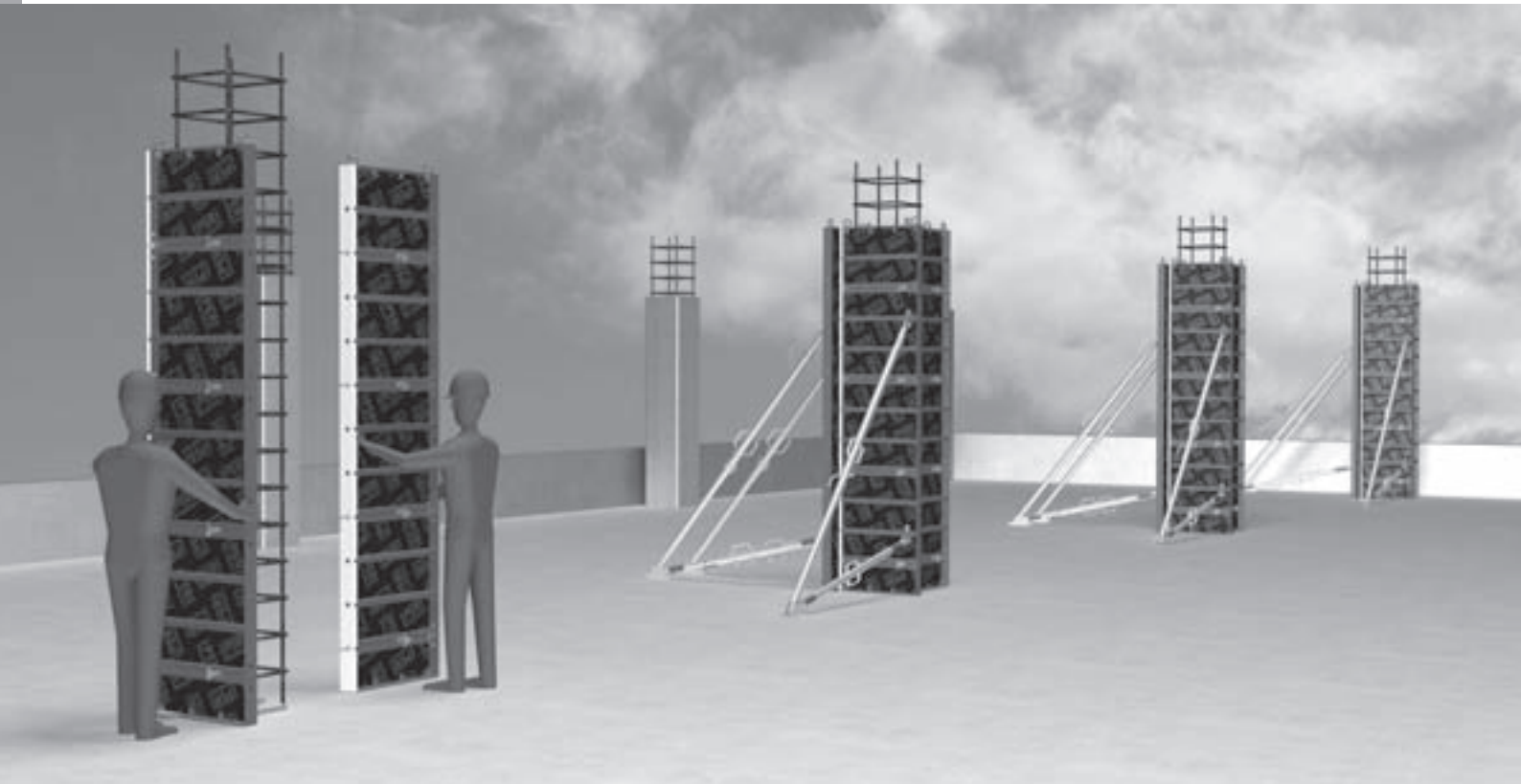


LICO

Column Formwork

Assembly Instructions for Standard Configuration



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General

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Key



Safety Instructions



Note



Visual Check



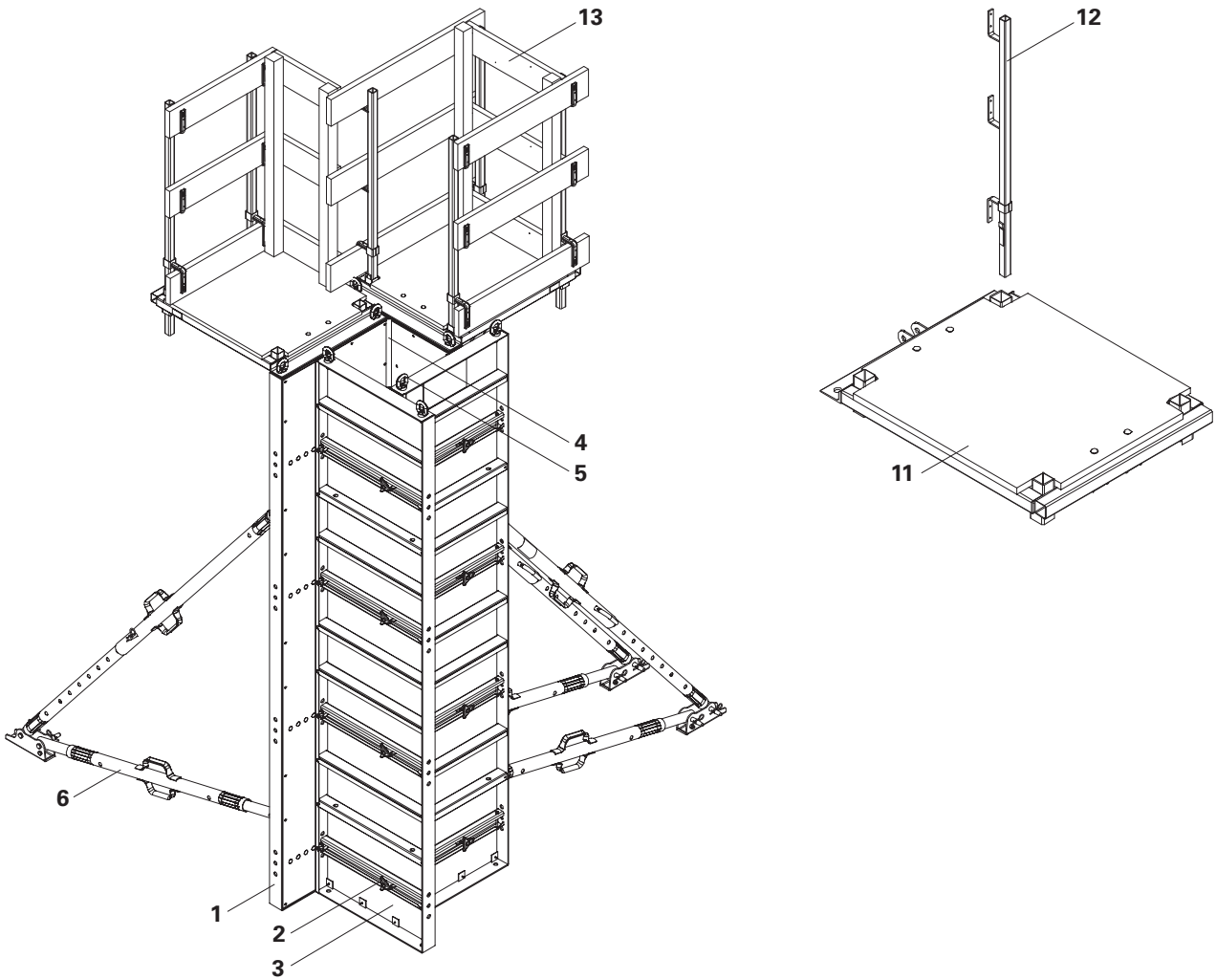
Tip



Load-bearing point

Introduction

Overview, Main Components



LICO Column

- 1 Column Panel
- 2 Column Tie Bolt DW 15,
Column Tie Nut DW 15
- 3 Formlining
- 4 Chamfer Strip
- 5 Eye Bolt / Lifting Point
- 6 Push-Pull Props RS /
RSS with Kickers

Concreting Platform complete

- 11 Concreting Platform
- 12 Guardrail Post HSGP
- 13 Handrail Boards
(supplied by contractor)

Introduction

Standard Configuration

General

PERI LICO is the lightest column formwork for forming without a crane. Connecting parts are permanently attached to the panels. Eye bolts on the panels are used as lifting points for moving with the crane as well as for connecting vertical panel extensions. The LICO chamfer strip is used for sealing the panel joints. Through the formwork element arrangement, which is based on the windmill vane principle, both square and rectangular column cross-sections can be formed.

System Dimensions

Formwork height:

3 different panel heights: 3.00 m, 1.00 m, 0.50 m.

Column Cross-Sections

Square or rectangular in 5 cm increments: 20 x 20 up to 60 x 60 cm. Column cross-sections over 60 x 60 cm are possible using additional anchors.

Technical Data

Permissible fresh concrete pressure 80 kN/m².

Intended Use

1. PERI products have been exclusively designed as technical work equipment for use in the industrial and commercial sectors by suitably trained personnel.
2. These assembly instructions serve as the basis for the project-related risk assessment and the instructions for the provision and use of the system by the contractor (user). However, this does not replace these.
3. Only PERI original components may be used. The use of other products and spare parts represents a misapplication with associated safety risks.

4. The components are to be inspected before each use to ensure that they are in perfect condition as well as being able to function properly.
5. Changes to PERI components are not permitted and represent a misapplication with associated safety risks.
6. Safety instructions and permissible loads must be observed at all times.
7. Components provided by the contractor must conform with the characteristics required in these assembly instructions as well as all valid construction guidelines and standards.

In particular, the following apply if nothing else is specified:

- timber components: Strength Class C24 for Solid Wood EN 338.
- scaffold tubes: galvanised steel tubing with minimum dimensions $\varnothing 48.3 \times 3.2$ mm according to EN 12811-1:2003 4.2.1.2.
- scaffold tube couplings according to EN 74.

8. Deviations from the standard configuration may only be carried out after a separate risk assessment has been completed by the contractor (user). On this basis, appropriate measures for the working safety and stability are to be implemented.

Introduction

Safety Instructions

General

1. Deviations from the standard configuration and/or intended use present a potential safety risk.
2. All country-specific laws, standards and other safety regulations are to be taken into account whenever our products are used.
3. During unfavourable weather conditions, suitable precautions and measures are to be taken in order to ensure both working safety and stability.
4. The contractor (user) must ensure the stability throughout all phases of construction. He must ensure and verify that all loads which occur can be safely transferred.
5. The contractor (user) has to provide safe working areas for site personnel which are to be reached through the provision of safe access ways. Areas of risk must be cordoned off and clearly marked. Hatches and openings on accessible working areas must be kept closed during working operations.
6. For better comprehensibility, detailed drawings are partly incomplete. The safety installations which have possibly not been featured in these detailed drawings must nevertheless be available.

Storage and Transportation

1. Do not drop the components.
2. Store and transport components ensuring that no unintentional change in their position is possible. Detach lifting gear from the lowered units only if these are in a stable position and no unintentional change is possible.
3. When moving the components, make sure they are lifted and set down accordingly so that any unintentional tilting over, falling apart, sliding or rolling away is prevented.
4. Use only suitable load-carrying equipment to move the components as well as the designated load-bearing points.
5. During the lifting and moving procedure, ensure all loose parts are removed or secured.
6. During the moving procedure, always use a guide rope.
7. Move components on clean, flat and sufficiently load-bearing surfaces only.

System-Specific

1. Retract components only when the concrete has sufficiently hardened and the person in charge has given the go-ahead for striking to take place.
2. Anchoring is to take place only if the anchorage has sufficient concrete strength.
3. Only use designated PERI lifting gear.
4. During striking, do not tear off the formwork panels with the crane.
5. If a storm warning is given, additional push-pull props are to be attached or other bracing measures are to be carried out along with implementing the details contained in the PERI design tables.

General

Additional PERI product information

- LICO Column Formwork brochure

The assemblies shown in these PERI assembly instructions are only examples which feature only one component size. They are accordingly valid for all component sizes contained in the standard configuration.

A1 Storage and Transportation

Panels and Accessories



Instructions for Use for PERI Pallet and Stacking Devices must be followed at all times!

Manually-created transport units must be correctly stacked and secured!

Transportation

PERI pallets and stacking devices are suitable for lifting with a crane or forklift.

They can also be moved with the PERI Pallet Lifting Trolley.

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

Stacking



Only panels of the same size are to be transported in one stack!

The LICO column panels are laid on top of each other to form a stack and then stored as a bundled unit. For protecting the materials and to ensure safe transportation, the LICO Stacking Aid (1.1) is inserted into the corners of the column panels. Store individual components in pallets.

(Fig. A1.01a + A1.01b)

Loading onto trucks

The number of stacks and pallets that can be transported at any one time depends on the respective national traffic regulations.

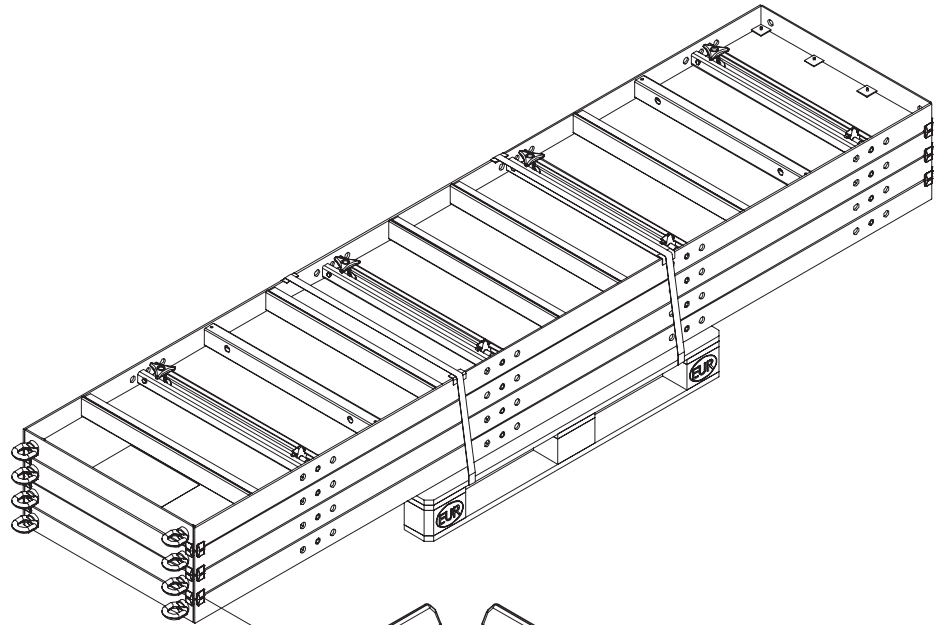


Fig. A1.01a

1.1

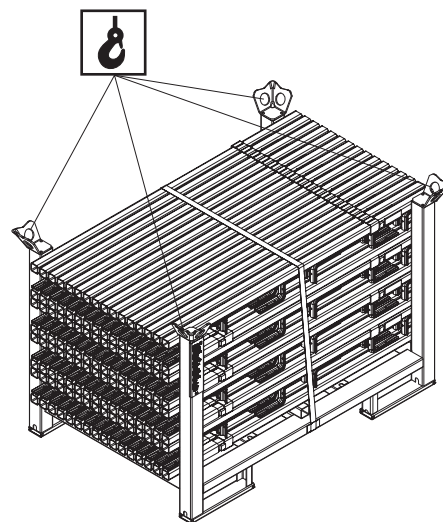
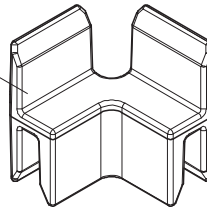


Fig. A1.01b

A2 Maintenance and Cleaning

Tips and Hints

In order to maintain the value and operational readiness of the LICO column formwork over a long period of time, the formwork should be carefully handled at all times.

Maintenance tips

1. Concrete vibrator with rubber end cap reduces the risk of damage to the formlining.
2. Spacers used for the reinforcement with large contact surfaces prevent impressions forming on the formlining.
3. When placing heavy items on the formlining, use support timbers in order to prevent any impressions on and damage to the formlining surface.
4. Spray the components with PERI Bio Clean before every use and clean the rear of the formwork with water immediately after concreting.
(Fig. A2.01)
5. Spray moving parts, if required, with PERI Bio Clean.
6. For damage-free transportation, suitable PERI pallets and stacking devices are available.



Fig. A2.01



Due to the frame being powder coated, cleaning requirements are kept to a minimum. Therefore, do not remove any concrete residue by means of sharp or pointed objects.

Repairs

The repair of damaged formlining surfaces is done through milling and glueing of repair discs.

B1 Assembly without the use of a crane

Position panels



The column panel H = 3 m is not symmetrical. The bottom row of holes are positioned 25 cm above the setting up surface.

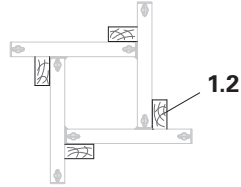


Fig. B1.01

Preparation

1. Mount the locating boards (1.2) on the concrete slab by means of dowels. (Fig. B1.01)
2. Slide LICO chamfer strips (4) onto the panels.

Position first and second panels.

3. Place panel (1) in a vertical position, align with locating board and hold securely. (Fig. B1.02)
4. Second panel is pushed next to the first panel. (Fig. B1.03)
5. Insert Column Tie Bolts (2.1) through the panel frame and formlining and tighten Column Tie Nuts (2.2) with a hammer or LICO Spanner. (Fig. B1.04 + B1.04a)
6. Mount push-pull props, see Fig. B1.07 + B1.08.

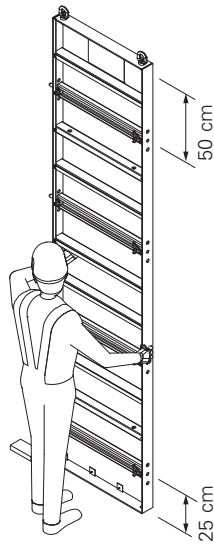


Fig. B1.02

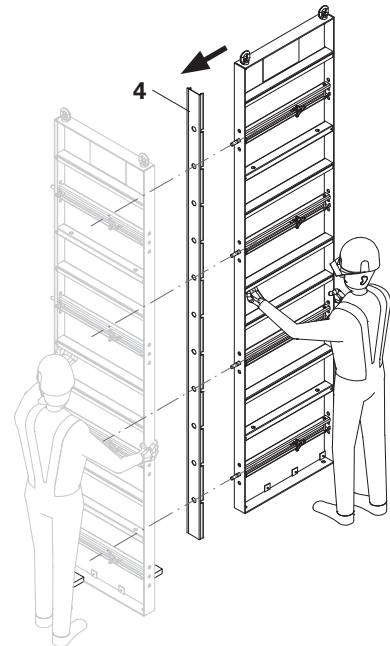


Fig. B1.03

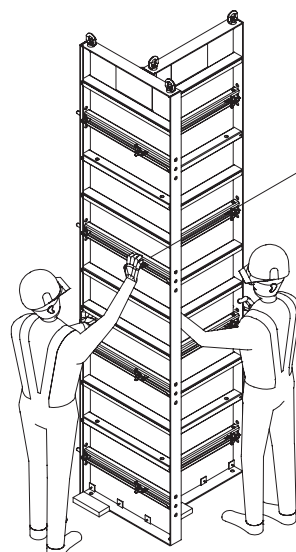


Fig. B1.04

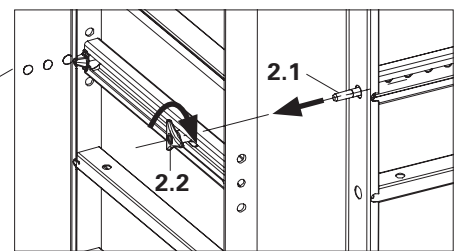
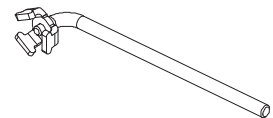


Fig. B1.04a



B1 Assembly without the use of a crane

Position panels

Position third and fourth panels

7. Place third and fourth panels together with chamfer strips against panels already in position.

8. Insert Column Tie Bolts through the panel frame and formlining and tighten Column Tie Nuts with a hammer.
(Fig. B1.05 + B1. 06)

The column is now shuttered.

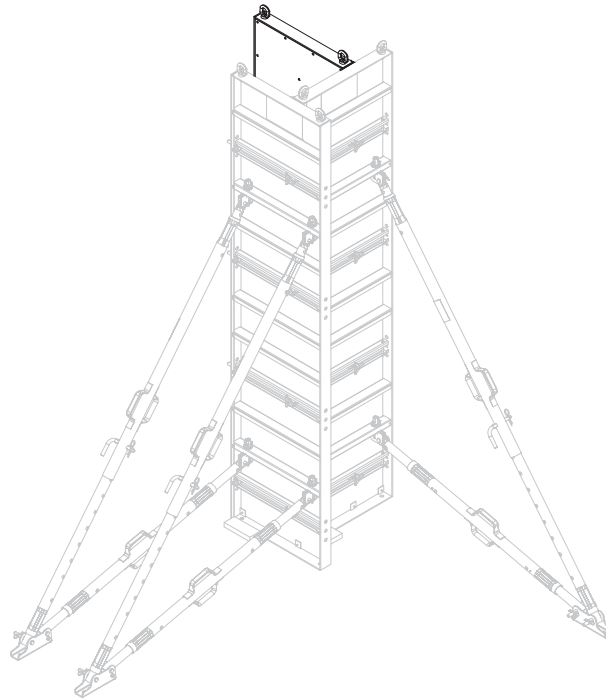


Fig. B1.05

Concreting

Use a safe working area at great heights, e.g. mobile scaffold.

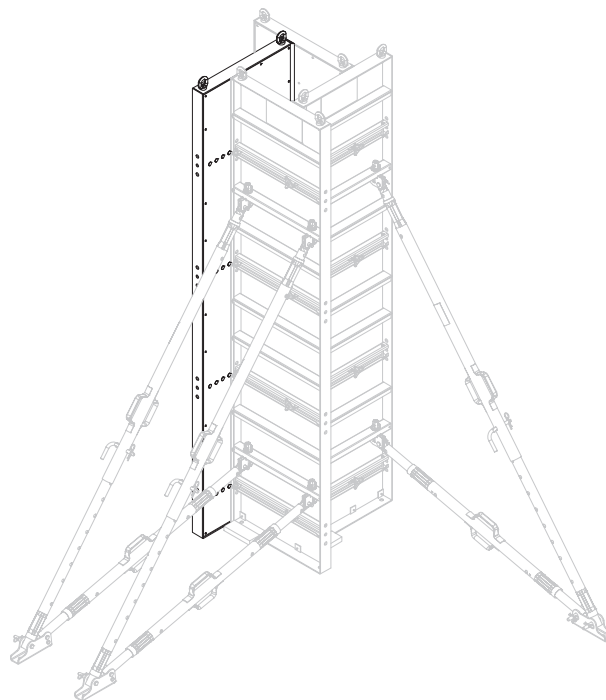


Fig. B1.06

B1 Assembly without the use of a crane

Push-pull props



Mount 3 push-pull props to ensure stability!

Mount six brace connectors to one formwork half.

Column panel H = 3 m:
second strut from the bottom and third strut from the top.

Column Panel

H = 1 m: middle strut

H = 50 cm: no connection

(Fig. B1.07)

Use a safe working area at great heights, e.g. mobile scaffold.

Assembly

1. Remove cam nut (6.1).

2. Push the Brace Connector (6.2) from below through the drilled hole and secure with the cam nut.

(Fig. B1.07a)

3. Mount push-pull props and kickers with pins and cotter pins.

4. Mount Base Plates with pins and cotter pins then secure to load-bearing surface with dowels, e.g. PERI Anchor Bolts 4/20x130, Item no. 124777.

(Fig. B1.08 + B1.08a)

5. Vertically align formwork in both directions.

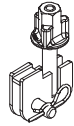


Fig. B1.07

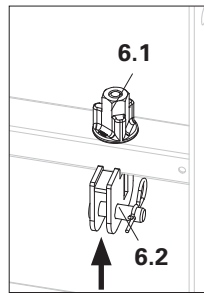


Fig. B1.07a

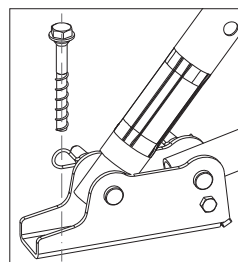


Fig. B1.08a

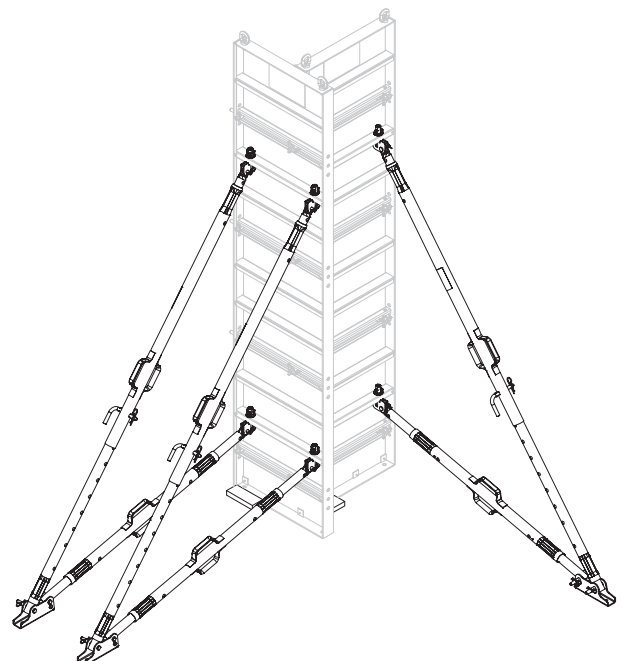


Fig. B1.08

B1 Assembly without the use of a crane

Push-pull props

Push-pull props and kickers up to H = 4.50 m:

Push-Pull Prop RS 210

Push-Pull Prop RS 260

Push-Pull Prop RS 300

Push-Pull Prop RS 450

(Fig. B1.09)

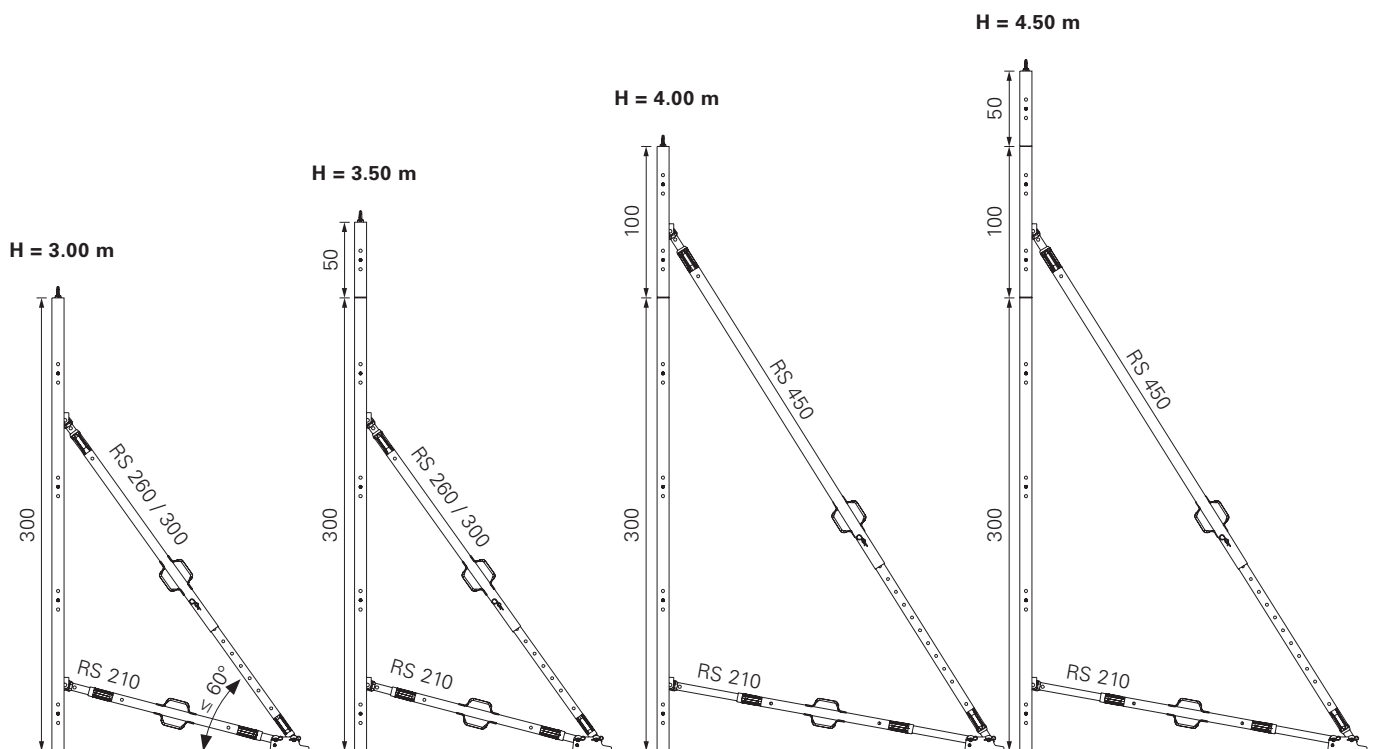


Fig. B1.09

B2 Striking the column without use of the crane

Dismantling the panels

1. Release Column Tie Nuts (2.2) on each column panel.
 2. Remove column panels one after the other from the column and lay on ground for cleaning.
 3. Remove push-pull props and kickers just before striking the respective column panel.
- (Fig. B2.01 – B2.03)

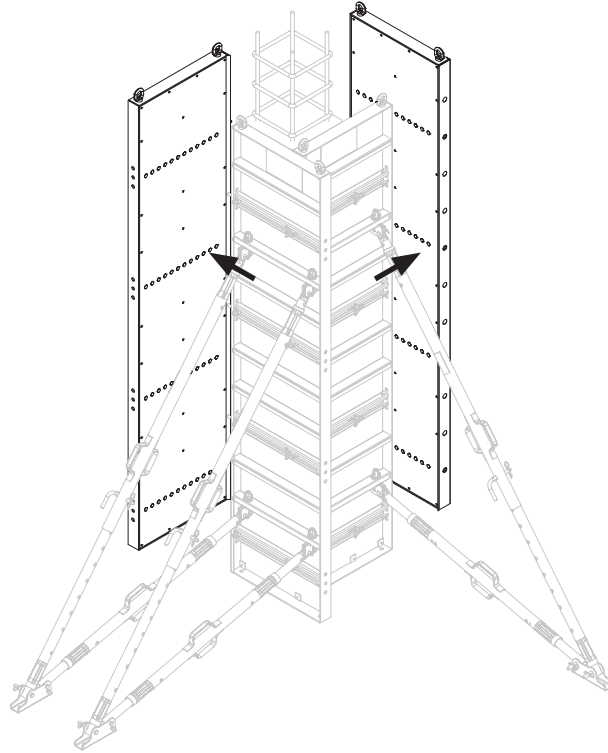


Fig. B2.01

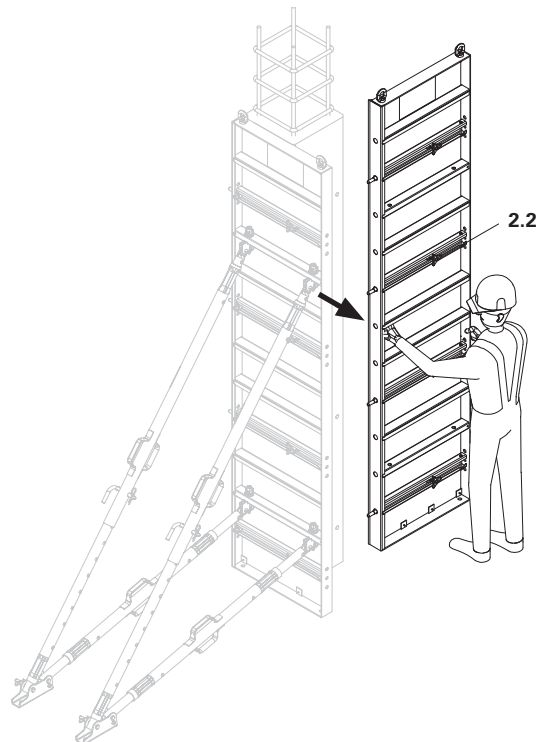


Fig. B2.02

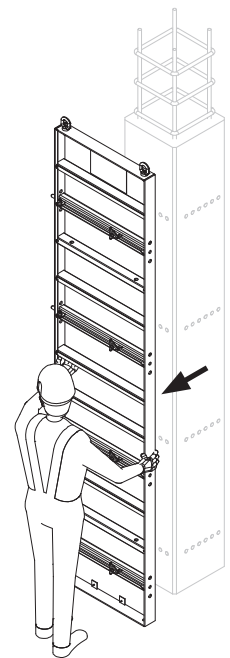


Fig. B2.03

C1 Assembly with the use of a crane

Formwork halves



The column panel H = 3 m is not symmetrical. The bottom row of holes is positioned 25 cm over the edge profile.

Assembly

1. Attach LICO chamfer strip (4) on the front side.
2. Place column panel on the first column panel.
(Fig. C1.01)
3. Position Column Tie Nuts (2.2)
4. Insert Column Tie Bolts (2.1) through the panel frame and formlining, then secure by means of Column Tie Nuts (2.2) using a hammer or LICO spanner.
(Fig. C1.02)
5. Install the second formwork half in the same way.

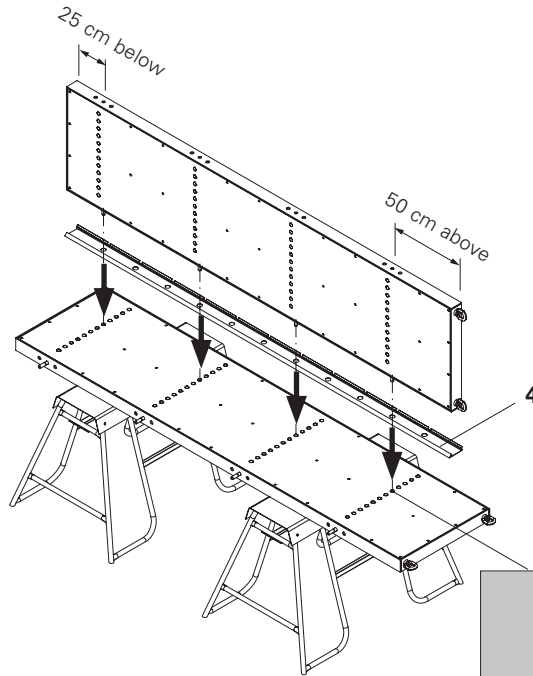


Fig. C1.01

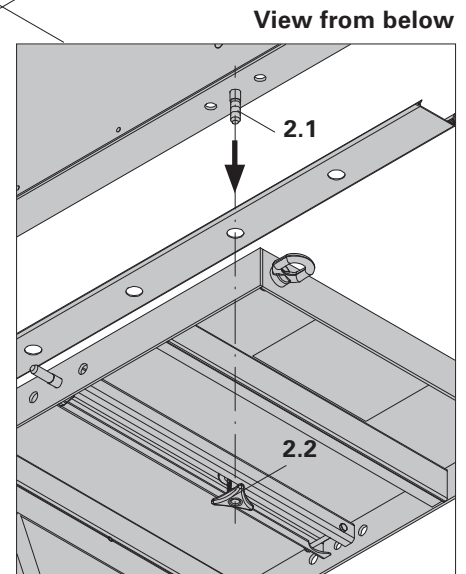


Fig. C1.02

Load-bearing point

Eye Bolt M20 x 40 (5).

Load-bearing capacity:

1 t / Eye Bolt with max. crane sling angle = 30°.
(Fig. C1.03)

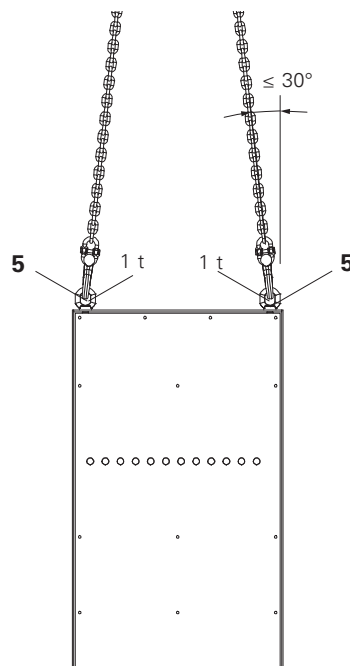
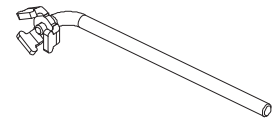


Fig. C1.03



C1 Assembly with the use of a crane

Push-pull props

Assembly on the horizontally-positioned formwork half.



Mount 3 push-pull props to ensure stability!

Mount six brace connectors to one formwork half.

Assembly on column panel H = 3 m:
second strut from below and third strut from above.

Column panel

H = 1 m: middle strut

H = 50 cm: no connection

(Fig. C1.04)

Assembly

1. Remove cam nut (6.1).
2. Push Brace Connector (6.2) from below through the drilled hole and secure with the cam nut.
- (Fig. C1.04a)
4. Fix push-pull prop and kicker with pins and cotter pins.
4. Fix Base Plates with pins and cotter pins.
- (Fig. C1.05)

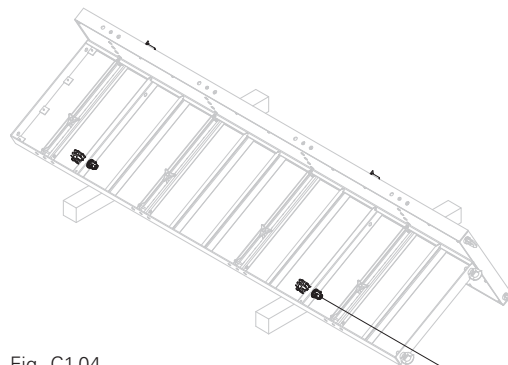
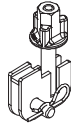


Fig. C1.04

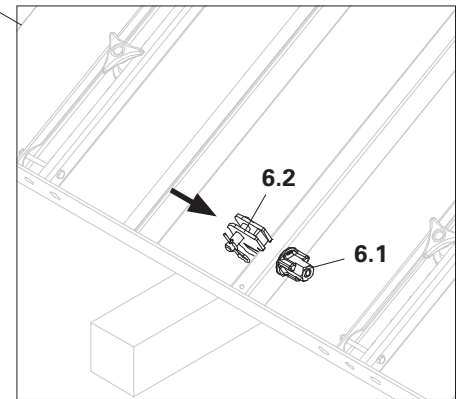


Fig. C1.04a

Push-pull props and kickers up to H = 4.50 m:

Push-Pull Prop RS 210

Push-Pull Prop RS 260

Push-Pull Prop RS 300

Push-Pull Prop RS 450

see Fig. B1.09

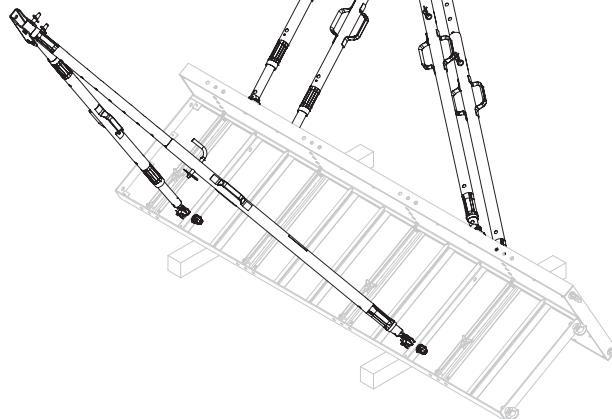


Fig. C1.05

C1 Assembly with the use of a crane

Concreting platform



Depending on the position of the Column Tie Nuts, the struts of the concreting platform are fixed in mounting support A or B.

Preparing the concreting platform

1. Pull cotter pin on vertical strut (11.1), remove pin and put strut in a vertical position.
2. Release diagonal strut (11.2) from mounting support (A / B).
3. Fix straight side of the diagonal strut to the vertical strut by means of pins and cotter pins.
4. Fix diagonal strut with the lugs to the vertical strut with pins and cotter pins. (Fig. C1.06a – C1.06c)

Transport position

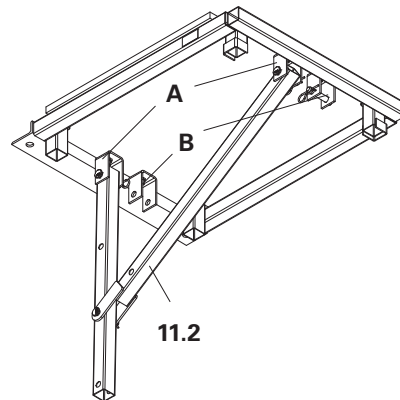
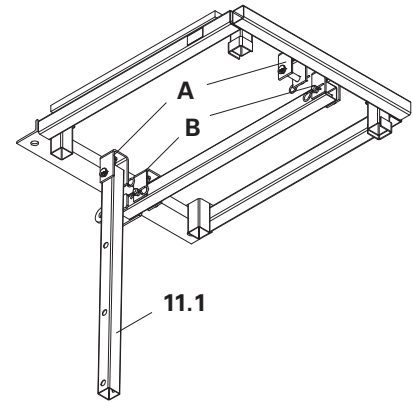
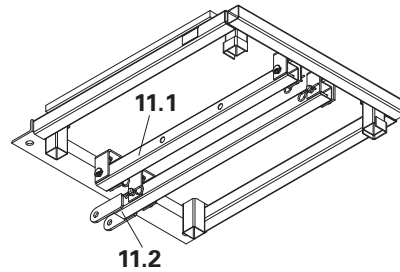


Fig. C1.06a – C1.06c

Concreting platform and guardrails arrangement



- Concreting platform is only mounted on column panels with push-pull props.
- Open sides of platform and platform crossings are secured with guardrails (13). (Fig. C1.07a – C1.07c)

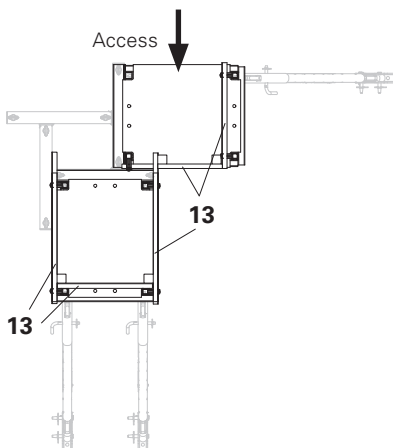


Fig. C1.07a

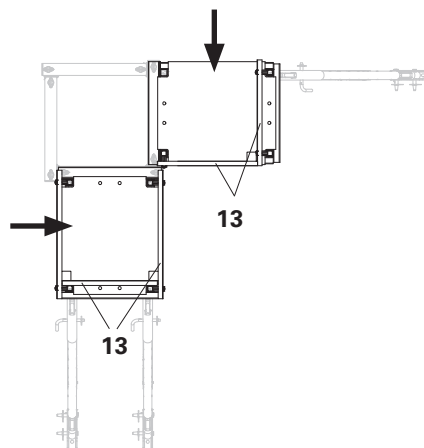


Fig. C1.07b

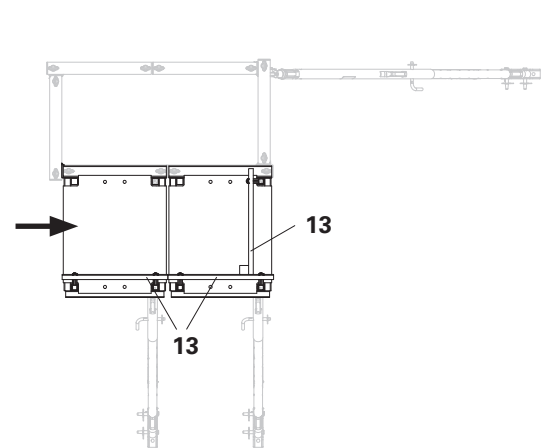


Fig. C1.07c

C1 Assembly with the use of a crane

Concreting platform

Assembly

1. Fix concreting platform (11) to the column panel by means of Eye Bolts M20 and Nuts (5). (Fig. C1.08)
2. Insert Guardrail Posts HSGP (12). (Fig. C1.09)
3. Mount guardrails and secure. Open sides of platform and platform crossings are secured with guardrails (13). (Fig. C1.10)

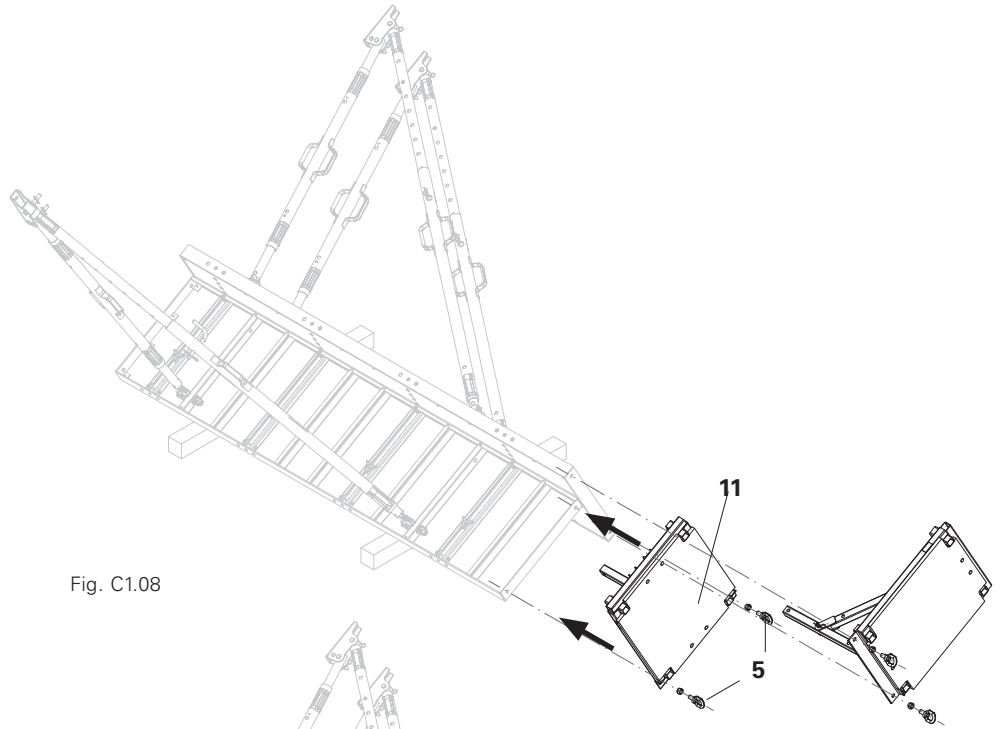


Fig. C1.08

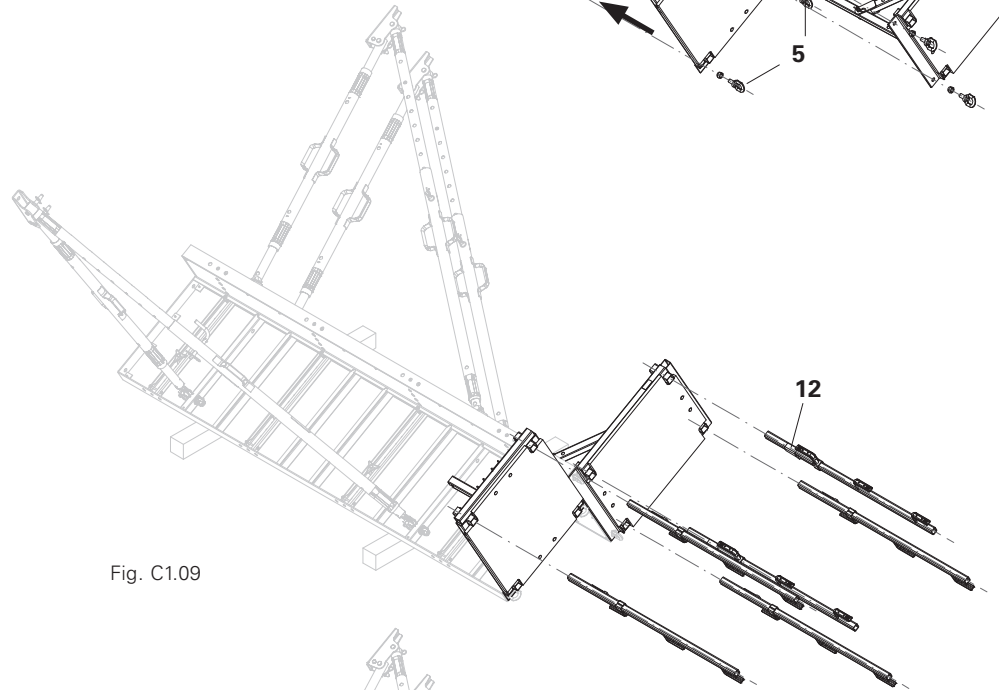


Fig. C1.09

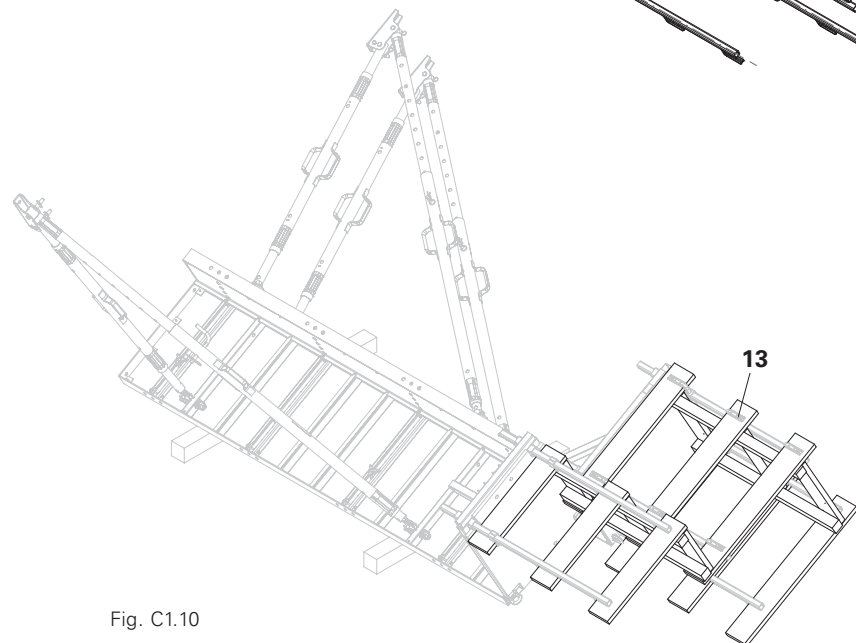


Fig. C1.10

C2 Shuttering with the use of a crane

Placing of formwork



- Always set up the formwork half with the concreting platform first.
- Align formwork with the rear side to the locating boards.
- When erecting the panel, make sure that the guardrails are not damaged by the lifting gear.
- Use a safe working area at great heights, e.g. mobile scaffold.

Position the formwork half with concreting platform (placing formwork)

1. Attach 3-sling lifting gear to the crane eyes (5), lift formwork to a vertical position and then transport to place of use. (Fig. C2.01)

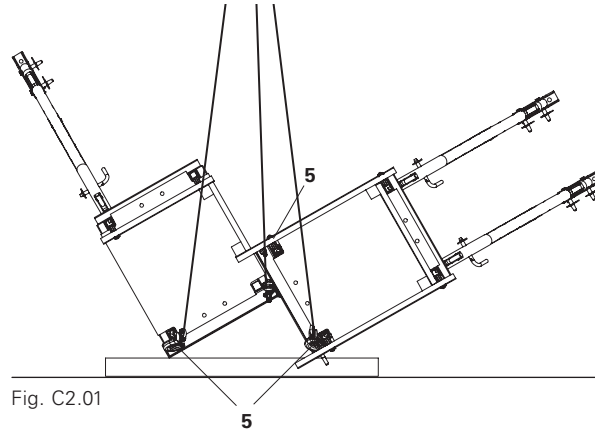


Fig. C2.01

2. Position formwork half against locating boards. (Fig. C2.02)

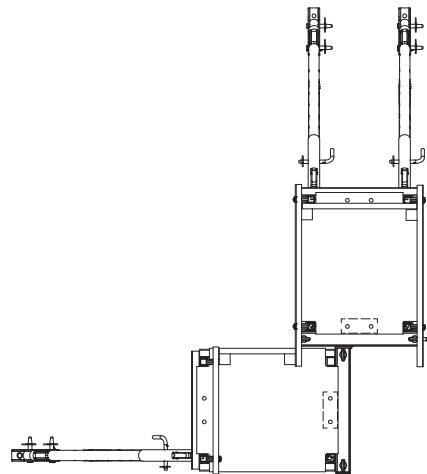


Fig. C2.02

3. Fix Base Plates of push-pull props and kickers to load-bearing surface, e.g. with PERI Anchor Bolts 14/20x130, Item no. 124777. (Fig. C2.03)

4. Check stability and vertically align formwork in both directions.
5. Detach crane lifting gear.

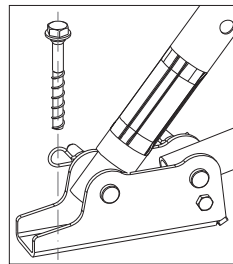


Fig. C2.03

The first formwork half is now in position. (Fig. C2.04)

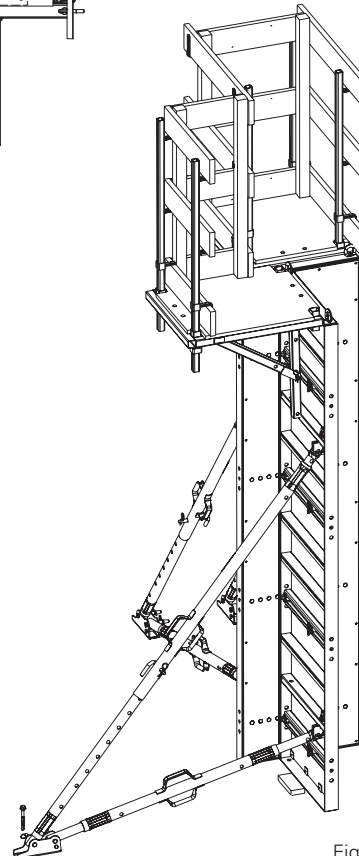


Fig. C2.04

C2 Shuttering with the use of a crane

Closing the formwork



- Close formwork from bottom to top.
- Use a safe working area at great heights, e.g. mobile scaffold.
- Secure the access to the concreting platform with approved climbing aids.

Position second formwork half (closing formwork)

1. Attach crane lifting gear to the crane eyes (5), lift formwork to a vertical position and then transport to the place of use.
 2. Attach LICO chamfer strips (4) to the front side.
 3. Position formwork half against locating boards.
- (Fig. C2.05)

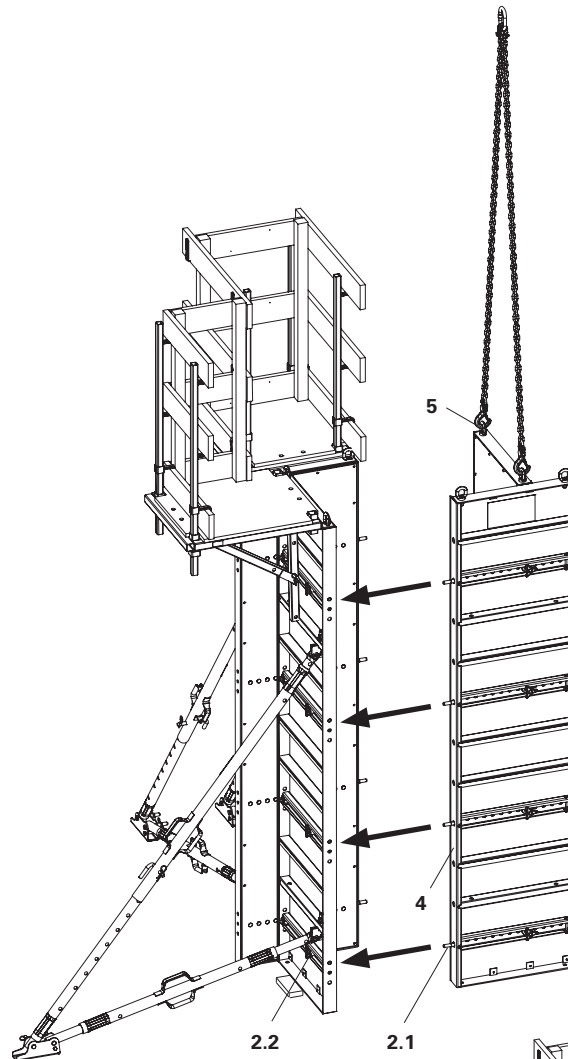


Fig. C2.05

Closing the formwork

1. Position Column Tie Nuts (2.2).
 2. Insert Column Tie Nuts (2.1) through the formlining and secure with the Column Tie Nuts.
 3. Detach crane lifting gear.
- (Fig. C2.06)
- (Fig. C2.07)

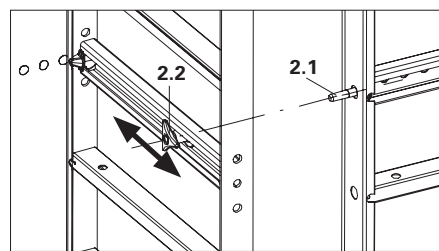


Fig. C2.06

The column is shuttered.

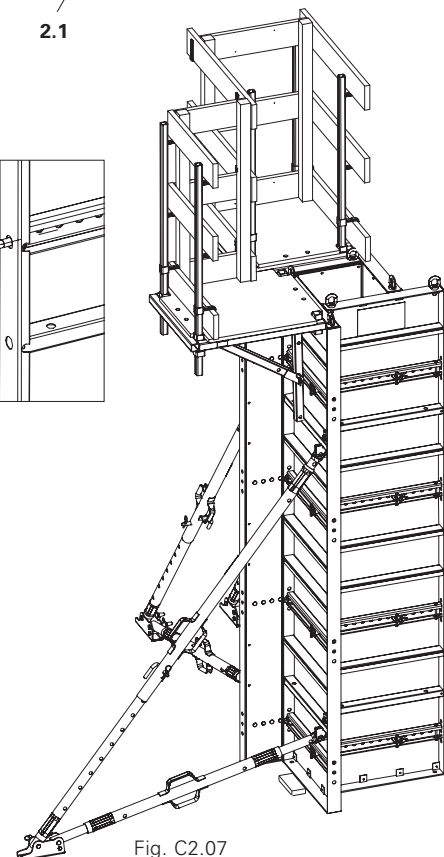


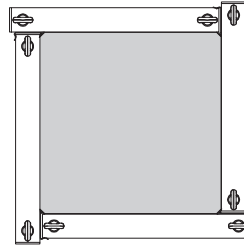
Fig. C2.07

C3 Striking the column, moving with use of a crane

Striking, moving



- Push-pull props and concreting platform remain attached.
- Open formwork from top to bottom. The tie yokes and nuts remain attached to the column panel.
- A safe working area is to be used at great heights, e.g. mobile scaffold.



Shuttered

Formwork half without push-pull props

1. Attach crane lifting gear to the non-supported formwork half and tension.
2. Divide corner connections between the formwork halves: release Column Tie Nuts (2.2) and pull back Column Tie Bolts (2.1)
3. Remove column half from the column and lay on ground for cleaning. (Fig. C3.01)

Formwork half with push-pull props

1. Attach crane lifting gear to the crane eyes.
2. Remove Base Plates of the push-pull props and kicker braces from the ground.
3. Remove column half from the column and lay on ground for cleaning. (Fig. C3.01)

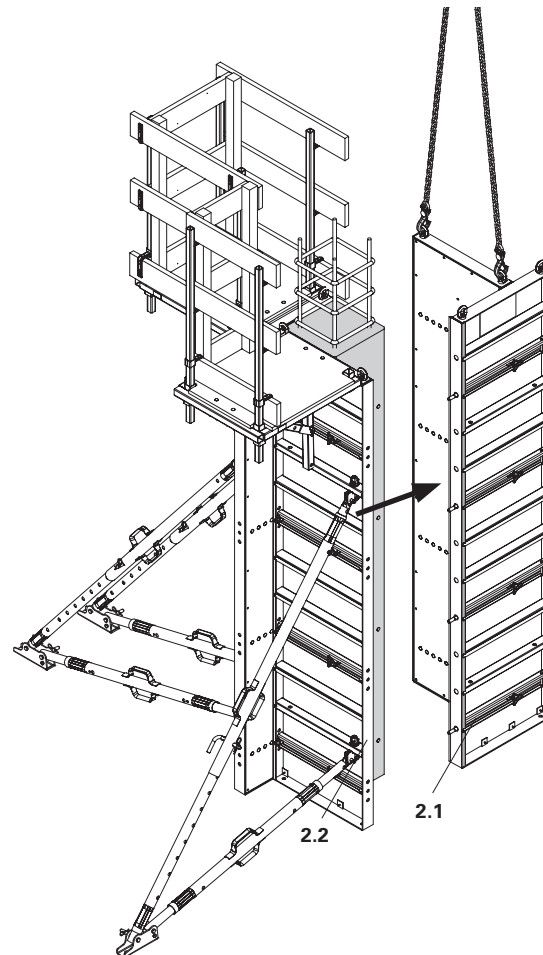


Fig. C3.01

D1 Column Cross-Sections

Column cross-section $\leq 60 \times 60 \text{ cm}$

With 1 column panel

Column cross-sections from $20 \times 20 \text{ cm}$ to $60 \times 60 \text{ cm}$ are possible in 5 cm increments.

Example (Fig. D1.01a – D1.01c)

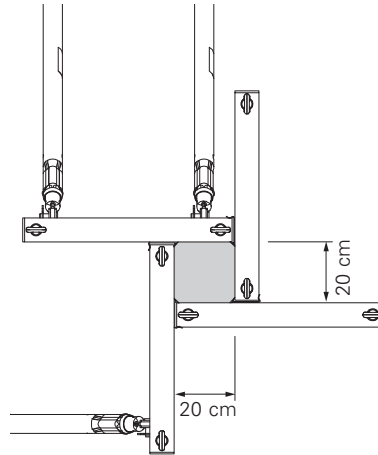


Fig. D1.01a

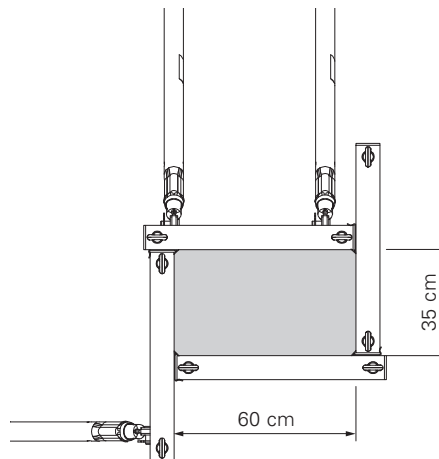


Fig. D1.01b

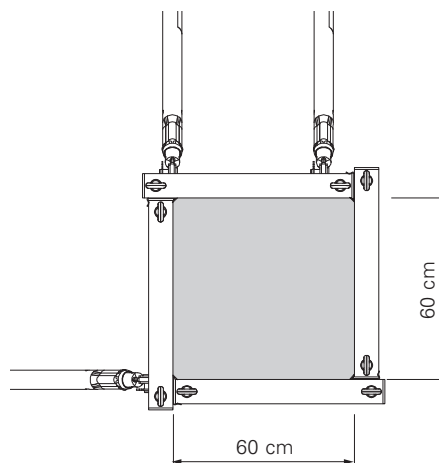


Fig. D1.01c

D1 Column Cross-Sections

Column cross-sections > 60 x 60 cm

Wall sections with several column panels



- Column cross-sections > 60 cm are to be formed using additional anchors.
- The following cross-sections are examples. (Fig. D1.02 + D1.06b)

Assembly

1. Connect panels with standard bolts and nuts M20, SW 30.
2. Install anchors at the same height as the rows of holes, as close as possible to the middle of the column. (Fig. D1.04)

Important:

The following cross-sections can only be realised with double formlining (1.3):
 Cross-sections > 60 to 74 cm
 > 130 to 144 cm
 (Fig. D1.02 + D1.03)

Wall section with 2 column panels

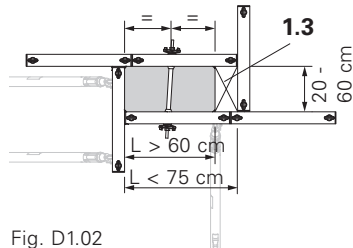


Fig. D1.02

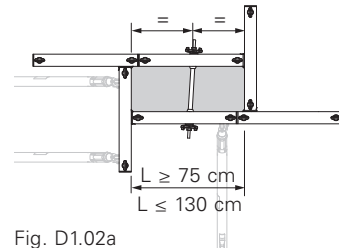


Fig. D1.02a

Wall section with 3 column panels

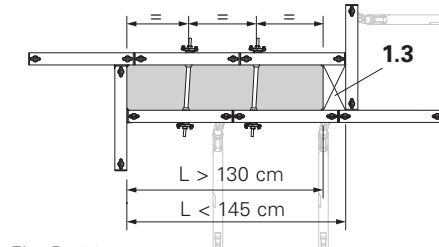


Fig. D1.03

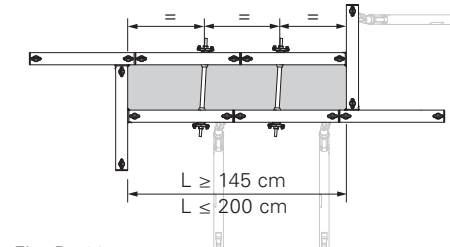


Fig. D1.03a

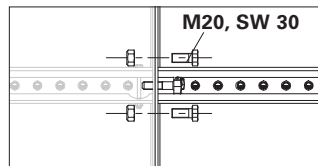


Fig. D1.04

Square-shaped with 2 column panels up to a max. 130 x 130 cm

(Fig. D1.05a + D1.05b)

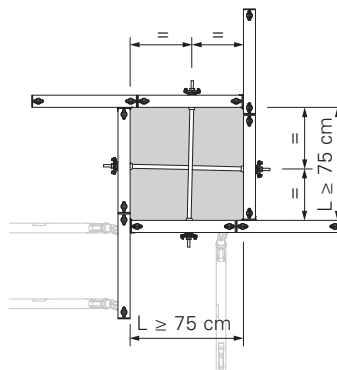


Fig. D1.05a

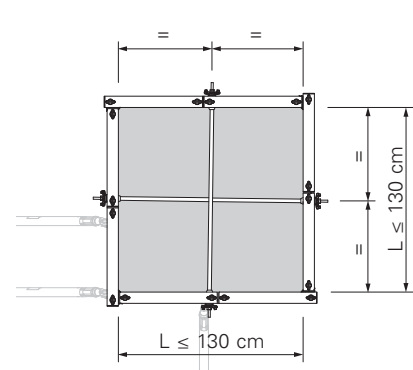


Fig. D1.05b

D2 Height Extensions

Height adjustment up to 4.50 m

With three panel heights, height adjustments are possible in 50 cm increments.



Always install the Column Panel 50 at the top.

Connecting column panels

Connect column panels in a horizontal position using the factory-fitted Eye Bolts M20 x 40 (5). (Fig. D2.01)

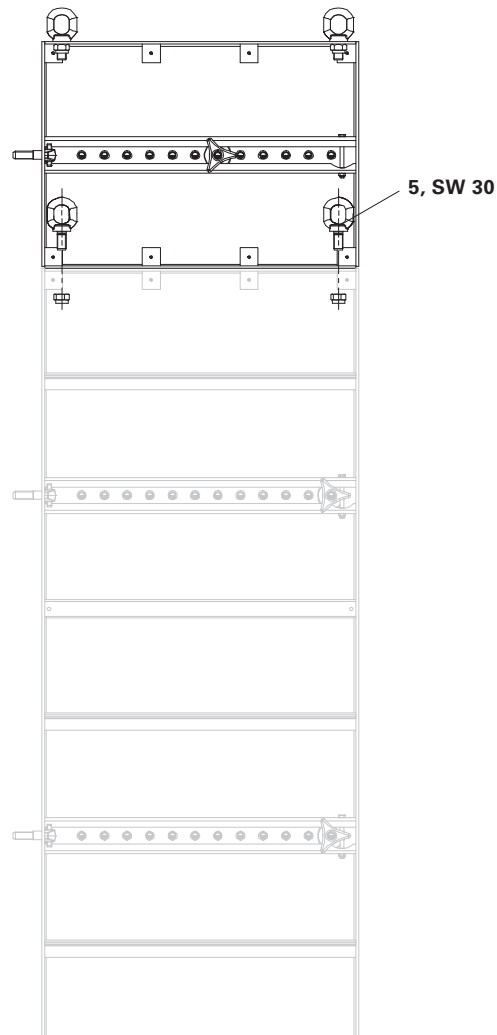


Fig. D2.01

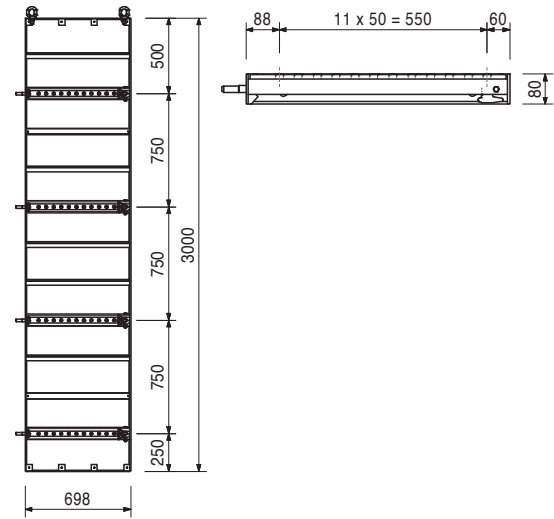
Item no.	Weight kg
111683	74.700

Column Panel LICO 700 x 3000

Column panels for cross-sections from 20 x 20 cm up to 60 x 60 cm in 5 cm increments. 12 mm Fin-Ply formlining.

Complete with

- 4 pc. 111679 Column Tie Nut LICO DW 15
- 4 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 48 pc. 030290 Plug Ø 20 mm



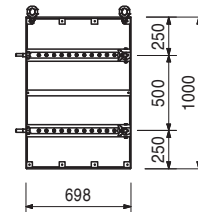
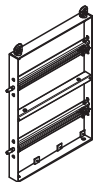
111957	32.600
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Column Panel LICO 700 x 1000

Column panels for cross-sections from 20 x 20 cm up to 60 x 60 cm in 5 cm increments. 12 mm Fin-Ply formlining.

Complete with

- 2 pc. 111679 Column Tie Nut LICO DW 15
- 2 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 24 pc. 030290 Plug Ø 20 mm



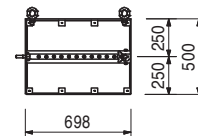
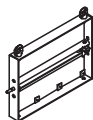
111964	17.000
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Column Panel LICO 700 x 500

Column panels for cross-sections from 20 x 20 cm up to 60 x 60 cm in 5 cm increments. 12 mm Fin-Ply formlining.

Complete with

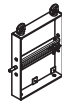
- 1 pc. 111679 Column Tie Nut LICO DW 15
- 1 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 12 pc. 030290 Plug Ø 20 mm



Item no.	Weight kg
125614	12.100

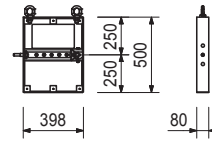
Column Panel LICO 400 x 500

Column panels for cross-sections from 20 x 20 cm up to 30 x 30 cm in 5 cm increments. 12 mm Fin-Fly formlining.



Complete with

- 1 pc. 111679 Column Tie Nut LICO DW 15
- 1 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 6 pc. 030290 Plug Ø 20 mm



125610	21.100
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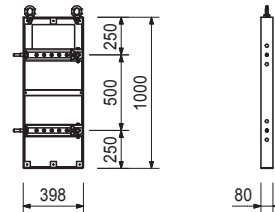
Column Panel LICO 400 x 1000

Column panels for cross-sections from 20 x 20 cm up to 30 x 30 cm in 5 cm increments. 12 mm Fin-Fly formlining.



Complete with

- 2 pc. 111679 Column Tie Nut LICO DW 15
- 2 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 12 pc. 030290 Plug Ø 20 mm



125606	53.500
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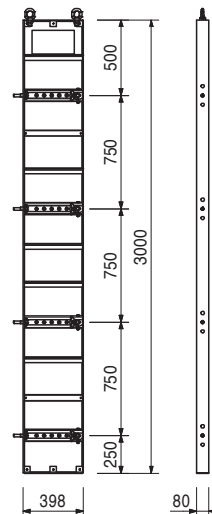
Column Panel LICO 400 x 3000

Column panels for cross-sections from 20 x 20 cm up to 30 x 30 cm in 5 cm increments. 12 mm Fin-Fly formlining.



Complete with

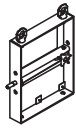
- 4 pc. 111679 Column Tie Nut LICO DW 15
- 4 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 24 pc. 030290 Plug Ø 20 mm



Item no.	Weight kg
126770	12.100

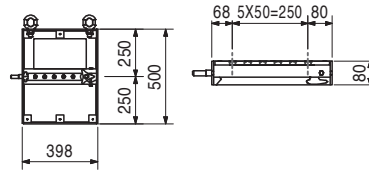
Panel LICO 400 x 500 with holes, 23/28

Column panels for cross-sections from 23 x 23 cm up to 28 x 28 cm in 5 cm increments. 12 mm Fin-Ply formlining.



Complete with

- 1 pc. 111679 Column Tie Nut LICO DW 15
- 1 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 6 pc. 030290 Plug Ø 20 mm



126765	21.100
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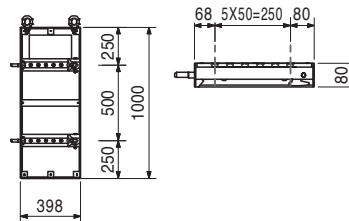
Panel LICO 400 x 1000, 23/28

Column panels for cross-sections from 23 x 23 cm up to 28 x 28 cm in 5 cm increments. 12 mm Fin-Ply formlining.



Complete with

- 2 pc. 111679 Column Tie Nut LICO DW 15
- 2 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 12 pc. 030290 Plug Ø 20 mm



126760	53.500
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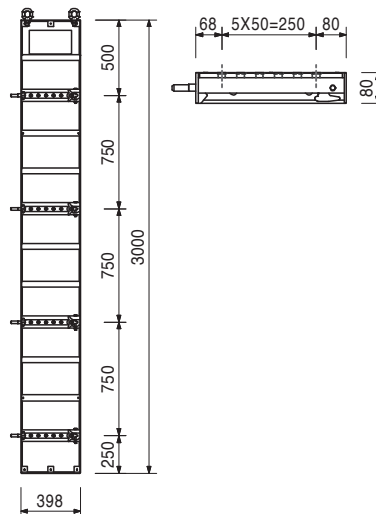
Panel LICO 400 x 3000, 23/28

Column panels for cross-sections from 23 x 23 cm up to 28 x 28 cm in 5 cm increments. 12 mm Fin-Ply formlining.



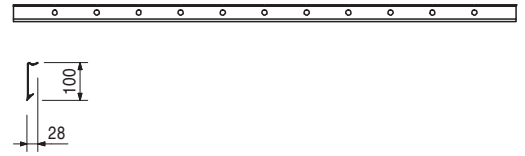
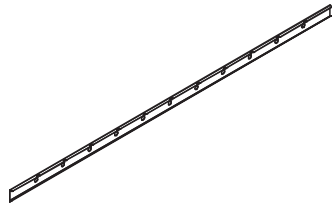
Complete with

- 4 pc. 111679 Column Tie Nut LICO DW 15
- 4 pc. 111682 Column Tie Bolt LICO DW 15
- 2 pc. 710130 Loop Bolt M20 x 40, galv.
- 2 pc. 781053 Nut ISO 7042 M20-8, galv.
- 24 pc. 030290 Plug Ø 20 mm



Item no.	Weight kg
111975	1.080

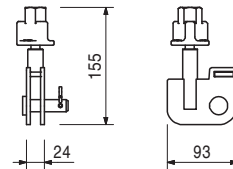
Chamfer Strip LICO I = 3.00 m
For attaching to the LICO column panels.



037530	1.130
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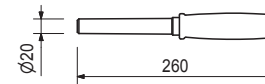
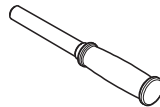
Brace Connector QUATTRO QR
For connecting push-pull props and kicker braces to QUATTRO and LICO panels.

Complete with
1 pc. 027170 Pin \varnothing 16 x 42, galv.
1 pc. 018060 Cotter Pin 4/1, galv.



115019	0.334
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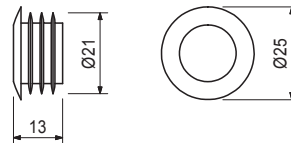
Lifting Pin LICO



030290	0.002
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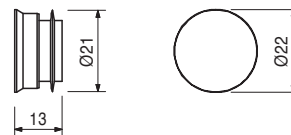
Plug \varnothing 20 mm
For closing \varnothing 20 mm tie holes which are not required.

Note
Delivery unit 500 pieces.



124739	0.003
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Plug \varnothing 20 mm LICO
For closing \varnothing 20 mm tie holes which are not required.

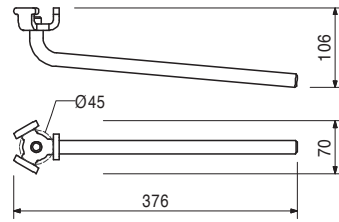
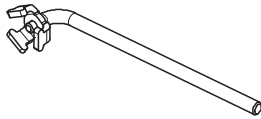


LICO Column Formwork



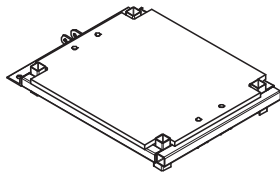
Item no.	Weight kg
116432	0.957

Spanner LICO
For tying LICO column formwork.

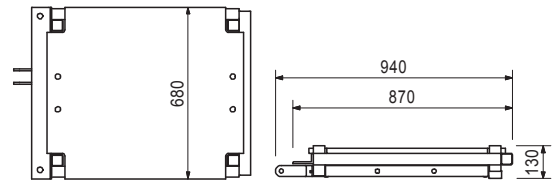


115894	22.900
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Concreting Platform LICO
Working and concreting platform for LICO column formwork.



Technical Data
Permissible load 150 kg/m².

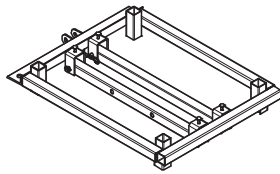


116292	4.730
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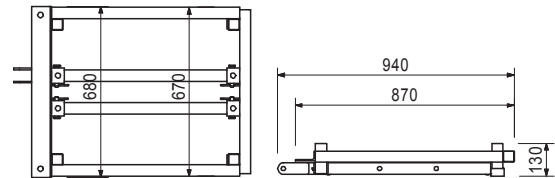
Accessories
Guardrail Post HSGP-2

115895	17.600
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Concreting Platform LICO Frame
Working and concreting platform for LICO column formwork. Decking by customer.

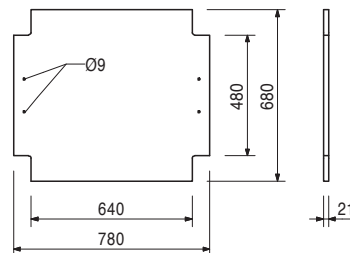
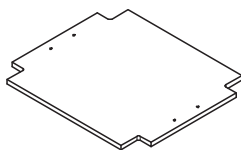


Technical Data
Permissible load 150 kg/m².



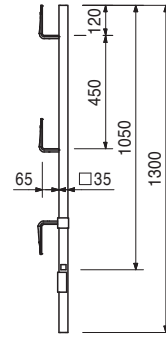
115896	5.270
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Concreting Platform LICO Cover
As replacement cover for Concreting Platform LICO.



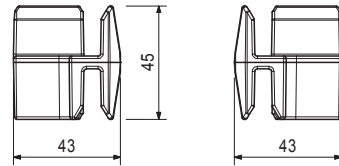
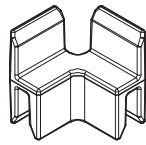
Item no.	Weight kg
116292	4.730

Guardrail Post HSGP-2
As guardrail for different systems.



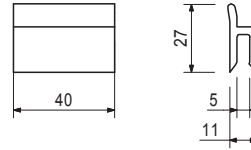
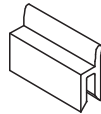
114620	0.026
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Stacking Aid LICO
For easy stacking of LICO panels.



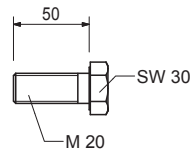
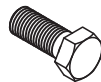
034630	0.008
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Stacking Device-2 LICO



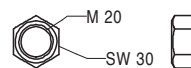
780357	0.178
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Bolt ISO 4017 M20 x 50-8.8, galv.
With a continuous thread.



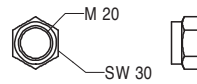
710334	0.064
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Nut ISO 4032 M20-8, galv.



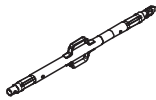
Item no.	Weight kg
781053	0.065

Nut ISO 7042 M20-8, galv.
Self-locking.

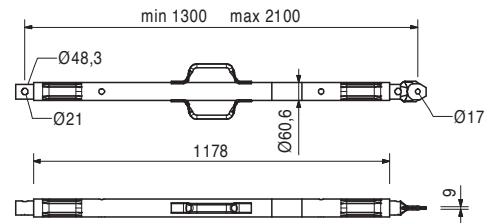


117466	10.600
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Push-Pull Prop RS 210, galv.
Extension length $l = 1.30 - 2.10$ m.
For aligning PERI formwork systems and precast concrete elements.

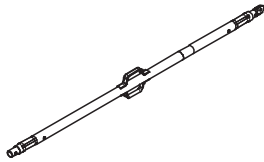


Note
Permissible load see PERI Design Tables.

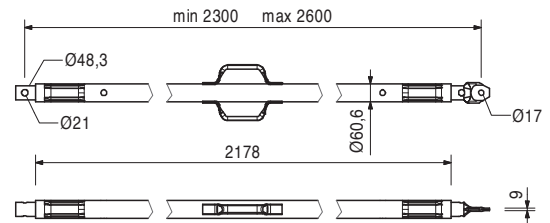


118238	12.200
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Push-Pull Prop RS 260, galv.
Extension length $l = 2.30 - 2.60$ m.
For aligning PERI formwork systems and precast concrete elements.

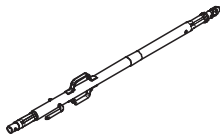


Note
Permissible load see PERI Design Tables.

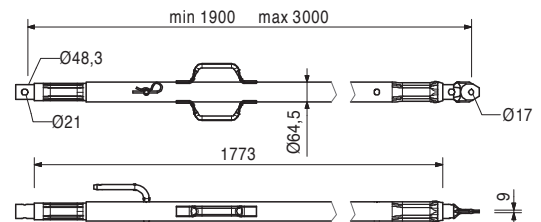


117467	15.500
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Push-Pull Prop RS 300, galv.
Extension length $l = 1.90 - 3.00$ m.
For aligning PERI formwork systems and precast concrete elements.



Note
Permissible load see PERI Design Tables.



LICO Column Formwork



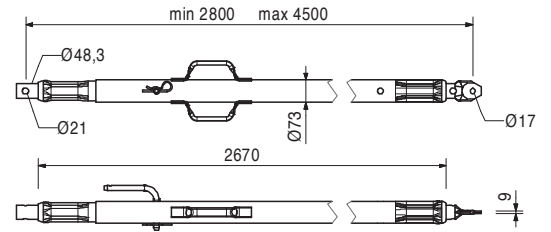
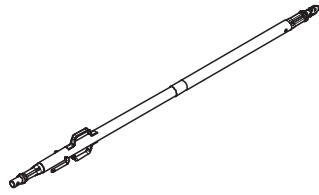
Item no.	Weight kg
117468	23.000

Push-Pull Prop RS 450, galv.

Extension length $l = 2.80 - 4.50$ m.
For aligning PERI formwork systems and precast concrete elements.

Note

Permissible load see PERI Design Tables.



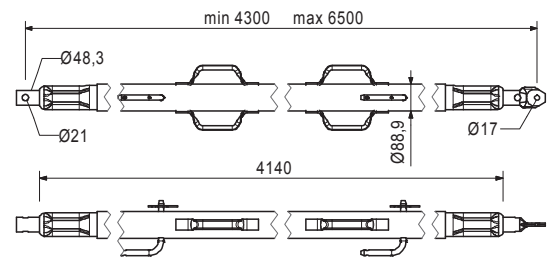
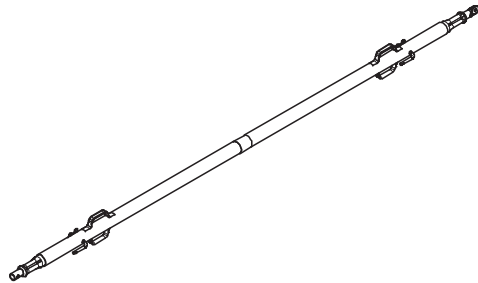
117469	40.000
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Push-Pull Prop RS 650, galv.

Extension length $l = 4.30 - 6.50$ m.
For aligning PERI formwork systems and precast concrete elements.

Note

Permissible load see PERI Design Tables.



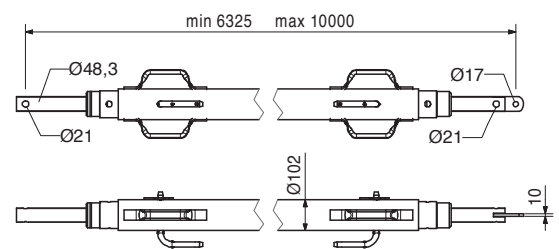
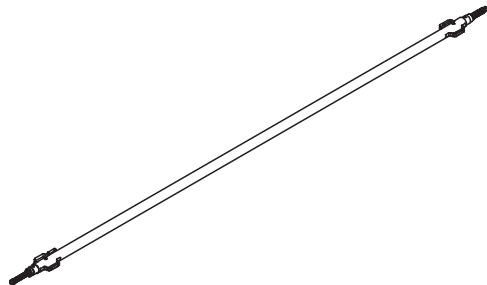
028990	115.000
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Push-Pull Prop RS 1000, galv.

Extension length $l = 6.40 - 10.00$ m.
For aligning PERI formwork systems.

Note

Permissible load see PERI Design Tables.



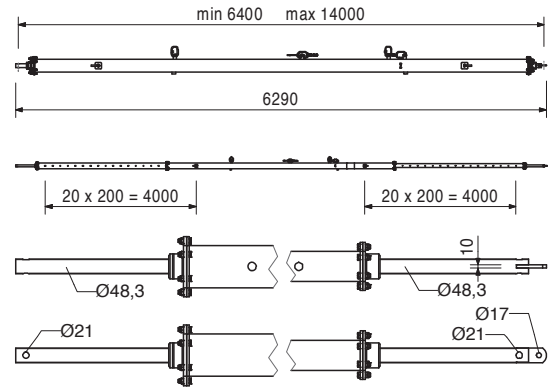
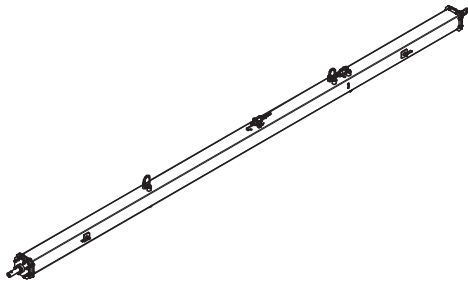
Item no.	Weight kg
103800	271.000

Push-Pull Prop RS 1400, galv.

Extension length $l = 6.40 - 14.00$ m.
For aligning PERI formwork systems.

Note

Permissible load see PERI Design Tables.
Chain can be operated from bottom.



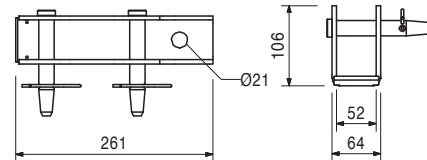
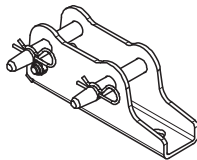
117343	3.250
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Base Plate-2 for RS 210 - 1400, galv.

For assembly of Push-Pull Props RS 210, 260, 300, 450, 650, 1000 and 1400.

Complete with

2 pc. 105400 Pin $\varnothing 20 \times 140$, galv.
2 pc. 018060 Cotter Pin 4/1, galv.



124777	0.210
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Accessories

Anchor Bolt PERI 14/20 x 130

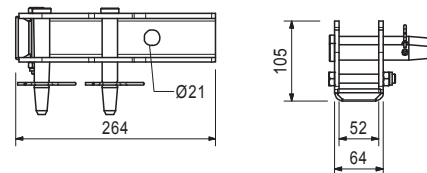
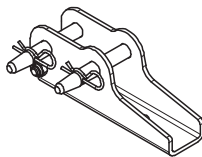
126666	3.070
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Base Plate-3 for RS 210 - 1400

For assembly of Push-Pull Props RS 210, 260, 300, 450, 650, 1000 and 1400.

Complete with

2 pc. 105400 Pin $\varnothing 20 \times 140$, galv.
2 pc. 018060 Cotter Pin 4/1, galv.
1 pc. 113063 Bolt ISO 4014 M12 x 80-8.8, galv.
1 pc. 113064 Hex Nut ISO7042-M12-8-G, galv.



124777	0.210
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Accessories

Anchor Bolt PERI 14/20 x 130

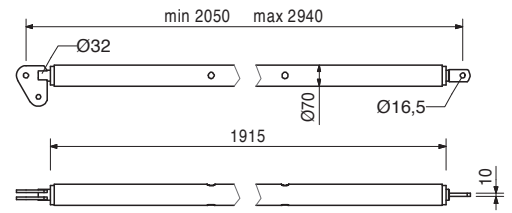
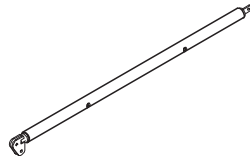
Item no.	Weight kg
028010	17.900

Push-Pull Prop RSS I

Extension length $l = 2.05 - 2.94$ m.
For aligning PERI formwork systems.

Note

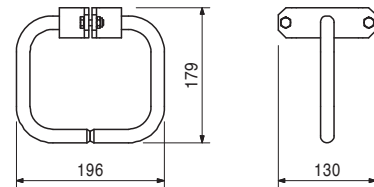
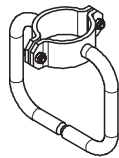
Permissible load see PERI Design Tables.



113397	1.600
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Spindle Handle RSS / AV

Spindle Handle for screwing on Push-Pull-Props RSS I, RSS II, RSS III and Kickers AV 210 and AV 190 complete with 2 bolts and nuts M8.



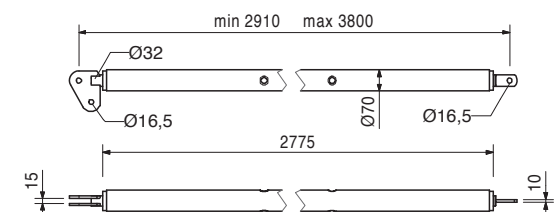
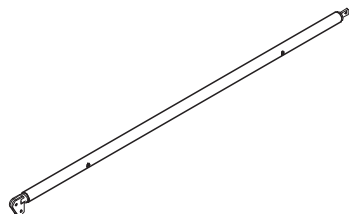
028020	22.000
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Push-Pull Prop RSS II

Extension length $l = 2.91 - 3.80$ m.
For aligning PERI formwork systems.

Note

Permissible load see PERI Design Tables.



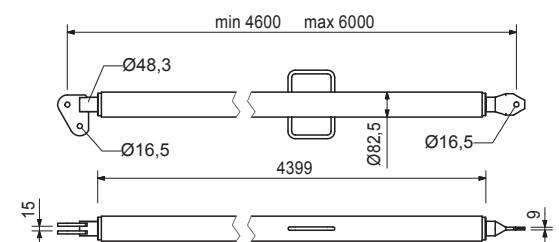
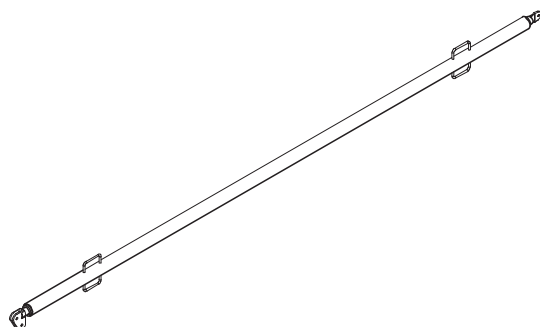
028030	38.400
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Push-Pull Prop RSS III

Extension length $l = 4.60 - 6.00$ m.
For aligning PERI formwork systems.

Note

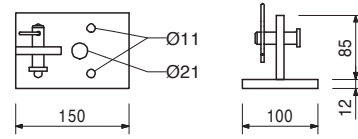
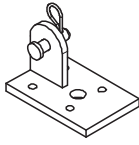
Permissible load see PERI Design Tables.



Item no.	Weight kg
106000	1.820

Base Plate-2 for RSS, galv.
For assembly of RSS Push-Pull Props.

Complete with
1 pc. 027170 Pin Ø 16 x 42, galv.
1 pc. 018060 Cotter Pin 4/1, galv.



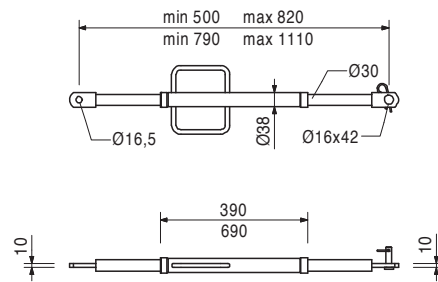
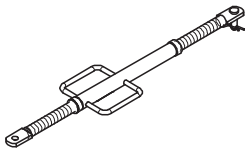
Accessories
Anchor Bolt PERI 14/20 x 130

124777	0.210
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Kickers AV
Kicker AV 82
Kicker AV 111
For aligning PERI formwork systems.

min. L	max. L
500	820
790	1110

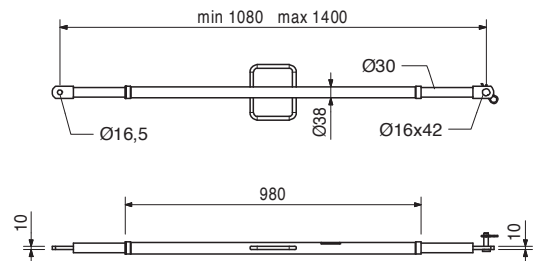
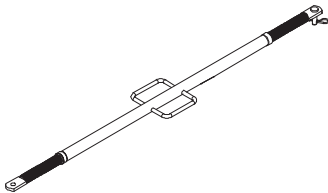
Complete with
1 pc. 027170 Pin Ø 16 x 42, galv.
1 pc. 018060 Cotter Pin 4/1, galv.
Note
Permissible load see PERI Design Tables.



028110	5.180
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Kicker AV 140
Extension length l = 1.08 – 1.40 m.
For aligning PERI formwork systems.

Complete with
1 pc. 027170 Pin Ø 16 x 42, galv.
1 pc. 018060 Cotter Pin 4/1, galv.
Note
Permissible load see PERI Design Tables.



Item no.	Weight kg
108135	12.900

Kicker AV 210

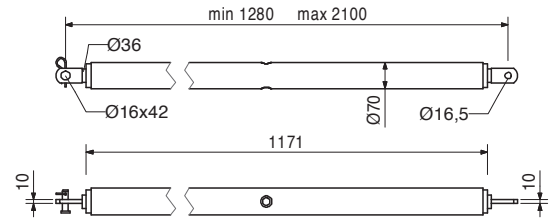
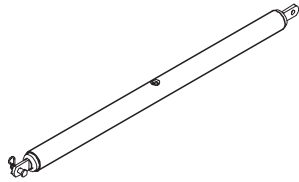
Extension length $l = 1.28 - 2.10$ m.
For aligning PERI formwork systems.

Complete with

1 pc. 027170 Pin $\varnothing 16 \times 42$, galv.
1 pc. 018060 Cotter Pin 4/1, galv.

Note

Permissible load see PERI Design Tables.



028120	17.000
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Kicker AV RSS III

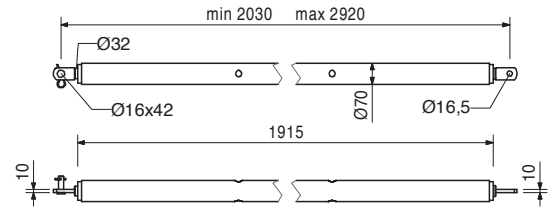
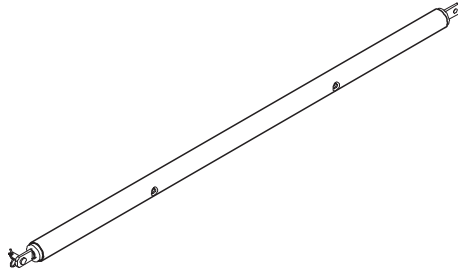
Extension length $l = 2.03 - 2.92$ m.
For aligning PERI formwork systems.

Complete with

1 pc. 027170 Pin $\varnothing 16 \times 42$, galv.
1 pc. 018060 Cotter Pin 4/1, galv.

Note

Permissible load see PERI Design Tables.



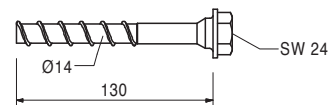
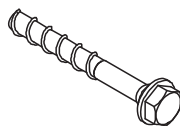
124777	0.210
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Anchor Bolt PERI 14/20 x 130

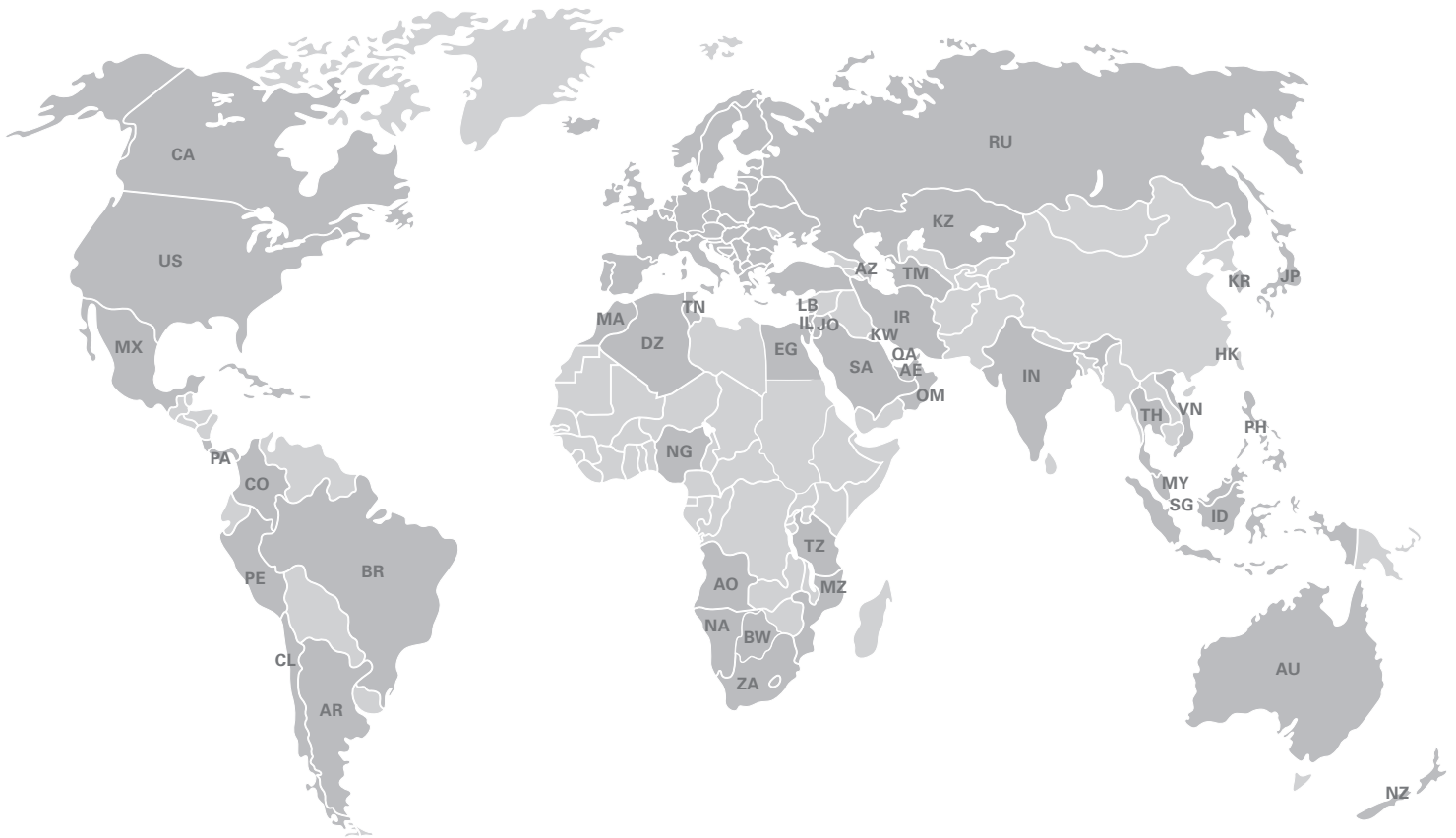
For temporary fixation to reinforced concrete structures.

Note

See PERI data sheet!
Drilling $\varnothing 14$ mm.



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