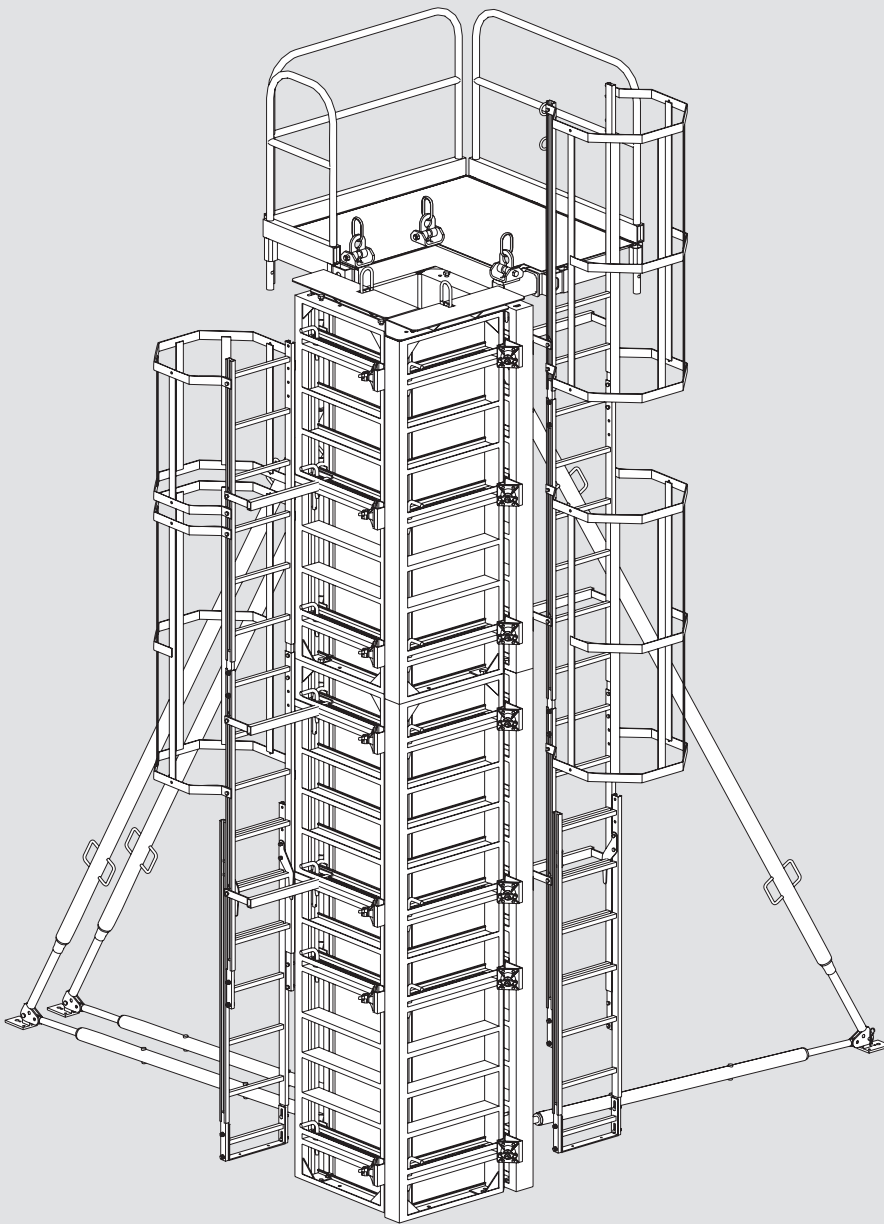


# **RAPID**

## **Aluminium column formwork**

Assembly instructions for standard application





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## Legend



Important safety instructions



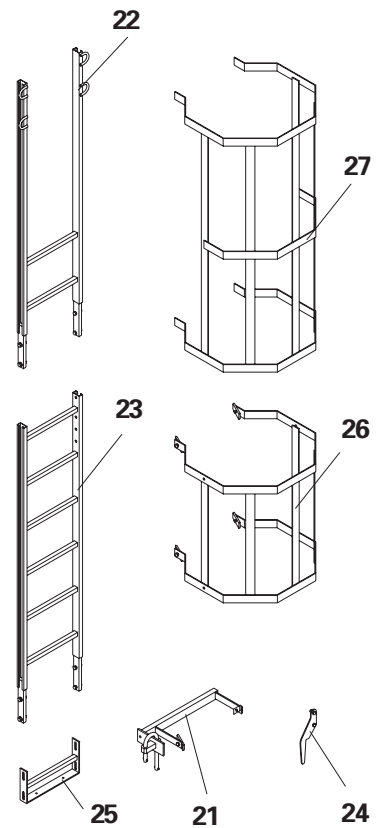
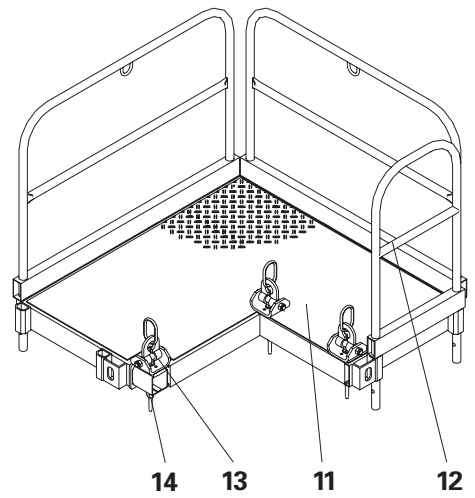
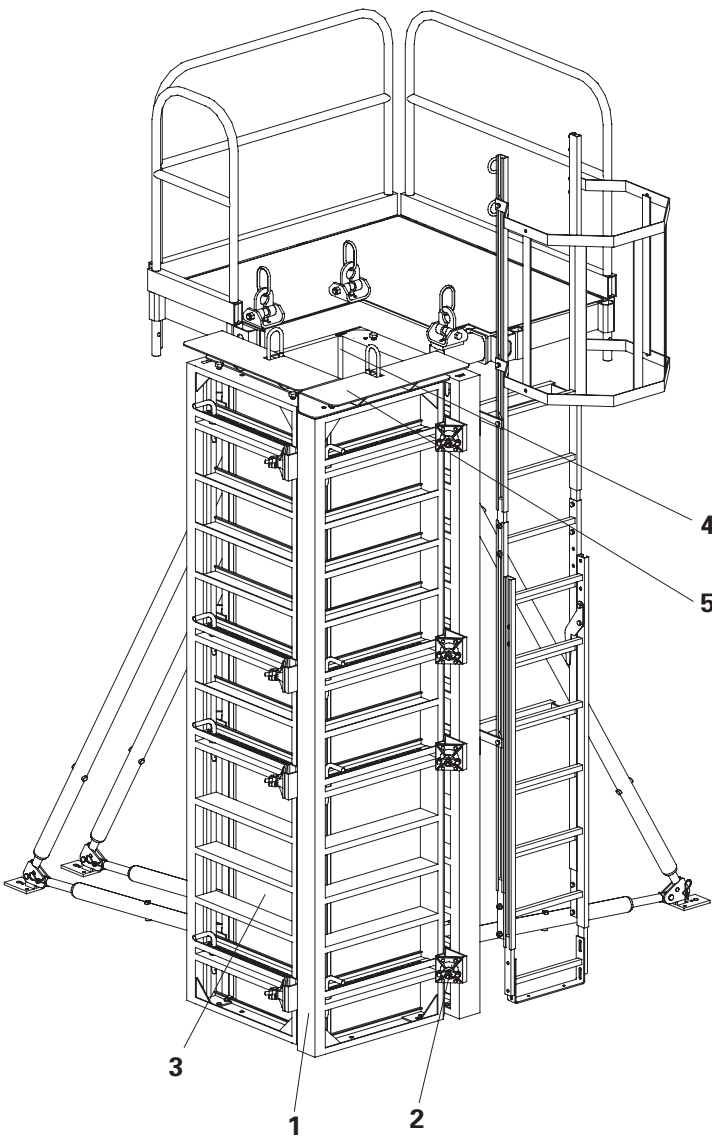
Hints



Visual Check



Site Tips



### RAPID column

- 1 Column frame
- 2 Corner profile with column tie bolt and locking pin
- 3 Formlining
- 4 Chamfer strip
- 5 Crane lifting unit

### Concreting platform (complete)

- 11 Concreting landing
- 12 Handrail 134 or 52
- 13 Crane hook
- 14 Cam nut DW 15

### Access ladder

- 21 Ladder connector Rapid
- 22 Access ladder 180/2
- 23 Ladder 180/6
- 24 Ladder hook
- 25 Ladder base
- 26 Ladder safety cage 75
- 27 Ladder safety cage 150

## Introduction

These Assembly Instructions have been prepared in order to ensure correct assembly and safe use. They describe the standard application of the PERI column formwork, RAPID, based on H = 3.0 m.

The intended use is presented in the basic assembly instructions and the application of the safety equipment.

In addition, these assembly instructions are supplemented by information concerning appropriate maintenance measures

Dimensions without any unit of measurement are to be taken as cm.

The programme overview which follows at the end provides a detailed look at all system components complete with dimensions and item numbers. If you should have any questions, please contact your local PERI representative.

## Product features

PERI RAPID is the column formwork for joint-free architectural concrete

Basic assembly takes place with the column frames in a horizontal position and without the use of a crane. The formlining sheets are cut to size and are clamped from above to the column framework by means of clamping profiles. With extended column frames, the formlining sheet can be fitted over the element joint itself. Chamfer strips are simply inserted between sheeting and clamping profile. Creation of sharp-edged column cross sections is also possible.

Two column frames with the integrated edge connections are connected using the column tie yoke to form one formwork half, fitted with appropriate system parts and then placed into position.

The cross-section for square or rectangular-shaped columns is created continuously using the wind mill principle. Column frames are available in three heights. They can be combined with each other and height increments of 30 cm are possible.

The access ladder with ladder safety cage and concreting platform form the safety system for the PERI RAPID. It can be used for closing the column formwork. Connections for push-pull props and kicker braces are likewise available in the system.

Care of the formwork is made simpler through the attachment of the crane lifting unit or concreting platform. Large deposits of concrete are prevented from forming and any residual concrete is easily removed due to the powder coating.

### Technical data:

Permissible fresh concrete pressure: 120 kN/m<sup>2</sup>

### Formlining:

21 mm for chamfered columns  
30 mm for sharp edged columns

Column frame made of aluminium

### Column cross-sections:

square or rectangular-shaped  
up to 60 x 60 cm

Sharp-edged columns:  
up to 58 x 58 cm

Over-sized cross-sections from  
85 x 85 to 130 x 130 cm

### Powder-coated column frame:

H = 3.0 m, 2.10 m, 0.60 m

## Intended use

These assembly instructions contain details regarding the intended use of the RAPID column formwork from PERI. Safety instructions and load specifications must be observed at all times.

**Special permission must be given by PERI if the formwork is to be used for applications other than that which it has been designed for, together with supplementary assembly instructions.**

Basically, only materials in perfect condition may be used. Damaged components must be replaced.

All valid laws and safety regulations must be observed when using our products.

This product is intended for commercial use only.

**These assembly instructions as well as PERI offer and implementation plans do not replace specific construction site work and assembly instructions.**



These assembly instructions are intended for those persons who work with PERI RAPID column formwork. Non-observance of assembly guidelines and safety instructions can lead to accidents and damage to materials.

### Responsibilities of the user:

1. The user must ensure that all required instructions are at the operator's disposal (including the official assembly instructions).
2. All persons working with the product must be familiar with the content of these instructions and safety information.
3. The user must ensure that all operators have a full and complete understanding of these instructions and safety information.
4. The user must ensure that assembly, adjusting and dismantling work carried out, as well as correct use of the product, is supervised by trained and authorised personnel.
5. The user is obliged to provide all requirements to ensure compliance with all applicable safety regulations.

### Safety information

1. All RAPID components are to be checked before every use to make sure they are in perfect working condition!  
**Damaged parts are to be replaced by PERI original components!**
2. All loads arising during the intended use must not be exceeded!
3. All load effects on the RAPID formwork must be safely transferred!
4. Stability must be guaranteed throughout all building phases!
5. Never remove any safety equipment!
6. Safe access ways must be provided for site personnel to reach all working areas!
7. Working areas must have suitable safety barriers to prevent site personnel falling to the ground!
8. All openings must be fitted with safety barriers!
9. Avoid using in areas of risk during unfavourable weather conditions!
10. Striking is only to take place when the concrete is hard enough and site management has given the go-ahead!
11. Striking or moving are to be carried out using suitable tools and equipment! Do not tear away formwork elements from the concrete with the crane!
12. Remove all non-captive components!
13. Equipment should not be used in strong winds!
14. Remove lifting accessories from a lowered formwork component or unit only when it is in a stable condition!

### Care instructions for the formlining

Concrete immersion vibrator with rubber cap minimizes possible damage to the formlining.

Spacers for the reinforcement with large support area minimizes indentations and markings.

### Other regulations

In particular, this currently includes:

- Operational Safety Regulations (BetrSichV)
- Technical Regulations for Operational Safety (TRBS)

Additional

### PERI product information

- PERI formwork technology design tables
- PERI RAPID brochure

## Formlining assembly with chamfer strip

### Cutting-to-size of the formlining

Plywood sheet: 21 mm



Horizontal formwork joints must be arranged on the lateral struts of the frames.

Width of plywood

Example:

Column width 55 cm	550 mm
- reduction in size	8 mm

**Cutting width of formlining 542 mm**

Fig.1

1. Place column frames on assembly trestles. Fig.2a

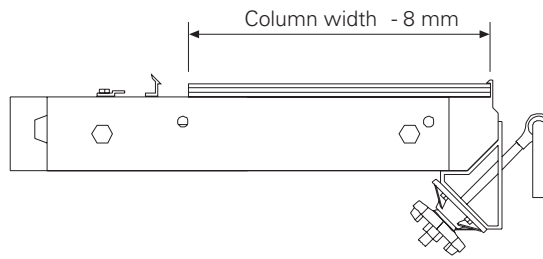


Fig. 1

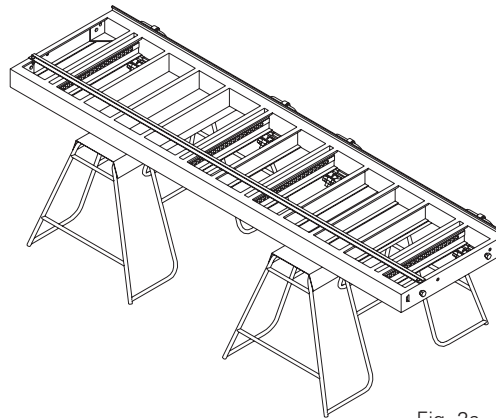


Fig. 2a

2. Bolt column frames together according to the required length (SW 30). Fig.2b

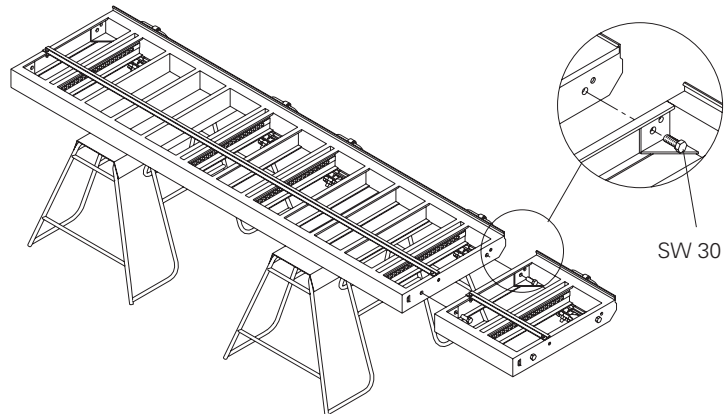


Fig. 2b

3. Mount plywood sheet and insert in the guide. Fig.2c

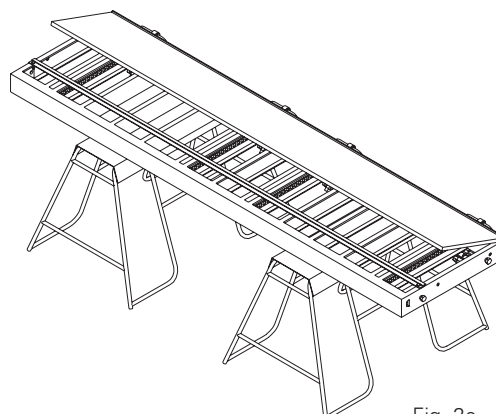


Fig. 2c



**Formlining assembly with chamfer strip**

4. Position chamfer strip next to the plywood sheet. Fig.3
5. Push clamping profile over chamfer strip. Fig.3a
6. Tighten by means of G-clamps. Fig.4
7. Clamp in position the plywood sheet and chamfer strip with clamping profile. (SW 17 socket wrench)
8. Remove G-clamps.
9. Nail plywood sheet to prevent slipping. Use drilled holes in the guide. Fig.3a

Install plywood sheets in additional column frames in the same way.

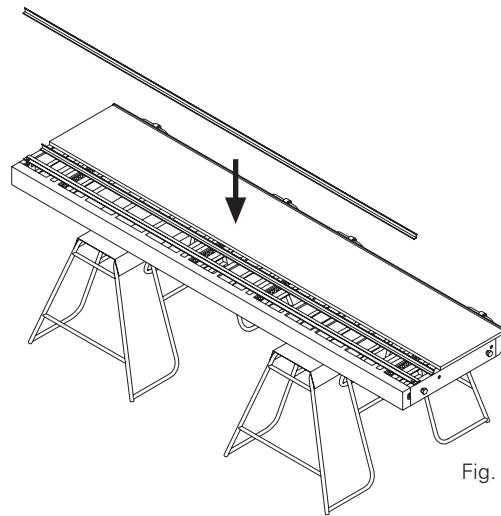


Fig. 3

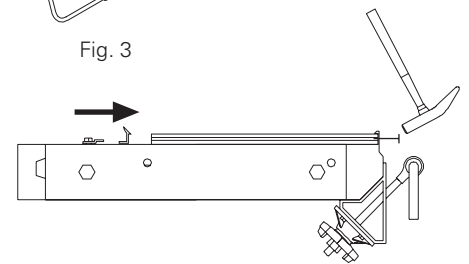


Fig. 3a

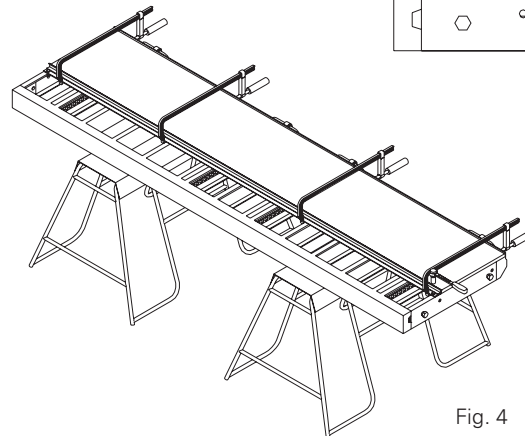


Fig. 4

**Formlining projection**

- below approx. 40 mm
- above max. 200 mm with crane lifting unit Fig.5

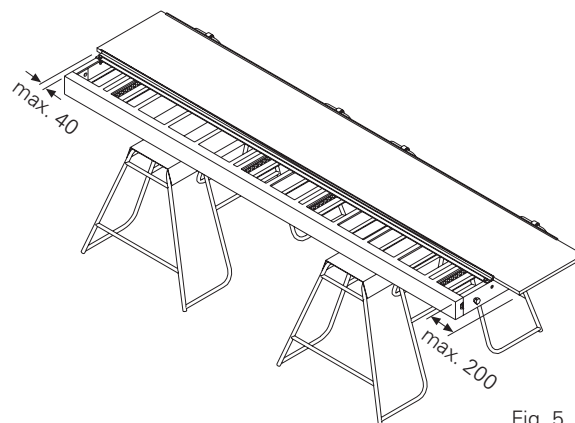


Fig. 5

**Sharp-edged solution**

Max. cross-section dimensions 580 x 580 mm.

For forming without chamfer strips, a 30 mm thick plywood sheet is required which has been milled accordingly. Fig.6

Width of plywood sheet  
Example:

Column width 550 mm  
+ increase in size 12 mm

**Cutting width of formlining 562 mm**

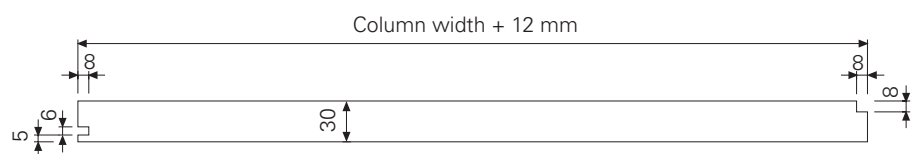


Fig. 6  
Dimensions in mm

It is held in position with the clamping profile and guide. Fig.6a  
Secure plywood sheet against slipping.

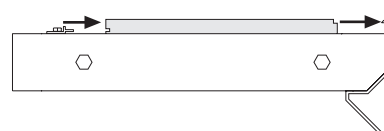
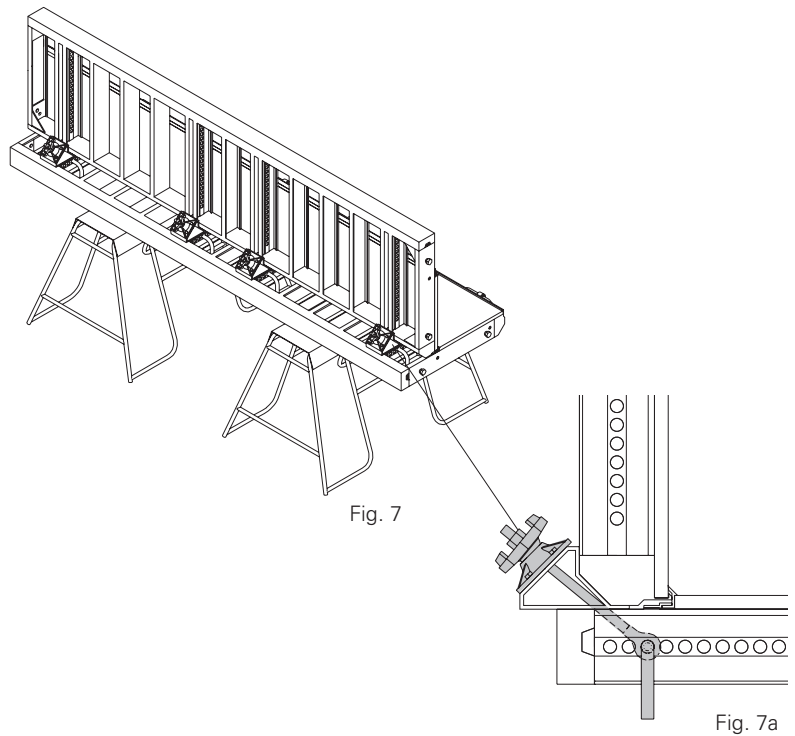


Fig. 6a

# A1 Basic assembly

## Assembling the formwork halves

1. Place second pre-assembled column frame on first column frame. Fig.7
2. Insert column tie yokes through the corner connection.
3. Peg out using the locking pin in the perforated profile.
4. Tighten with nut. Fig.7a
5. Assemble second formwork half in the same way.



## Crane lifting unit

One crane lifting unit per column frame, however not with the concreting platform. (The crane lifting unit is already attached here to the concreting platform).

1. Loosen bolt, SW 30, in the column frame.
2. Position crane lifting unit on the frame and secure with the bolt, SW 30. Fig.8 + 8a

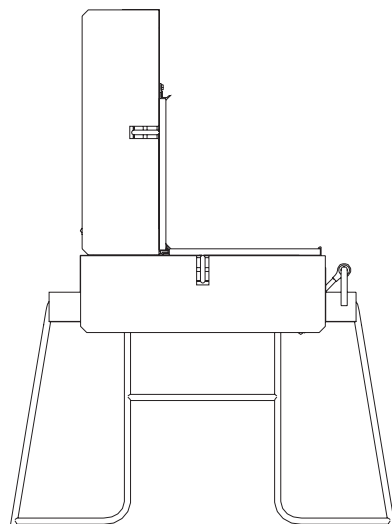


Fig. 8

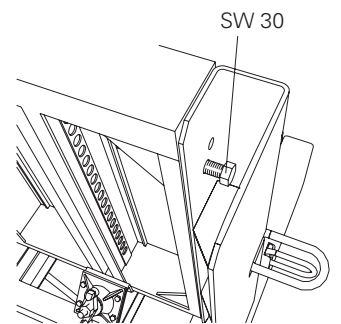


Fig. 8a

### Push-pull props



#### Mount 3 push-pull props to ensure stability!

Mount three brace connectors on one formwork half. Fig.9

1. Pull out locking pins.
2. Fasten brace connector to perforated profile.
3. Insert brace connector in the perforated profile and peg out with locking pins. Fig.9a
4. Fix push-pull prop and kicker brace with bolts and cotter pins. Fig.10

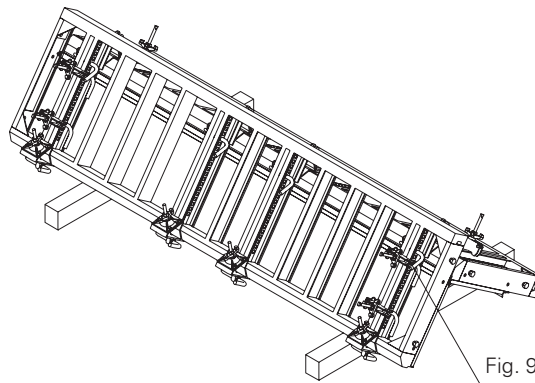


Fig. 9

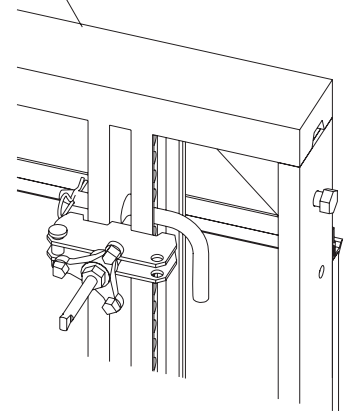


Fig. 9a

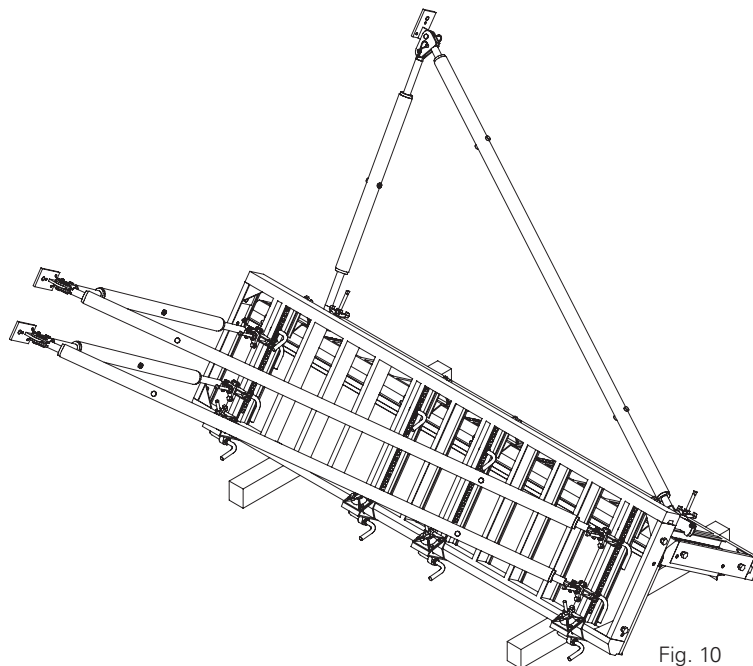


Fig. 10

# A2 Safety system

## Concreting platform

The concreting platform is assembled on horizontally-positioned column halves lying on the ground

1. Remove cam nut of the crane eye.
2. Remove bolt (SW 30) in the column element.
3. Position platform by hand on its edge directly against the formwork half.
4. Insert locking pin of the crane eye through the hole **a** of the column element and screw on cam nut.
5. Same procedure using hole **b**.
6. Align telescopic beam with hole **c** and mount third crane eye. Fig.11

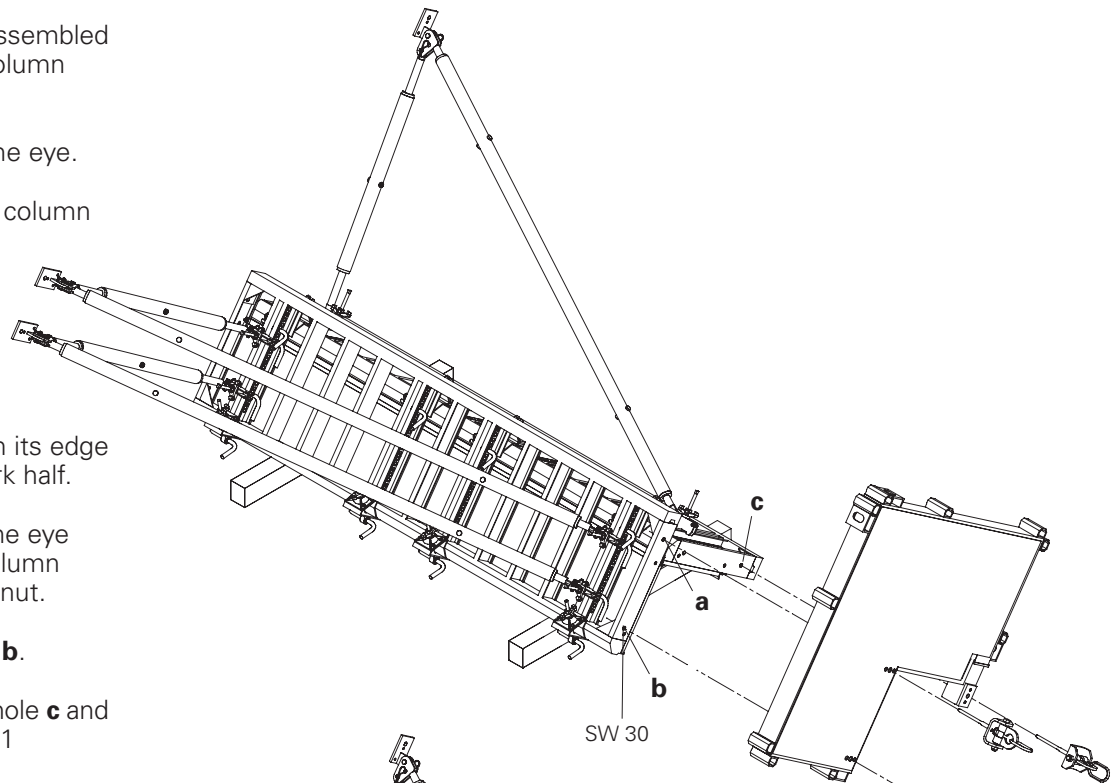


Fig. 11

7. Install guardrails. Fig.12

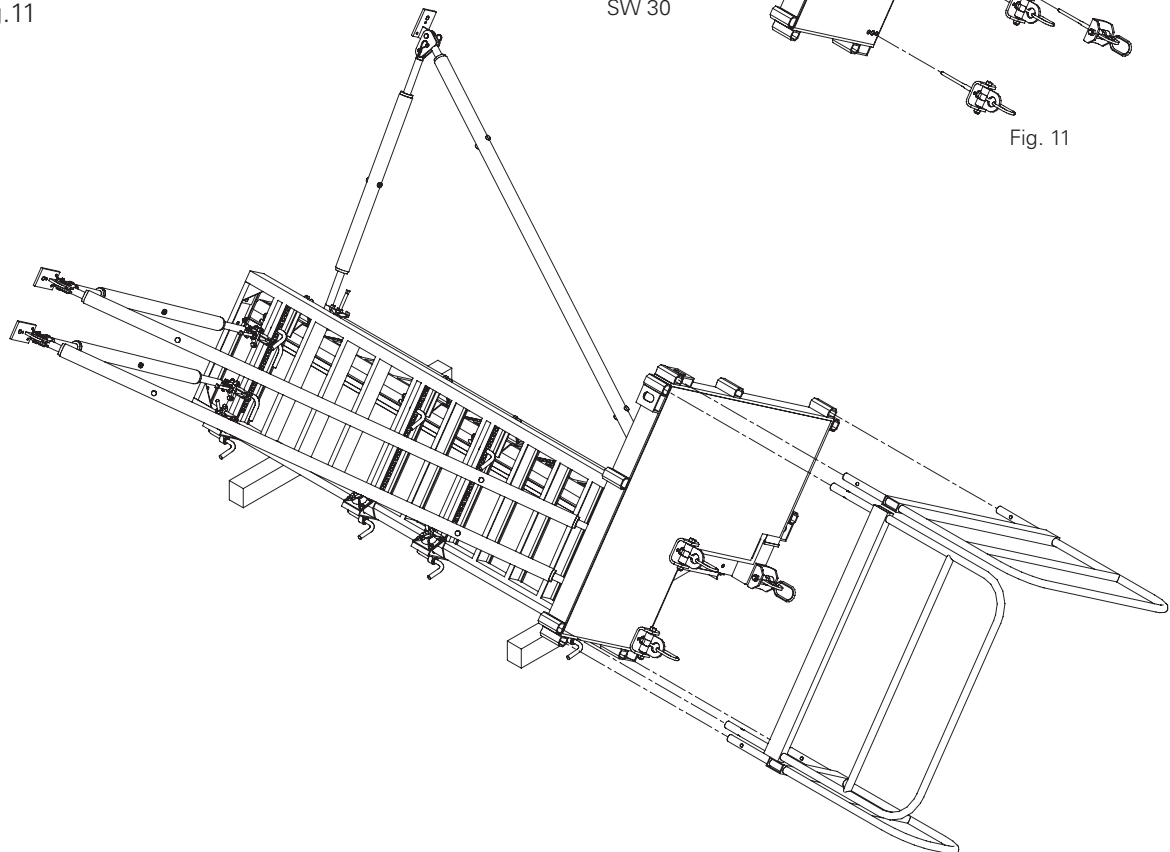


Fig. 12

### Ladder access

The access ladder is assembled on horizontally-positioned column halves lying on the ground.

1. Place ladder connection on frame and peg out in the perforated profile with bolts. Fig.13

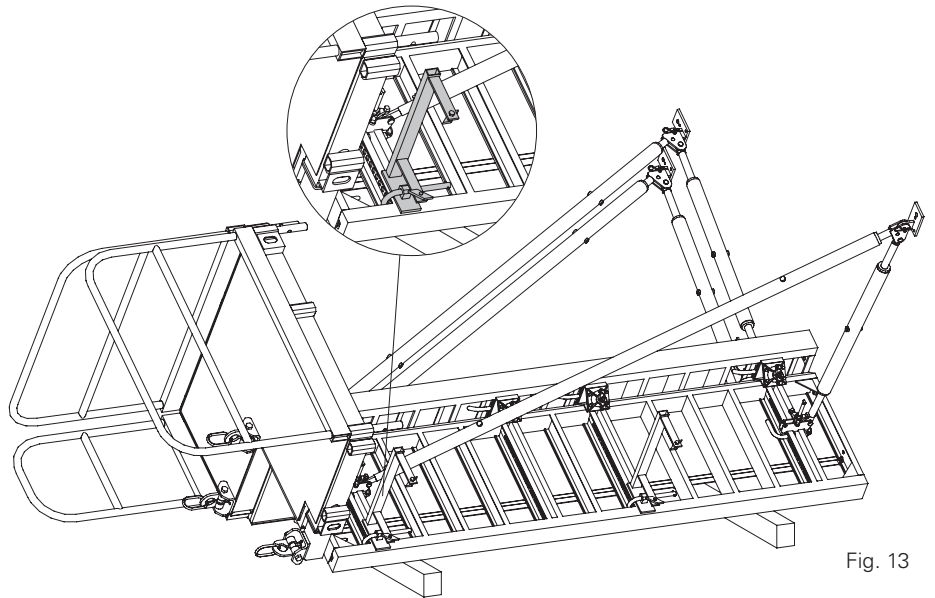


Fig. 13

2. Pre-assemble ladder:

- connect access ladder 180/2 with ladder 180/6, SW 19. Depending on the height required, attach additional ladders 180/6.
- mount ladder base and ladder hook on bottom ladder, SW 19. Fig.14

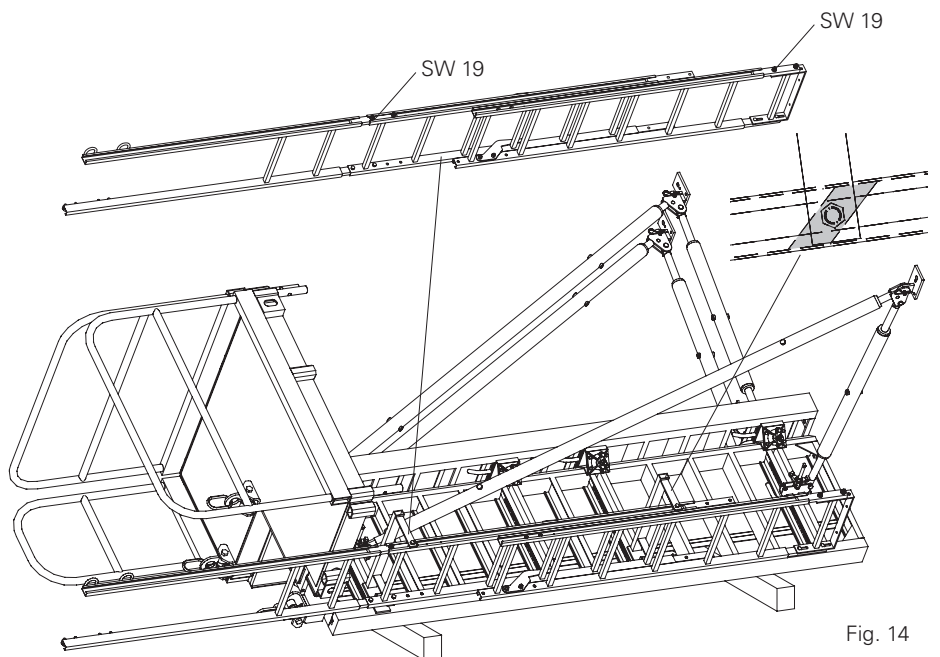


Fig. 14

4. Mount ladder safety cage 150 or 75 with clamping plates according to plan. Clear spacing between the ladder safety cage elements  $\leq 30$  cm.



Visual check of the clamping plates. The contact surface must lie against the ladder profile.

5. For high columns: Likewise install an access ladder for closing the formwork in the opposite formwork half.

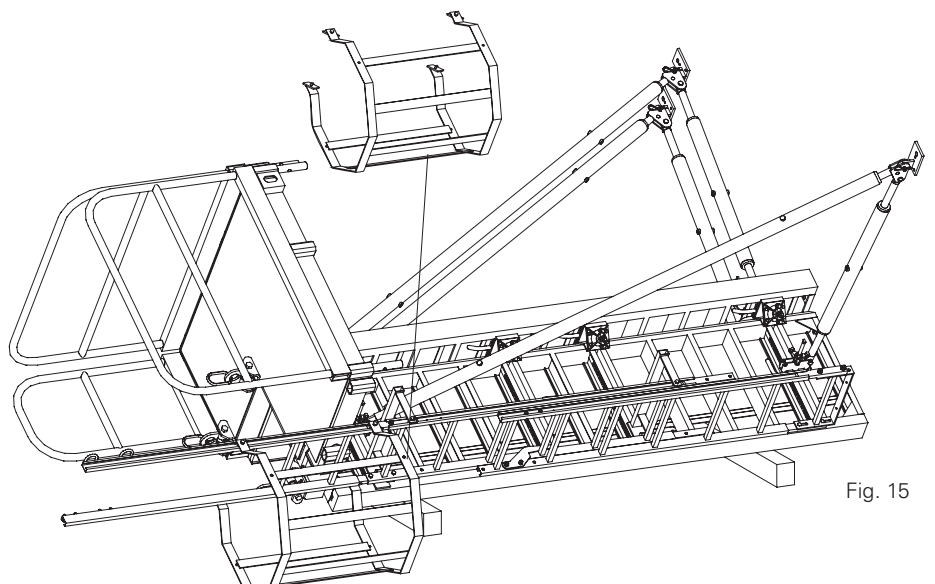


Fig. 15

# A3 Shuttering

## Positioning the formwork



- Always erect the formwork half with the concreting platform first.
- Locating boards make it easier to align the formwork.

### Formwork halves with concreting platform (placing formwork)

1. Attach 3-sling lifting gear to crane eyes, lift formwork to a vertical position and transport to place of use. Fig.16

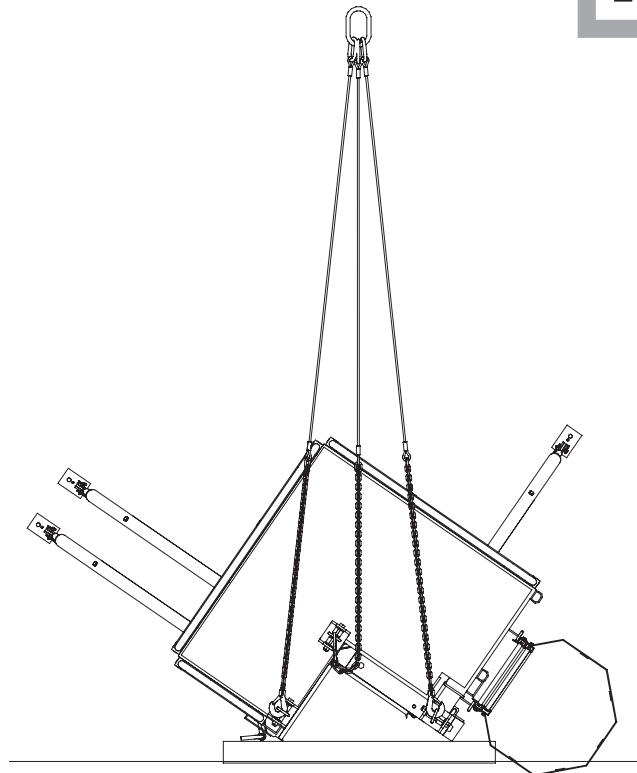


Fig. 16

2. Position formwork halves against locating boards. Fig.17

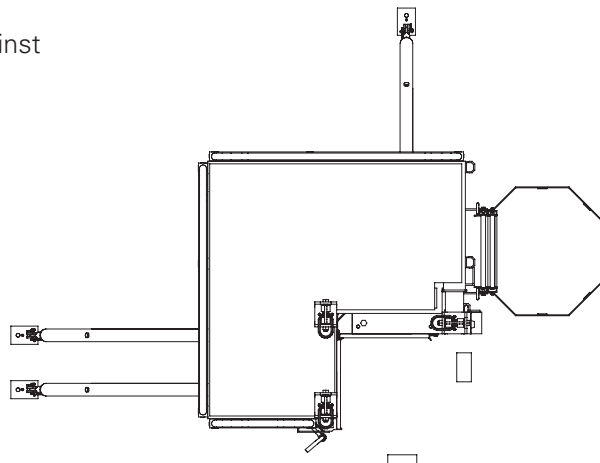


Fig. 17

3. Fix base plates of push-pull props and kicker braces to load-bearing foundations/slab, e.g. with PERI Multi Monti. Fig.18

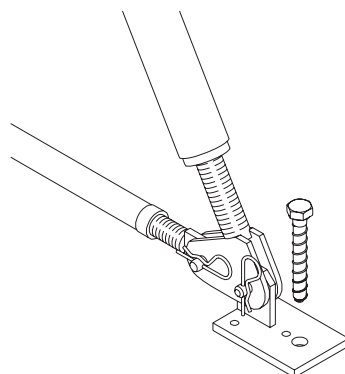
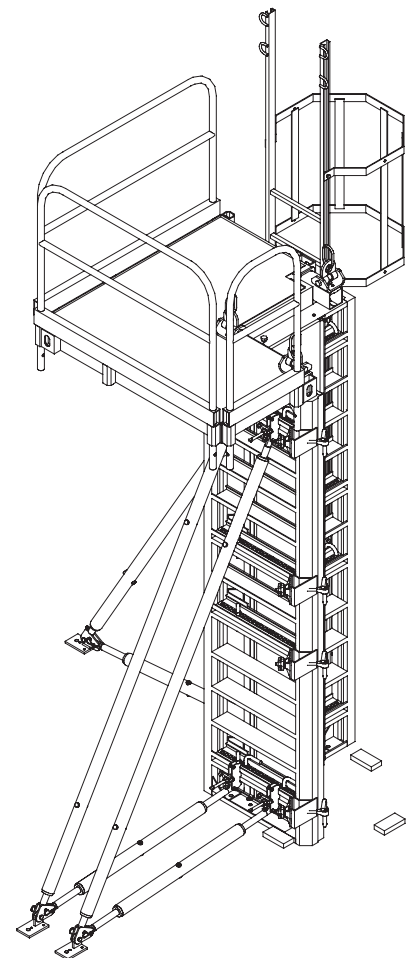


Fig. 18

4. Check stability and make any necessary adjustments.

5. Remove crane lifting gear.

The first formwork half is now in position.



**Positioning the formwork**

6. Attach lifting unit to crane eyes, lift 2nd formwork half to a vertical position and transport to place of use.
7. Position this formwork half against locating boards. Fig.19

**Closing the formwork**



- Use a second access ladder for higher columns.
- When closing the formwork, start at the bottom and work upwards.

1. Insert column tie yoke through the corner connection.
2. Peg out in the perforated profile with locking pins.
3. Tighten with nut. Fig.20
4. Remove crane lifting gear.

The formwork is now in position.

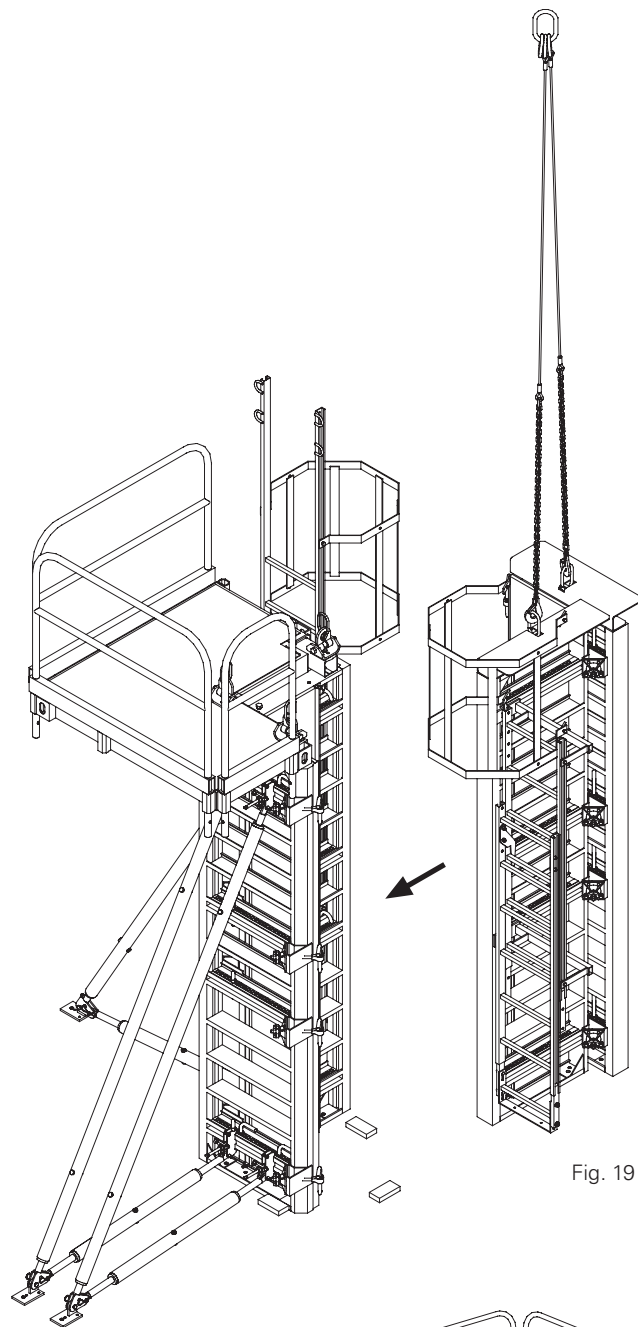


Fig. 19

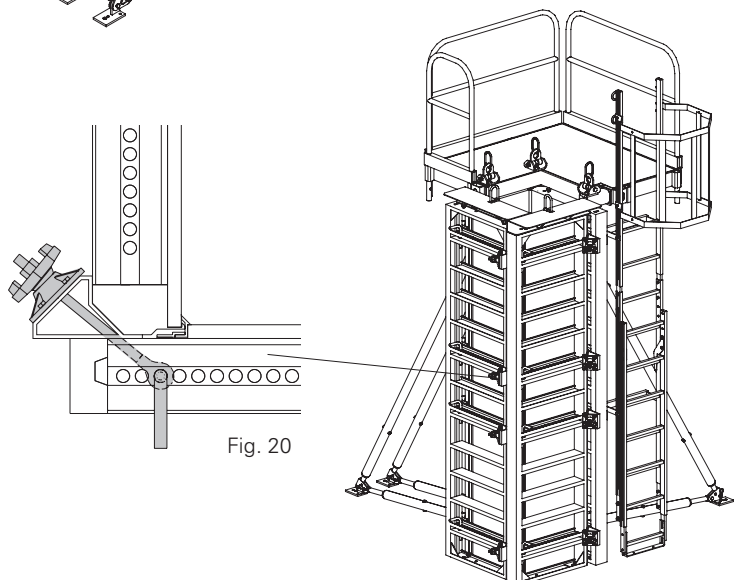


Fig. 20

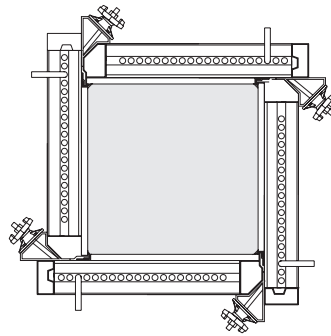


# A4 Application

## Striking, moving



- Push-pull props, concreting platform and access ladder remain attached.
- Formwork is opened from top to bottom.
- The corner connections remain attached to the column frames (no individual components).



## Formwork halves without push-pull props

1. Attach crane lifting gear to the non-supported formwork half and tension.
2. Separate corner connections between the formwork halves: pull locking pins and pull back column tie yokes. Fig.21



Use second access ladder.

3. Place formwork half on ground for cleaning.

## Formwork halves with push-pull props

1. Connect lifting gear to crane eyes of the concreting platform.
2. Remove base plates of push-pull props and kicker braces from ground.
3. Place formwork half on ground for cleaning and secure. Fig.21

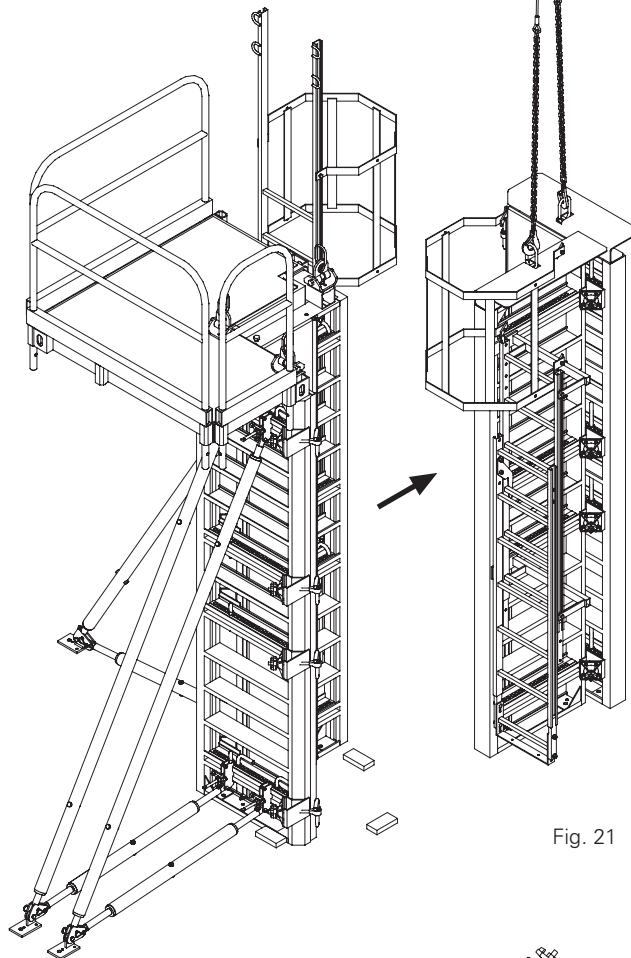
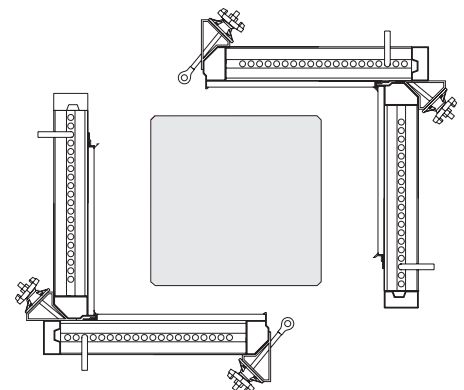


Fig. 21





**Oversized cross-sections**

Cross-sections from 85 x 85 cm to 130 x 130 cm

For oversized cross-sections, a maximum of two column frames (length and width) are connected with each other. Connections are carried out using the TRIO BFD alignment coupler.

1. For bracing, mount walers to every perforated profile with column tie yokes and locking pins.
2. Insert anchor ties in the centre at the same height as the walers.

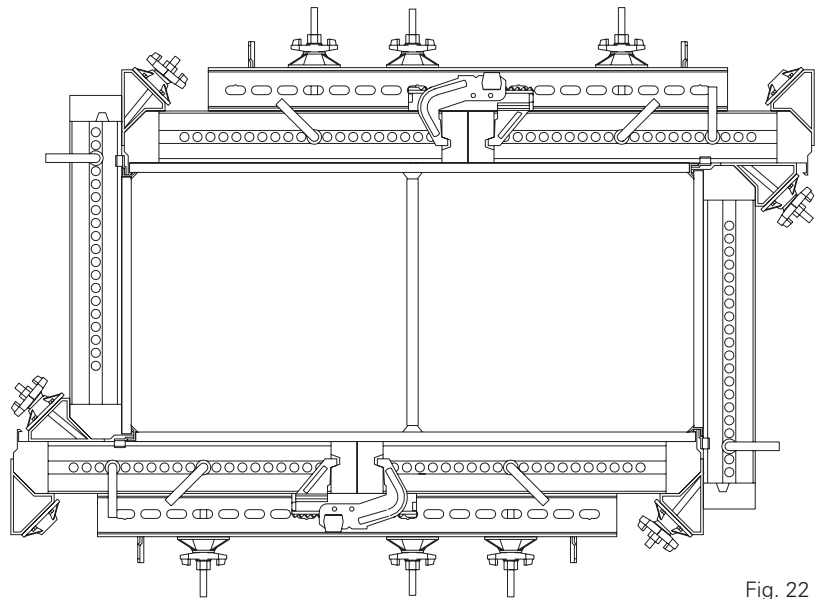


Fig. 22

Example Fig.22

No. of pieces for each height		
Height	BFD alignment coupler	SRZ 120 U100 steel waler
Column Frame 300	5	4
Column Frame 210	4	3
Column Frame 60	1	1

## Height adjustment up to 8.10 m

With three frame heights, height adjustments are possible in 30 cm increments.

Combination examples: Fig.21

The column frames are connected using M20 x 50 bolts (SW 30). Each RAPID frame is equipped with these bolts Fig. 2b.

Larger heights are possible.

Height [m]	Column Frame		
	300	210	60
2.10	-	1	-
2.70		1	1
3.00	1	-	-
3.30	-	1	2
3.60	1	-	1
3.90	-	1	3
4.20	-	2	-
4.50	-	1	4
4.80	-	2	1
5.10	1	1	-
5.40	-	2	2
5.70	1	1	1
6.00	2	-	-
6.30	1	1	2
6.60	2	-	1
6.90	1	1	3
7.20	2	-	2
7.50	1	1	4
7.80	2	-	3
8.10	2	1	-

## Maintenance tips

### What needs to be done?

1. Spray formwork on all sides before first use with a release agent e.g. PERI BIO Clean.
2. Spray formlining every time after striking with PERI Bio Clean, then clean.
3. For longer storage periods, e.g. bad weather, store formwork materials in clean condition and sprayed.
4. Spray (grease if necessary) all moving parts regularly with a release agent.
5. Transport elements with suitable as well as safe transportation and lifting gear.
6. Ensure elements and accessories are properly stored.
7. Do not throw or drop accessories.
8. Never use unnecessary force during assembly and dismantling.

## Why?

Provides good protection against sticking and corrosion before first dirt accumulation.

Helps to remove concrete surplus and makes cleaning easier. Removing by force or scraping off is not necessary. Formlining and coating remain intact.

The frame is protected against corrosion and weathering.

Removes rust, prevents corrosion and keeps parts in good working order.

Avoids damage through improper transportation.

Prevents damage to the element frame and accessories. Damage to the formlining through indentations is avoided.

Maintains the functionality of the parts.

Maintains the functionality of the parts.

## Cleaning tips

### Ensure elements are in a secure position during cleaning!

### Cleaning of elements still attached to the crane is not allowed!

### Remove concrete surplus!

1. Immediately after concreting, spray the rear side of the formwork with water.
2. After striking has taken place, spray formwork all over with PERI Bio Clean.
3. Remove nails, battens etc. from the plywood before any mechanical cleaning.
4. Mechanically clean the elements using suitable equipment e.g. scraper.
5. Brush clean the elements after mechanical cleaning. Remove dust and loosened concrete surplus.
6. After shuttering, element may require spraying again.

Concrete has not yet hardened and can easily be removed. This reduces the amount of cleaning required.

Penetrates the concrete surplus, breaks it up and makes subsequent mechanical cleaning much easier.

Unnecessary enlargement of nail holes and damage to the formlining is avoided. No damage to cleaning equipment.

Formlining surface is clean for the next use.

## List of materials for the access ladder



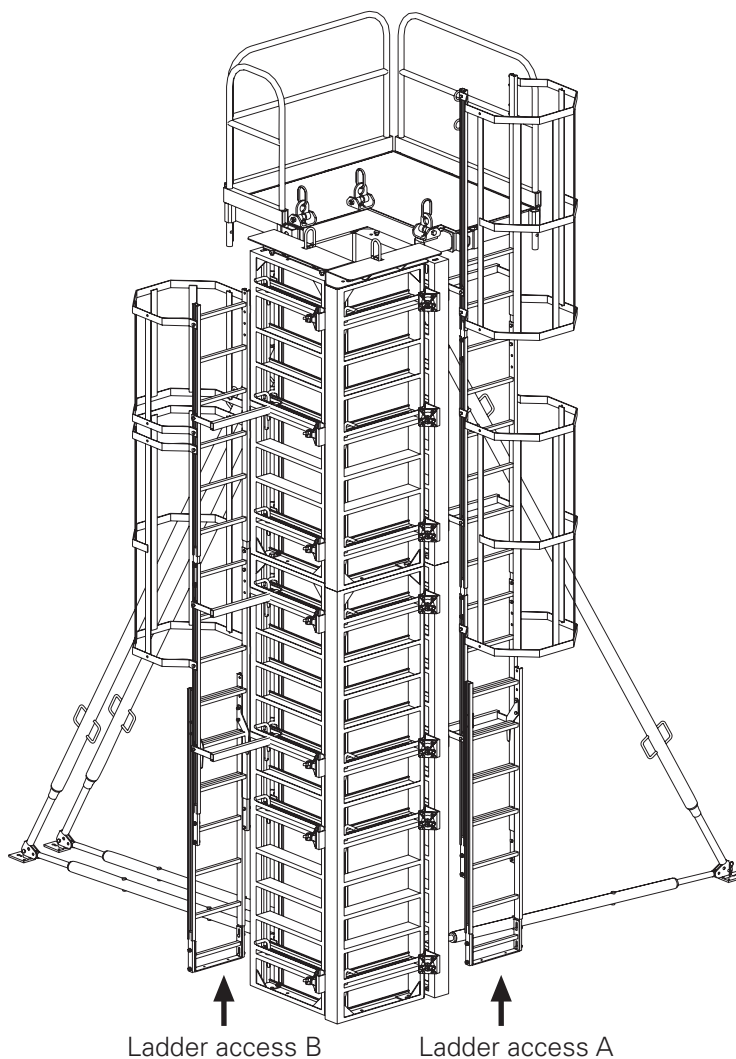
**For higher columns, mount two access ladders!**

Ladder access A:  
**with** access to the concreting platform

Ladder access B:  
**without** access to the concreting platform, only for connecting the two formwork halves



For heights of 7.80 m and more, we recommend the use of two concreting platforms



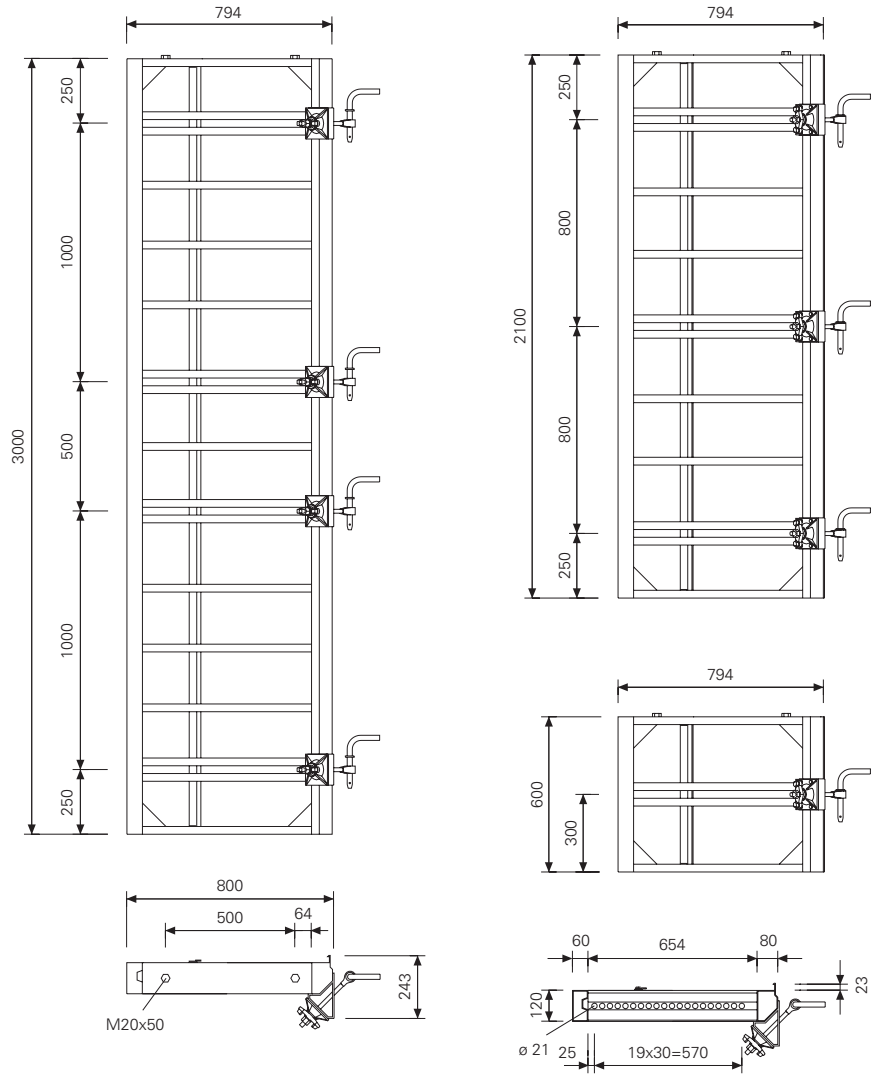
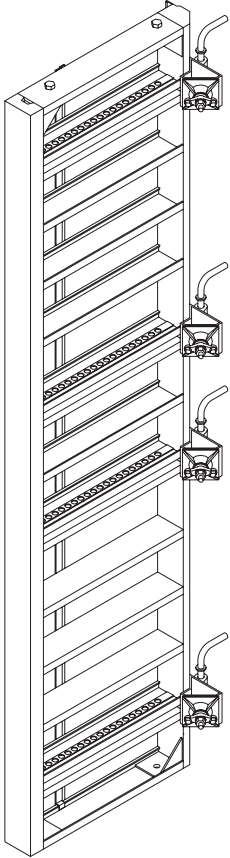
Item no.	Description	2.70 – 3.60 m		3.90 – 4.20 m		4.50 – 5.70 m		6.00 – 7.50 m		7.80 – 9.30 m		9.60 – 10.80 m	
		A*	B*	A*	B*	A*	B*	A*	B*	A*	B*	A*	B*
037400	Concreting Platform, complete	1	0	1	0	1	0	1	0	1	0	1	0
051410	Ladder 180/6	2	2	2	2	3	3	4	4	5	5	6	6
103724	Access Ladder 180/2	1	0	1	0	1	0	1	0	1	0	1	0
051450	Ladder Safety Cage 150	0	0	1	1	2	2	3	3	4	4	5	5
104132	Ladder Safety Cage 75	1	1	1	0	2	1	2	1	2	1	2	1
051460	Ladder Base	1	1	1	1	1	1	1	1	1	1	1	1
103718	Ladder Hook	2	2	2	2	2	2	2	2	2	2	2	2
103369	Ladder Connector RAPID	2	2	2	2	3	3	4	4	5	5	6	6

A\* = ladder access A  
B\* = ladder access B



**Column Frames RAPID, Alu**

For column cross section up to 600x600mm.  
 Complete with:  
 Clamping Profile, Column Tie Yoke DW15,  
 Spherical Nut DW15, galv., Locking Pin  
 ø 20x205, galv., and Hex. Bolt ISO 4017  
 M20x50-8.8, galv. with Hex. Nut  
 ISO 7042 M20-8, galv. (2x).

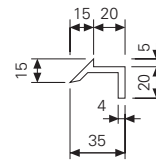
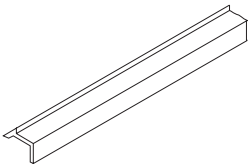


**Column Frame 300**  
**Column Frame 210**  
**Column Frame 60**

59,90	037250
42,70	037260
14,30	037270

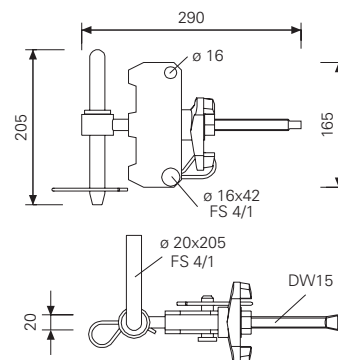
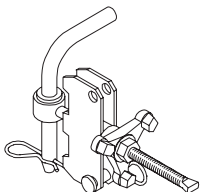
**Chamfer Strip RAPID L = 3,00m**

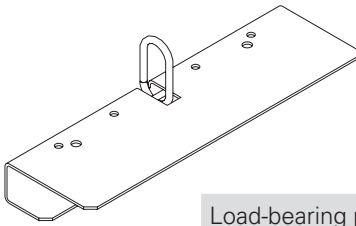
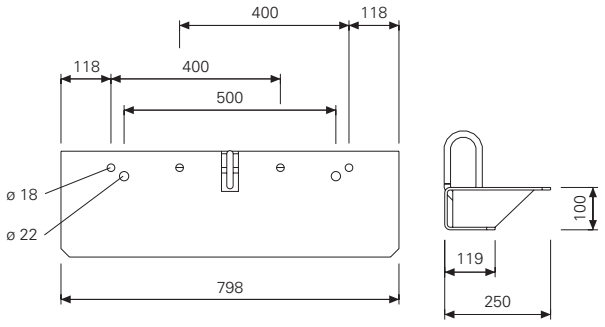
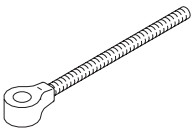
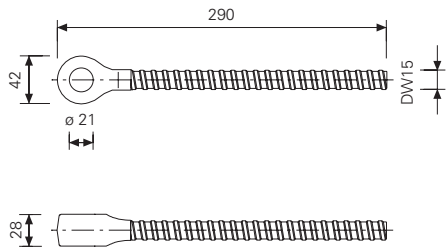
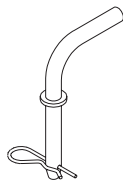
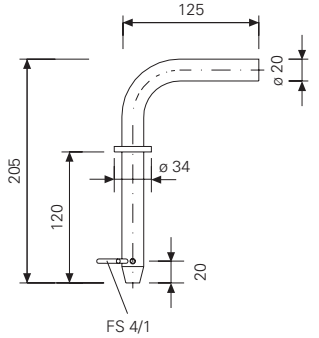
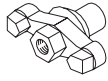
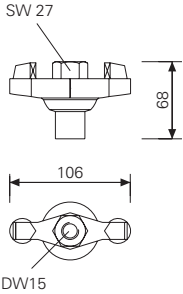
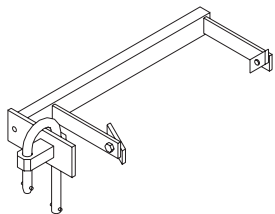
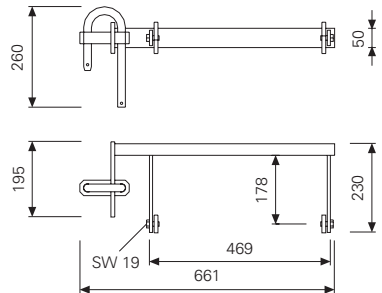
For clamping plywood to the Column  
 Frames RAPID.

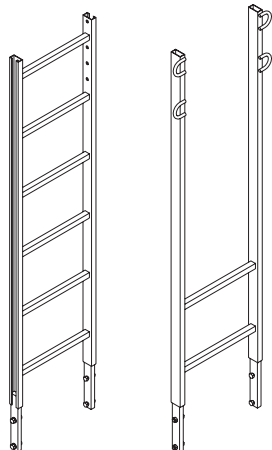
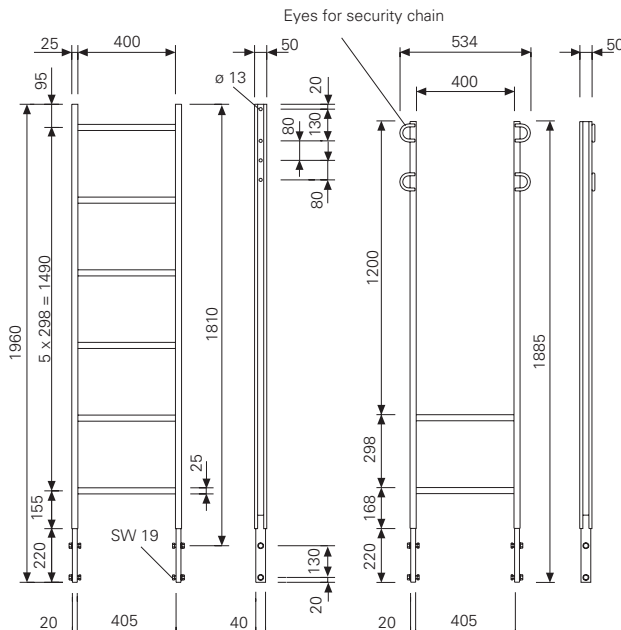

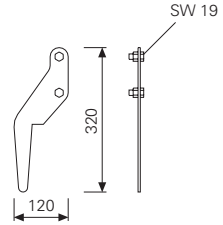
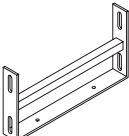
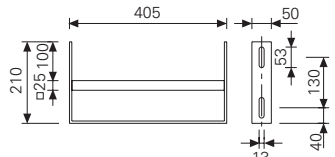
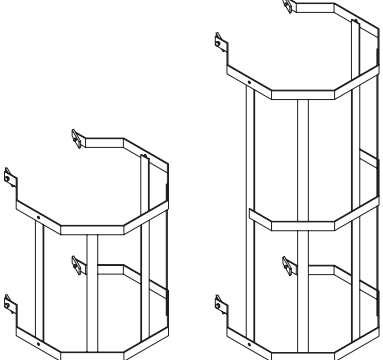
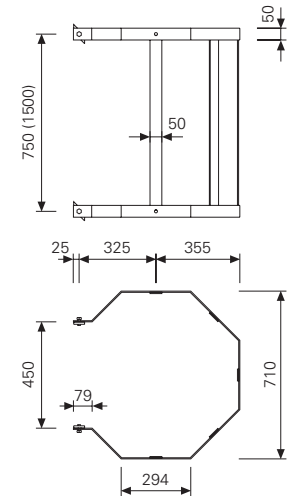


**Brace Connector-3 RAPID, galv.**

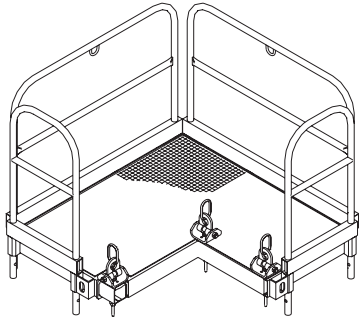
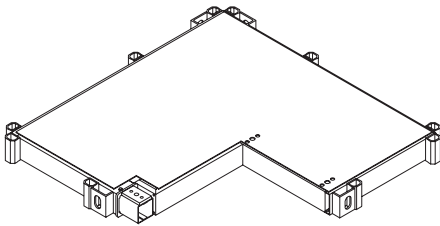
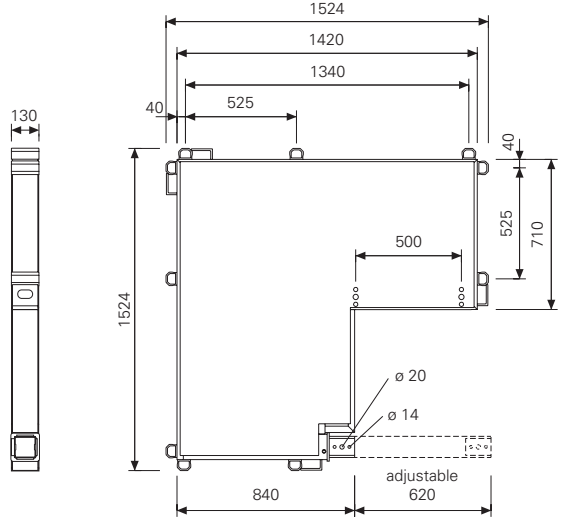
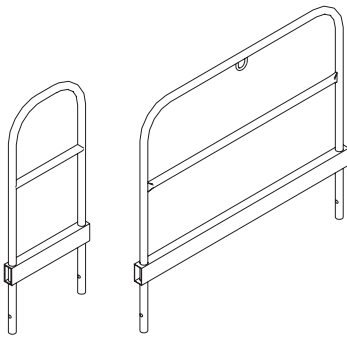
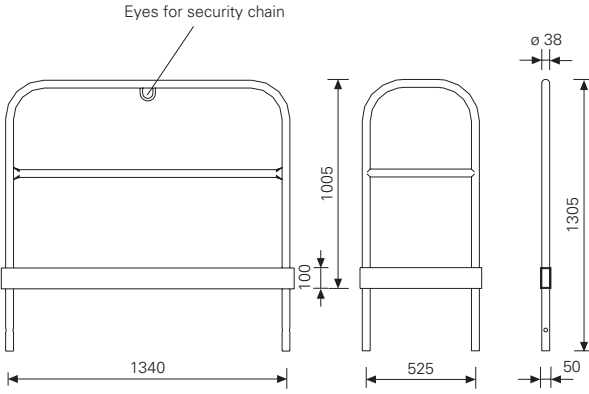
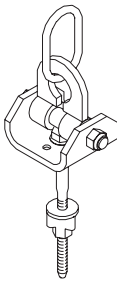
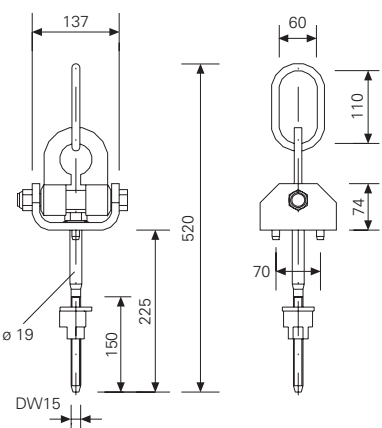
For fixing Push-Pull Props and  
 Kicker Braces to the Column Frames RAPID.  
 Complete with:  
 Locking Pin ø 20x205, galv. (1x)  
 Pin ø 16x42, (1x), and Cotter Pin 4/1 (2x).



	Weight kg	Item no.	
<p><b>Crane Lifting Unit-2 RAPID</b> 4 for a fully assembled column form. Only 2 needed when a concreting platform is used.</p>  <p>Load-bearing point Permissible load: 500kg</p>	14,00	037320	
<p><b>Column Tie Yoke DW15</b> For tying RAPID Column Frames. Comes with the RAPID Column Frames. For Column Frame 300 (4x), 210 (3x), 60 (1x)</p>  <p>Permissible Load to DIN 18216: 90kN</p>	0,60	037150	
<p><b>Locking Pin ø 20x205, galv.</b> For tying RAPID Column Frames. Comes with the RAPID Column Frames. For Column Frame 300 (4x), 210 (3x), 60 (1x) Complete with: Cotter Pin 4/1 (1x)</p> 	0,74	037160	
<p><b>Spherical Nut DW 15, galv.</b> For tying RAPID Column Frames. Comes with the RAPID Column Frames. For Column Frame 300 (4x), 210 (3x), 60 (1x)</p>  <p>Permissible Load to DIN 18216: 90kN</p>	0,49	030440	
<p><b>Ladder connector RAPID, galv.</b> For connecting ladders to RAPID column frames. Complete with: Hex. Bolt ISO 4017 M12x25-8.8, galv. (2x) and Clamping plate (2x)</p> 	6,58	103369	

	Weight kg	Item no.	
<p><b>Ladder 180/6, galv.</b>  <b>Access Ladder 180/2, galv.</b>            Complete with:            Hex. Bolts ISO 4017 M12x40-8.8, galv. and            Hex. Nut ISO 7042 M12-8, galv. (4x)</p> 	13,10 11,10	051410 103724	
<p>Accessories:  <b>Formwork chain 3kN, 2,5m</b></p>	1,37	065073	
<p><b>Ladder Hook, galv.</b>            Only for the lower ladder (2x)            Complete with:            Hex. Bolt ISO 4017 M12x25-8.8, galv. and            Hex. Nut ISO 7042 M12-8, galv. (2x)</p> 	0,68	103718	
<p><b>Ladder Base</b>            For preventing the ladders sliding.</p> 	2,36	051460	
<p><b>Ladder Safety Cage 75, galv.</b>  <b>Ladder Safety Cage 150, galv.</b>            Complete with:            Hex. Bolt ISO 4017 M12x25-8.8, galv. (4x),            Clamping plate (4x)</p> 	15,50 25,20	104132 051450	



	Weight kg	Item no.	
<p><b>Concreting Platform, complete</b>  Used for TRIO, RAPID and QUATTRO columns.  Consisting of:  Concreting Landing (1x)  Handrail 52 galv. (2x)  Handrail 134 galv. (2x)  Crane Hook Concreting Platform (3x)</p>	126,00	037400	
<p><b>Concreting Landing, Alu</b>  Powder-coated  Suitable for any cross section up to a maximum of 600x600mm. It is mounted with the Crane Hook Concreting Platform.</p>  <p>Permissible Load: 150kg/m<sup>2</sup></p>	51,50	037410	
<p><b>Handrail 52, galv.</b>  <b>Handrail 134, galv.</b>  2 of each per concreting platform.  Locks in place automatically.</p> 	10,50 18,10	037420 037430	
<p><b>Crane Hook Concreting Platform</b>  3 per concreting platform.  Complete with: Captive Fixing Pin and Cam Nut DW15, galv.</p>  <p>Load-bearing point  Permissible load: 1000kg</p>	5,70	037440	



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# PERI Product Range



## Wall Formwork

Panel Formwork  
Girder Formwork  
Circular Formwork  
Facade Formwork  
Brace Frame



## Climbing Systems

Climbing Scaffold  
Self-Climbing System  
Climbing Protection Panel  
Platform Systems



## Column Formwork

Square  
Rectangular  
Circular



## Scaffold, Stairways, Working Platforms

Facade Scaffold  
Working Platform  
Weather Protection Roof  
Stairway Access



## Slab Formwork

Panel Formwork  
Beam Grid Formwork  
Girder Formwork  
Slab Table  
Beam Formwork



## Bridge and Tunnel Formwork

Cantilevered Parapet Carriage  
Cantilevered Parapet Platform  
Engineer's Construction Kit



## Shoring Systems

Steel Slab Props  
Aluminium Slab Props  
Tower Systems  
Heavy-Duty Props



## Services

Formwork Assembly  
Cleaning / Repairs  
Formwork Planning  
Software  
Statics  
Special Constructions

Additional Systems  
Plywood  
Formwork Girders  
Stopend Systems  
Pallets  
Transportation Containers



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