LIWA

The simple lightweight steel panel formwork with the cleverly-devised corner panel

Product Brochure – Issue 09/2016

Content

Edition 09 | 2016

Publisher

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Important notes

All current laws, guidelines and safety regulations must be observed in those countries where our products are used.

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

In addition, computer graphics are used which are to be understood as system representations. For ensuring a better understanding, these and the detailed illustrations shown have been partially reduced to show certain aspects. The safety installations which have possibly not been shown in these detailed descriptions must nevertheless be available. The systems or items shown might not be available in every country.

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

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

LIWA

The simple lightweight steel panel formwork with the cleverly-devised corner panel

LIWA is the lightest PERI steel panel formwork and deliberately dispensed with more elaborate equipment features in favour of lower investment costs. LIWA has only a minimum of different panel elements. In addition, the perforated strip allows each panel to be used as a multi-purpose panel. This means that corners and columns can also be formed without requiring any special panels. LIWA is a market-oriented solution if, for example, users are working with system formwork for the first time.

LIWA's standard configuration is used for wall thicknesses from 15 cm to 40 cm. The system is designed for a fresh concrete pressure of 50 kN/m² according to DIN 18218 (evenness: line 6 in accordance with DIN 18202). The perforated strip with all standard panels increases the system's range of applications as, through this, the panels can also be used, among other things, for beams, foundations and columns. This simultaneously optimizes work preparation and storage of materials.

Through the construction with a flat steel frame, LIWA has a very small overall height of 10 cm. Among other things, this has a positive effect regarding transport volumes.

For panel connections, there are different system components available. The easy to handle Wedge Clamp is used for standard panel connections whilst the Wedge Clamp Compensation allows compensations up to 5 cm thick. For higher requirements, the LRS Alignment Coupler ensures flush and even connections.

Very few different components

Only 4 panel widths, and each standard panel is simultaneously a multi-purpose panel

Simple design

With powder-coated flat steel frames, a minimum of formwork guidelines and simple connecting means

Can also be used without a crane

Can be installed by hand – also the 75 Panel

Cleverly-devised system for corners, wall connections and T-junctions

Geometrical adjustments with very few components

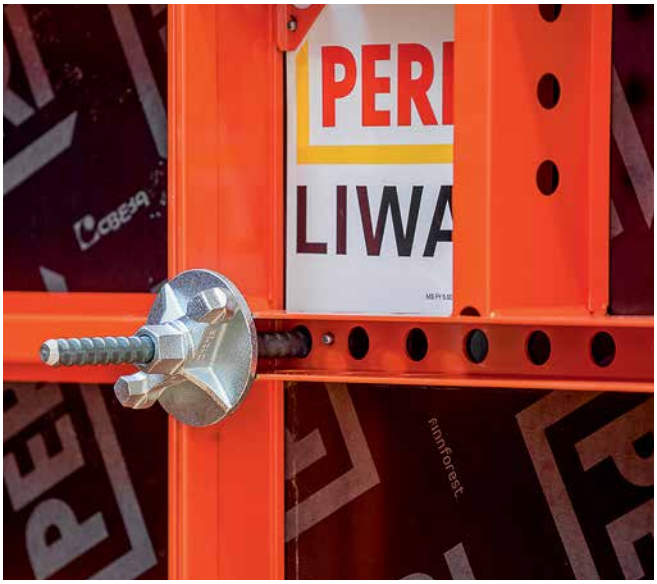
Very few different components

Each standard panel is simultaneously a multi-purpose panel

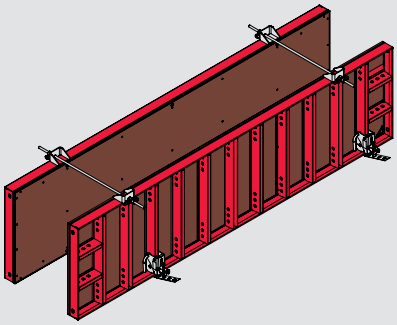
All LIWA panels are fitted with an end-to-end perforated strip. As a result, each panel can also be used for columns as well as corner panels. Thus, the LIWA system contains a very small number of panelised components.

Fewer system components means not only less investment costs. Rather, a smaller number of individual components in day-to-day activities brings numerous advantages. Then, from work preparation and logistics through to handling on the construction site, workloads are reduced thus saving on costs.

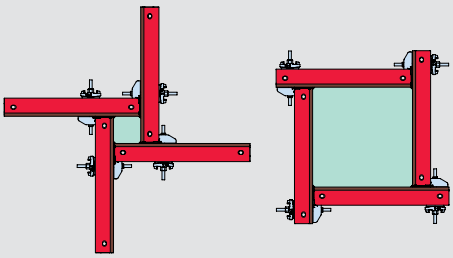
With LIWA, each anchor strut has an end-to-end perforated strip with 5 cm spacings between the anchor holes. Each standard panel can therefore also be used for foundations, parapets, beams and columns. A Multi Panel with a 75 cm width complements the range of LIWA panelized elements.



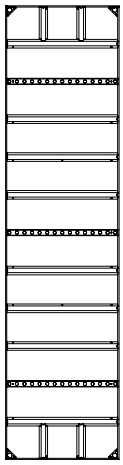
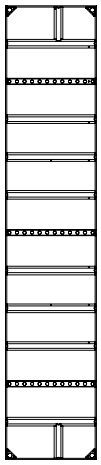
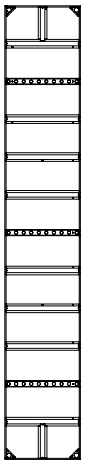
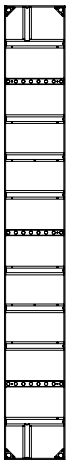
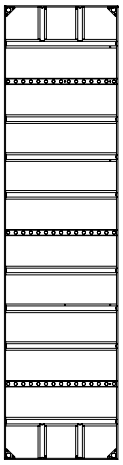
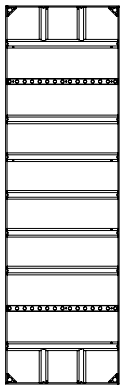
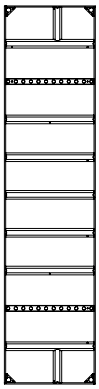
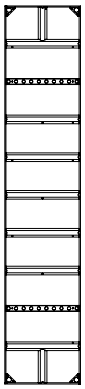
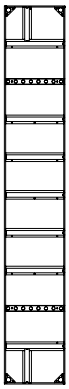
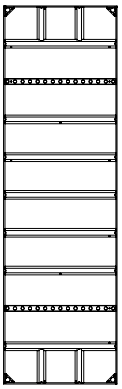
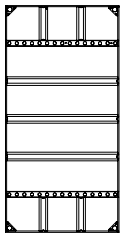
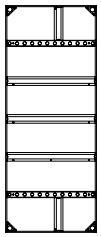
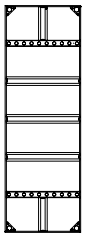
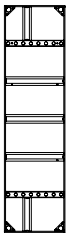
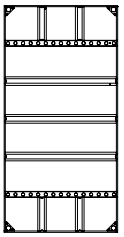
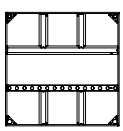
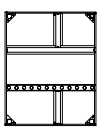
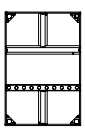
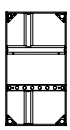
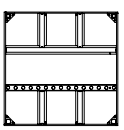
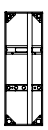
LIWA panels can also be used horizontally for the construction of foundations. Instead of a bottom row of ties, the Foundation Tie Clamp and Perforated Foundation Tie are used. At the top, panels are held in position with the top tie bracket and tie rod. The Brace Connector-2 can be mounted on the horizontally-positioned panels.



With the Multi Panel LWM 75, column cross-sections from 15 cm up to 55 cm can be formed in 5 cm increments. The panels are assembled by means of corner connectors.



An overview of the LIWA range of panels shows the reduced number of individual panels: with only four panel widths and one multi-purpose panel, LIWA provides the appropriate programme for standard heights up to 3.00 m. The standard configuration provides extensions up to 3.85 m using horizontal panels. The corner panel can be used very flexibly in straight wall sections, internal corners and T-junctions.

Height [cm]	Width [cm] 75	60	50	40	LWM 75	Corner 25
300						
250						
150						
75						

Simple design

With powder-coated flat steel frames, a minimum of formwork guidelines and simple connecting means

LIWA deliberately dispenses with elaborate designs and equipment in favour of cost-effectiveness – however, not at the expense of application diversity or quality.

With a small range of different panels, fewer formwork guidelines and easy to mount couplers, LIWA is very simple to plan and use. Apart from the panels and corner panels, any additional components are kept to an absolute minimum. This simplifies work preparation as well as numerous other work procedures on the jobsite.

As a result, LIWA is suitable, among other things, for those users who are working with steel system formwork for the first time.

The details clearly show the uncomplicated design of the components: the narrow flat steel frame is connected using a simple Wedge Clamp.

The simply designed Brace Connector can be mounted to vertical LIWA panels. For aligning horizontally-positioned panels, e.g. with foundations, the Brace Connector-2 is used.

Can also be used without a crane

Can be installed by hand – also the 75 Panel

Due to the construction using a flat steel frame, the weight of the LIWA panels is substantially lower than with other standard panel formwork with welded hollow profiles. Therefore, LIWA can be erected by hand.

If there is no crane capacity on the jobsite or crane operation times have to be reduced, LIWA can also be installed manually. For lifting the formwork, the LIWA Lifting Pin is used which is simply attached to the connection holes on the panels.

The Lifting Pin can also be used to perfectly align the LIWA panels: it is simply mounted in the connection holes on the panels after which timbers are inserted.

Cleverly-devised system for corners, wall connections and T-junctions

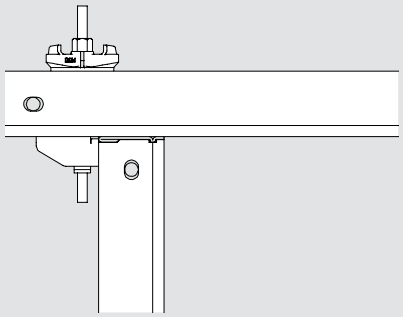
Geometrical adjustments with very few components

All required adjustments for right-angled and obtuse corners, T-junctions as well as obtuse wall connections can be realized with very few system components.

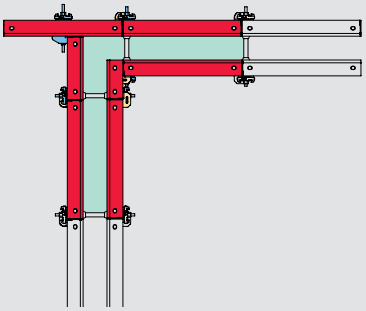
The ingenious corner panel with a width of 25 cm makes an important contribution for reducing the number of system components. The corner panel is used on internal formwork for 90° corners as well as T-junctions. Wall offsets can also be constructed with the corner panel without requiring any conventional solutions using timbers.

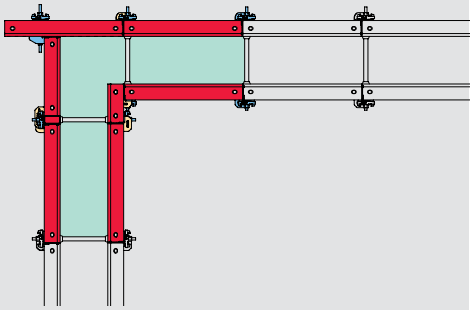
The Multi Panel is used as external formwork for realizing 90°corners and no special corner panels are required in this case.

With only a minimum of system components, all geometrical adjustment requirements such as right-angled and obtuse corners as well as T-junctions can be realized with LIWA.

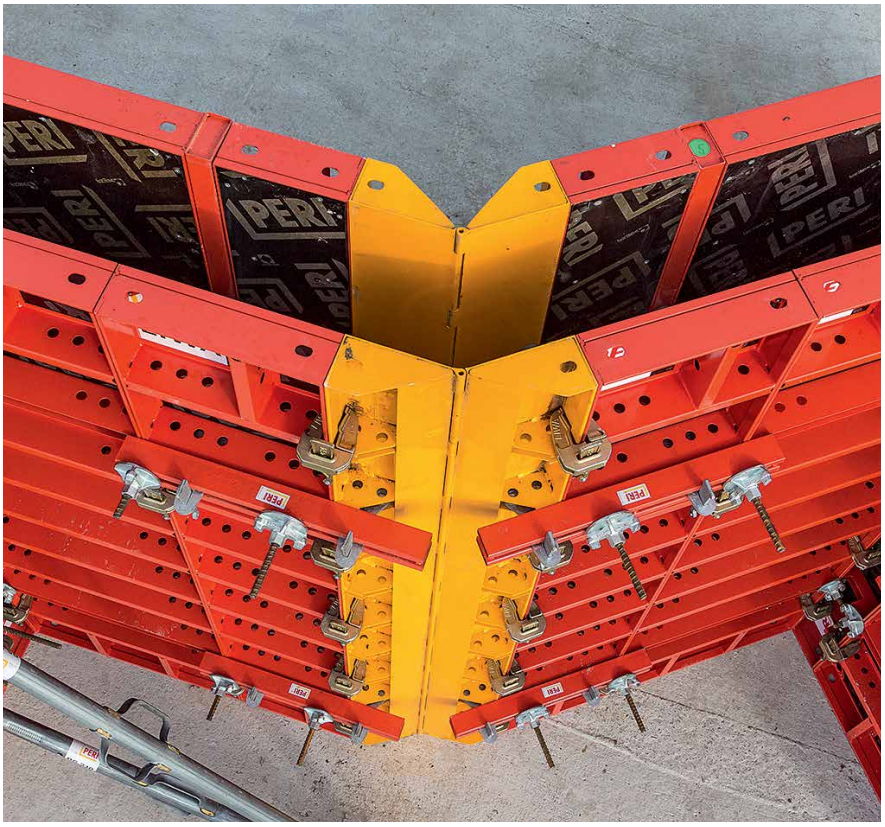


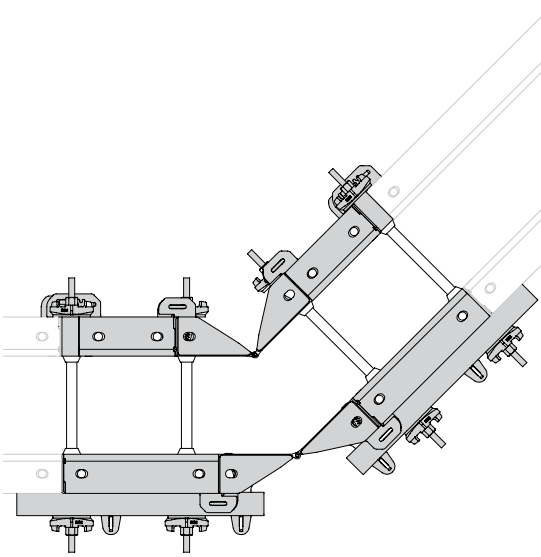
The corner connector is used for constructing external corners along with columns.



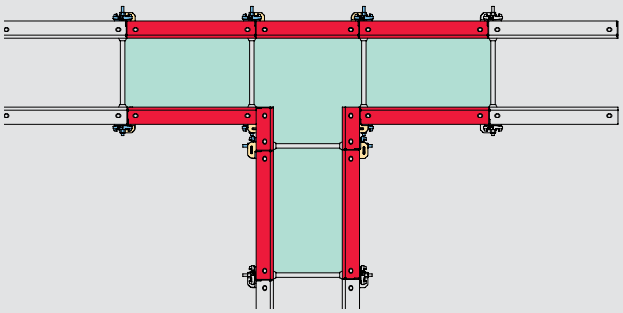


90° corners can be continuously executed for all wall thicknesses. In the process, the multi panel is always used externally whilst the LIWA Corner Panel with a width of 25 cm is utilized internally.

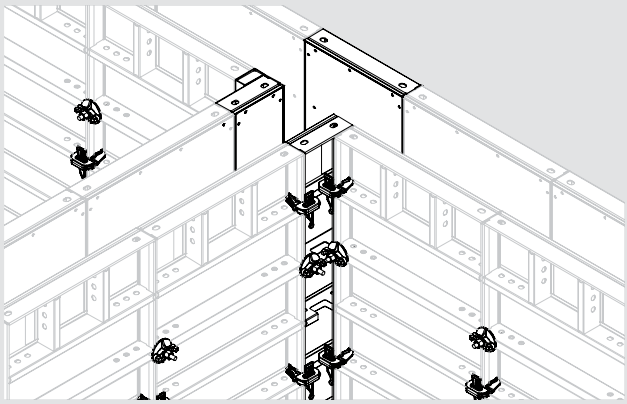




With the LIWA Articulated Corner, obtuse corners from 75° to 165° are formed; thereby compensation walers are to be mounted on the external corners.

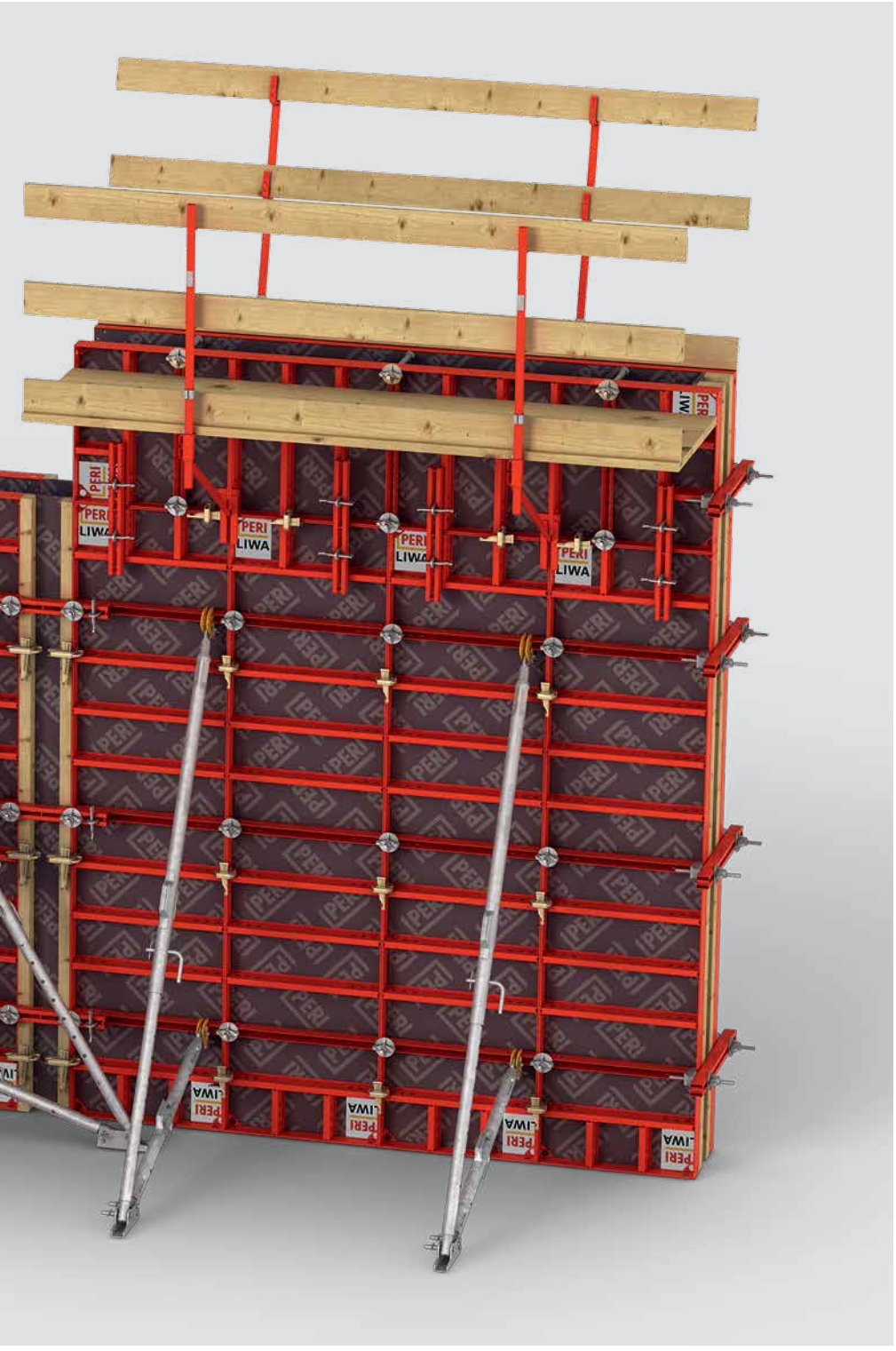


T-junctions can also be continuously formed. For this, the corner panel is used internally and, if required, a compensation waler.



LIWA at a glance

Standard applications and execution details



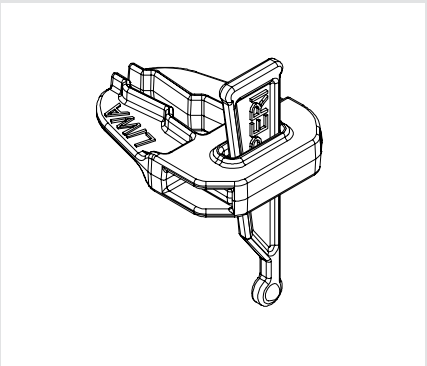
The special features of the lightweight LIWA Steel Panel Formwork are the very simple application and low weight. At the same time, the system provides solutions for all panel connections whilst requiring only a minimum of additional components, necessary geometrical adjustments as well as regarding the safety of the user. The following pages feature standard applications and execution details.

Standard applications and execution details

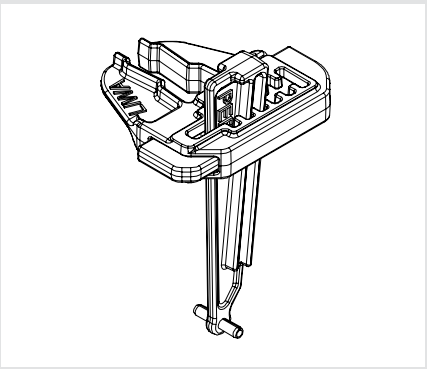
Panel connections, formwork alignment

Panel connections with LIWA couplers

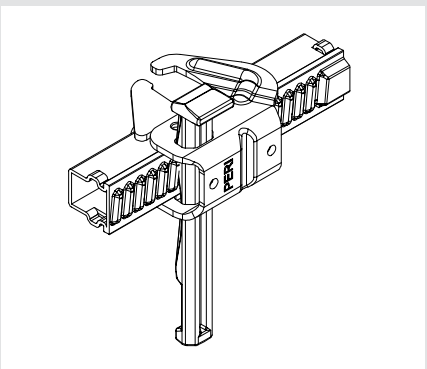
The lightweight and easy to handle LIWA Wedge Clamp is used on standard panel joints as well as for internal corners. For heights of 3.00 m, panels require only three wedge clamps whilst only 2 clamps are needed for panel heights of 2.50 m.



The Wedge Clamp Compensation LIWA is used for wall compensations up to 5 cm wide. Either timbers or the 5 cm wide Wall Thickness Compensation are used for the compensation area. In addition, the wedge clamp compensation can be used for standard panel joints.



For aligning LIWA panels, the LRS Alignment Coupler is used. It can be used for standard panel joints, extensions, and length compensations up to 5 cm. When the wedge is hammered in, the LIWA panels are flush and aligned as well as being pulled tightly together. Alternatively, the panels are perfectly aligned using the lifting pin and timbers, or with timbers and formwork girders.



Panel connections with compensation walers

For longitudinal compensations up to 25 cm as well as extensions, the Compensation Waler LWR 60 is used as a bracing, aligning and force-transmitting panel connection.

When using the articulated corner, the Compensation Waler LWR 60 takes on a bracing function on the adjoining LIWA panel.

The compensation waler for compensations up to 25 cm with timber infill and filler plate.

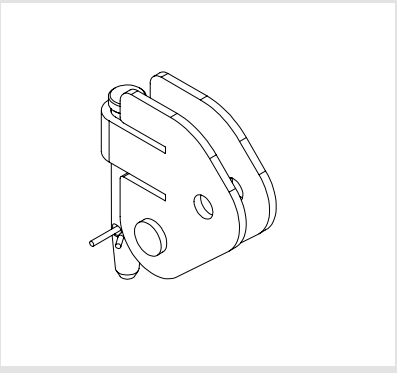
Extensions up to heights of 3.85 m are possible with horizontal LIWA panels. The compensation waler provides the required transfer of forces as well as bracing.

Aligning with push-pull props

In order to align the formwork and secure against wind loads, push-pull props with kickers are mounted. For fixing the push-pull props to vertical panels, a brace connector is available which is simply inserted into the anchor strut and secured with a bolts and cotter pins.

For use on horizontal panels with extensions as well as strip foundations, the Brace Connector-2 is available which can be attached to both the horizontal and vertical struts.

The simply designed LW Brace Connector for use on vertically-positioned panels can be attached to the anchor struts by means of bolts and cotter pins.



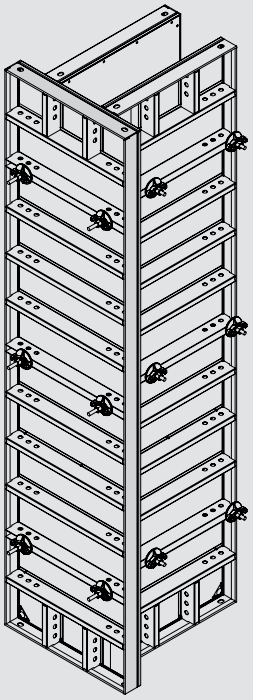
Standard applications and execution details

Stopend formwork, transport aids, working and concreting scaffolds

Stopend formwork

Stopend formwork can be continuously realized with timber, filler plates and the Walers LWR 80. Alternatively, the LIWA Multi Panel can be used.

The simple stopend formwork with timber and filler plates.



The LIWA Multi Panel can also be used for stopend formwork.

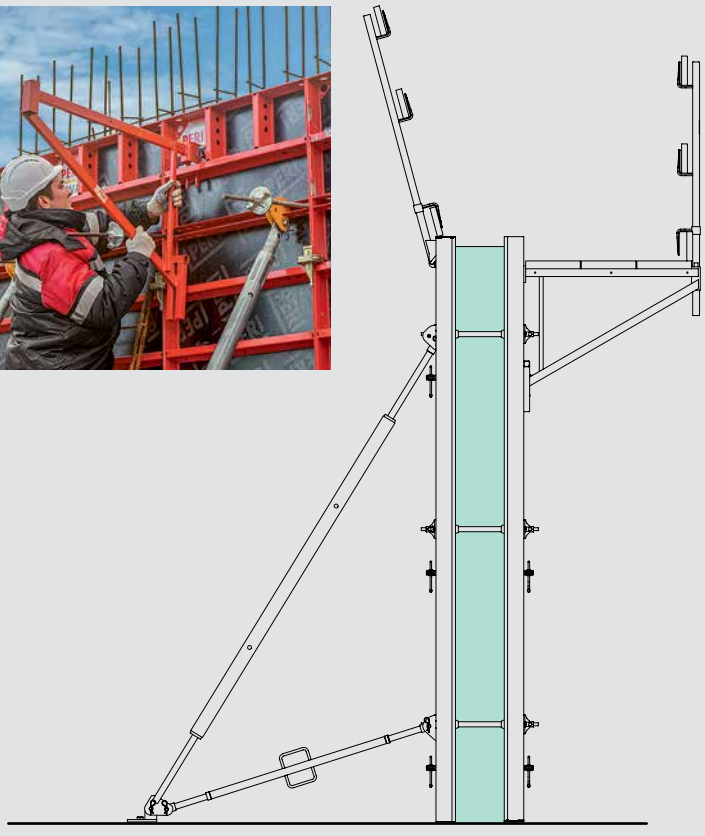
Transport aids

For lifting the LIWA panels without the use of a crane, an easy to use lifting pin is available. For moving the panels by crane, crane lifting gear with a load-bearing capacity of 300 kg is used.

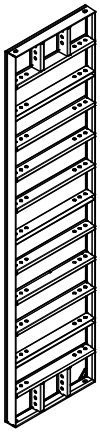
Working and concreting scaffolds

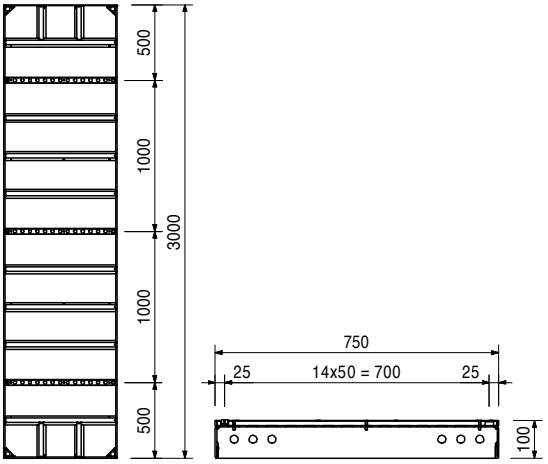
With scaffold brackets and Guardrail Posts HSGP-2, 80 cm wide working and concreting scaffolds can be mounted to the LIWA panels. In the process, the scaffold brackets can be attached to both the horizontal and vertical struts – can therefore also be used with extended panels.

For realizing the guardrails opposite, Guardrail Posts LIWA are used. These are slid over the profile and then secured by means of bolts and cotter pins.

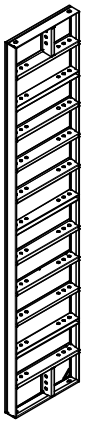


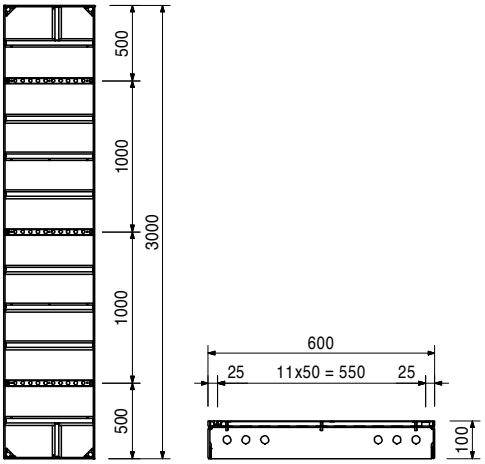
Item no.	Weight kg	
116878	77.900	**Panel LW 300 x 75** Panel with 12 mm plywood.



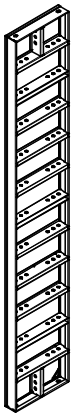


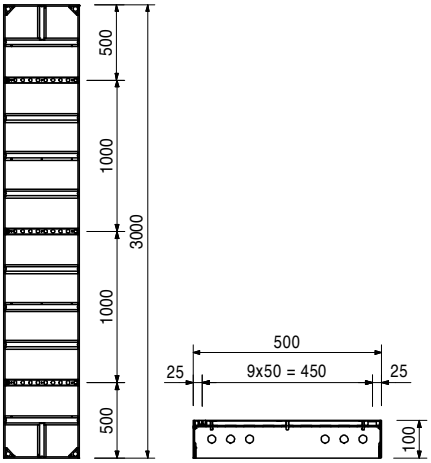
116906	66.400	**Panel LW 300 x 60** Panel with 12 mm plywood.



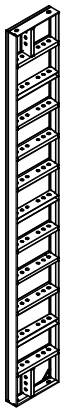


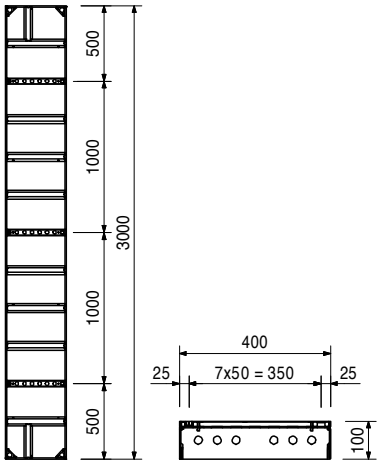
116916	59.400	**Panel LW 300 x 50** Panel with 12 mm plywood.



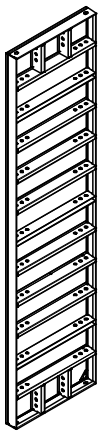


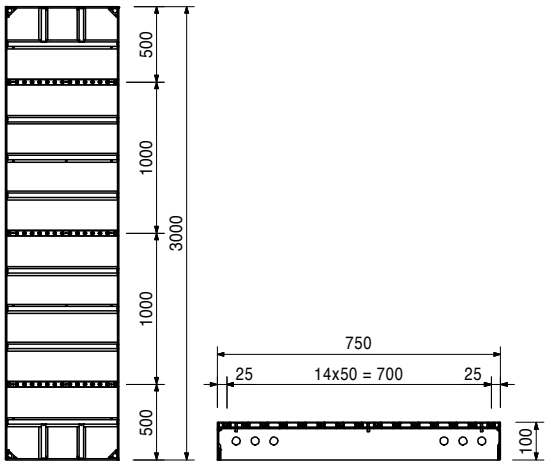
Item no.	Weight kg	
116923	52.500	**Panel LW 300 x 40** Panel with 12 mm plywood.



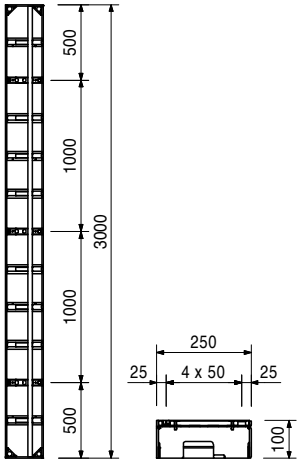


116984	77.900	**Multi Panel LWM 300 x 75** Panel with 12 mm plywood. For oblique angels, wall connections etc.

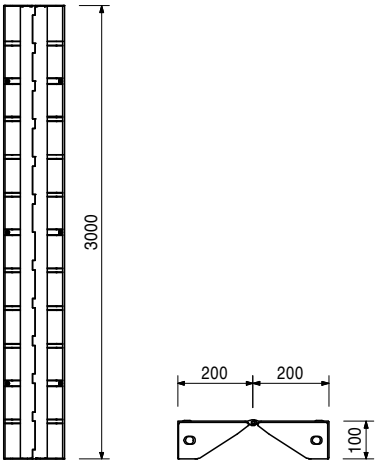




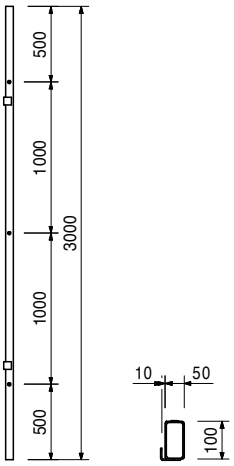
116930	45.200	**Corner Panel LW 300 x 25** For 90° internal corners.



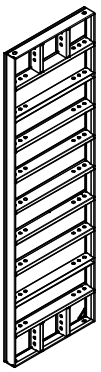
Item no.	Weight kg	
117209	34.700	**Articulated Corner LIWA 300** Alu panel with aluminium formlining. For oblique angles from 75°, can be used internally and externally.

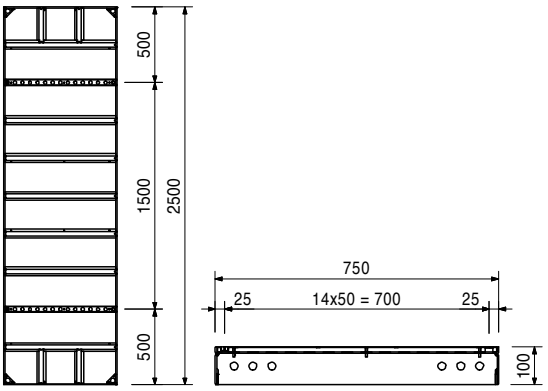


117364	13.900	**Wall Thickness Comp. LW 300 x 5** For adjusting to wall thicknesses.

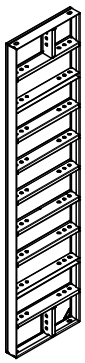


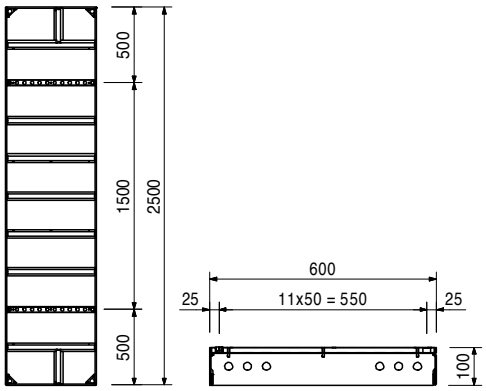
117717	65.400	**Panel LW 250 x 75** Panel with 12 mm plywood.



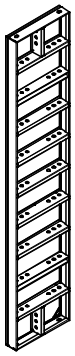


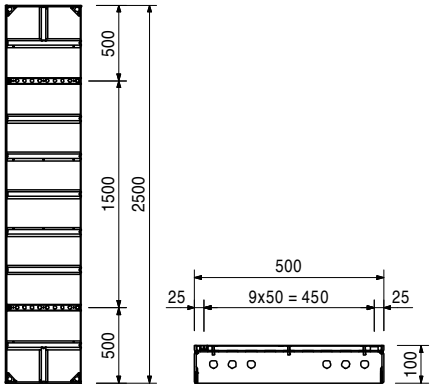
Item no.	Weight kg	
117721	55.500	**Panel LW 250 x 60** Panel with 12 mm plywood.



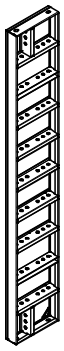


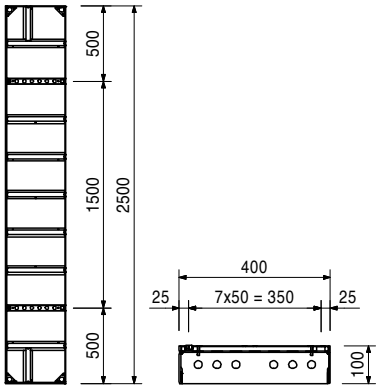
117725	49.700	**Panel LW 250 x 50** Panel with 12 mm plywood.



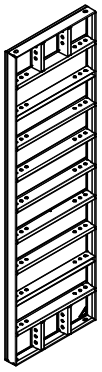


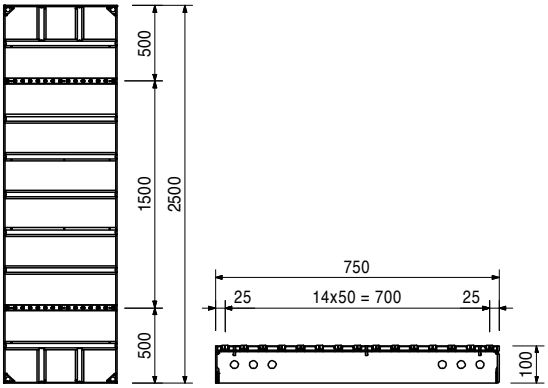
117730	43.900	**Panel LW 250 x 40** Panel with 12 mm plywood.



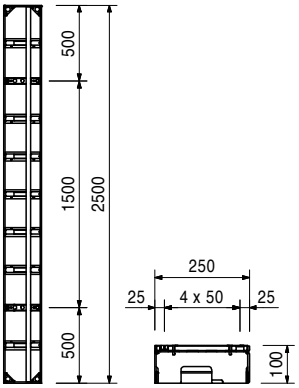


Item no.	Weight kg	
117738	65.200	**Multi Panel LWM 250 x 75** Panel with 12 mm plywood. For oblique angles, wall connections etc.

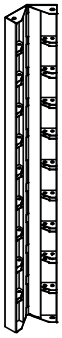


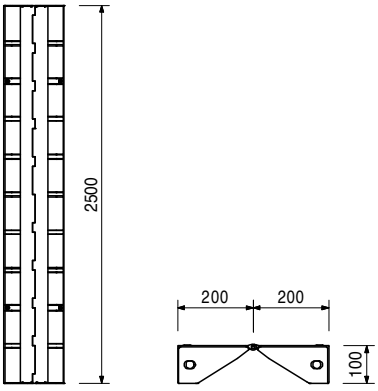


117736	37.800	**Corner Panel LW 250 x 25** For 90° internal corners.

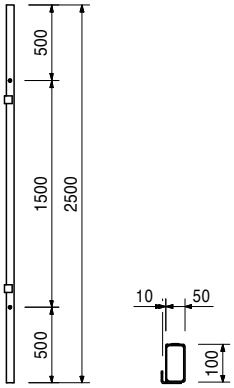


124006	29.100	**Articulated Corner LIWA 250** Alu panel with aluminium formlining. For oblique angles from 75°, can be used internally and externally.

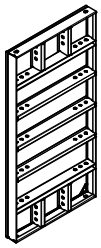


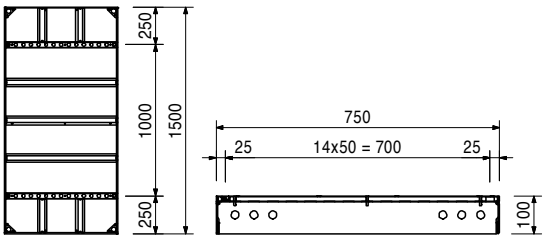


Item no.	Weight kg	
117746	11.600	**Wall Thickness Comp. LW 250 x 5** For adjusting to wall thicknesses.

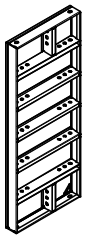


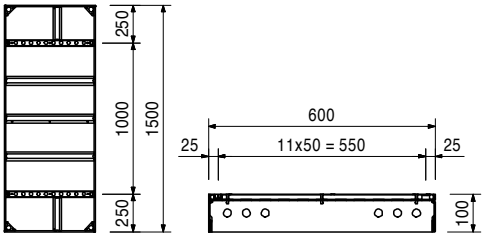
117013	42.900	**Panel LW 150 x 75** Panel with 12 mm plywood.



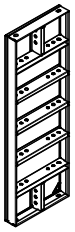


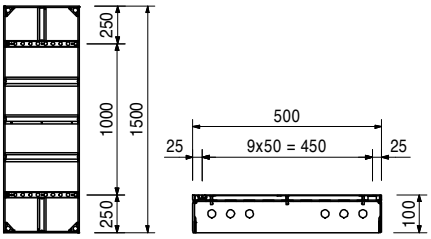
117024	36.000	**Panel LW 150 x 60** Panel with 12 mm plywood.



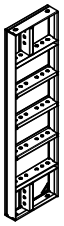


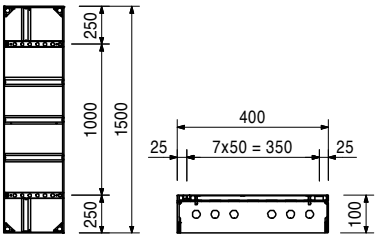
Item no.	Weight kg	
117107	32.100	**Panel LW 150 x 50** Panel with 12 mm plywood.



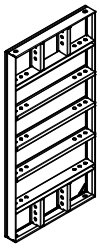


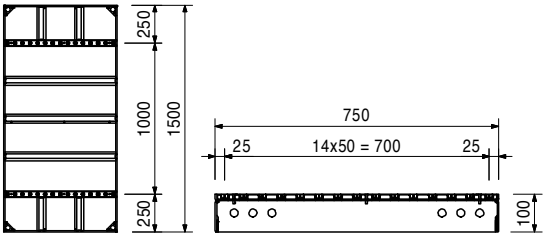
117111	28.300	**Panel LW 150 x 40** Panel with 12 mm plywood.



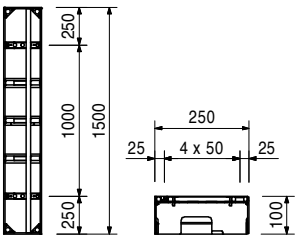


117029	42.900	**Multi Panel LWM 150 x 75** Panel with 12 mm plywood. For oblique angles, wall connections etc.

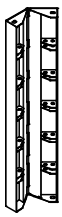


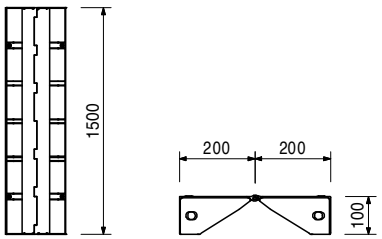


117510	23.600	**Corner Panel LW 150 x 25** For 90° internal corners.

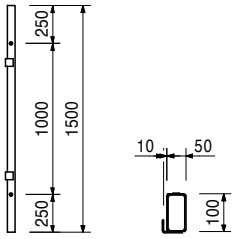


Item no.	Weight kg	
117275	17.500	**Articulated Corner LIWA 150** Alu panel with aluminium formlining. For oblique angles from 75°, can be used internally and externally.

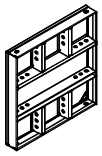


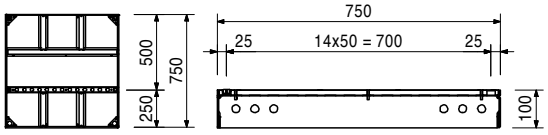


117367	7.140	**Wall Thickness Comp. LW 150 x 5** For adjusting to wall thicknesses.

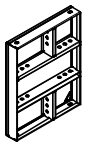


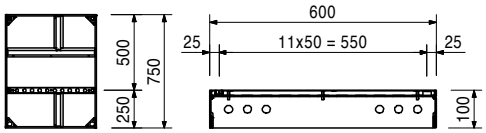
117125	24.800	**Panel LW 75 x 75** Panel with 12 mm plywood.



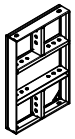


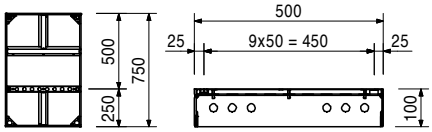
117136	20.300	**Panel LW 75 x 60** Panel with 12 mm plywood.



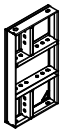


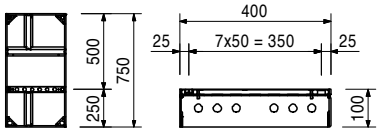
117140	18.100	**Panel LW 75 x 50** Panel with 12 mm plywood.



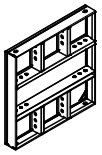


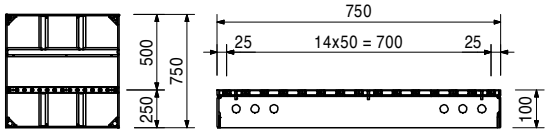
Item no.	Weight kg	
117144	15.900	**Panel LW 75 x 40** Panel with 12 mm plywood.



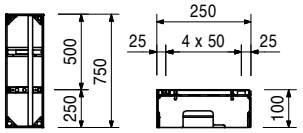


117146	24.700	**Multi Panel LWM 75 x 75** Panel with 12 mm plywood. For oblique angles, wall connections etc.

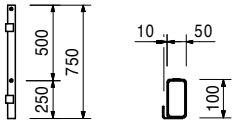




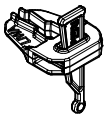
117541	12.600	**Corner Panel LW 75 x 25** For 90° internal corners.

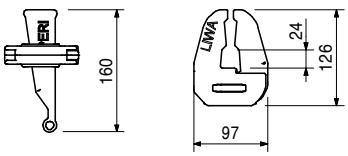


117370	3.760	**Wall Thickness Comp. LW 75 x 5** For adjusting to wall thicknesses.

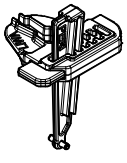


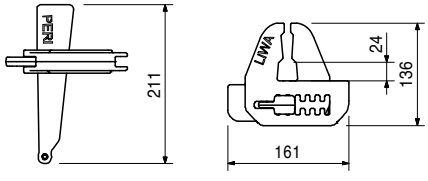
117573	1.120	**Wedge Clamp LIWA** For standard panel connections.



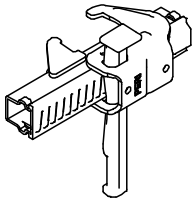


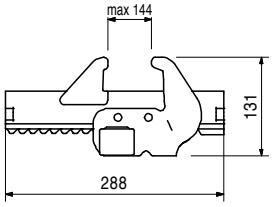
117677	2.000	**Wedge Clamp Compensation LIWA** For compensations up to 5 cm thickness.

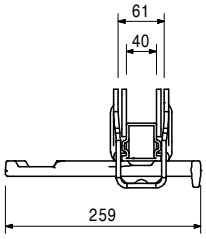




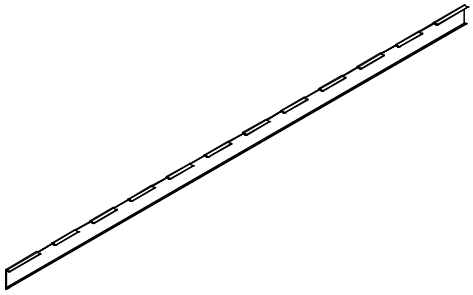
Item no.	Weight kg	
127460	3.920	**LIWA Alignment Coupler LRS** For compensations up to 5 cm theckness.

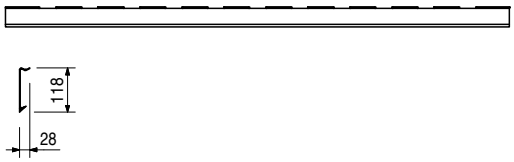




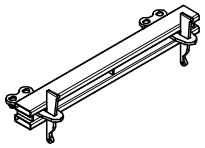


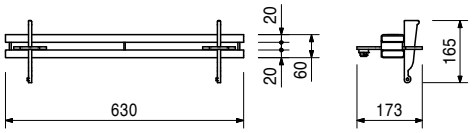
118612	1.160	**Chamfer Strip LIWA l = 3.00 m**



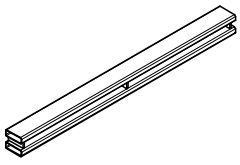


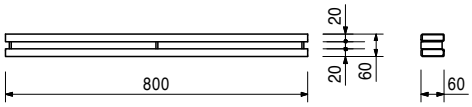
117320	4.880	**Compensation Waler LWR 60** For longitudinal compensation and stopends with LIWA. Maximum compensation width 25 cm.	**Technical Data** Permissible bending moment 1.38 kNm.



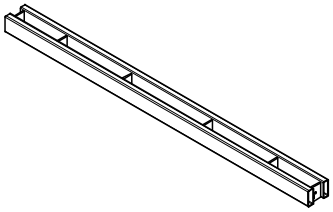


118380	3.810	**Waler LWR 80** For stopend formwork.	**Technical Data** Permissible bending moment 1.38 kNm.

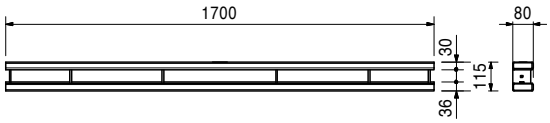




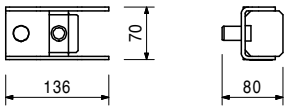
Item no.	Weight kg	
125473	18.400	**Waler 170** For bracing the formwork if you use the articulated corner ≤ 120°.



Technical Data
Permissible bending moment 3.9 kNm.

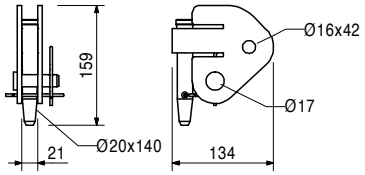


112080	1.130	**Corner Connector-2, LIWA** For external corners and columns.



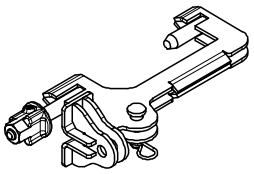
117169	1.520	**Brace Connector LIWA** For connecting push-pull props and kicker braces to LIWA Panels.

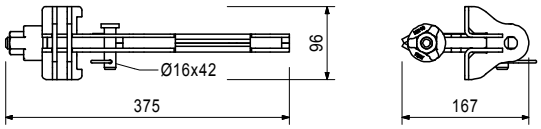
Complete with
1 pc. 027170 Pin Ø 16 x 42, galv.
1 pc. 105400 Pin Ø 20 x 140, galv.
2 pc. 018060 Cotter Pin 4/1, galv.



125329	3.050	**Brace Connector-2 LIWA** For connecting push-pull props and kicker braces to LIWA Panels. Mounted on vertical and horizontal struts.

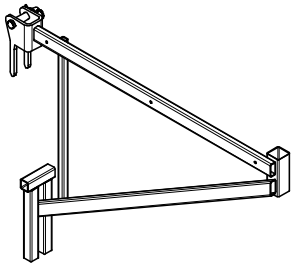
Complete with
1 pc. 027170 Pin Ø 16 x 42, galv.
1 pc. 018060 Cotter Pin 4/1, galv.

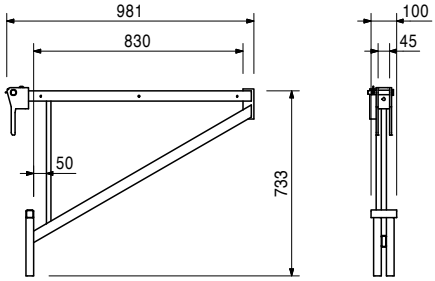




Item no.	Weight kg	
117354	6.470	**Scaffold Bracket LW 80** For assembly of a working and concreting scaffold with LIWA. Mounted on horizontal and vertical struts.

Technical Data
Permissible load 150 kg/m².
Maximum width of influence 1.50 m.

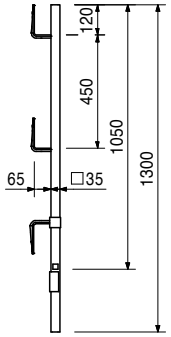




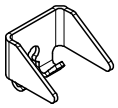
Accessories

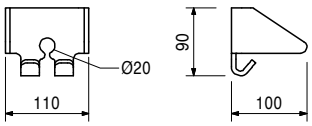
116292	4.720	**Guardrail Post HSGP-2**

116292	4.720	**Guardrail Post HSGP-2** As guardrail for different systems.

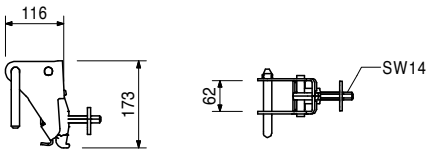


125448	0.774	**Tie Bracket LIWA** For grid-independent anchoring outside of the panel, especially for foundations.

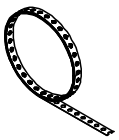


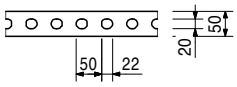


117231	2.230	**Foundation Tie Clamp LIWA** For anchoring foundation formwork in combination with the Perforated Foundation Tie.

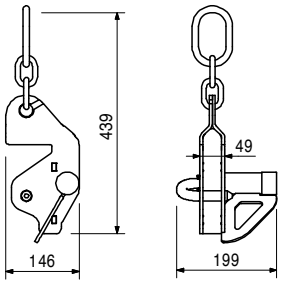


Item no.	Weight kg		
023020	0.676	**Perforated Foundation Tie, 25 m** For use with Foundation Tie Clamp TRIO, DOMINO, LIWA and HANDSET.	**Technical Data** Permissible tension force 12.9 kN.

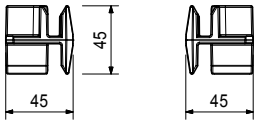




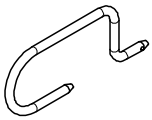
117747	5.230	**Crane Hook LIWA** For transporting LIWA panels.	**Note** Follow Instructions for Use! **Technical Data** Permissible load-bearing capacity 300 kg.

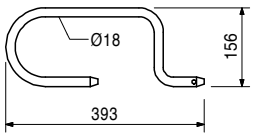


115560	0.029	**Stacking Aid LIWA**

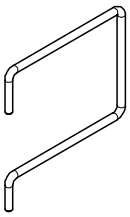


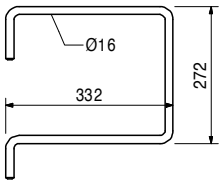
117931	1.460	**Lifting Pin LIWA** For vertical transportation of the elements or aligning the formwork with timbers up to 8 cm.



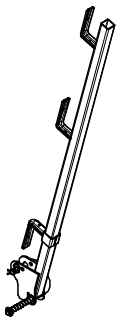


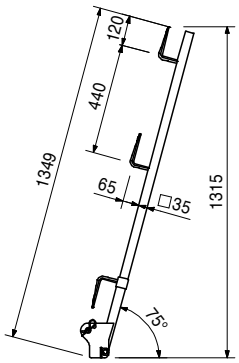
125229	1.630	**Timber Holder LIWA** For aligning LIWA panels with timbers or girders VT 20, GT 24.



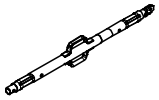


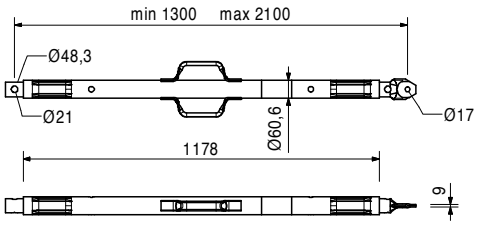
Item no.	Weight kg	
125100	5.160	**Guardrail Post LIWA** For assembling a guardrail on LIWA panels.



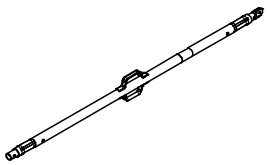


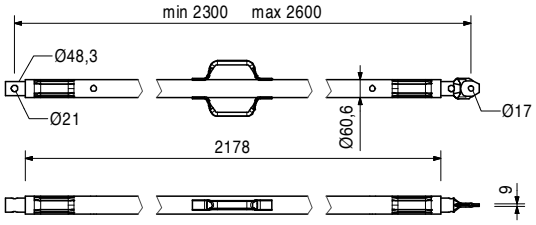
117466	10.600	**Push-Pull Prop RS 210, galv.** Extension length l = 1.30 – 2.10 m. For aligning PERI formwork systems and precast concrete elements.	**Note** Permissible load see PERI Design Tables.



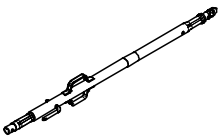


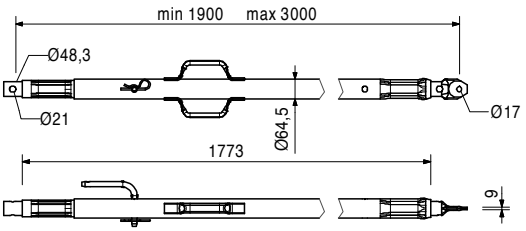
118238	12.100	**Push-Pull Prop RS 260, galv.** Extension length l = 2.30 – 2.60 m. For aligning PERI formwork systems and precast concrete elements.	**Note** Permissible load see PERI Design Tables.



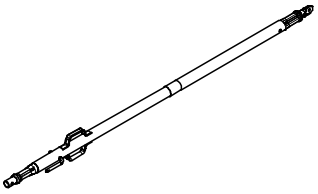


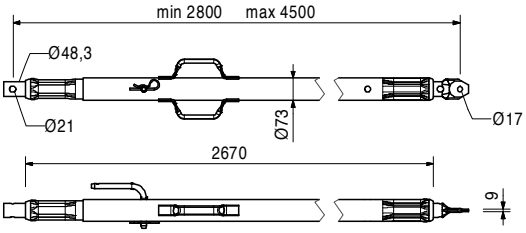
Item no.	Weight kg		
117467	15.500	**Push-Pull Prop RS 300, galv.** Extension length l = 1.90 – 3.00 m. For aligning PERI formwork systems and precast concrete elements.	**Note** Permissible load see PERI Design Tables.



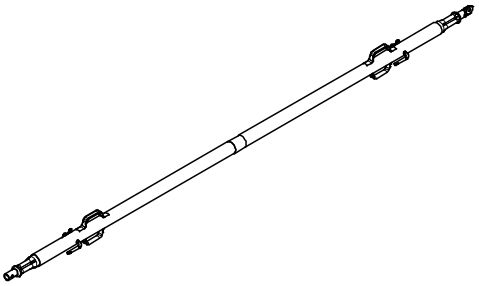


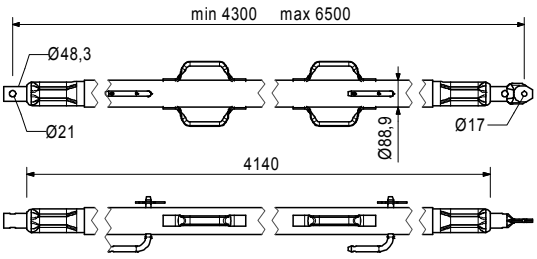
117468	23.000	**Push-Pull Prop RS 450, galv.** Extension length l = 2.80 – 4.50 m. For aligning PERI formwork systems and precast concrete elements.	**Note** Permissible load see PERI Design Tables.



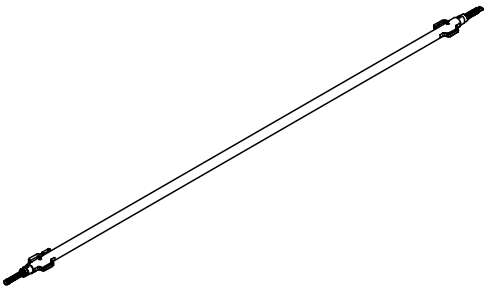


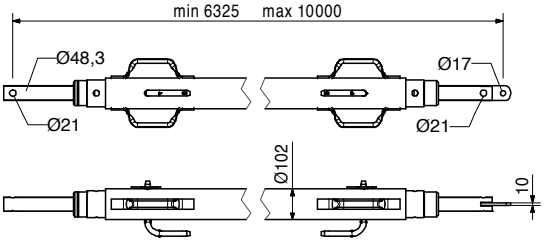
117469	39.900	**Push-Pull Prop RS 650, galv.** Extension length l = 4.30 – 6.50 m. For aligning PERI formwork systems and precast concrete elements.	**Note** Permissible load see PERI Design Tables.



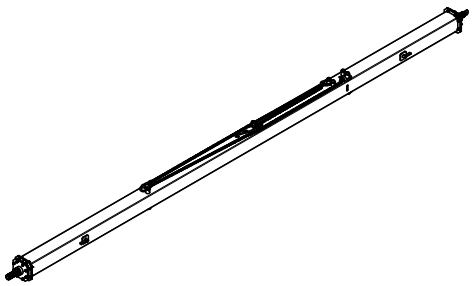


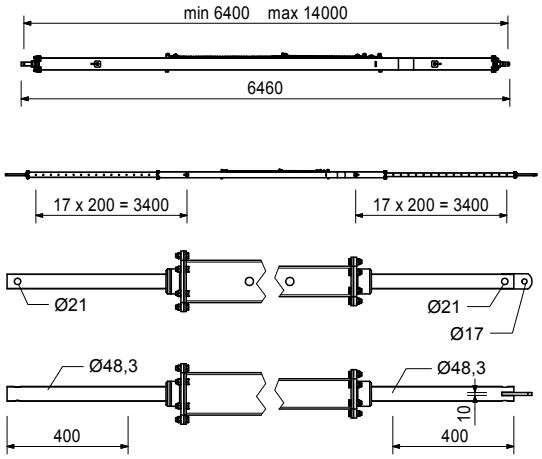
028990	115.000	**Push-Pull Prop RS 1000, galv.** Extension length l = 6.40 – 10.00 m. For aligning PERI formwork systems.	**Note** Permissible load see PERI Design Tables.



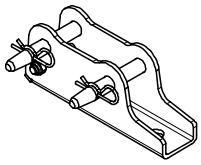


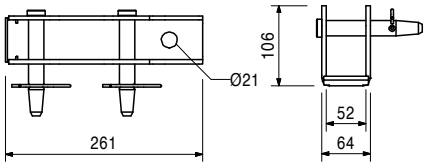
Item no.	Weight kg		
103800	271.000	**Push-Pull Prop RS 1400, galv.** Extension length l = 6.40 – 14.00 m. For aligning PERI formwork systems.	**Note** Permissible load see PERI Design Tables. Chain can be operated from bottom.





117343	3.250	**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 Ø 20 x 140, galv. 2 pc. 018060 Cotter Pin 4/1, galv.

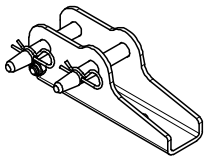


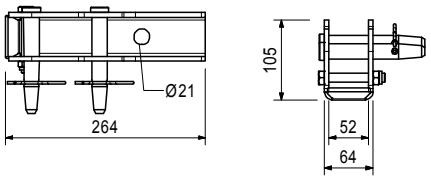


Accessories

124777	0.210	**Anchor Bolt PERI 14/20 x 130**

126666	3.070	**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 Ø 20 x 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.

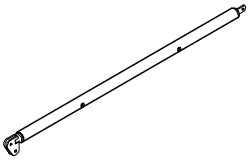


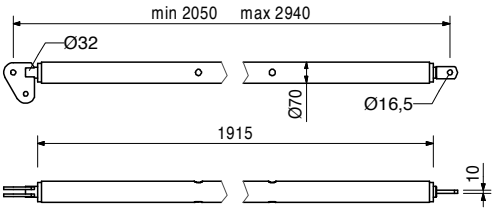


Accessories

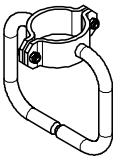
124777	0.210	**Anchor Bolt PERI 14/20 x 130**

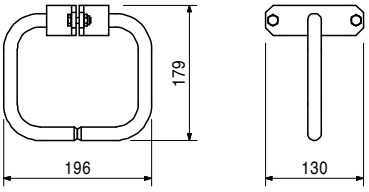
Item no.	Weight kg		
028010	17.900	**Push-Pull Prop RSS I** Extension length l = 2.05 – 2.94 m. For aligning PERI formwork systems.	**Note** Permissible load see PERI Design Tables.



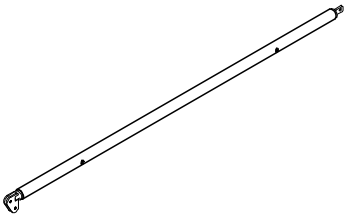


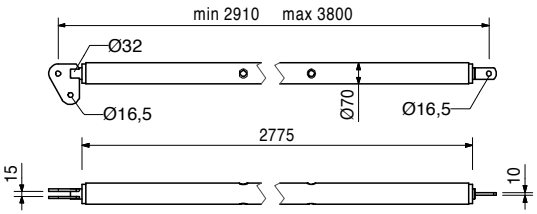
113397	1.600	**Spindle Handle RSS / AV** Spindle handle for screwing on Push-Pull-Props RSS I, RSS II and Kickers AV 210 and AV RSS III.	**Complete with** 2 pc. 722342 Screw ISO 4017 M8 x 25-8.8, galv. 2 pc. 711071 Nut ISO 7042 M8-8, galv.





028020	22.000	**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.

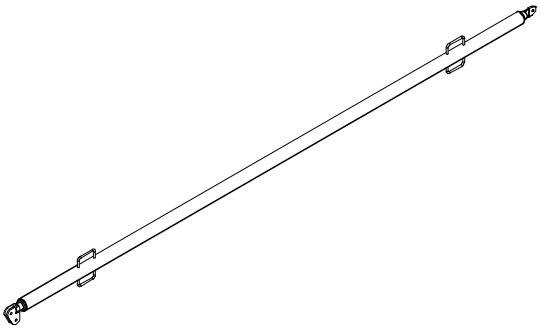


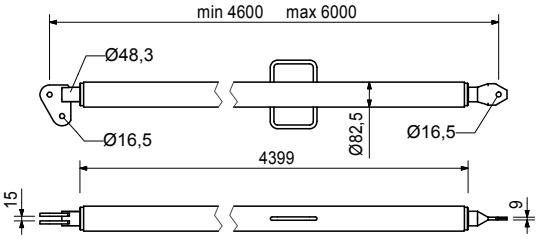


Accessories

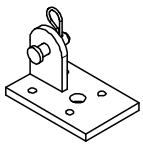
113397	1.600	**Spindle Handle RSS / AV**

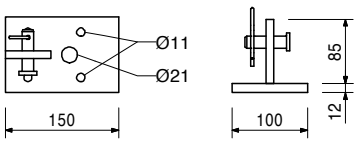
028030	38.400	**Push-Pull Prop RSS III** Extension length l = 4.60 – 6.00 m. For aligning PERI formwork systems.	**Note** Permissible load see PERI Design Tables.





Item no.	Weight kg		
106000	1.820	**Base Plate-2 for RSS, galv.** For assembly of Push-Pull Props RSS.	**Complete with** 1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv.

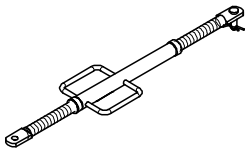


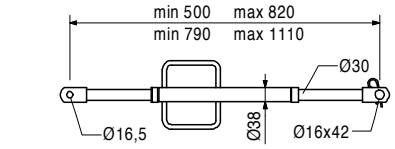


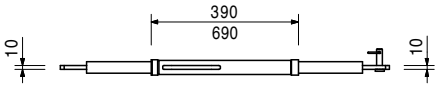
Accessories

124777	0.210	**Anchor Bolt PERI 14/20 x 130**

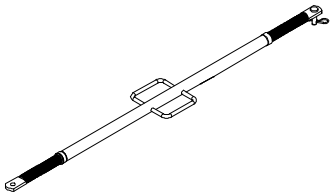
		Kickers AV	**min. L** **max. L**
057087	3.720	**Kicker AV 82**	500 820
057088	4.410	**Kicker AV 111**	790 1110
		For aligning PERI formwork systems.	**Complete with** 1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv. **Note** Permissible load see PERI Design Tables.

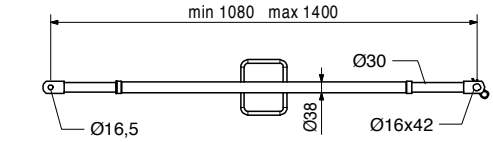


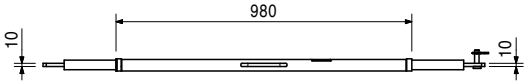




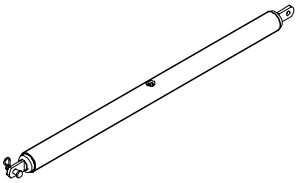
028110	5.180	**Kicker AV 140** Extension length l = 1.08 – 1.40 m. For aligning PERI formwork systems.	**Complete with** 1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv. **Note** Permissible load see PERI Design Tables.

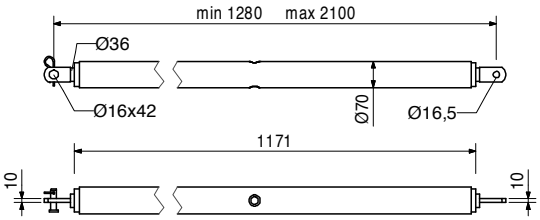






Item no.	Weight kg		
108135	12.900	**Kicker AV 210** Extension length l = 1.28 – 2.10 m. For aligning PERI formwork systems.	**Complete with** 1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv. **Note** Permissible load see PERI Design Tables.

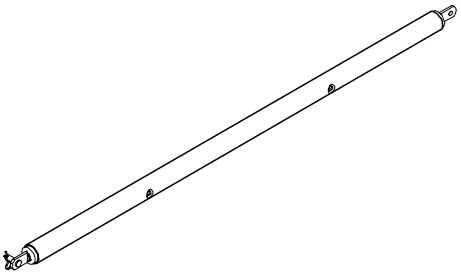


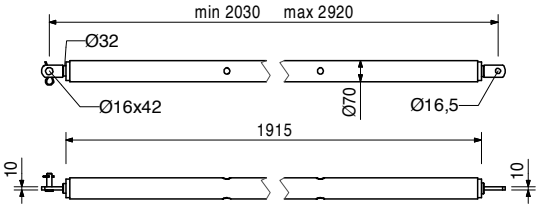


Accessories

113397	1.600	**Spindle Handle RSS / AV**

028120	17.000	**Kicker AV RSS III** Extension length l = 2.03 – 2.92 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.

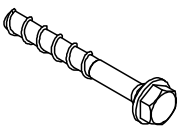


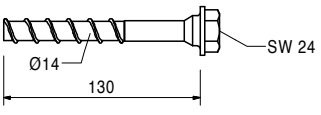


Accessories

113397	1.600	**Spindle Handle RSS / AV**

124777	0.210	**Anchor Bolt PERI 14/20 x 130** For temporary fixation to reinforced concrete structures.	**Note** See PERI data sheet! Drilling Ø 14 mm.





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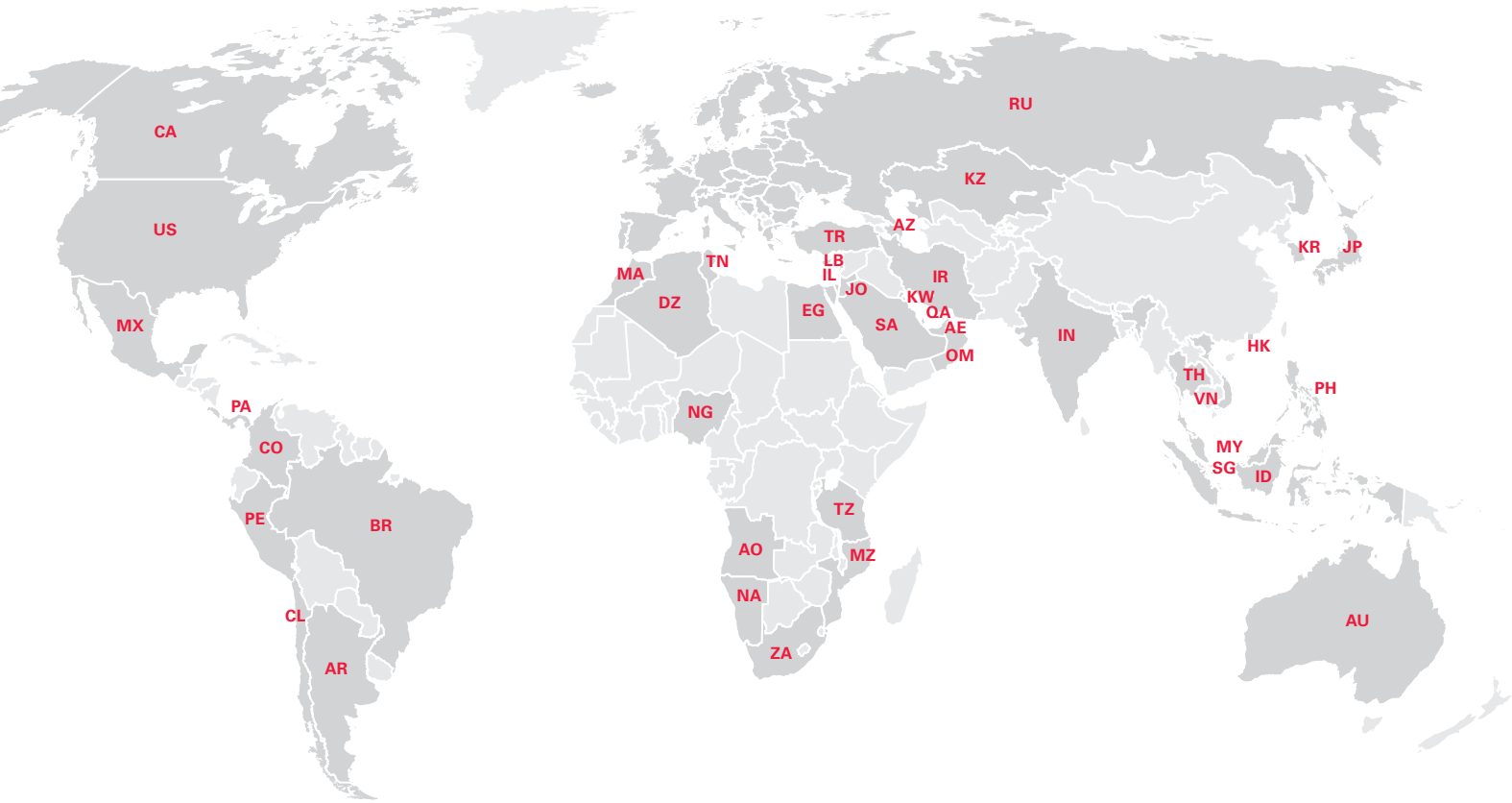

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