal Funnel**

For easy filling of hydraulic pumps with oil.



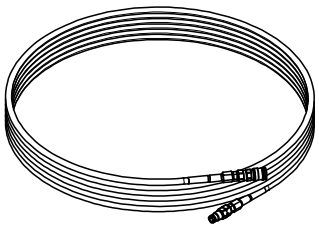


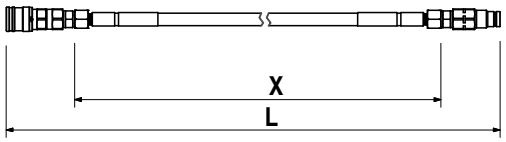
Art no.	Weight [kg]		L [mm]	X [mm]
		Hydr.Hoses 853-2SN-DN08-FF		
129035	0.996	**Hydr.Hose 853-2SN-DN08-FF 1m**	1169	1000
129036	1.430	**Hydr.Hose 853-2SN-DN08-FF 2m**	2169	2000
129419	2.690	**Hydr.Hose 853-2SN-DN08-FF 5m**	5170	5000
129420	4.900	**Hydr.Hose 853-2SN-DN08-FF 10m**	10170	10000
129421	7.120	**Hydr.Hose 853-2SN-DN08-FF 15m**	15170	15000
129422	9.330	**Hydr.Hose 853-2SN-DN08-FF 20m**	20170	20000

Hydraulic hoses with quick couplings and nominal diameter 8 mm.

Notes

Follow applicable Safety Regulations for the installation and maintenance of hydraulic lines!



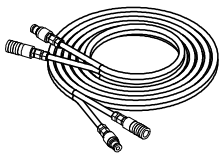


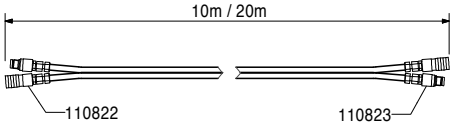
Consists of

128992 Pin ISO16028 DN10 R3/8IG 1 pc
128993 Sleeve ISO16028 DN10 R3/8IG 1 pc
051750 Male Stud Coupl. X-GE12PSR-ED 2 pc

Art no.	Weight [kg]	
		Hydr.Twin Hoses RCS
110069	8.500	**Hydr.Twin Hose RCS 10m**
110070	15.300	**Hydr.Twin Hose RCS 20m**

Two permanently connected hydraulic hoses for connecting hydraulic pumps with hydraulic climbing devices.

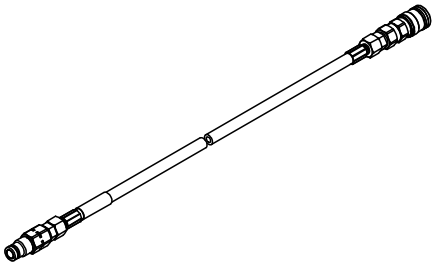


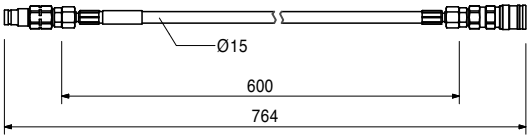


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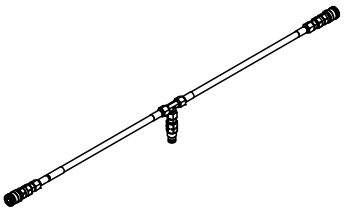
128992 Pin ISO16028 DN10 R3/8IG 2 pc
128993 Sleeve ISO16028 DN10 R3/8IG 2 pc
051750 Male Stud Coupl. X-GE12PSR-ED 4 pc

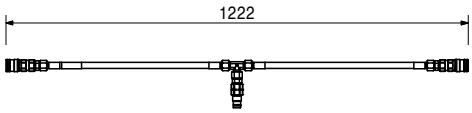
Art no.	Weight [kg]	
126646	0.651	**Bypass Hose RCS**





Art no.	Weight [kg]	
129423	1.370	**Hydr.T-Piece 2SN-DN08-FF**



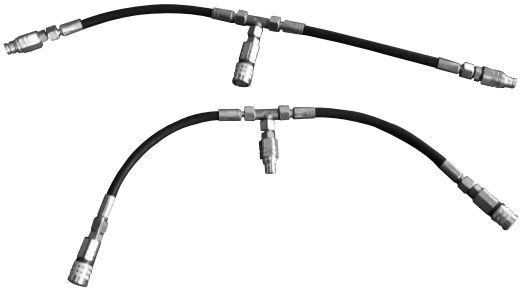


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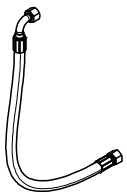
051750 Male Stud Coupl. X-GE12PSR-ED 3 pc
128993 Sleeve ISO16028 DN10 R3/8IG 2 pc
128992 Pin ISO16028 DN10 R3/8IG 1 pc

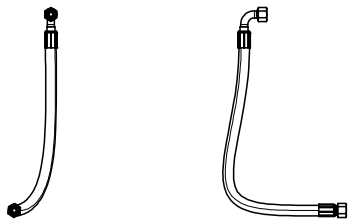
Art no.	Weight [kg]	
112421	3.000	**Hydr. Accum. Piece RCS**

To double the volume of the oil at the Hydraulic Pump RCS. Also doubles the speed of the Hydraulic Winch RCS.

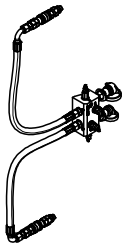


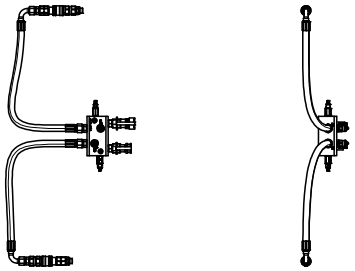
Art no.	Weight [kg]	
137400	0.350	**Hydr.Hose 2SN DN8 65 90°**





Art no.	Weight [kg]	
136533	3.400	**Conv. Set Climbing Device ACS**



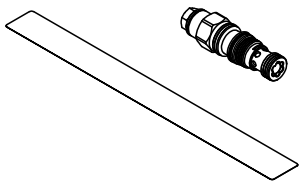


Art no.	Weight [kg]	
135411	1.000	**Con.Set Climb.Device-2 RCS 50**

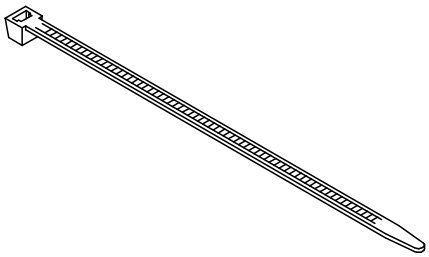
Conversion set for the modification of the Climbing Device RCS 50 in Climbing Device-2 RCS 50.

Notes

Observe conversion kit instructions at all times (see document DO-19-0265205).



Art no.	Weight [kg]	
137346	0.007	**Cable Binder 7.8x540mm**

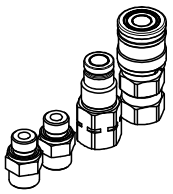


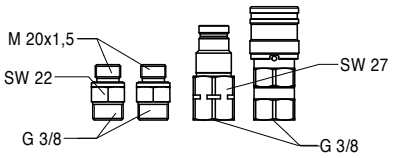
Art no.	Weight [kg]	
129424	0.440	**FF-Coupling Pair X-GE12PSR-ED+**

Spare parts set for PERI Hydraulic Components with quick couplings X-GE 12PSR-ED+.

Notes

For assembling on hydraulic hoses EN853-2SN-DN08.



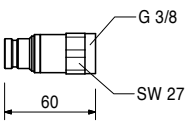


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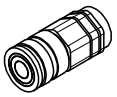
128992 Pin ISO16028 DN10 R3/8IG 1 pc
128993 Sleeve ISO16028 DN10 R3/8IG 1 pc
051750 Male Stud Coupl. X-GE12PSR-ED 2 pc

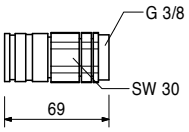
Art no.	Weight [kg]	
110823	0.171	**Quick Coupler Nipple RCS**





Art no.	Weight [kg]	
110822	0.297	**Quick Coupler Bushing RCS**



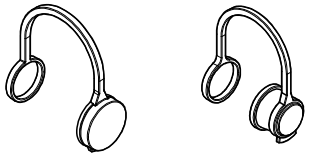


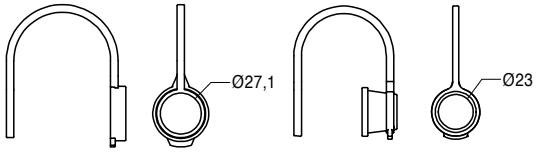
Art no.	Weight [kg]	
125632	0.050	**Prot. Covers Climb. Device RCS**

Spare part.
To protect unplugged quick couplings against dirt and damage.

Notes

Use with hydraulic hoses with FF couplings possible.
1 set for 1 Climbing Device RCS 50 (2 x bushing and 2 x nipple each).

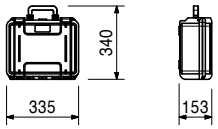




Art no.	Weight [kg]	
136675	1.700	**Case Display RCS MAX**

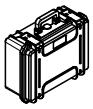
For packaging of RCS MAX display.

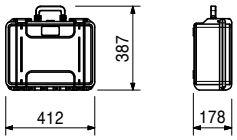




Art no.	Weight [kg]	
136674	2.300	**Case Remote Control RCS MAX**

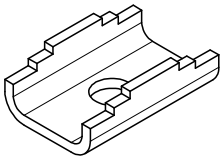
For packaging of wireless RCS MAX remote control.

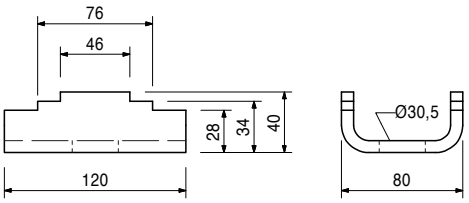




Art no.	Weight [kg]	
110055	0.861	**Cross Strap coat**

For fixing formworks at the Strongbacks by means of Tie Yokes DW15.



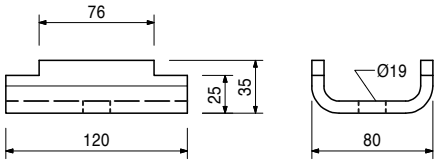


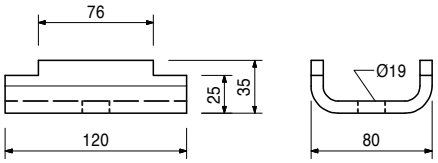
Accessory (not included)

030440	0.686	**Spherical Nut DW15 ga**

Art no.	Weight [kg]	
722137	0.849	**Cross Strap 2 coat**

For fixing formwork at the Strongbacks by means of Tie Yokes DW15.





Accessory (not included)

030100	0.439	**Wingnut DW15 ga**

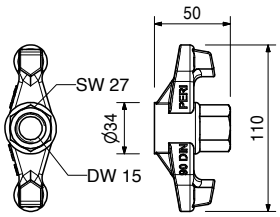
Art no.	Weight [kg]	
030100	0.439	**Wingnut DW15 ga**

For anchoring with Tie Rod DW15 or B15.

Notes

Permissible load 90 kN.





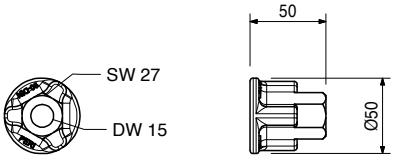
Art no.	Weight [kg]	
030130	0.318	**Cam Nut DW15 coat**

For anchoring with Tie Rod DW15 or B15.

Notes

Permissible load 90 kN.



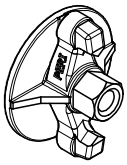


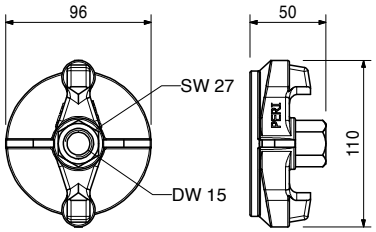
Art no.	Weight [kg]	
030110	0.799	**Wingnut Counterplate DW15 ga**

For anchoring with Tie Rod DW15 or B15.

Notes

Permissible load 90 kN.

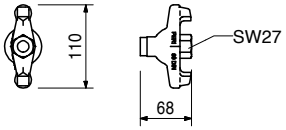




Art no.	Weight [kg]	
030440	0.686	**Spherical Nut DW15 ga**

For pivotable anchoring with Tie Rod DW15 or B15.



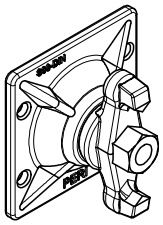


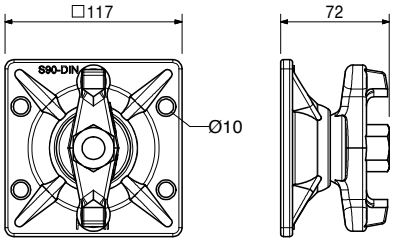
Art no.	Weight [kg]	
030370	1.660	**Wingnut Pivot Plate DW15 ga**

For anchoring with Tie Rod DW15 or B15.
With articulated, captive nut. Maximum inclination of anchor: +/- 8°.

Notes

Wrench size SW27.
Permissible load 90 kN.





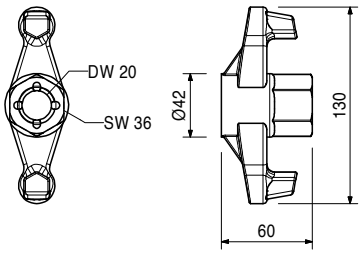
Art no.	Weight [kg]	
030990	0.786	**Wingnut DW20 ga**

For anchoring with Tie Rod DW20 or B20.

Notes

Permissible load 150 kN.



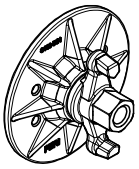


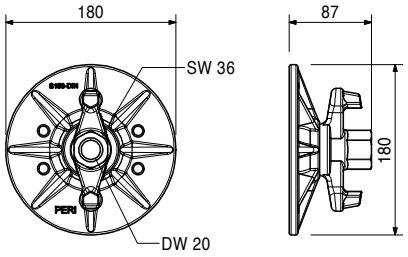
Art no.	Weight [kg]	
127587	3.210	**Wingnut Pivot Plate DW20 ga**

For anchoring with Tie Rod DW20. With pivoting captive nut. Maximum angle of tilting +/- 8°.

Notes

Permissible load 150 kN.

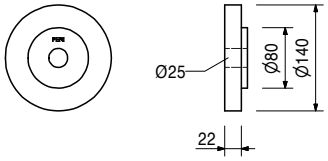




Art no.	Weight [kg]	
114082	2.860	**Counterplate RCS DW20**

Counterplate with centring for anchoring through the Climbing Rail RCS.

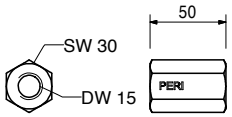




Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 or B15.





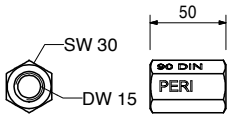
Art no.	Weight [kg]	
030550	0.233	**Hex-Nut DW15 SW30 50mm weldab**

For anchoring with Tie Rod DW15 or B15.

Notes

Weldable! Permissible load 90 kN.



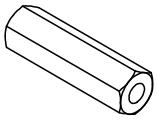


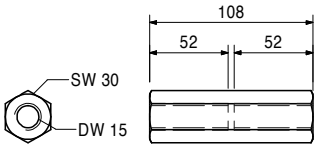
Art no.	Weight [kg]	
030090	0.402	**Hex-Nut DW15 SW30 108mm ga**

For coupling Tie Rod DW15 or B15.

Notes

Permissible load 90 kN.



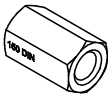


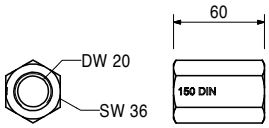
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab**

For anchoring with Tie Rod DW20 or B20.

Notes

Weldable! Permissible load 150 kN.



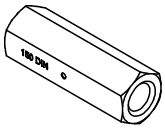


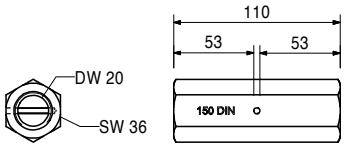
Art no.	Weight [kg]	
030590	0.685	**Hex-Nut DW20 SW36 110mm weldab**

For coupling Tie Rod DW20 oder B20.

Notes

Weldable! Permissible load 150 kN.



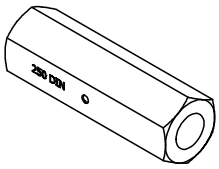


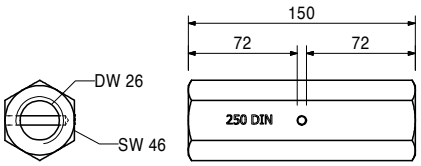
Art no.	Weight [kg]	
030980	1.540	**Hex-Nut DW26 SW46 150mm weldab**

For coupling Tie Rod DW26.

Notes

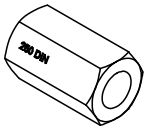
Weldable! Permissible load 250 kN.

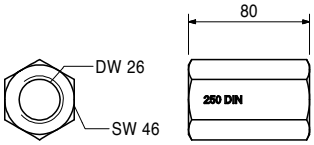




Art no.	Weight [kg]	
113339	0.800	**Hex-Nut DW26 SW46 80mm ga**

For anchoring with Tie Rod DW26.



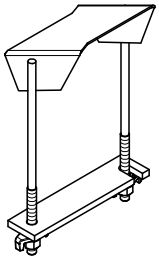


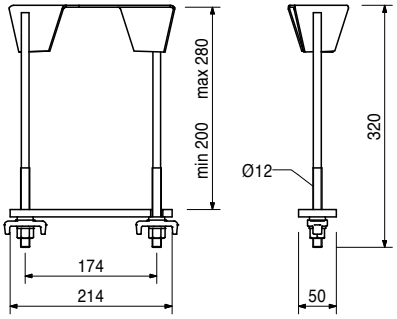
Art no.	Weight [kg]	
018310	1.810	**Beam Connector ga**

For connecting crossed timbers or girders.

Notes

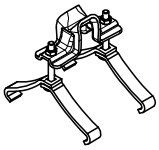
With captive swivel nuts.

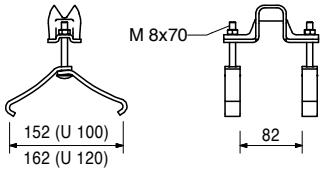




Art no.	Weight [kg]	
024070	0.691	**Hook Strap 24 U100/U120**

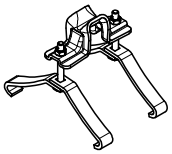
For fixing GT 24 Girders to Steel Walers SRZ, SRU and BR Profile U100 – U120.

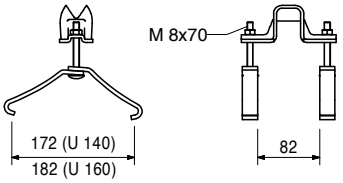




Art no.	Weight [kg]	
024080	0.735	**Hook Strap 24 U140/U160**

For fixing GT 24 Girders to Steel Walers SRZ, SRU and BR Profile U140 – U160.



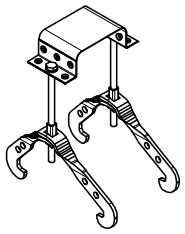


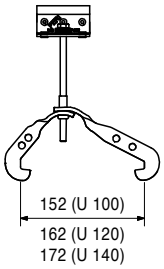
Art no.	Weight [kg]	
		Hook Straps Uni HBU
104931	0.839	**Hook Strap Uni HBU 20-24**
103845	0.893	**Hook Strap Uni HBU 24-28**

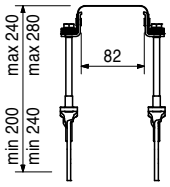
For fixing GT 24 Girders or VT 20 Girders to Steel Walers SRZ and SRU Profiles U100 – U140.

Notes

The girders can be mounted right-angled or diagonally to the steel walers and also outside of the nodes.







Accessory (not included)

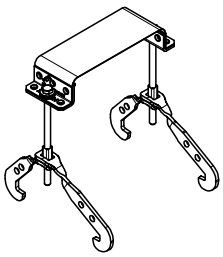
024540	0.005	**Wood Screw 6x40 SK-TX30 HPI**

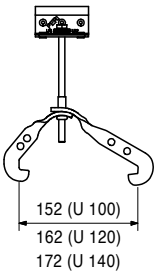
Art no.	Weight [kg]	
		Hook Straps Uni dou. HBUD
104930	0.887	**Hook Strap Uni dou. HBUD 20-24**
104096	0.912	**Hook Strap Uni dou. HBUD 24-28**

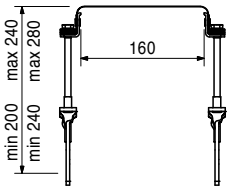
For fixing two GT 24 Girders or VT 20 Girders to SRZ Steel Walers and SRU Profiles U100 – U140.

Notes

The girders can be mounted right-angled or diagonally to the steel walers and also outside of the nodes.

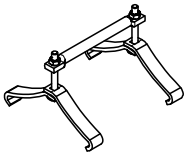


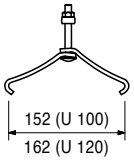


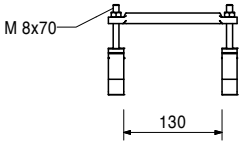


Art no.	Weight [kg]	
024860	0.616	**Hook Strap 24 Cross Bar 150mm**

For fixing GT 24 Girders independent from girder node or timber beams with drilling Ø 20 mm to Steel Walers SRZ, SRU and BR Profile U100 – U120.

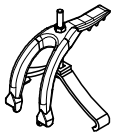


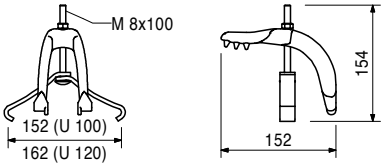




Art no.	Weight [kg]	
024600	0.907	**Girder Claw HB**

For mounting the GT 24 Edge Girder on the Steel Waler SRZ and SRU Profile U100 – U120.



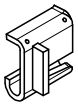


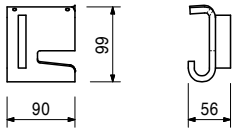
Art no.	Weight [kg]	
024640	0.923	**Impact Strap 24 U100/U140**

For fixing GT 24 Girders to Steel Waler SRZ and SRU Profile U100 – U140 outside of the girder nodes.

Notes

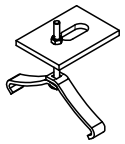
Girders fixed in position with the quick strap must be screwed to the formlining when using crane lifting gears.

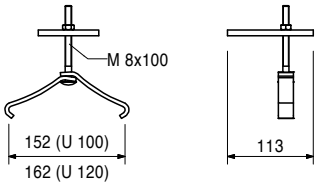




Art no.	Weight [kg]	
024630	0.742	**Fix Clamp U100/U120 ga**

For fixing the GT 24 Girder in the VARIO Corner.



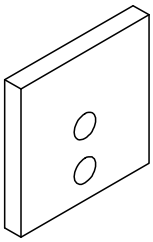


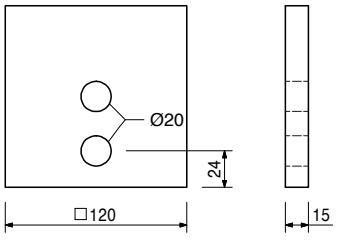
Art no.	Weight [kg]	
030140	1.620	**Counterplate DW15 120x120x15mm**

For anchoring with Tie Rod DW15 or B15.

Notes

Permissible tension force 90 kN.

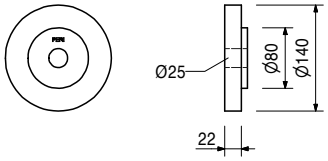




Art no.	Weight [kg]	
114082	2.860	**Counterplate RCS DW20**

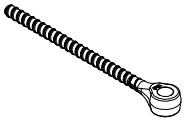
Counterplate with centring for anchoring through the Climbing Rail RCS.

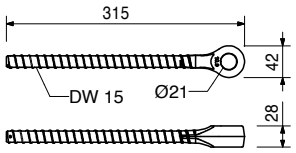




Art no.	Weight [kg]	
037150	0.641	**Tie Yoke**

For fixing SRZ Steel Walers to the strongback.



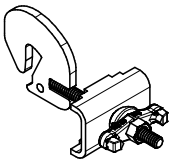


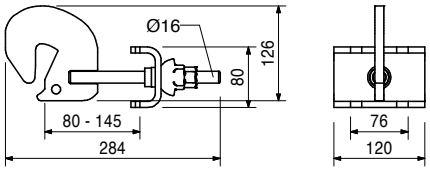
Accessory (not included)

037160	0.736	**Pin Ø20x205mm ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
710226	0.340	**Screw ISO4014-M20x090-8.8-ga**

Art no.	Weight [kg]	
110059	2.840	**Waler Fixation U100/U120**

For fixing VARIO GT 24 Panels to Strongbacks CB, SCS and Steel Waler SRU.



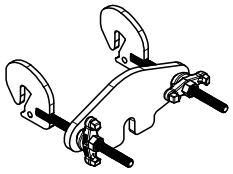


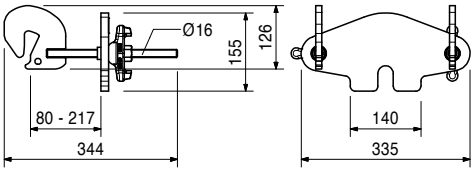
Consists of

110055 Cross Strap coat 1 pc
118260 Spherical Nut RD16 coat 1 pc

Art no.	Weight [kg]	
129720	8.040	**Waler Fixation U100/U120 doub.**

For fixing VARIO GT 24 Panels to Strongbacks CB, SCS, Steel Waler SRU if anchoring is done through the strongback.



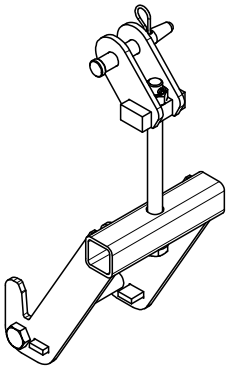


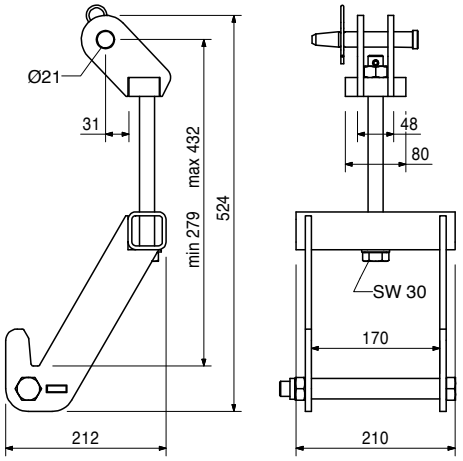
Consists of

118260 Spherical Nut RD16 coat 2 pc

Art no.	Weight [kg]	
110400	7.150	**Adjusting Unit Carriage RCS**

For the external height adjustment of the formwork element at the strongback (Steel Waler SRU).



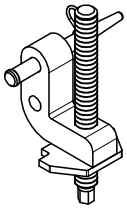


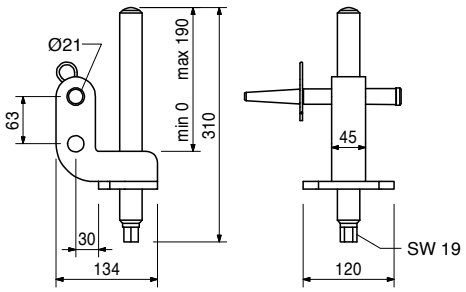
Consists of

105400 Pin Ø20x140mm ga 1 pc
018060 Cotter Pin 4/1 ga 1 pc
706454 Washer ISO7089-20-200HV-ga 1 pc
110637 Screw ISO4017-M20x260-mach 1 pc
780807 Sleeve ISO8752-08.0x028-coat 1 pc

Art no.	Weight [kg]	
111135	5.620	**Adjusting Unit SRU internal**

For internal height adjustment of the formwork on the strongback (Steel Waler SRU) or Climbing Rail RCS.



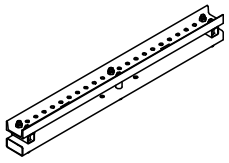


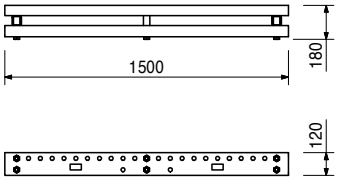
Consists of

105400 Pin Ø20x140mm ga 1 pc
018060 Cotter Pin 4/1 ga 1 pc

Art no.	Weight [kg]	
127633	38.700	**Formwork Waler CB 150**

Horizontal waler for connecting the spindle with the wall formwork.



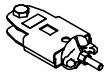


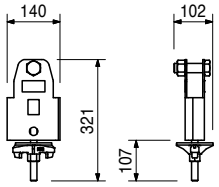
Accessory (not included)

127659	3.980	**Clamp Adaptor MX TR-SRU**

Art no.	Weight [kg]	
127659	3.980	**Clamp Adaptor MX TR-SRU**

For the connection of Formwork Waler CB 150 to the formwork.





Accessory (not included)

127633	38.700	**Formwork Waler CB 150**

Consists of

105416 Screw ISO4014-M24x080-8.8-ga 1 pc
022250 Hex-Nut ISO4032-M24-8-ga 1 pc

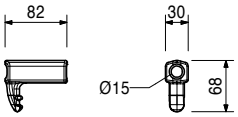
Art no.	Weight [kg]	
023820	0.375	**Hook Tie Head DW15 ga**

For connecting accessories to MAXIMO and TRIO Panels. DW15 Thread.

Notes

Permissible tension force 20 kN.



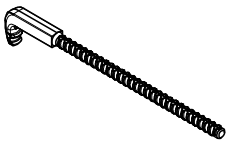


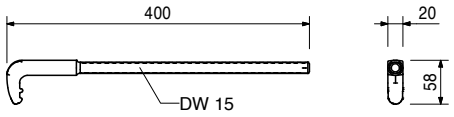
Art no.	Weight [kg]	
023650	0.769	**Hook Tie DW15x400mm ga**

For connecting accessories to MAXIMO and TRIO Panels. DW15 Thread.

Notes

Permissible tension force 20 kN.



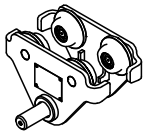


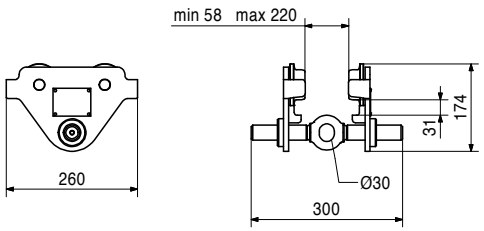
Art no.	Weight [kg]	
057043	9.000	**Trolley HTP 1000kg Type A**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 58 - 220 mm.

Notes

Follow Instructions for Use!



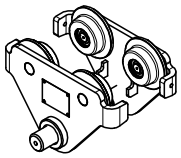


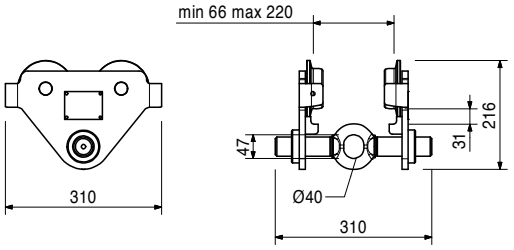
Art no.	Weight [kg]	
057045	16.000	**Trolley HTP 2000kg Type A**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 66 - 220 mm.

Notes

Follow Instructions for Use!



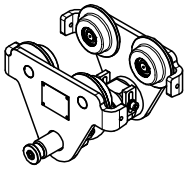


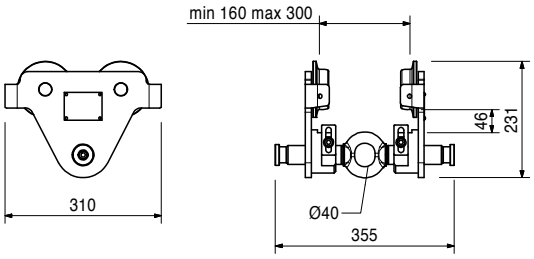
Art no.	Weight [kg]	
057046	19.300	**Trolley HTP 2000kg Type B**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 160 - 300 mm.

Notes

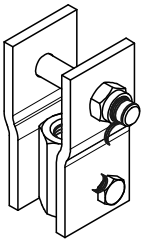
Follow Instructions for Use.

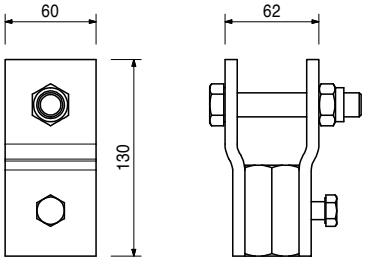




Art no.	Weight [kg]	
057049	2.570	**Panel Suspens.Adaptor ACS DW20**

Connecting Tensioning Steel B20 with Trolley HTP.





Consists of

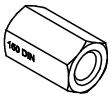
721729 Screw ISO4014-M16x090-8.8-ga 1 pc
070890 Hex-Nut ISO7040-M16-8-ga 1 pc
710266 Screw ISO4014-M20x090-8.8-ga

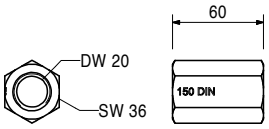
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab**

For anchoring with Tie Rod DW20 or B20.

Notes

Weldable! Permissible load 150 kN.

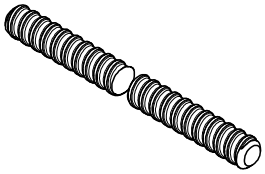




Art no.	Weight [kg]	
		Tie Rods B20
030800	0.000	**Cutting Costs DW20/B20**
030745	2.600	**Tie Rod B20 spec. Length**

Notes

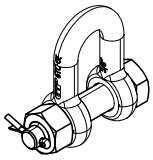
Weldable! Take official Approval into consideration! Permissible tension force 150 kN.

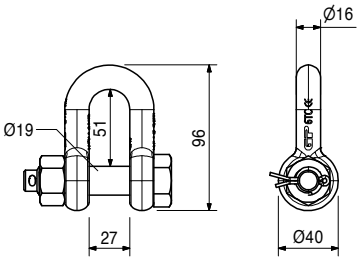




Art no.	Weight [kg]	
130616	0.670	**Shackle Ø16/Ø19mm 3.25t Hex-N.**

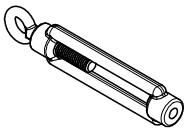
For attaching loads or mounting formwork elements on Trolleys HTP 2000 kg by means of Turnbuckle CB Ø25-M20/DW15.

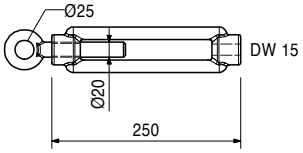




Art no.	Weight [kg]	
116807	1.850	**Turnbuckle CB Ø25-M20/DW15**

For tensioning of Tie Rod DW15.





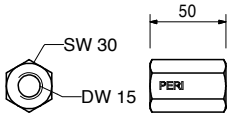
Consists of

711059 Turnbuckle CB coat 1 pc
711060 Eyebolt M20 left coat 1 pc

Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 or B15.

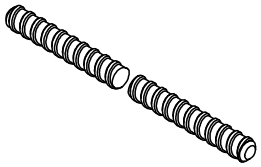




Art no.	Weight [kg]	
		Tie Rods B15
030050	0.000	**Cutting Cost DW15/B15**
030740	1.550	**Tie Rod B15 spec. Length**

Notes

Weldable! Observe Approval! Permissible tension force 85 kN.



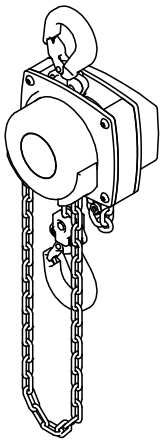


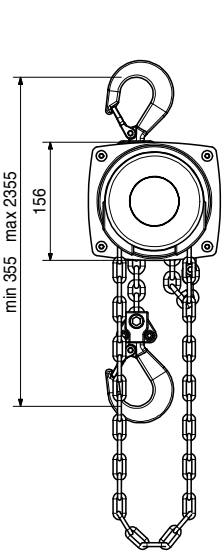
Art no.	Weight [kg]	
057517	13.000	**Winch 1.0t**

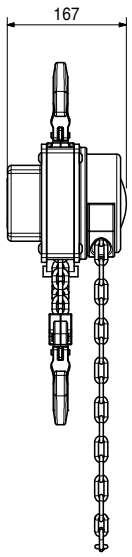
For the height-adjustable suspension of the formwork or for lifting and lowering loads.

Notes

Follow Instructions for Use!
Lifting height 2.00 m.
Hand chain 3.00 m.





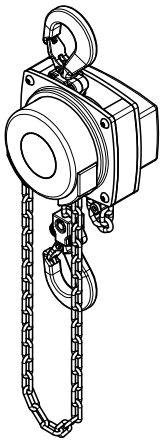


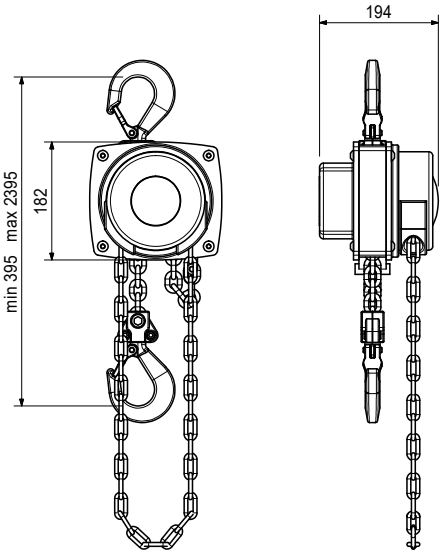
Art no.	Weight [kg]	
129981	20.000	**Winch 2.0t**

For the height-adjustable suspension of the formwork or for lifting and lowering loads.

Notes

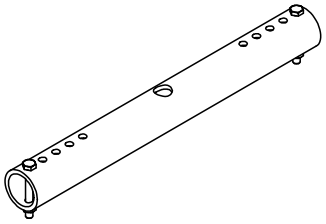
Follow Instructions for Use!
Lifting height 2.00 m.
Hand chain 3.00 m.

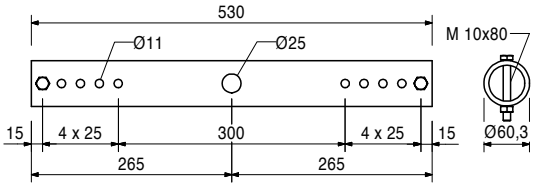




Art no.	Weight [kg]	
057050	4.450	**Panel Suspens. Tube VARIO 53**

For attaching VARIO GT 24 Elements.





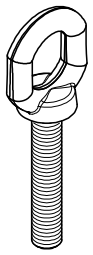
Accessory (not included)

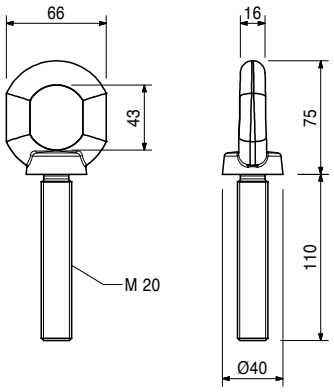
057095	0.902	**Plywood Insert GT 24 ACS**
125823	2.170	**Formwork Suspension VARIO Ø60**
724812	0.656	**Eyebolt M20x110mm coat**

Consists of

710593 Screw ISO4014-M10x080-8.8-ga 2 pc
710234 Hex-Nut ISO4032-M10-8-ga 2 pc

Art no.	Weight [kg]	
724812	0.656	**Eyebolt M20x110mm coat**





Accessory (not included)

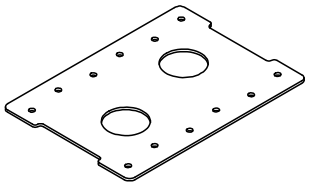
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
113350	0.174	**Washer ISO7094-20 100HV-ga.**

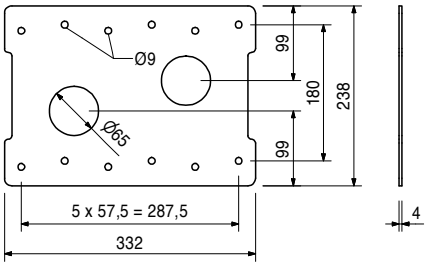
Art no.	Weight [kg]	
125823	2.170	**Formwork Suspension VARIO Ø60**

For connecting the Suspension Tube VARIO 53 to Formwork Girders GT 24.

Notes

Permissible load-bearing capacity see PERI Design Information (on request).
At least 2 pieces per fixing point.



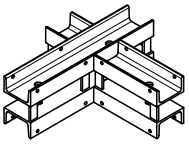


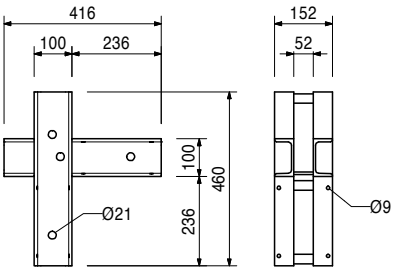
Accessory (not included)

024540	0.005	**Wood Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
057077	16.800	**Steel Corn. Waler ESRZ 46/41.6**

For VARIO GT 24 Corner Elements.



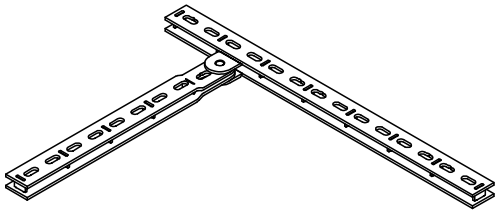


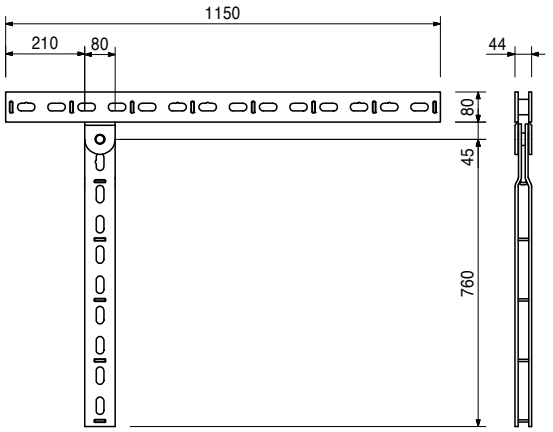
Accessory (not included)

057078	18.300	**T-Shaped Artic. Coupl. 115-76**

Art no.	Weight [kg]	
057078	18.300	**T-Shaped Artic. Coupl. 115-76**

For connecting VARIO GT 24 Corner Elements.

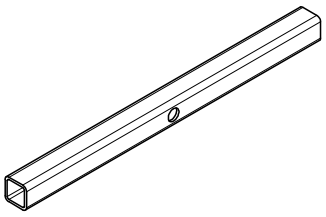


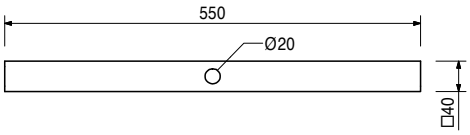


		Accessory (not included)
037160	0.736	**Pin Ø20x205mm ga**
024240	0.805	**Wedge KZ tensionproof**

Art no.	Weight [kg]	
123806	2.320	**Tube 40x40x4mm 55**

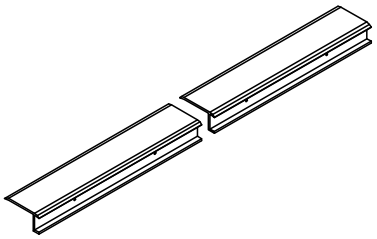
For clamping compensation plates.

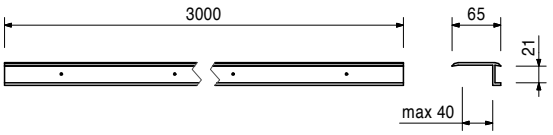




Art no.	Weight [kg]	
101706	1.230	**Formwork Joint 21/40mm 300**

Plastic profile strip for easier striking of shafts.



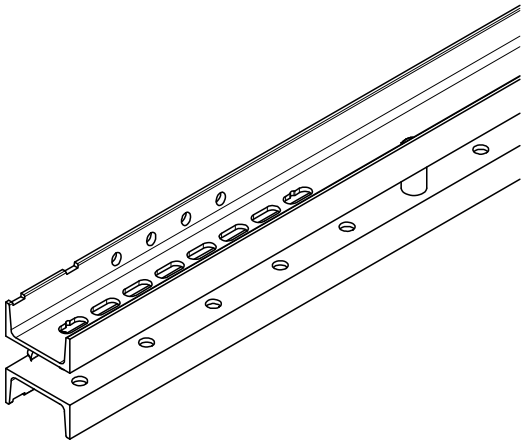


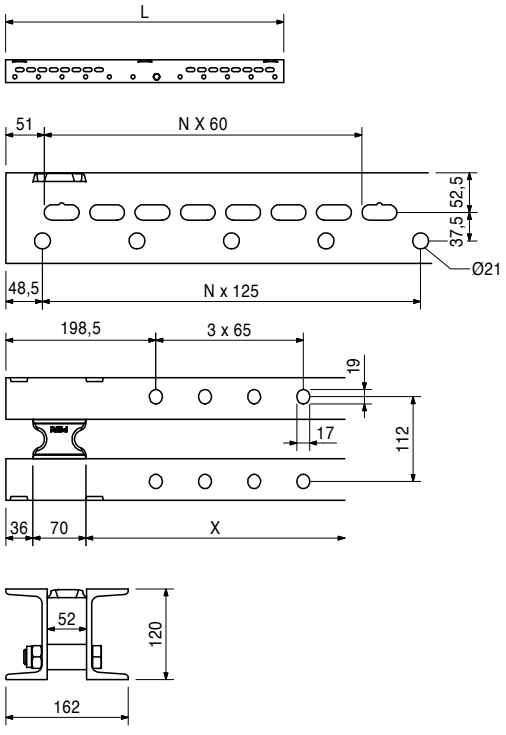
Art no.	Weight [kg]		L [mm]
		Steel Walers SRU U120	
103868	18.100	**Steel Waler SRU 72 U120**	722
103871	24.200	**Steel Waler SRU 97 U120**	972
103874	30.900	**Steel Waler SRU 122 U120**	1222
103877	38.100	**Steel Waler SRU 147 U120**	1472
103886	44.700	**Steel Waler SRU 172 U120**	1722
103889	52.000	**Steel Waler SRU 197 U120**	1972
103898	58.600	**Steel Waler SRU 222 U120**	2222
103892	65.600	**Steel Waler SRU 247 U120**	2472
103929	72.000	**Steel Waler SRU 272 U120**	2722
103903	81.000	**Steel Waler SRU 297 U120**	2972
103906	92.600	**Steel Waler SRU 347 U120**	3472
103915	106.000	**Steel Waler SRU 397 U120**	3972
103918	119.000	**Steel Waler SRU 447 U120**	4472
103922	135.000	**Steel Waler SRU 497 U120**	4972
103925	146.000	**Steel Waler SRU 547 U120**	5472
103928	159.000	**Steel Waler SRU 597 U120**	5972

Universal Steel Waler Profile U120 used as waling for girder wall formwork and for diverse special applications. With adjustable spacers.

Notes

Permissible load: see PERI Design Tables.
SRU 120 Wy = 121.4 cm³, Iy = 728 cm⁴.
SRU 140 Wy = 172,8 cm³, Iy = 1210 cm⁴.





Accessory (not included)

135912	0.067	**Spacer SRU**

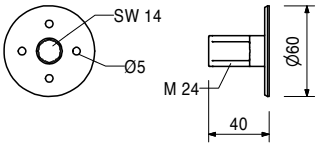
Art no.	Weight [kg]	
026420	0.123	**Anchor Posit. Stud M24 ga**

For fixing Anchor System M24 if the plywood formlining is not to be drilled through.

Notes

Allen Key SW14.



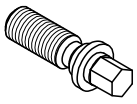


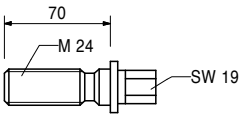
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]	
029270	0.331	**Advancing Screw M24 ga**

For fixing the Anchor System M24 if the plywood formlining has been drilled through.



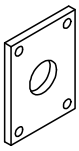


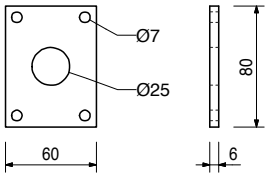
Accessory (not included)

029280	0.196	**Anchor Posit. Plate M24 ga**

Art no.	Weight [kg]	
029280	0.196	**Anchor Posit. Plate M24 ga**

For fixing the Anchor System M24 if the plywood formlining has been drilled through.



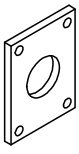


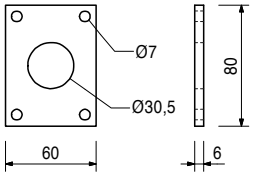
Accessory (not included)

029440	0.005	**Hex-Wood Screw DIN571-6x20-ga**

Art no.	Weight [kg]	
029380	0.184	**Anchor Posit. Plate M30 ga**

For fixing the M30 Anchor System if the plywood formlining is drilled through.



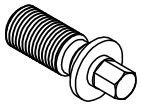


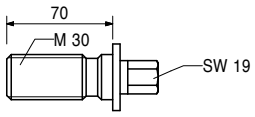
Accessory (not included)

029440	0.005	**Hex-Wood Screw DIN571-6x20-ga**

Art no.	Weight [kg]	
029450	0.339	**Advancing Screw M30x70 ga**

For fixing the M30 Anchor System if the plywood formlining is drilled through.





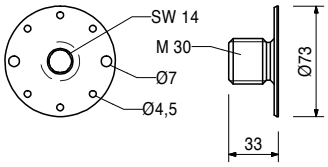
Accessory (not included)

029380	0.184	**Anchor Posit. Plate M30 ga**

Art no.	Weight [kg]	
026450	0.214	**Anchor Posit. Stud M30 ga**

For fixing the M30 Anchor System if the plywood formlining is not drilled through.



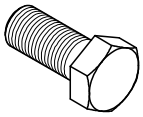


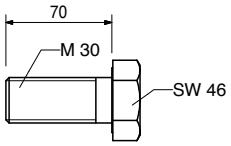
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]		L [mm]
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**	70

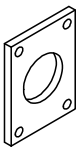
Alternative to Leading Screw M30 galvanized, item number: 029450.

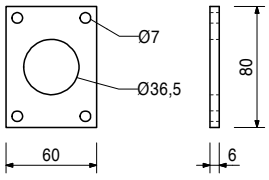




Art no.	Weight [kg]	
029390	0.170	**Anchor Posit. Plate M36 ga**

For fixing the M36 anchor system if the plywood formlining is drilled through.





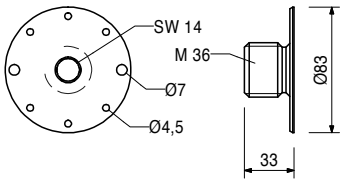
Accessory (not included)

029440	0.005	**Hex-Wood Screw DIN571-6x20-ga**

Art no.	Weight [kg]	
026460	0.308	**Anchor Posit. Stud M36 ga**

For fixing the M36 anchor system if the plywood formlining is not drilled through.



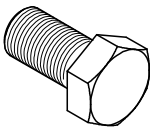


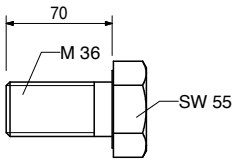
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]		L [mm]
029430	0.930	**Screw ISO4017-M36x070-8.8-ga**	70

Bolt for anchoring of climbing systems and as advancing bolt.



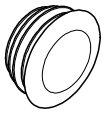


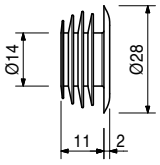
Art no.	Weight [kg]	
030300	0.002	**Plug Ø20-24mm**

For sealing unused tie holes Ø 20 to Ø 24 mm.

Notes

Delivery unit 250 pieces.

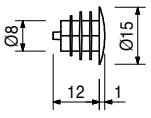




Art no.	Weight [kg]	
057093	0.001	**Plug SFL Ø15x8-13mm**

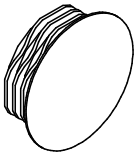
For sealing unused tie holes with Ø 11 mm to Ø 13.4 mm.

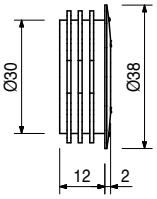




Art no.	Weight [kg]	
057094	0.004	**Plug SFL Ø38x30-13mm**

For closing advancing Anchor Holes Ø 32 mm to Ø 36 mm.



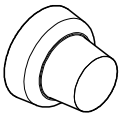


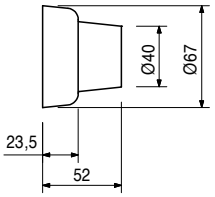
Art no.	Weight [kg]	
031652	0.247	**Concrete Cone KK M24 Ø67x52mm**

For closing anchor points with Climbing Cone-2, M24/DW15 or Screw-On Cone-2 M24/DW20.

Notes

Delivery unit 50 pieces.





Accessory (not included)

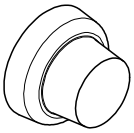
131709	9.980	**Sealing Adhesive-3 6-Cans-Set**

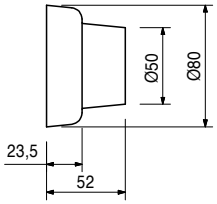
Art no.	Weight [kg]	
031653	0.364	**Concrete Cone KK M30 Ø80x52mm**

For closing anchor points with Climbing Cone-2 M30/DW20 or Screw Cone M30/DW26.

Notes

Delivery Unit 50 pieces.





Accessory (not included)

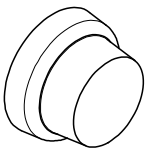
131709	9.980	**Sealing Adhesive-3 6-Cans-Set**

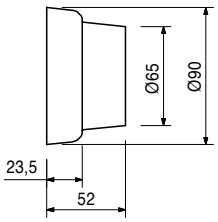
Art no.	Weight [kg]	
031654	0.512	**Concrete Cone KK M36 Ø90x52mm**

For closing anchor points with Climbing Cone-2 M36/DW26.

Notes

Delivery unit 50 pieces.



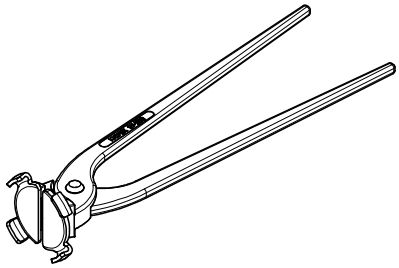


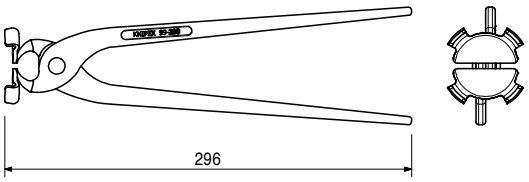
Accessory (not included)

131709	9.980	**Sealing Adhesive-3 6-Cans-Set**

Art no.	Weight [kg]	
031644	0.588	**Cone Pliers DK Ø58mm**

For holding Concrete Cones DK, SK or KK with corresponding diameter during installation.



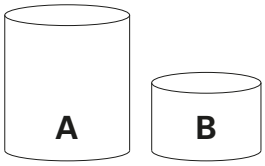


Art no.	Weight [kg]	
131709	9.980	**Sealing Adhesive-3 6-Cans-Set**

For bonding PERI Concrete Cones.

Notes

See Safety Data sheet!
Consisting of: 6 x Component A, 6 x Component B
Component A = Net quantity / Can 459 ml / 752 g
Component B = Net quantity / Can 356 ml / 583 g



Consists of

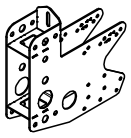
131710 Sealing Adhesive-3 Can CO-A 6 pc
131711 Sealing Adhesive-3 Can CO-B 6 pc

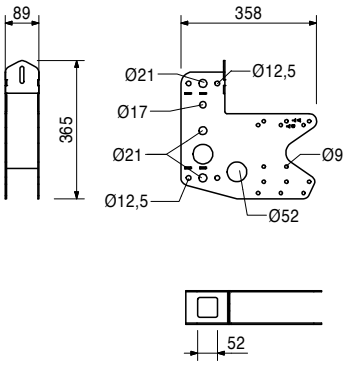
Art no.	Weight [kg]	
126088	4.390	**Guardrail Post Holder Multi**

For fixing of an end guardrail post on Girders GT 24, VT 20 or KH 80/160. Fixing of the guardrail posts by means of Screws M20.

Notes

Suitable for
Guardrail Post RCS 226 item no.: 109720
Guardrail Post RCS/SRU 184 item no.: 114328
Vertical scaffold tubes
Special post QR 50x50

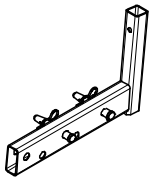


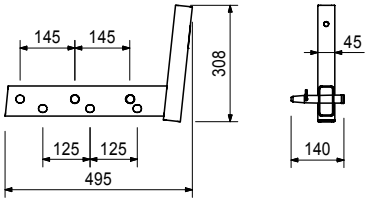


		Accessory (not included)
710285	0.050	**Screw ISO4014-M08-100-8.8-ga**
024090	0.005	**Self-cleaning Nut M8 coat**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
104131	3.940	**Guardrail Holder SRU/SRZ**

For assembling a guardrail to the Steel Walers SRU or SRZ Profile U100 to U140.





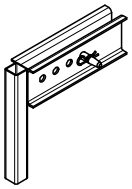
		Accessory (not included)
116292	4.720	**Guardrail Post-2 HSGP**
061260	6.150	**Guardrail Post SGP**

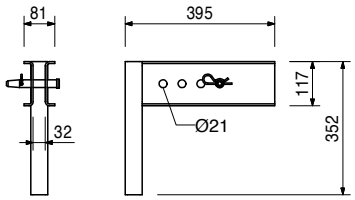
Consists of

105400 Pin Ø20x140mm ga 2 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
101290	5.670	**Guardrail Holder GT 24/VT 20**

For assembling a guardrail to GT 24 or VT 20 Girders.





Accessory (not included)

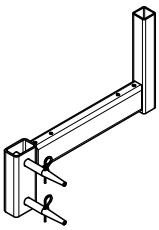
116292	4.720	**Guardrail Post-2 HSGP**
061260	6.150	**Guardrail Post SGP**

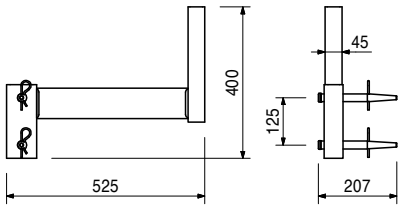
Consists of

105400 Pin Ø20x140mm ga 1 pc
018060 Cotter Pin 4/1 ga 1 pc

Art no.	Weight [kg]	
114557	6.980	**Platform Beam SRU**

For assembling a platform and guardrail at vertical Steel Waler SRU.





Accessory (not included)

116292	4.720	**Guardrail Post-2 HSGP**

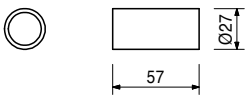
Consists of

104031 Fitting Pin Ø21x120mm 2 pc
018060 Cotter Pin 4/1 ga 2 pc

Art no.	Weight [kg]	
116363	0.089	**Spacer RCS 184**

Compensator between Angle Connector RCS/SRU and Guardrail Post RCS 184.

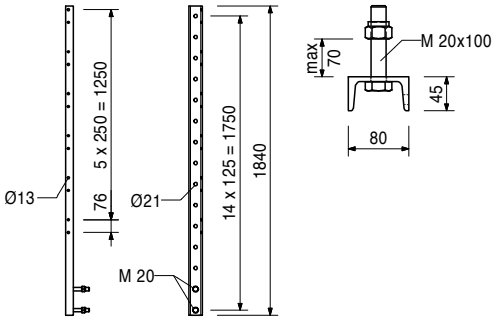




Art no.	Weight [kg]	
114328	16.600	**Guardrail Post RCS/SRU 184**

For assembly of the guardrail on the Platform Beam RCS/SRU or Guardrail Post Holder Multi.





		Accessory (not included)
780354	0.002	**Washer ISO7089-08-200HV-ga**
110296	0.220	**Clamp A64 DIN3570-M12-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
710709	0.036	**Screw DIN603-M08-065-4.8-ga-Nu**
057345	0.010	**Washer 9mm DIN 434 ga**

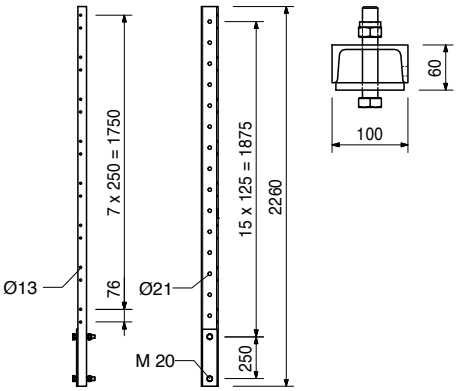
Consists of

114727 Screw ISO4017-M20x100-8-8-ga 2 pc
781053 Hex-Nut ISO7040-M20-8-ga 2 pc

Art no.	Weight [kg]	
109720	26.600	**Guardrail Post RCS 226**

For assembly of the guardrail on the main platform with RCS Climbing System or on Guardrail Post Holder Multi .





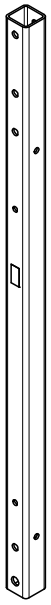
		Accessory (not included)
110296	0.220	**Clamp A64 DIN3570-M12-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
710709	0.036	**Screw DIN603-M08-065-4.8-ga-Nu**
780354	0.002	**Washer ISO7089-08-200HV-ga**
057345	0.010	**Washer 9mm DIN 434 ga**

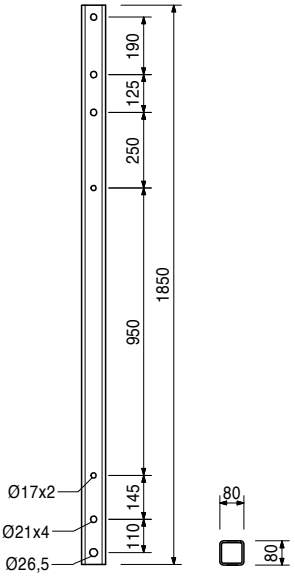
Consists of

104477 Screw ISO4014-M20x120-8.8-ga 2 pc
781053 Hex-Nut ISO7040-M20-8-ga 2 pc

Art no.	Weight [kg]	
126495	24.200	**Guardrail Post RCS-MP**

For fixation of the side protection on Material Platforms RCS-MP with horizontal Climbing Rail RCS.



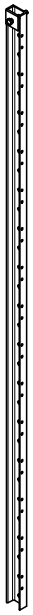


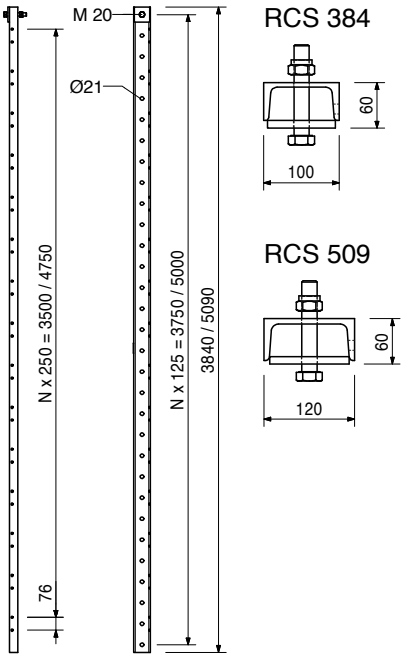
Accessory (not included)

104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
		Guardrail Posts RCS
109773	67.900	**Guardrail Post 509 RCS**
109721	40.700	**Guardrail Post 384 RCS**

For assembly of the guardrail on the intermediate and finishing platforms with RCS Climbing System or as horizontal strut in the bracing.





Consists of

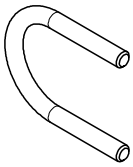
104477 Screw ISO4014-M20x120-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc

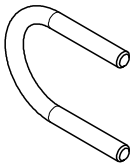
Art no.	Weight [kg]	
110296	0.220	**Clamp A64 DIN3570-M12-ga**

For assembling Scaffold Tubes on Guardrail Posts RCS.

Notes

Wrench size SW19.

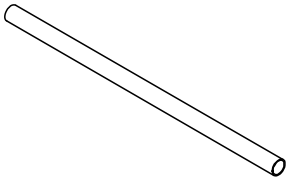


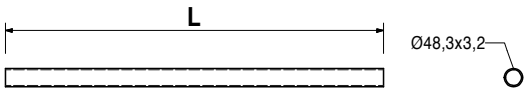


Accessory (not included)

710330	0.017	**Hex-Nut ISO4032-M12-8-ga**

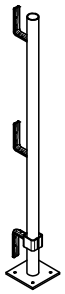
Art no.	Weight [kg]		L [mm]
		Scaff. Tubes 48.3x3.2mm ga	
026417	0.000	**Cutting Costs Scaffold Tube**	1
125976	8.900	**Scaff. Tube 48,3x3,2mm 2,5m ga**	2500
114287	12.500	**Scaff. Tube 48,3x3,2mm 3,5m ga**	3500
026411	3.550	**Scaff. Tube 48.3x3.2mm 1m ga**	1000
026412	7.100	**Scaff. Tube 48.3x3.2mm 2m ga**	2000
026413	10.650	**Scaff. Tube 48.3x3.2mm 3m ga**	3000
026414	14.200	**Scaff. Tube 48.3x3.2mm 4m ga**	4000
026419	17.750	**Scaff. Tube 48.3x3.2mm 5m ga**	5000
026418	21.600	**Scaff. Tube 48.3x3.2mm 6m ga**	6000
026415	3.550	**Scaff. Tube 48.3x3.2mm lfm ga**	1000

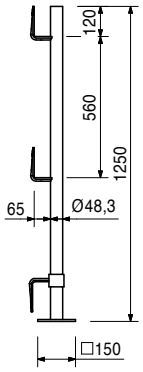




Art no.	Weight [kg]	
019040	6.480	**Guardrail Post PD8**

As guardrail for different systems. Screwed onto sub-structure.

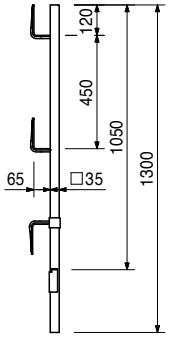




Art no.	Weight [kg]	
116292	4.720	**Guardrail Post-2 HSGP**

As guardrail for different systems.

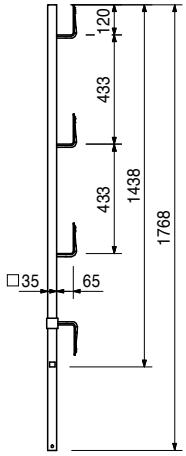




Art no.	Weight [kg]	
061260	6.150	**Guardrail Post SGP**

As guardrail for different systems.





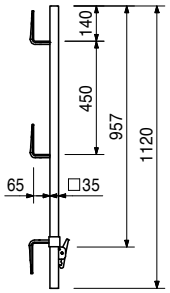
Art no.	Weight [kg]	
117325	4.270	**Post PP**

For the fixation of the Side-Mesh-Barriers.

Notes

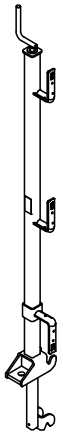
Distance of posts with Side-Mesh-Barrier PMB 260 max. 2.40 m.

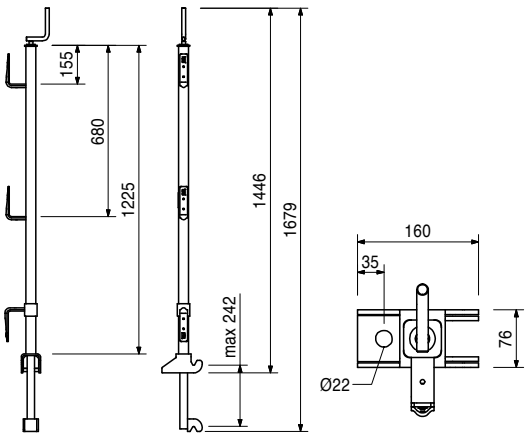




Art no.	Weight [kg]	
114299	9.520	**Guardrail Post GKB**

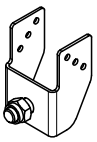
For fixing to the reinforcement or to the embedded anchors.

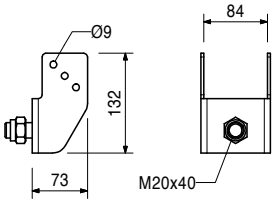




Art no.	Weight [kg]	
110330	0.865	**Girder Connector M20**

For the fixation of 80 mm wide decking supports made of wood on Platform Beams with suitable boring of Ø 21 mm.





Accessory (not included)

024470	0.008	**Wood Screw 6x60 SK-TX30 HPI**

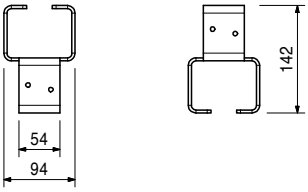
Consists of

706458 Screw ISO4017-M20x040-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc

Art no.	Weight [kg]	
129724	0.817	**Cross Connector GT 24/GT 24**

For the connection of crossing GT 24 Formwork Girders.



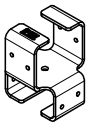


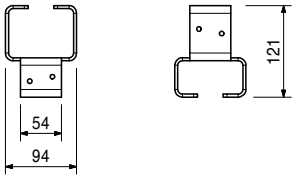
Accessory (not included)

024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
129722	0.746	**Cross Connector GT 24/VT 20**

For connecting a Girder GT 24 to a crossing Girder VT 20.



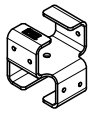


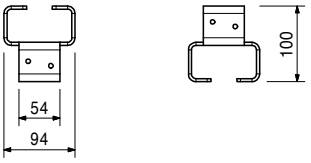
Accessory (not included)

024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
129817	0.675	**Cross Connector VT 20/VT 20**

For the connection of crossing Girders VT 20.





Accessory (not included)

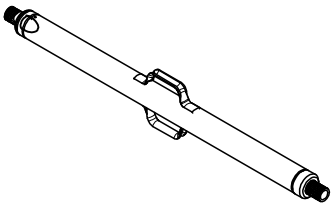
024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

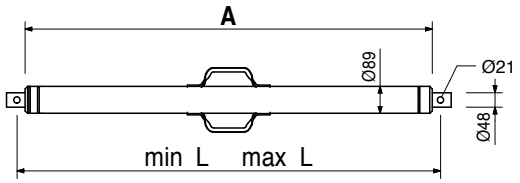
Art no.	Weight [kg]		min. L [mm]	max. L [mm]
		Heavy-Duty Spindles SLS		
111035	12.000	**Heavy Duty Spindle SLS 40-80**	400	800
101773	15.300	**Heavy Duty Spindle SLS 80-140**	800	1400
101774	18.300	**Heavy Duty Spindle SLS 100-180**	1000	1800
101776	24.900	**Heavy Duty Spindle SLS 140-240**	1400	2400
101778	32.300	**Heavy Duty Spindle SLS 200-300**	2000	3000
101779	38.500	**Heavy Duty Spindle SLS 260-360**	2600	3600
109726	44.800	**Heavy Duty Spindle SLS 320-420**	3200	4200
109785	51.000	**Heavy Duty Spindle SLS 380-480**	3800	4800

Used as adjustable spindle for truss beams made of Steel Walers SRU and Climbing Rails RCS.

Notes

Permissible load see PERI Design Tables, Type Test is available.



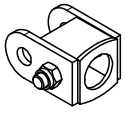


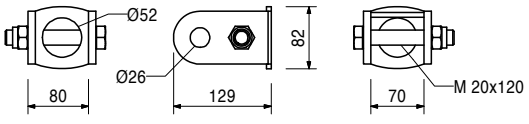
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
110477	3.990	**Spindle Adaptor SLS/RCS**

Art no.	Weight [kg]	
115388	1.910	**Forkhead Adaptor SLS/RCS**

For horizontal bracing of the climbing protection panel against the Slab Stopend Shoe RCS with a Heavy Duty Spindle SLS.



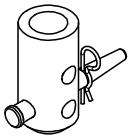


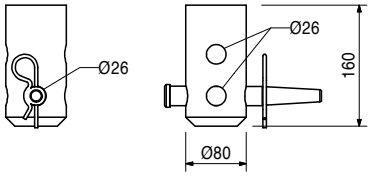
Consists of

104477 Screw ISO4014-M20x120-8.8-ga 1 pc
781053 Hex-Nut ISO7040-M20-8-ga 1 pc

Art no.	Weight [kg]	
116039	4.910	**Spindle Adaptor SKS/RCS**

For connecting the Compression Spindle SCS/RCS to the Climbing Rail RCS.





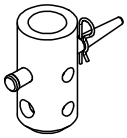
		Accessory (not included)
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

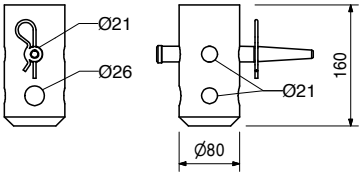
Consists of

111567 Fitting Pin Ø26x120mm 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
110477	3.990	**Spindle Adaptor SLS/RCS**

For connecting the Heavy-Duty Spindle SLS to the Climbing Rail RCS.





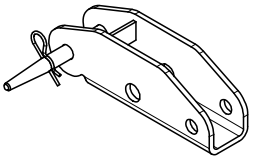
		Accessory (not included)
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

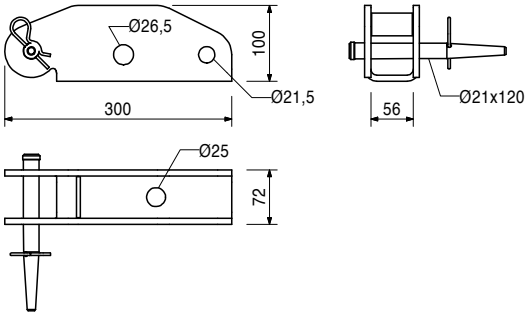
Consists of

104031 Fitting Pin Ø21x120mm 1 pc
018060 Cotter Pin 4/1 ga 1 pc

Art no.	Weight [kg]	
115298	4.210	**Spindle Shoe SLS/RCS M24**

For horizontal bracing of the climbing protection panel against the Advancing Anchor M24 set in concrete with a Heavy Duty Spindle SLS.





		Accessory (not included)
104031	0.462	**Fitting Pin Ø21x120mm**
111567	0.729	**Fitting Pin Ø26x120mm**

Consists of

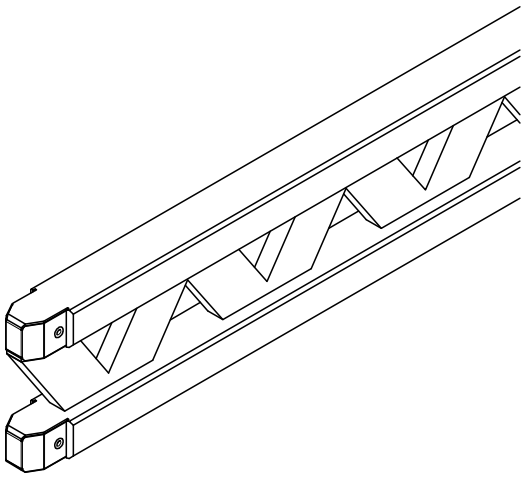
104031 Fitting Pin Ø21x120mm 1 pc
018060 Cotter Pin 4/1 ga 1 pc

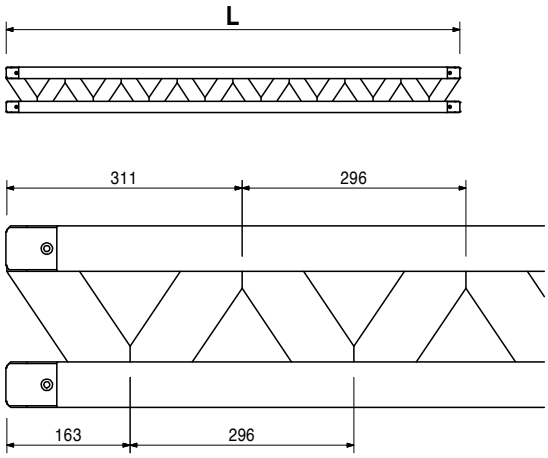
Art no.	Weight [kg]		L [mm]
		Girders GT 24	
075100	5.300	**Girder GT 24 90**	918
075120	7.100	**Girder GT 24 120**	1214
075150	8.900	**Girder GT 24 150**	1510
075180	10.600	**Girder GT 24 180**	1806
075210	12.400	**Girder GT 24 210**	2102
075240	14.200	**Girder GT 24 240**	2398
075270	15.900	**Girder GT 24 270**	2694
075300	17.700	**Girder GT 24 300**	2990
075330	19.500	**Girder GT 24 330**	3286
075360	21.200	**Girder GT 24 360**	3582
075390	23.000	**Girder GT 24 390**	3878
075420	24.800	**Girder GT 24 420**	4174
075450	26.600	**Girder GT 24 450**	4470
075480	28.300	**Girder GT 24 480**	4766
075510	30.100	**Girder GT 24 510**	5062
075540	31.900	**Girder GT 24 540**	5358
075570	33.600	**Girder GT 24 570**	5654
075600	35.400	**Girder GT 24 600**	5950

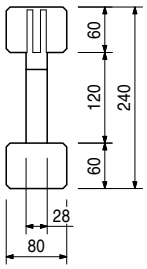
Universal formwork girder made of wood.

Notes

Special lengths over 6 m are possible and can be provided on request.







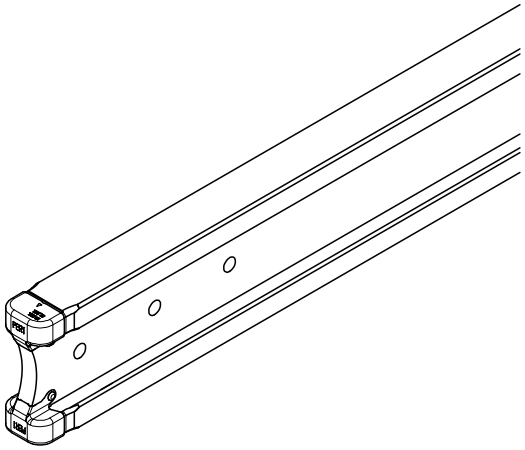
Art no.	Weight [kg]	
078010	36.875	**Girder GT 24 625 spec. Length**

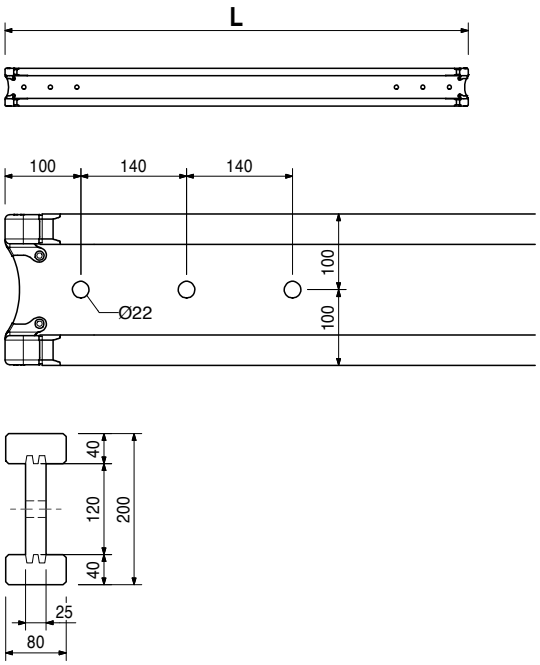
Art no.	Weight [kg]		L [mm]
		Girders VT 20K	
074990	8.230	**Girder VT 20K 145**	1447
074905	12.010	**Girder VT 20K 215**	2152
074910	13.630	**Girder VT 20K 245**	2452
074890	14.710	**Girder VT 20K 265**	2652
074920	16.060	**Girder VT 20K 290**	2902
074930	18.220	**Girder VT 20K 330**	3292
074940	19.840	**Girder VT 20K 360**	3592
074950	21.460	**Girder VT 20K 390**	3892
074960	24.700	**Girder VT 20K 450**	4492
074970	26.860	**Girder VT 20K 490**	4902
074980	32.260	**Girder VT 20K 590**	5902

Universal formwork girder made of wood.

Notes

The girder fulfils all requirements of DIN EN 13377 class P20 (Declaration of Conformity).



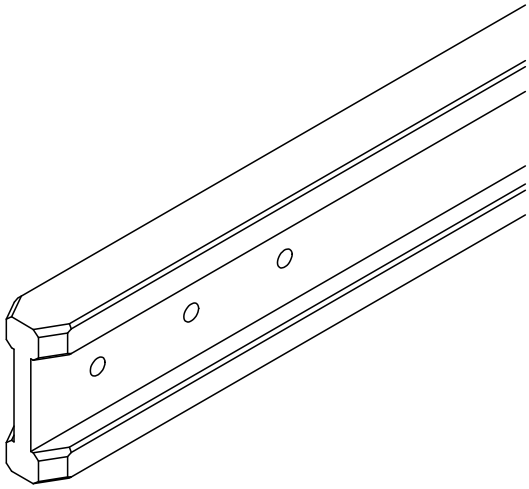


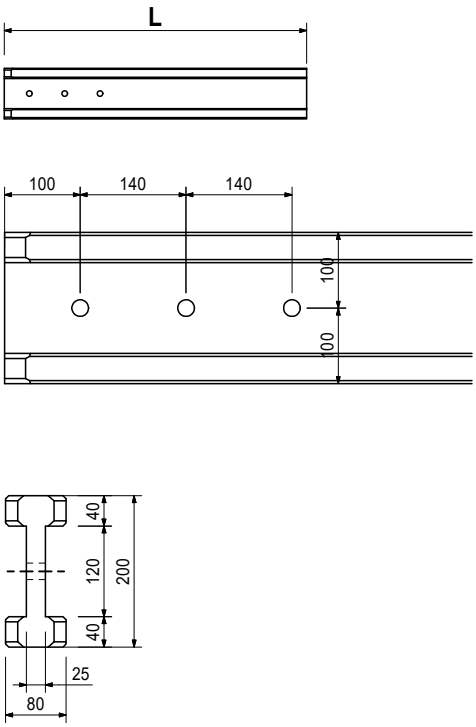
Art no.	Weight [kg]	
		Girders VT 20 Alpha
073650	7.830	**Girder VT 20 Alpha 145**
073651	11.610	**Girder VT 20 Alpha 215**
073652	13.230	**Girder VT 20 Alpha 245**
073653	14.310	**Girder VT 20 Alpha 265**
073654	15.660	**Girder VT 20 Alpha 290**
073655	17.820	**Girder VT 20 Alpha 330**
073656	19.440	**Girder VT 20 Alpha 360**
073657	21.060	**Girder VT 20 Alpha 390**
073658	24.300	**Girder VT 20 Alpha 450**
073659	26.460	**Girder VT 20 Alpha 490**
073660	31.860	**Girder VT 20 Alpha 590**

Universal formwork girder made of wood.

Notes

The girder fulfils all requirements of DIN EN 13377 class P20 (Declaration of Conformity).

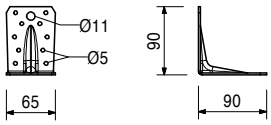




Art no.	Weight [kg]	
123478	0.255	**Angle Connector 90x90x65mm**

For diverse timber connections.



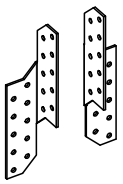


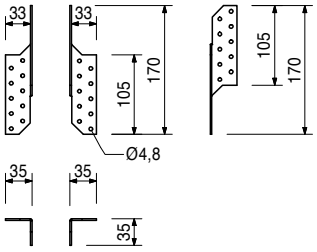
Accessory (not included)

129711	0.010	**Wood Screw 6x20 HRK-TX30 HSX**
024550	0.005	**Wood Screw 8x20 SK-TX30 HSX**

Art no.	Weight [kg]	
018290	0.098	**Framing Clip ga**

For various wood connections.





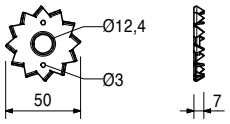
Accessory (not included)

018280	1.000	**Double Head Nail 65mm**

Art no.	Weight [kg]	
070030	0.015	**Plate Conn. Ø50/12mm single**

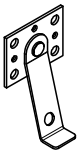
To strengthen the timber fixation and for other connections of timber with steel.

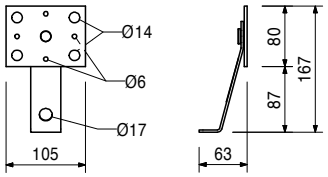




Art no.	Weight [kg]	
114937	0.402	**Fixation Bar RCS**

For fixing the cover flap to the climbing protection panel during climbing.



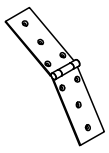


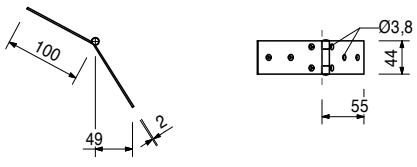
Accessory (not included)

111437	0.004	**Wood Screw 5x20 SK-TX25 HSX**

Art no.	Weight [kg]	
111436	0.150	**Hinge DIN7957-200-ST-zn**

For mounting the cover flap at the climbing protection panel.



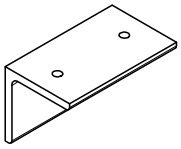


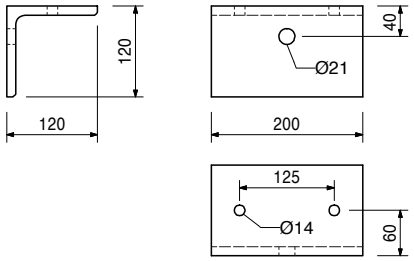
Accessory (not included)

111437	0.004	**Wood Screw 5x20 SK-TX20 HSX**
110642	0.006	**Wood Screw 5x40 SK-TX20 HSX**

Art no.	Weight [kg]	
110289	4.260	**L-Angle RCS 120x120x200mm**

For fixing end handrail posts on the decking.





Accessory (not included)

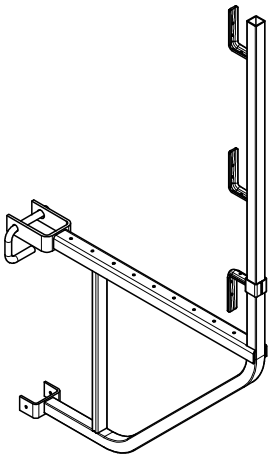
131404	1.080	**Screw-On Cou.-2 HT B Ø48mm M20**

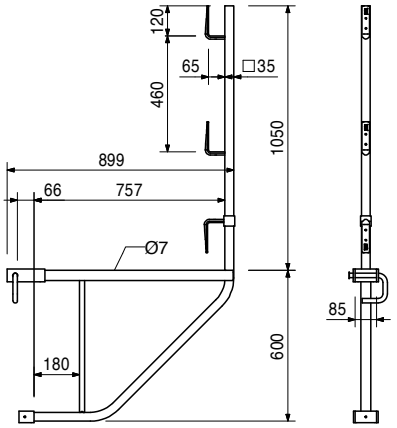
Art no.	Weight [kg]	
027110	11.000	**Scaffold Bracket GB 80**

For assembly of a working and concreting scaffold with GT 24 Girder.

Notes

Permissible load 150 kg/m². Maximum width of influence 1.25 m.



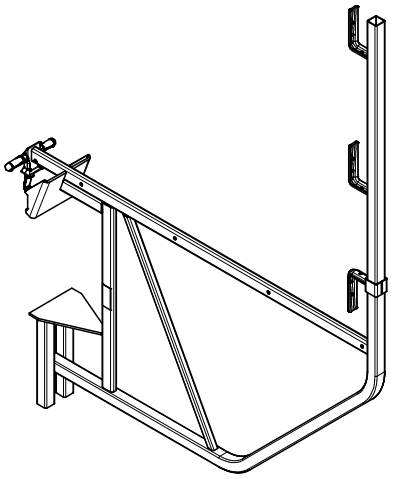


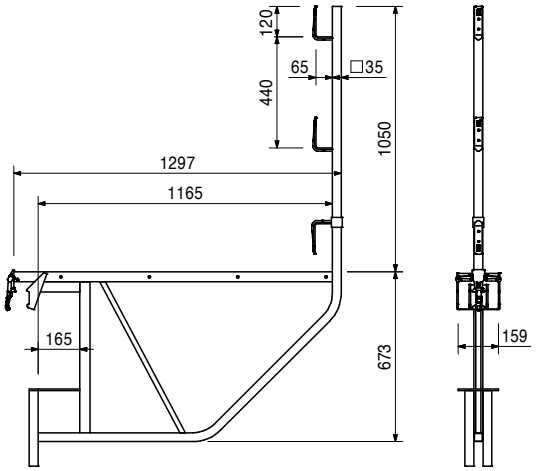
Art no.	Weight [kg]	
023680	16.600	**Scaffold Bracket TRG 120**

For assembly of a working and concreting scaffold at MAXIMO or TRIO Panels.
Mounting on horizontal or vertical struts is possible.

Notes

Automatically secured by hooking.
Permissible load 150 kg/m² with maximum width of influence 1.35 m.



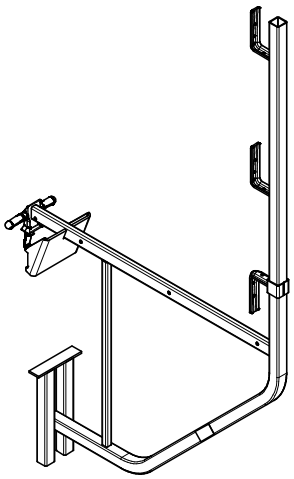


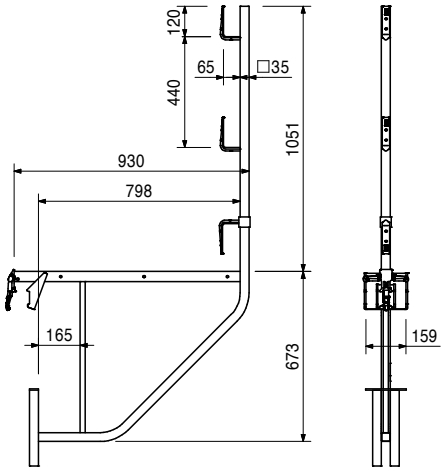
Art no.	Weight [kg]	
023670	12.500	**Scaffold Bracket TRG 80**

For assembly of a working and concreting scaffold at MAXIMO or TRIO Panels.
Mounting on horizontal or vertical struts is possible.

Notes

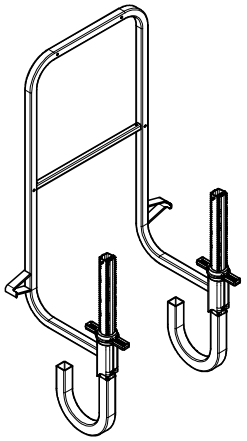
Permissible load 150 kg/m² with maximum width of influence 1.35 m.

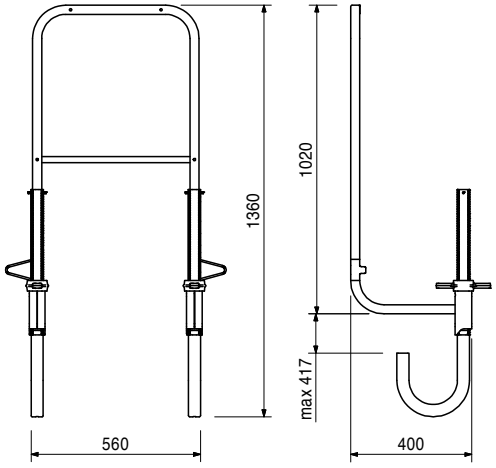




Art no.	Weight [kg]	
065066	14.800	**End Guardrail Frame 55**

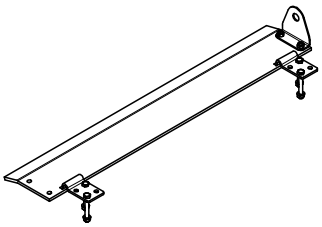
End guardrail for clamping to all PERI Scaffold Platforms and Climbing Systems.

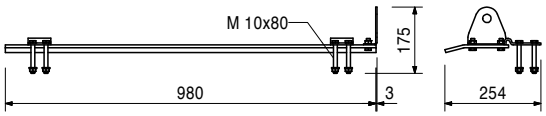




Art no.	Weight [kg]	
117771	11.400	**Platform Flap RCS 90**

Hinged cover for the gap between the extending platform and the building ceiling. Fastening to the Platform Decking.

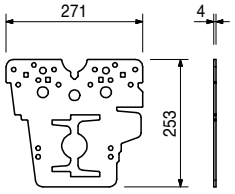




Art no.	Weight [kg]	
136622	1.450	**Multifunction Plate RCS**

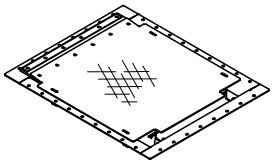
For fixing the Guardrail Posts RCS and Scaffold Tubes Ø 48,3 mm to platform decks and decking girders.

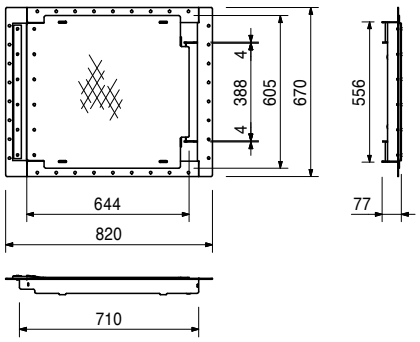




Art no.	Weight [kg]	
126431	12.300	**Hatch-2 RCS 55x60 foldable**

Self-closing hatch for ladder access. Clear opening approx. 55 x 60 cm.
Ladder fixation with bolts or by hanging up.





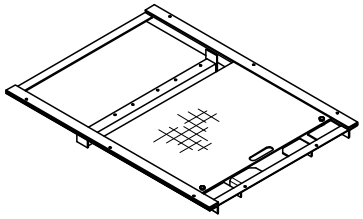
		Accessory (not included)
024540	0.005	**Wood Screw 6x40 SK-TX30 HPI**
710224	0.047	**Screw ISO4017-M12x040-8.8-ga**
710381	0.017	**Hex-Nut ISO7040-M12-8-ga**

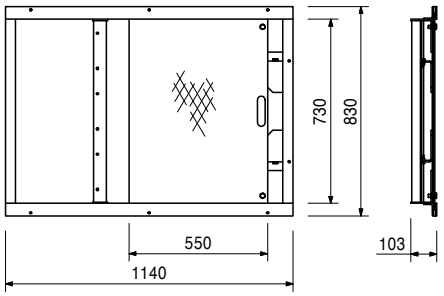
Consists of

126785 Hatch Hinge RCS 1 pc
108647 Rivet ISO15979-5.0x20-ST/ST 12 pc
022230 Cotter Pin 5/1 ga 2 pc

Art no.	Weight [kg]	
051430	37.900	**Sliding Hatch**

Non self-closing hatch for ladder access. Clear opening approx. 73 x 55 cm. Ladder fixation with bolts.





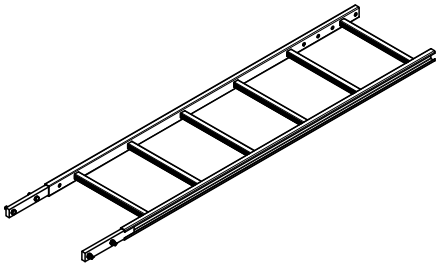
		Accessory (not included)
024540	0.005	**Wood Screw 6x40 SK-TX30 HPI**

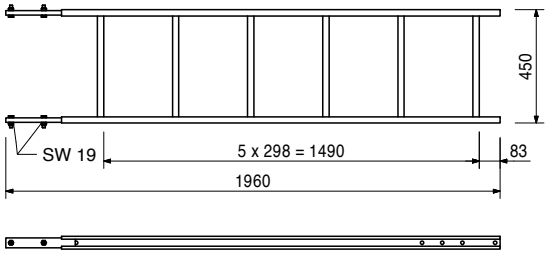
Consists of

710266 Screw ISO4017-M12x025-8.8-ga 4 pc
710381 Hex-Nut ISO7040-M12-8-ga 4 pc

Art no.	Weight [kg]	
051410	11.700	**Ladder 180/6**

For accessing PERI Formwork Systems.



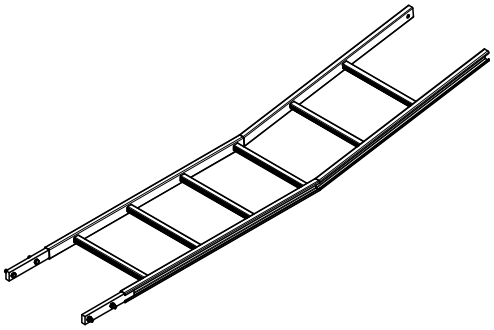


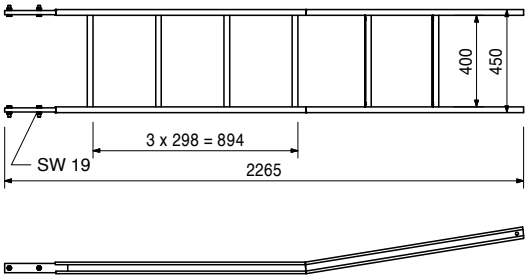
Consists of

710224 Screw ISO4017-M12x040-8.8-ga 4 pc
710381 Hex-Nut ISO7040-M12-8-ga 4 pc

Art no.	Weight [kg]	
051420	12.800	**Ladder 220/6**

As access for PERI Formwork Systems.



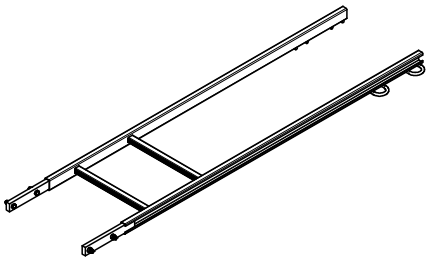


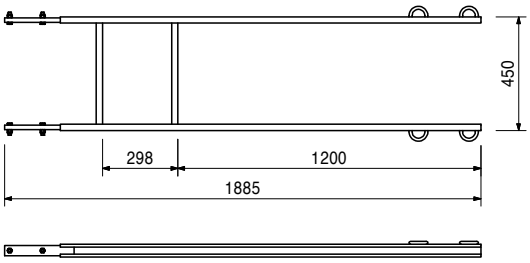
Consists of

710224 Screw ISO4017-M12x040-8.8-ga 4 pc
710381 Hex-Nut ISO7040-M12-8-ga 4 pc

Art no.	Weight [kg]	
103724	10.400	**End Ladder 180/2 cpl**

As access for PERI Formwork Systems.



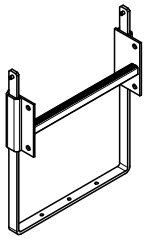


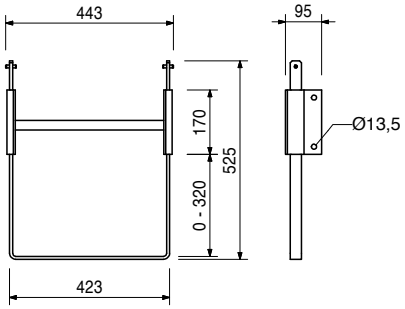
Consists of

710224 Screw ISO4017-M12x040-8.8-ga 4 pc
710381 Hex-Nut ISO7040-M12-8-ga 4 pc

Art no.	Weight [kg]	
109105	5.070	**Ladder Base 30 ga**

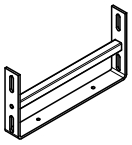
For horizontal fixing of ladders on the platform decking.

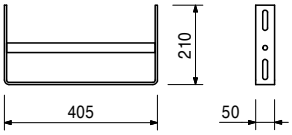




Art no.	Weight [kg]	
051460	2.180	**Ladder Base ga**

As bottom ladder connection and for securing ladders against sliding on the scaffold decks.

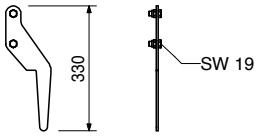




Art no.	Weight [kg]	
103718	0.684	**Ladder Hook**

For adjusting the bottom ladder. Always use in pairs.



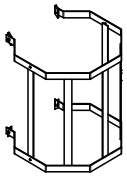


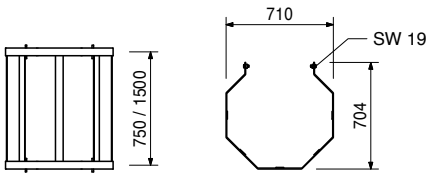
Consists of

710266 Screw ISO4017-M12x025-8.8-ga 2 pc
710381 Hex-Nut ISO7040-M12-8-ga 2 pc

Art no.	Weight [kg]	
		Ladder Safety Cages
104132	15.600	**Ladder Safety Cage 75**
051450	25.200	**Ladder Safety Cage 150**

Ladder cage for PERI Ladder Access.



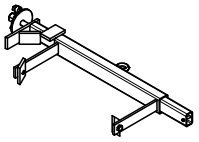


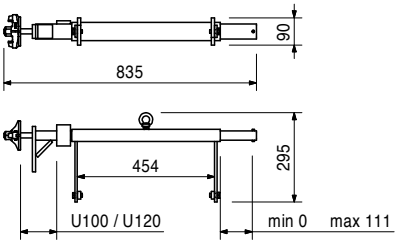
Consists of

710266 Screw ISO4017-M12x025-8.8-ga 4 pc
701763 Clamping Plate FL 25x10x90mm 4 pc

Art no.	Weight [kg]	
111165	6.260	**Ladder Connector VARIO adj.**

For connecting ladders to Steel Walers SRZ or SRU Profile U100 – U120.



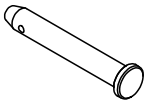


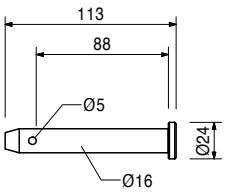
Consists of

710266 Screw ISO4017-M12x025-8.8-ga 2 pc
701763 Clamping Plate FL 25x10x90mm 2 pc

Art no.	Weight [kg]	
118463	0.181	**Pin Ø16x90mm coat**

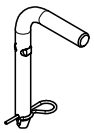
For different connections. High strength.

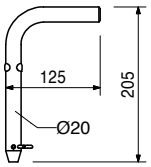




Art no.	Weight [kg]	
037160	0.736	**Pin Ø20x205mm ga**

For various connections.



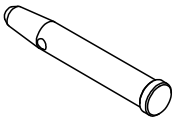


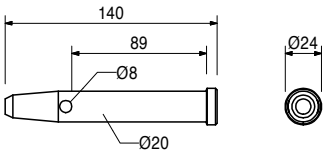
Consists of

018060 Cotter Pin 4/1 ga 1 pc

Art no.	Weight [kg]	
105400	0.330	**Pin Ø20x140mm ga**

For different connections.



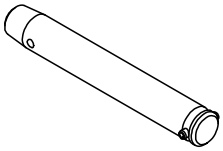


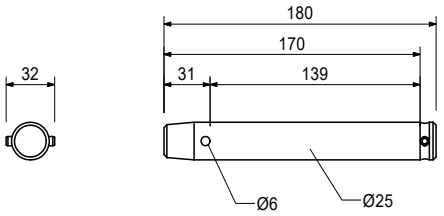
Accessory (not included)

018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
715936	0.672	**Pin with Clamping Sleeve**

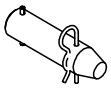
For different connections. High strength.

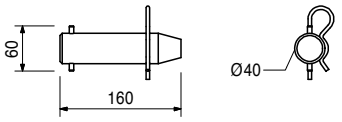




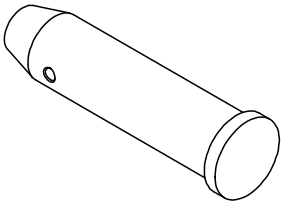
Art no.	Weight [kg]	
127400	1.490	**Pin Ø40x160mm**

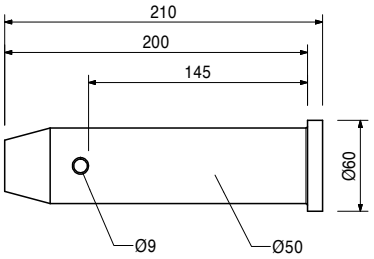
For different connections.



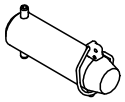


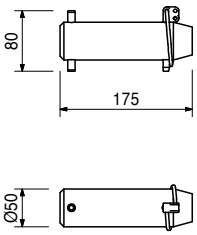
Art no.	Weight [kg]	
710545	3.150	**Pin Ø50x150mm coat**





Art no.	Weight [kg]	
127397	2.660	**Pin Ø50x175mm**

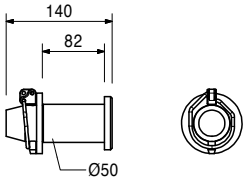




Art no.	Weight [kg]	
130831	2.430	**Pin Hinge Connector RCS**

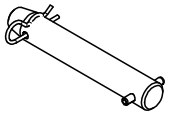
For different connections. High strength.

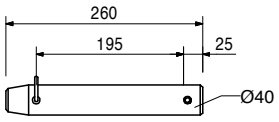




Art no.	Weight [kg]	
112547	2.490	**Pin HD Ø40x260mm**

For connecting the Truss Strut HD with the Truss Bracket HD.



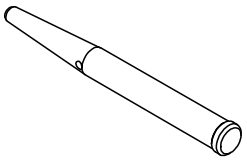


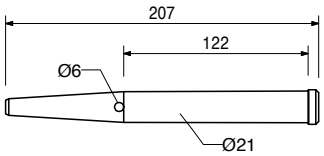
Consists of

722457 Sleeve ISO8752-10.0x070-coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

Art no.	Weight [kg]	
104031	0.462	**Fitting Pin Ø21x120mm**

For different connections. High strength.



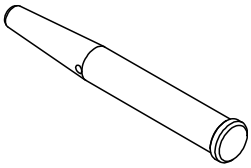


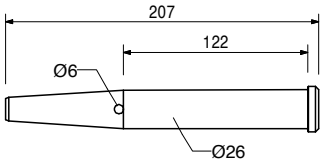
Accessory (not included)

018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
111567	0.729	**Fitting Pin Ø26x120mm**

For different connections. High strength.

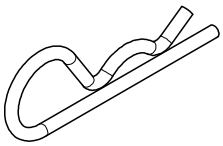




Accessory (not included)

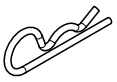
018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
018060	0.014	**Cotter Pin 4/1 ga**



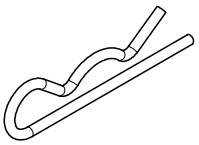


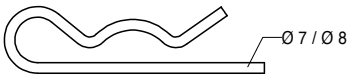
Art no.	Weight [kg]	
022230	0.033	**Cotter Pin 5/1 ga**



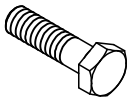


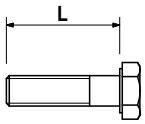
Art no.	Weight [kg]		
710618	0.098	**Cotter Pin 8/1 coat**	





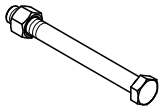
Art no.	Weight [kg]		L [mm]
		Screws ISO4014-8.8-ga	
710285	0.050	**Screw ISO4014-M08-100-8.8-ga**	100
101949	0.015	**Screw ISO4014-M08x030-8.8-ga**	30
710220	0.087	**Screw ISO4014-M12x080-8.8-ga**	80
024900	0.255	**Screw ISO4014-M20x080-8.8-ga**	80
024910	0.303	**Screw ISO4014-M20x080-8.8-ga**	100
710226	0.340	**Screw ISO4014-M20x090-8.8-ga**	90
711078	0.360	**Screw ISO4014-M20x130-8.8-ga**	130
113766	0.518	**Screw ISO4014-M20x180-8.8-ga**	180

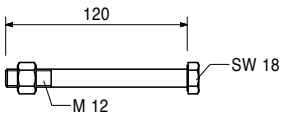




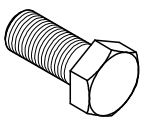
Art no.	Weight [kg]		L [mm]
070100	0.132	**Screw ISO4016-M12x120-4.6-ga-N**	120

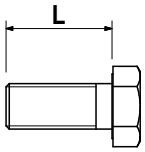
For uses with small loads, including nut.





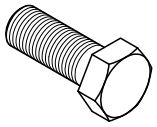
Art no.	Weight [kg]		L [mm]
		Screws ISO4017-8.8-ga	
710224	0.047	**Screw ISO4017-M12x040-8.8-ga**	40
110598	0.142	**Screw ISO4017-M12x140-8.8-ga**	140
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**	240
123844	0.130	**Screw ISO4017-M20x035-8.8-ga**	35
780357	0.178	**Screw ISO4017-M20x050-8.8-ga**	50
721912	0.244	**Screw ISO4017-M20x070-8.8-ga**	70
706480	0.214	**Screw ISO4017-M24x030-8.8-ga**	30
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**	70
111759	0.760	**Screw ISO4017-M30x090-8.8-ga**	90

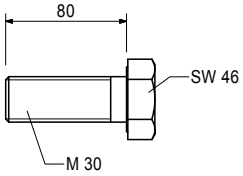




Art no.	Weight [kg]	
123843	0.623	**Screw ISO4017-M30x080-10.9**

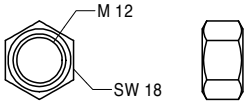
For attaching Anchor Shoe H ACS and Anchor Shoe V ACS to Climbing Cone-2 M30/DW20 or Screw-On Cone M30/DW26.





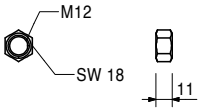
Art no.	Weight [kg]	
104526	0.017	**Hex-Nut ISO4032-M12-8**



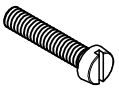


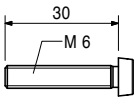
Art no.	Weight [kg]	
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**



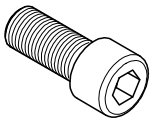


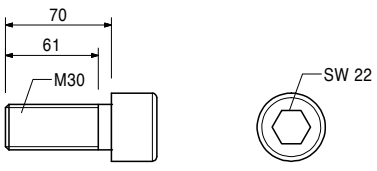
Art no.	Weight [kg]	
051759	0.050	**Screw ISO1207-M06x030-4.8-ga**





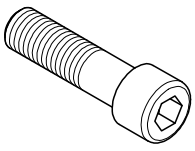
Art no.	Weight [kg]		L [mm]
113007	0.700	**Screw ISO4762-M30x070-8.8-ga**	70

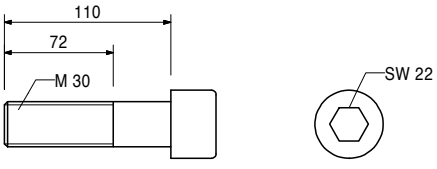




Art no.	Weight [kg]	
051728	0.800	**Screw ISO4762-M30x110-10.9**

For attaching Climbing Shoe ACS, Climbing Shoe-2 ACS and Anchor Tube ACS right or left to Climbing Cone-2 M30/DW20 or Screw-On Cone M30/DW26





Art no.	Weight [kg]	
		Hex-Nuts ISO7040-ga
711071	0.004	**Hex-Nut ISO7040-M08-8-ga**
710381	0.017	**Hex-Nut ISO7040-M12-8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Self-locking.



Art no.	Weight [kg]	
130341	0.063	**Hex-Nut ISO7042-M20-8-ga**

Self-locking.



Art no.	Weight [kg]	
		Washers ISO7089-200 HV-ga
706454	0.017	**Washer ISO7089-20-200HV-ga**
725574	0.009	**Washer ISO7089-14-200HV-ga**
780354	0.002	**Washer ISO7089-08-200HV-ga**



Art no.	Weight [kg]	
722356	0.002	**Washer ISO7090-08-200HV**



Art no.	Weight [kg]	
		Washers ISO7093-1-200 HV-ga
750350	0.027	**Washer ISO7093-1-12-200HV-ga**
710342	0.007	**Washer ISO7093-1-08-200HV-ga**



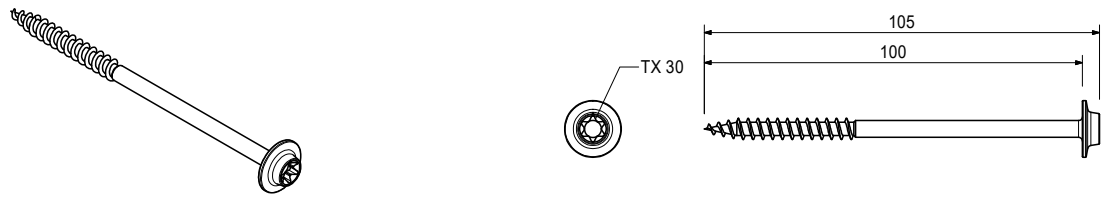
Art no.	Weight [kg]	
		Washers ISO7094-100HV-ga
113819	0.368	**Washer ISO7094-30-100HV-ga**
129975	0.210	**Washer ISO7094-24-100HV-ga**
113350	0.174	**Washer ISO7094-20-100HV-ga**
113349	0.087	**Washer ISO7094-16-100HV-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**
125719	0.019	**Washer ISO7094-10-100HV-ga**
113347	0.013	**Washer ISO7094-08-100HV-ga**



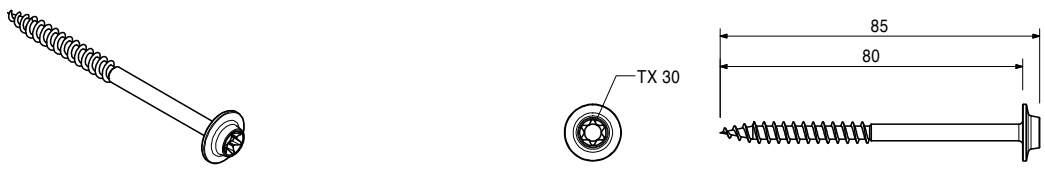
Art no.	Weight [kg]	
		Wood Screws SK-HPI
113806	0.002	**Wood Screw 4.5x40 SK-TX20 HPI**
024540	0.005	**Wood Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood Screw 6x60 SK-TX30 HPI**
024670	0.010	**Wood Screw 6x60 SK-TX30 HPI ma**
110272	0.006	**Wood Screw 6x60 ZK-TX30 HPI**
024690	0.008	**Wood Screw 6x80 SK-TX30 HPI**
109790	0.008	**Wood Screw 8x35 SK-TX30 HPI**
103444	0.009	**Wood Screw 8x37 SK-TX30 HPI**
104892	0.010	**Wood Screw 8x44 SK-TX30 HPI**
104647	0.013	**Wood Screw 8x58 SK-TX30 HPI**
103443	0.036	**Wood Screw 8x78 SK-TX30 HPI**



Art no.	Weight [kg]	
104911	0.013	**Wood-Screw 6x100 RK-TX30 HPI**



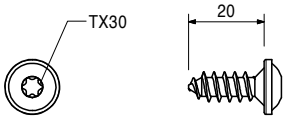
Art no.	Weight [kg]	
104912	0.011	**Wood-Screw 6x80 RK-TX30 HPI**



Art no.	Weight [kg]		L [mm]
024550	0.005	**Wood-Screw 8x20 SK-TX30 HSX**	20

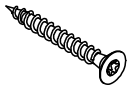
For Torx blade TX30. Self-drilling.

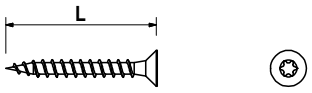




Art no.	Weight [kg]	
		Wood Schrews SK HSK
102109	0.005	**Wood Screw 3.5x45 SK-Z2 HSX**
138247	0.005	**Wood Screw 4x70 SK-TX20 HSX**
111437	0.004	**Wood Screw 5x20 SK-TX25 HSX**
138238	0.004	**Wood Screw 5x25 SK-TX20 HSX**
105847	0.005	**Wood Screw 5x25 SK-Z2 HSX**
110642	0.006	**Wood Screw 5x40 SK-TX20 HSX**
138239	0.006	**Wood Screw 6x60 SK-TX30 HSX**
138240	0.006	**Wood Screw 6x70 SK-TX30 HSX**
138241	0.006	**Wood Screw 6x80 SK-TX30 HSX**
138242	0.006	**Wood Screw 6x90 SK-TX30 HSX**
024950	0.012	**Wood Screw 6x100 SK-TX30 HSX**
024960	0.015	**Wood Screw 6x120 SK-TX30 HSX**
024970	0.017	**Wood Screw 6x140 SK-TX30 HSX**
024980	0.019	**Wood Screw 6x160 SK-TX30 HSX**
024990	0.021	**Wood Screw 6x180 SK-TX30 HSX**

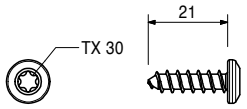
Cross-recessed countersunk head screws. For mounting the edge strip to the edge strip retaining clip.



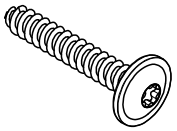


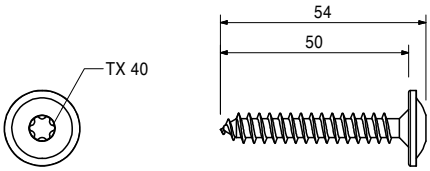
Art no.	Weight [kg]	
129711	0.010	**Wood Screw 6x20 HRK-TX30 HSX**



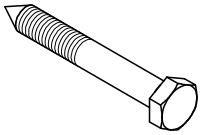


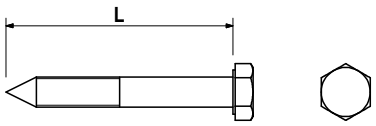
Art no.	Weight [kg]		L [mm]
138246	0.005	**Wood Screw 8x50 TK-TX40 HSX**	54





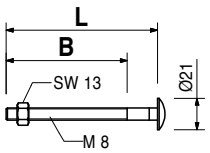
Art no.	Weight [kg]		L [mm]
		Hex-Wood-Screws DIN571 ga	
024270	0.023	**Hex-Wood Screw DIN571-8x60-ga**	60
029440	0.005	**Hex-Wood Screw DIN571-6x20-ga**	20





Art no.	Weight [kg]		B [mm]	L [mm]
		Screws DIN603-M08-ga-Nu		
710295	0.028	**Screw DIN603-M08x045-4.8-ga-Nu**	22	45
710326	0.030	**Screw DIN603-M08x060-4.8-ga-Nu**	22	60
710709	0.036	**Screw DIN603-M08x065-4.8-ga-Nu**	22	65
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**	80	100
108834	0.085	**Screw DIN603-M08x180-4.6-ga-Nu**	28	180
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**	150	200

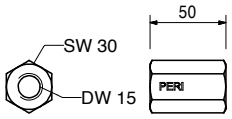




Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 or B15.



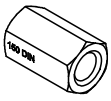


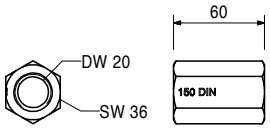
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab**

For anchoring with Tie Rod DW20 or B20.

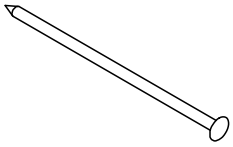
Notes

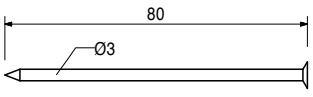
Weldable! Permissible load 150 kN.



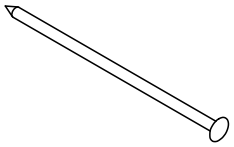


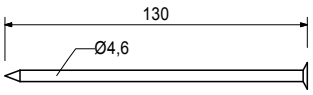
Art no.	Weight [kg]	
710312	0.005	**Wire Nail 3.0x80mm**





Art no.	Weight [kg]	
129157	0.017	**Wire Nail 4.6x130mm**

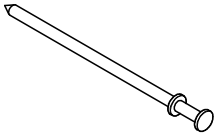


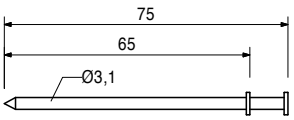


Art no.	Weight [kg]	
018280	1.000	**Double Head Nail 65mm**

Notes

Delivery unit: carton with 1000 pieces.



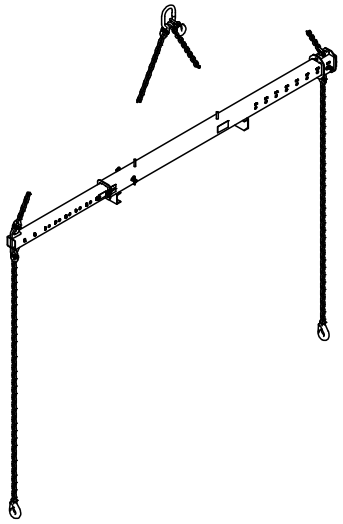


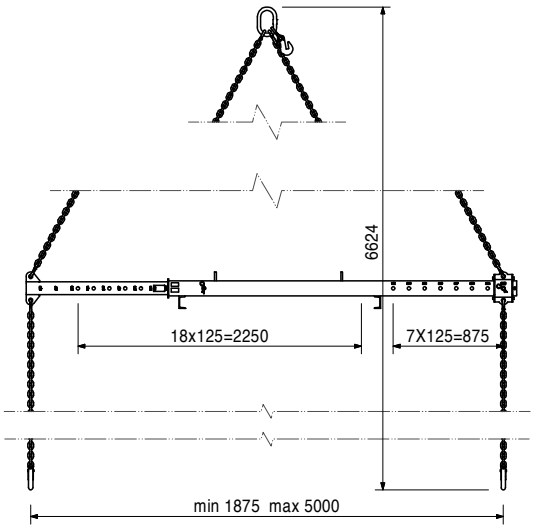
Art no.	Weight [kg]	
127320	158.000	**Lifting Beam 9t**

For moving climbing units.

Notes

Follow Instructions for Use.
Permissible load-bearing capacity 9 t.





Consists of

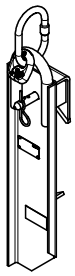
107297 Screw ISO4014-M12x140-8.8-ga 1 pc
710330 Hex-Nut ISO4032-M12-8-ga 1 pc
112865 Locking Pin Ø25x180mm coat 1 pc
022230 Cotter Pin 5/1 ga 1 pc

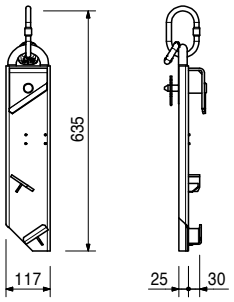
Art no.	Weight [kg]	
070760	4.680	**Crane Splice GT 24**

For transporting elements by crane with the GT 24 Girder.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 700 kg with crane sling angle ≤ 15°.





Consists of

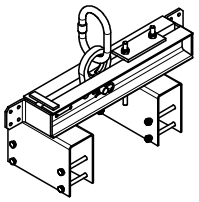
018050 Pin Ø16x65/86mm ga 1 pc
018060 Cotter Pin 4/1 ga 1 pc

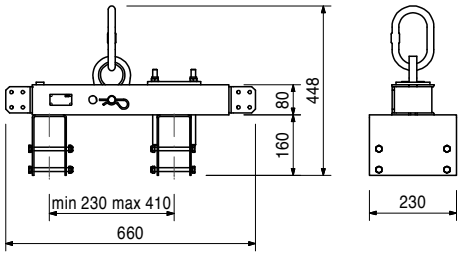
Art no.	Weight [kg]	
111238	19.800	**Crane Splice GT 24 2t**

For transporting elements by crane with the GT 24 Girder. Adjustable from 230 to 410 mm.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 2.0 t with crane sling angle ≤ 30°.





Consists of

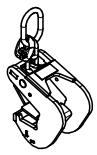
710138 Screw ISO4014-M10x110-8.8-ga 8 pc
780356 Hex-Nut ISO7040-M10-8-ga 8 pc
018060 Cotter Pin 4/1 ga 1 pc

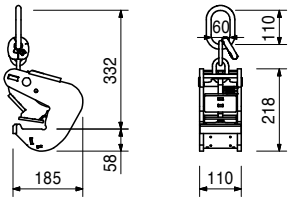
Art no.	Weight [kg]	
115168	6.950	**Lifting Hook MX 1.5t**

For transporting MAXIMO and TRIO Panels.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity: Steel elements 1.5 t. Alu elements 750 kg.





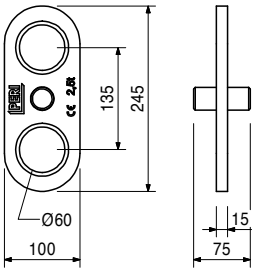
Art no.	Weight [kg]	
127834	2.210	**Crane Eye-2 BR 2.5t ga**

As attachment point for moving climbing systems or Platform Beam BR.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 2.5 t.





Accessory (not included)

020620	0.561	**Spacer for BR**

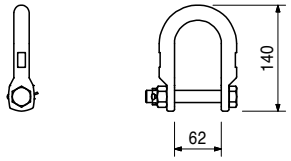
Art no.	Weight [kg]	
127821	0.957	**Crane Eye-2 CB 240 0.7t**

For assembly on the Climbing Bracket CB 240 when used as working scaffold.

Notes

Follow Instructions for Use!
Permissible load-bearing capacitiy 700 kg.



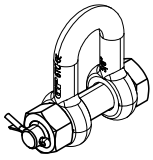


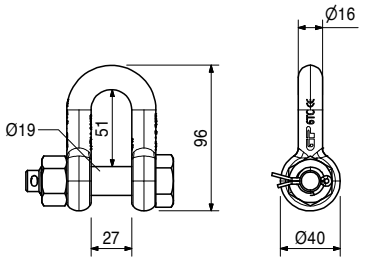
Consists of

128335 Screw ISO4014-M16x110 mach 1 pc
126248 Castle-Nut DIN935-M16-8-ga 1 pc
722825 Cotter Pin ISO1234-04.0x030-st 1 pc

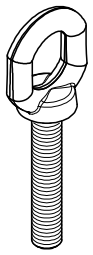
Art no.	Weight [kg]	
130616	0.670	**Shackle Ø16/Ø19mm 3.25t Hex-N.**

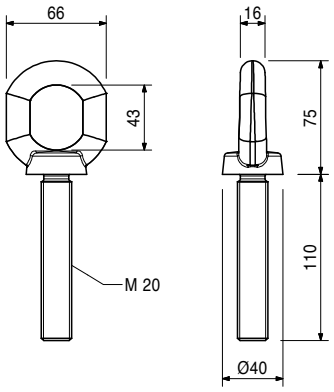
For attaching loads or mounting formwork elements on Trolleys HTP 2000 kg by means of Turnbuckle CB Ø25-M20/DW15.





Art no.	Weight [kg]	
724812	0.656	**Eyebolt M20x110mm coat**

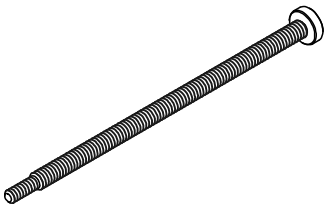


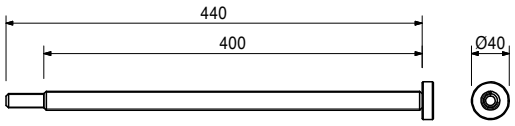


Accessory (not included)

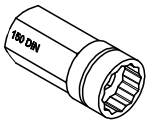
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
113350	0.174	**Washer ISO7094-20 100HV-ga**

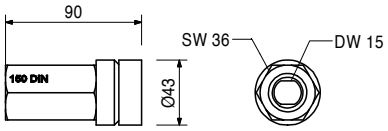
Art no.	Weight [kg]	
130585	1.160	**Multi Tool VCB**



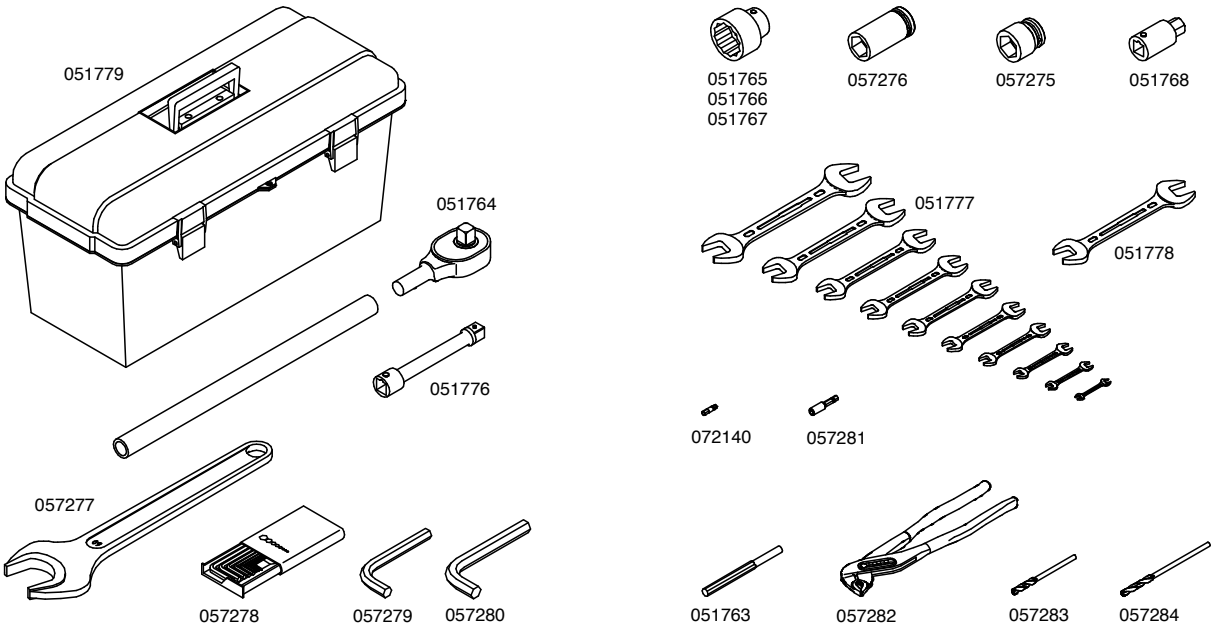


Art no.	Weight [kg]	
129783	0.568	**Plug Lock Hex-Nut VCB DW15**



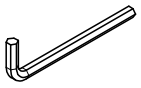


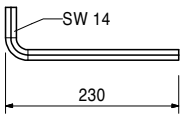
Art no.	Weight [kg]	
		Tools ACS
057281	0.042	**Bit Clip for TX30**
051777	1.650	**Double Spanner Set 10-pcs.**
051778	0.350	**Double Spanner SW24/SW27**
051763	0.125	**Driftpin 10mm**
057284	0.065	**Drill Bit HSS 9mm long**
057283	0.042	**Drill Bit HSS 9mm short**
051776	0.520	**Extension 3/4“ 200mm**
057277	1.510	**Open-End Wrench SW60**
057282	0.500	**Pipe Wrench**
051764	2.650	**Ratchet Wrench 3/4“**
057278	0.405	**Socket Set 8 Pieces**
057279	0.260	**Socket SW14**
057280	0.430	**Socket SW17**
051765	0.235	**Socket SW19 3/4“**
051768	0.500	**Socket SW22 3/4“**
051766	0.215	**Socket SW24 3/4“**
057276	0.625	**Socket SW30 3/4“**
051767	0.660	**Socket SW46 3/4“**
051779	3.500	**Tool Box 457x257x255mm**
051761	13.700	**Tool Set ACS**
072140	0.005	**Torx Bit TX30**



Art no.	Weight [kg]	
027212	0.445	**Hexag. Recess Wrench SW14 long**

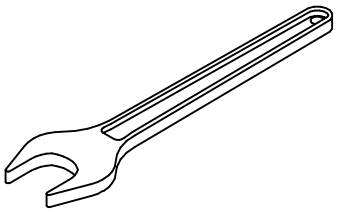
Fits PERI Positioning Discs and Allen Key Bolts M16.





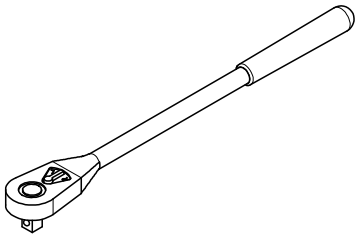
Art no.	Weight [kg]	
		Open-End Wrench SW
138687	0.420	**Open-End Wrench SW30**
138686	0.446	**Open-End Wrench SW36**
027211	0.760	**Open-End Wrench SW46 for SB**
057277	1.510	**Open-End Wrench SW60**
027213	2.300	**Open-End Wrench SW70**
027210	3.300	**Open-End Wrench SW80 for SB**

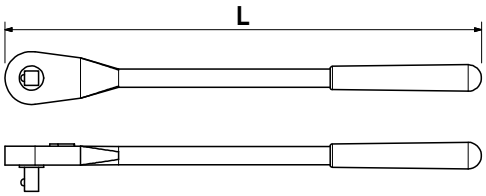
For different applications.





Art no.	Weight [kg]		L [mm]
		Ratchet Wrenches	
072180	0.560	**Ratchet Wrench 1/2 „**	300
029610	5.300	**Ratchet Wrench 1“**	900
051764	2.650	**Ratchet Wrench 3/4“**	630





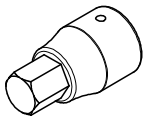
Art no.	Weight [kg]	
		Sockets
029620	0.075	**Socket SW19 1/2“**
104823	0.175	**Socket SW30 1/2“**
057276	0.625	**Socket SW30 3/4“**
102785	0.452	**Socket SW36 3/4“**
029630	0.580	**Socket SW46 1“**
029640	1.000	**Socket SW55 1“**

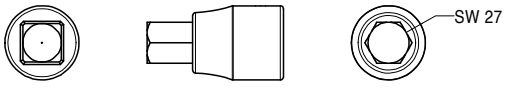




Art no.	Weight [kg]	
123750	0.776	**Hexagon. Socket SW27 1“**

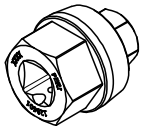
Fits to Screw ISO4762-M36.

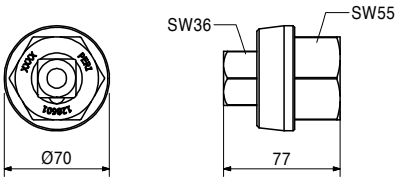




Art no.	Weight [kg]	
128601	1.280	**Recovering Tool SW36**

For the installation of Heavy Duty Cones M36/DW26 - Ø 108 by means of Ratchet Wrench 1˝ and Socket SW55 1".



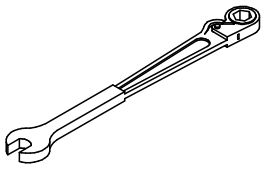


Art no.	Weight [kg]	
021790	1.000	**Combi Ratchet Spanner SW24**

For adjusting RUNDFLEX Panels and Cantilevered Parapet Platform GKB.

Notes

Length approx. 500 mm.

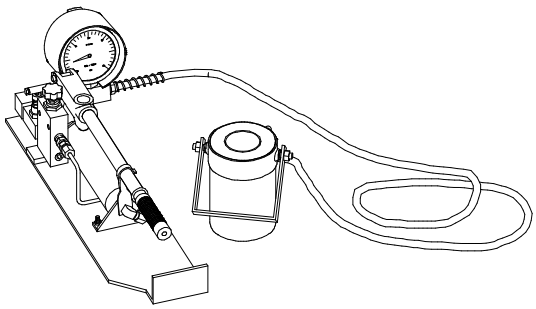


Art no.	Weight [kg]	
030460	60.000	**Pretension Jack for DW15/20/26**

For pre-tensioning tie rods, pulling out tie rods embedded in the concrete and for clean connecting surfaces at concrete joints. Complete in metal box.

Notes

Follow Instructions for Use! Maximum tensile force 300 kN.

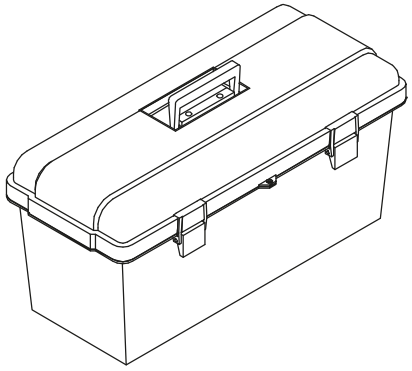


Consists of

030663 Adapter-I f. Pretension Jack 1 pc
030664 Adapter-III f. Pretension Jack 1 pc

Art no.	Weight [kg]	
115581	10.280	**Service Box Hydraulics**

Consisting of:
1 pc. 115590 Tool Box 580x260x285mm
6 pc. 115583 Pressure Gauge Typ 570 VA-Geh.
6 pc. 115584 Hose MKT 6-02 DN 02
12 pc. 115582 Measuring Coupl. SMK 20-G 1/4-PC
2 pc. 115591 Double Spanner SW10x13
1 pc. 115592 Double Spanner SW13x17
1 pc. 135172 Double Spanner SW19x22
1 pc. 115588 Double Spanner SW19x24
1 pc. 051778 Double Spanner SW24x27
1 pc. 115589 Double Spanner SW27x32
1 pc. 057278 Allen Key Set 8 pcs.
1 pc. 115585 Allen Key SW12
1 pc. 057279 Allen Key SW14
1 pc. 057282 Pipe Wrench
1 pc. 115147 Angle Fitting Set PS
2 pc. 115396 Fitting Set PS RCS short
1 pc. 072180 Ratchet Wrench 1/2"
20 pc. 123881 Tube Screw Plug ROV12SX
20 pc. 123880 Threaded Plug VKAN 12S VIT
100 pc. 051760 Cable Binder NT-240H
2 pc. 126425 Distance Piece Ø120mm coat
1 pc. 126440 Socket SW17 1/2"
1 pc. 135173 Allen Key SHR-Bit SW05
1 pc. 135174 Allen Key SHR-Bit SW06
1 pc. 135175 Allen Key SHR-Bit SW08
1 pc. 135176 Allen Key SHR-Bit SW10
1 pc. 135177 SHR Screwdriver Bit 6 parts Slot/PH
2 pc. 711035 PERI Label 128x65mm
1 pc. 126434 List of contents Hydraulic Service Case

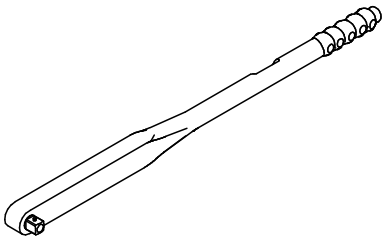


Art no.	Weight [kg]	
133372	6.800	**Cordless Screwdriver-Set ACS**

Consists of

133356 Screwdriver ACS 18V 1 pc
111435 Socket SW17 1/2" 1 pc
133369 Extension 125mm 1/2" 1 pc
133370 Adaptor 1/4" to C6.3 hex. 1 pc
133371 Adaptor 1/4" on 1/2" 1 pc

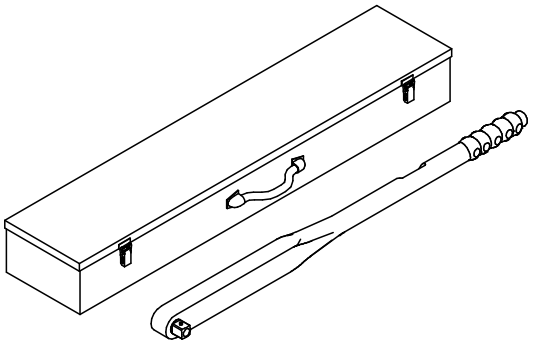
Art no.	Weight [kg]		B [mm]	L [mm]
138813	1.000	**Torque Wrench 40-200Nm**	50	459



Art no.	Weight [kg]	
057090	6.700	**Torque Wrench 140-760Nm**

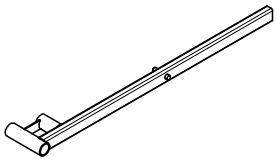
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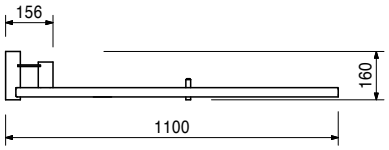
Outer square 3/4“
length: 812 mm
incl. sheet metal case



Art no.	Weight [kg]	
110950	4.760	**Excentric Lever RCS**

For dismantling Climbing Shoe RCS.



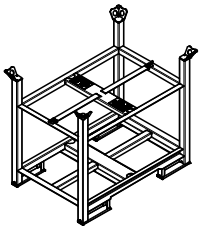


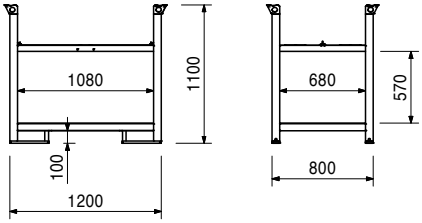
Art no.	Weight [kg]	
136165	59.000	**Pallet RB Hydr.Pump RCS MAX**

For transportation of up to 4 Hydraulic Pumps RCS MAX.

Notes

Pay attention to the stacking height!
Follow Assembly Instructions!



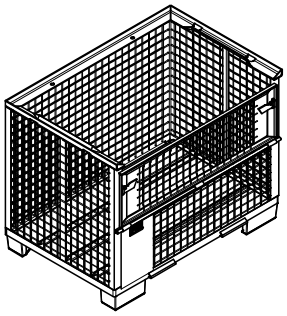


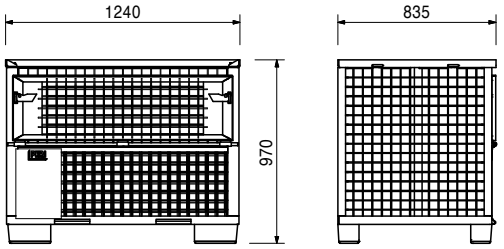
Art no.	Weight [kg]	
065068	88.200	**Grate Pallet 80x120 ga**

For stacking and transportation of formwork and scaffold components.

Notes

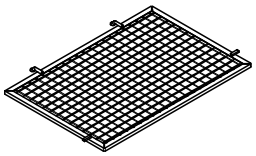
Follow Instructions for Use!
Capacity approx. 0.75 m³.
Load-carrying capacity 1.5 t.

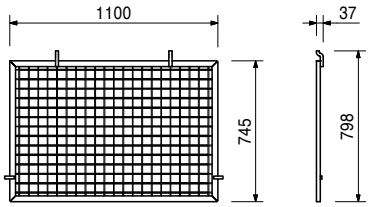




Art no.	Weight [kg]	
065067	9.410	**Lid for Grate Pallet 80x120**

For closing Crate Pallets 80x120 or Hardware Boxes 80x120.



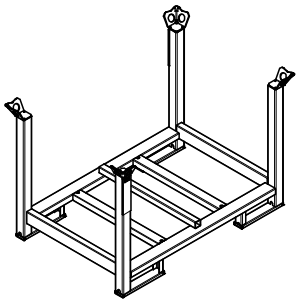


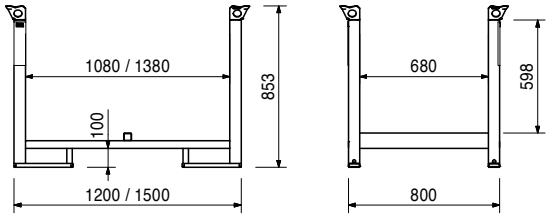
Art no.	Weight [kg]		L [mm]
		Pallets RP-2	
103434	38.500	**Pallet RP 80x120/2 ga**	1200
103429	45.300	**Pallet RP 80x150/2 ga**	1500

For stacking and transportation of formwork and scaffolding components.

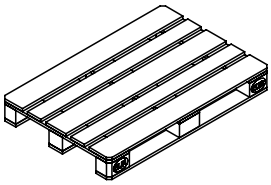
Notes

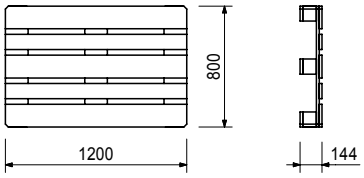
Follow Instructions for Use!
Permissible load-bearing capacity 1.5 t.





Art no.	Weight [kg]	
065015	28.000	**Euro Flat Pallet 80x120**



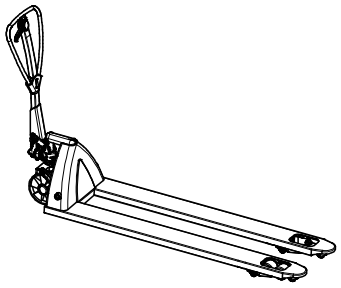


Art no.	Weight [kg]	
061510	105.000	**Pallet Lifting Trolley 1800mm**

For moving pallets and crate pallets.

Notes

Follow Instructions for Use!
Forklift arm length 1800 mm, forklift arm width 550 mm, stroke range 115 mm.
Permissible load-bearing capacity 2.0 t.



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