PEP Ergo Slab Props

High load-bearing capacity with low dead weight

Product Brochure – Edition 09/2017

Content

System advantages

4 High load-bearing capacity with low dead weight
6 Load-bearing capacity far beyond the norm
8 Quickly adjusted
10 Simple connections
11 Well-developed features for a long service life

Design tables

12 PEP Ergo B
PEP Ergo D
14 PEP Ergo E

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Components
16 PEP Ergo Components

Important information

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

The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered 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 still be available. The systems or items shown might not be available in every country.

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

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

PERI SKYDECK
PEP Ergo E 400
PERI

PEP Ergo Slab Props

High load-bearing capacity with low dead weight

PEP Ergo Props are mainly used for supporting slab formwork. Numerous practical features ensure fast and safe handling – this includes, for example, the Adjusting Nut indicating the direction or the ergonomic G-Hook which does not jam.

Galvanization guarantees a long service life. However, if a prop does get damaged during the tough everyday working operations on the jobsite, the inner and outer tubes can be replaced separately.

Load-bearing capacity far beyond the norm
Prop load up to 50 kN – with a comparatively low dead weight

Quickly adjusted
The 12 cm long adjustment range eliminates frequent re-positioning whilst the measuring scale on the inner tube accelerates length pre-adjustments

Simple connections
Prop heads can be attached to both the inner and outer tubes

Load-bearing capacity far beyond the norm

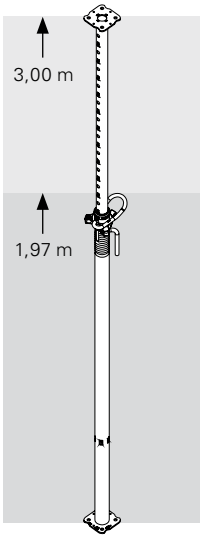
PERI PEP Ergo Props are characterized by a further increase in load-bearing capacity and numerous trend-setting detailed solutions with low dead weight.

The props have been developed in compliance with the Euro standard and approved by the DIBt (German Institute for Building Technology).

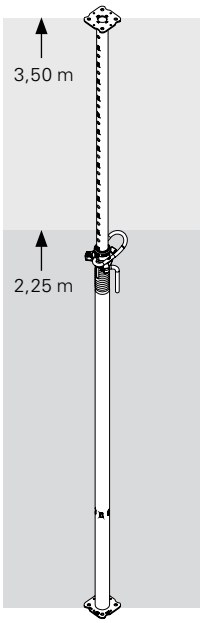
High load-bearing capacity = fewer props
The capacity factor – defined as the load-bearing capacity to prop weight ratio – can reach up to 70 % above the values of comparable slab props.

PERI PEP Ergo Props fully comply with Load Class B, D and E of EN 1065. The maximum load-bearing capacity is 50 kN.

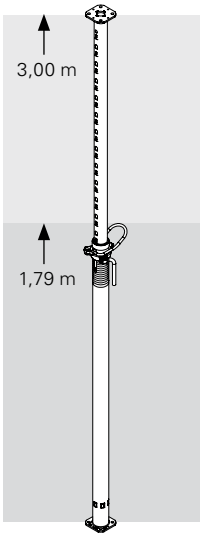
The PEP Ergo B-300 weighs only 13.9 kg and carries a maximum of 30 kN.



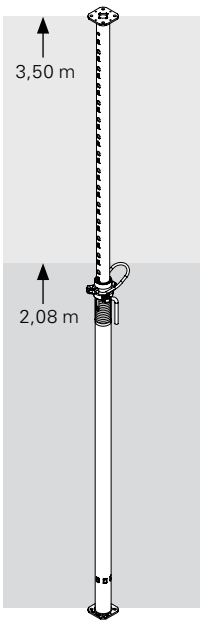
B-300
L = 1,97 – 3,00 m
Weight: 14.0 kg



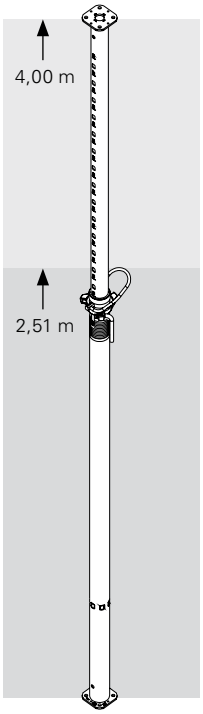
B-350
L = 2,25 – 3,50 m
Weight: 15.6 kg



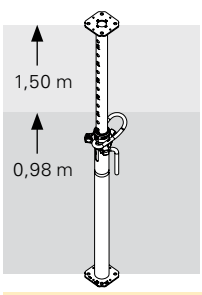
E-300+
L = 1,79 – 3,00 m
Weight: 19.3 kg



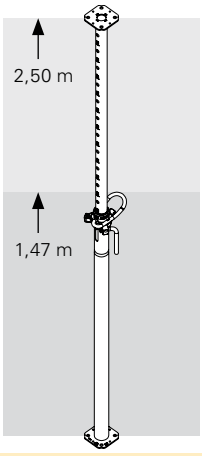
E-350+
L = 2,08 – 3,50 m
Weight: 21.7 kg



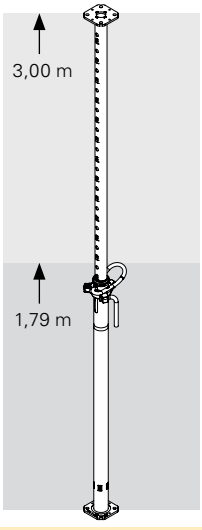
E-400
L = 2,51 – 4,00 m
Weight: 26.6 kg



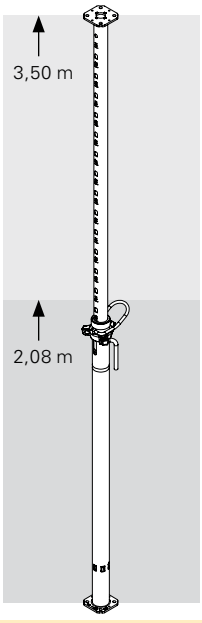
D-150
L = 0,98 – 1,50 m
Weight: 9.1 kg



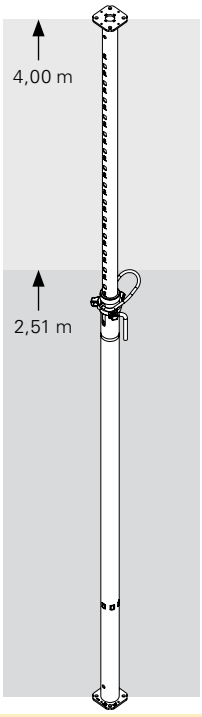
D-250
L = 1,47 – 2,50 m
Weight: 13.1 kg



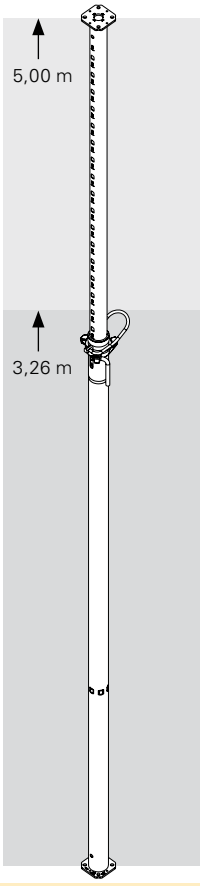
D-300+
L = 1,79 – 3,00 m
Weight: 15.9 kg



D-350+
L = 2,08 – 3,50 m
Weight: 19.2 kg



D-400
L = 2,51 – 4,00 m
Weight: 23.2 kg

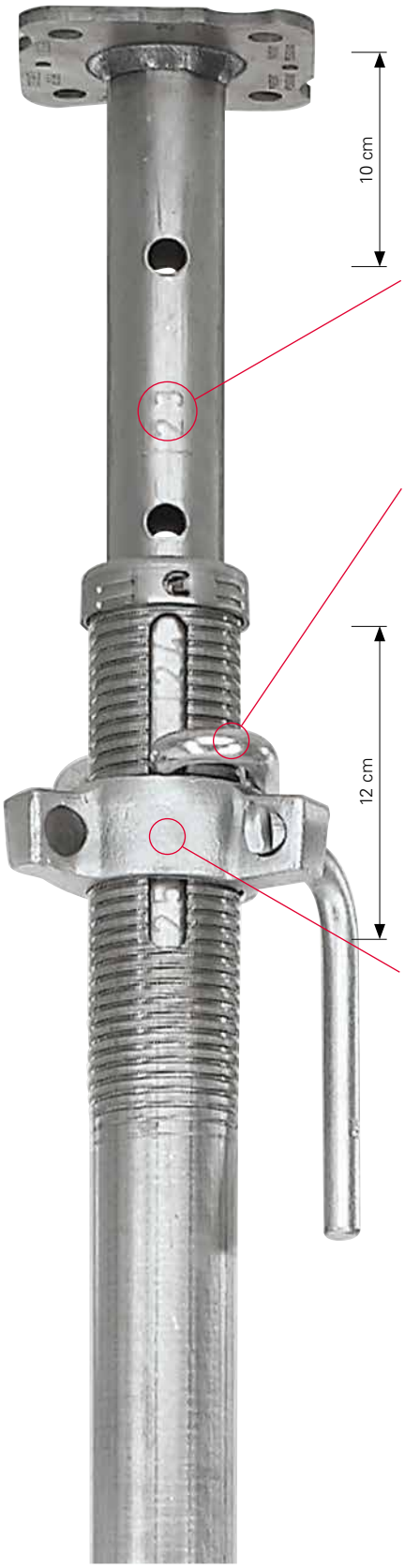


D-500
L = 3,26 – 5,00 m
Weight: 30.7 kg

Quickly adjusted

Fast forming
Due to the large adjustment range of 12 cm, the G-Hooks only seldom need to be re-positioned. In addition, the proven, integrated measuring scale in form of stamped numbers on the inner tube ensures efficient and error-free working on the construction site.

Safe forming
The integrated anti-crush feature with a safety clearance of 10 cm at the top end protects the user against injury. The integrated fail-safe device prevents the inner tube from unintentionally falling out.



Low risk of injury
The integrated 10 cm safety clearance protects against crushing injuries of the hand.

Stamped measuring scale
For fast prop adjustment. Stamped numbers on the inner tube show the overall length in dm, readable at the end of the outer tube.

Good handling
The patented G-Hook is ergonomically formed and can be securely clamped.

Generous adjustment range
The large adjustment range of 12 cm makes frequent adjustment unnecessary.

Three-winged nut
The high-quality, forged nut and the multi-start thread allows easy release also under full load.

Simple logistics
Robust, always visible and easily readable stamped indicia on the head and base plates ensure fast and safe identification of the stored props also within the stacking pallets.

The length stamping on the PEP Ergo Props is clearly readable.

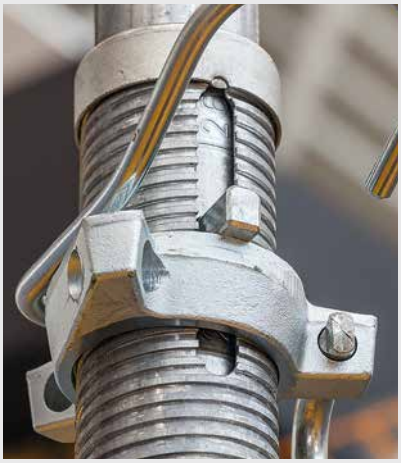
New adjusting nut
The form of the lowering nut dictates the direction of lowering the load and ensures that lowering is carried out in a way protecting the material, also under maximum load.

The adjusting nut has a generously-sized hammer striking face and determines the impact direction.

PEP Ergo Props can be easily adjusted with the help of the captive handgrip.

G-Hook
The shape of the patented G-Hook combines an extremely high load-bearing capacity with optimal functionality and minimum weight.

Strong support profile and optimized anti-dropout safeguard.



Level bearing surface of the adjusting nut for easy release.

Wingnut Spanner
The wingnut spanner allows effortless and silent loosening of the adjusting nut – even with maximum loaded props!

Ergonomic operations through offset wingnut spanner.

Safe operations due to hook on the wingnut spanner.

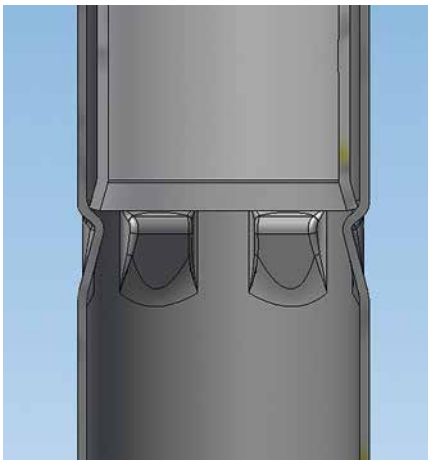
Simple connections

Assembly of accessories
Naturally, the use of all PERI Prop Heads is guaranteed. They are also usable on both sides through the identical end plates on the inner and outer tubes.

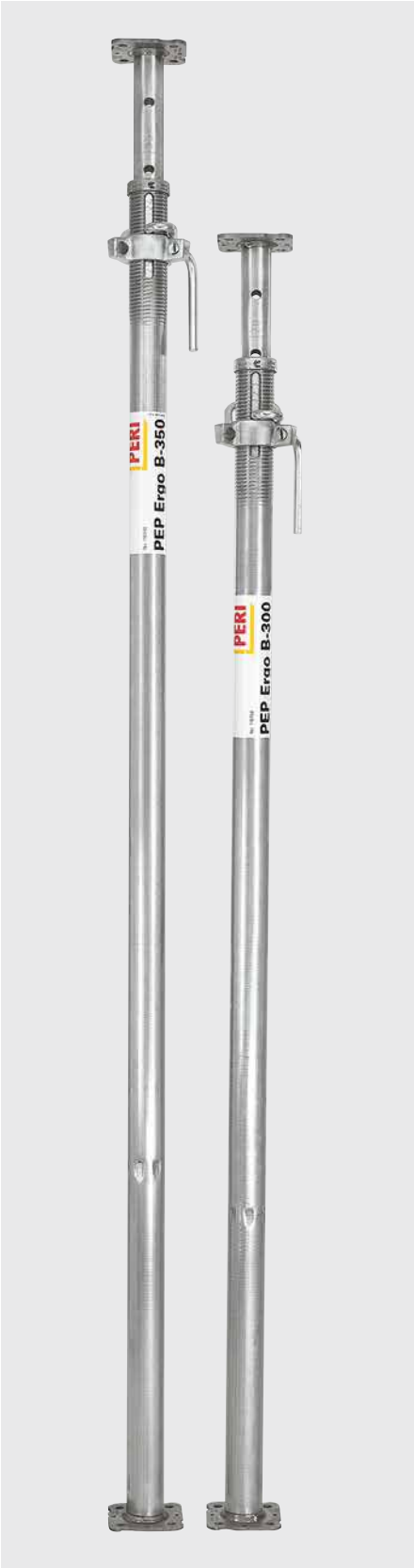
Assembly aids
The Universal Tripods and PEP Ergo as well as PEP Frames PRK are used as assembly aids.

Well-developed features for a long service life

Long service life
The complete galvanisation of all surfaces guarantees a long service life. The new closing nut additionally provides a unique repair capability. It allows defective inner and outer tubes to be easily and separately replaced.



Site-optimized enhanced robustness
The inner tube ends well beyond the base plate itself. This ensures that any damage to the outer tube does not hinder the free movement of the inner tube.



Slab Props
PEP Ergo B

Permissible prop load [kN] according to approval

Extension length [m]	PEP Ergo B-300 L = 1.97 – 3.00 m		PEP Ergo B-350 L = 2.25 – 3.50 m	
	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom
2.00	30.8	30.8		
2.10	29.8	30.8		
2.20	27.0	30.8		
2.30	24.6	30.8	30.8	28.6
2.40	23.0	30.8	28.6	28.6
2.50	21.5	30.8	25.5	28.6
2.60	20.3	29.5	23.1	28.4
2.70	19.3	27.5	21.3	28.0
2.80	18.3	24.8	19.8	27.4
2.90	16.9	22.3	18.6	26.1
3.00	15.6	20.2	17.5	24.4
3.10			16.3	22.8
3.20			15.2	20.8
3.30			14.3	19.0
3.40			13.2	17.4
3.50			12.4	15.7

Note:
- PERI PEP Ergo B-300 and PEP Ergo B-350 Props meet the load-bearing capacity requirements of Prop Class B as stipulated in DIN EN 1065.
- General Building Inspectorate Approval Z-8.311-934 issued by the German Institute for Building Technology (DIBt).

Slab Props
PEP Ergo D

Permissible prop load [kN] according to approval

Extension length [m]	PEP Ergo D-150 L = 0.98 – 1.50 m		PEP Ergo D-250 L = 1.47 – 2.50 m	
	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom
1.00	30.8	30.8		
1.10	30.8	30.8		
1.20	30.8	30.8		
1.30	30.8	30.8		
1.40	28.5	30.8		
1.50	26.4	30.8	35.0	35.0
1.60			35.0	35.0
1.70			32.9	35.0
1.80			30.7	35.0
1.90			29.1	35.0
2.00			28.1	35.0
2.10			27.3	35.0
2.20			26.5	34.1
2.30			25.7	32.3
2.40			24.3	29.4
2.50			22.4	26.3
2.60				
2.70				
2.80				
2.90				
3.00				
3.10				
3.20				
3.30				
3.40				
3.50				
3.60				
3.70				
3.80				
3.90				
4.00				
4.10				
4.20				
4.30				
4.40				
4.50				
4.60				
4.70				
4.80				
4.90				
5.00				

Slab Props
PEP Ergo D

Permissible prop load [kN] according to approval

Extension length [m]	PEP Ergo D-300 + L = 1.79 – 3.00 m		PEP Ergo D-350 + L = 2.08 – 3.50 m		PEP Ergo D-400 L = 2.51 – 4.00 m		PEP Ergo D-500 L = 3.26 – 5.00 m	
	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom
1.00								
1.10								
1.20								
1.30								
1.40								
1.50								
1.60								
1.70								
1.80	35.0	35.0						
1.90	35.0	35.0						
2.00	35.0	35.0						
2.10	35.0	35.0	40.0	40.0				
2.20	35.0	35.0	40.0	40.0				
2.30	33.4	35.0	40.0	40.0				
2.40	31.7	34.0	39.7	40.0				
2.50	30.1	32.7	36.9	40.0				
2.60	28.3	31.3	34.7	40.0	40.0	40.0		
2.70	26.2	29.1	32.9	40.0	40.0	40.0		
2.80	24.3	26.9	31.6	40.0	40.0	40.0		
2.90	22.4	24.9	30.3	40.0	40.0	40.0		
3.00	20.6	22.8	29.2	39.1	40.0	40.0		
3.10			27.2	35.4	37.7	40.0		
3.20			25.4	32.1	35.7	40.0		
3.30			23.7	29.4	33.9	40.0	40.0	40.0
3.40			22.1	27.0	32.5	40.0	40.0	40.0
3.50			20.7	24.7	31.0	39.7	40.0	40.0
3.60					29.0	36.4	40.0	40.0
3.70					27.0	33.3	40.0	40.0
3.80					25.2	30.7	40.0	40.0
3.90					23.5	28.2	40.0	40.0
4.00					21.8	26.0	40.0	40.0
4.10							39.3	40.0
4.20							36.5	40.0
4.30							34.0	39.2
4.40							31.8	37.0
4.50							29.9	34.6
4.60							28.1	32.4
4.70							26.4	30.4
4.80							24.8	28.5
4.90							23.4	26.8
5.00							21.8	25.3

Note:

- PERI PEP Ergo D-150, PEP Ergo D-250, PEP Ergo D-300 +, PEP Ergo D-350 +, PEP Ergo D-400 and PEP Ergo D-500 Props fulfil the Prop Class D load-bearing capacity requirements of DIN EN 1065.
- In addition, Prop PEP Ergo D-250 fulfils the Prop Class B requirements as stipulated in DIN EN 1065.
- General Building Inspectorate Approval Z-8.311-934 for PERI PEP Ergo D-150 and PEP Ergo D-250 and PEP Ergo D-300 +.
- General Building Inspectorate Approval Z-8.311-941 for PERI PEP Ergo D-350 +, PEP Ergo D-400 and PEP Ergo D-500.

Slab Props
PEP Ergo E

Permissible prop load [kN] according to approval

Extension length [m]	PEP Ergo E-300 + L = 1.79 – 3.00 m		PEP Ergo E-350 + L = 2.08 – 3.50 m		PEP Ergo E-400 L = 2.51 – 4.00 m	
	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom	Outer tube bottom	Inner tube bottom
1.80	50.4	50.4				
1.90	50.4	50.4				
2.00	50.4	50.4				
2.10	50.4	50.4	50.4	50.4		
2.20	50.4	50.4	50.4	50.4		
2.30	50.4	50.4	50.4	50.4		
2.40	47.3	50.4	50.4	50.4		
2.50	45.6	50.4	50.4	50.4		
2.60	44.5	50.4	50.4	50.4	50.4	50.4
2.70	43.3	50.4	48.5	50.4	50.4	50.4
2.80	41.8	50.4	46.4	50.4	50.4	50.4
2.90	40.3	48.0	44.5	50.4	50.4	50.4
3.00	37.5	43.0	43.0	50.4	50.4	50.4
3.10			41.5	50.4	50.4	50.4
3.20			38.7	46.1	50.4	50.4
3.30			36.0	41.9	50.4	50.4
3.40			33.3	38.2	50.4	50.4
3.50			30.9	34.9	48.5	50.4
3.60					46.0	50.4
3.70					42.7	48.4
3.80					39.7	44.7
3.90					36.9	41.1
4.00					34.1	37.7

Note:
- PERI Props PERI PEP Ergo E-300 +, PEP Ergo E-350 + and PEP Ergo E-400 fulfil the Prop Class E load-bearing capacity requirements of DIN EN 1065.
- General Building Inspectorate Approval Z-8.311-941 of the German Institute for Building Technlogy (DIBt).

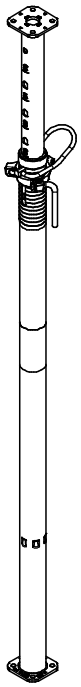
PEP Ergo Slab Props

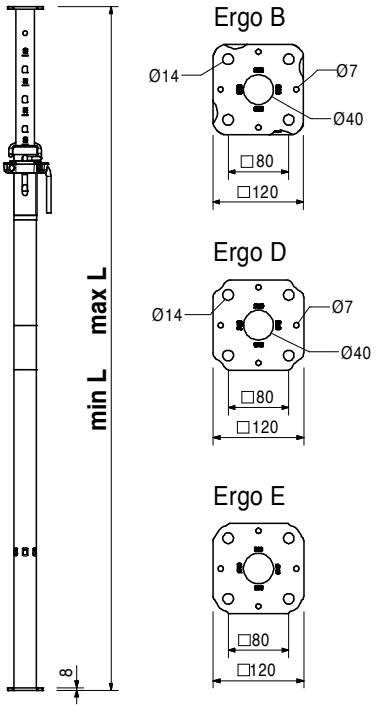
Item no.	Weight kg	Slab Props PEP Ergo	D	min. L	max. L
116780	14.000	**Slab Prop PEP Ergo B-300**	Ø 60.6	1970	3000
116790	15.600	**Slab Prop PEP Ergo B-350**	Ø 60.6	2250	3500
117230	9.110	**Slab Prop PEP Ergo D-150**	Ø 60.6	980	1500
116770	13.100	**Slab Prop PEP Ergo D-250**	Ø 60.6	1470	2500
131360	15.900	**Slab Prop PEP Ergo D-300 +**	Ø 66.6	1790	3000
131111	19.200	**Slab Prop PEP Ergo D-350 +**	Ø 71.0	2080	3500
125140	22.900	**Slab Prop PEP Ergo D-400**	Ø 76.5	2510	4000
125150	30.400	**Slab Prop PEP Ergo D-500**	Ø 83.0	3260	5000
131104	19.300	**Slab Prop PEP Ergo E-300 +**	Ø 76.5	1790	3000
131085	21.700	**Slab Prop PEP Ergo E-350 +**	Ø 76.5	2080	3500
125170	26.600	**Slab Prop PEP Ergo E-400**	Ø 83.0	2510	4000

Slab prop made of steel.

Note

Permissible load: see PERI Design Tables.



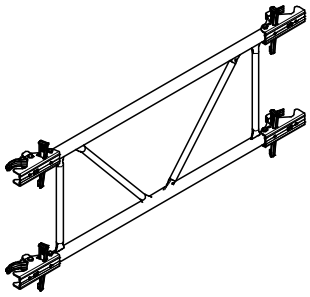


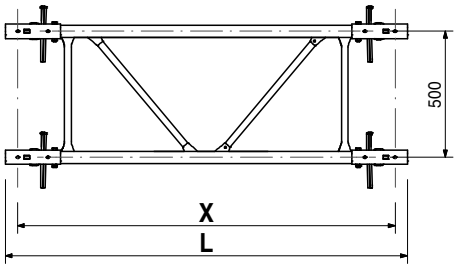
PEP Ergo Slab Props

Item no.	Weight kg		L	X
		PEP Frames PRK, Steel		
111811	13.700	**PEP Frames PRK 62.5**	723	625
111812	13.900	**PEP Frames PRK 75**	848	750
112813	15.900	**PEP Frames PRK 100**	1098	1000
112814	17.800	**PEP Frames PRK 120**	1298	1200
111813	19.200	**PEP Frames PRK 137.5**	1473	1375
111814	20.100	**PEP Frames PRK 150**	1598	1500

Stiffening frame for PEP slab props. Complete with captive wedge coupling.

Note
L = Loading Length
X = Axis Length

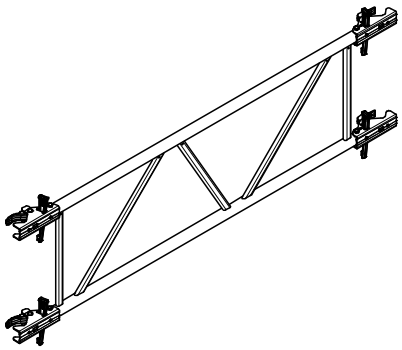


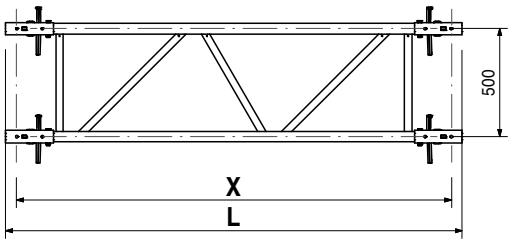


Item no.	Weight kg		L	X
		PEP Frames PRK		
112718	15.300	**PEP Frames PRK 200**	2098	2000
111815	15.400	**PEP Frames PRK 201.5**	2113	2015
112788	15.600	**PEP Frames PRK 210**	2198	2100
111816	16.100	**PEP Frames PRK 225**	2348	2250
111817	16.300	**PEP Frames PRK 230**	2398	2300
111818	17.700	**PEP Frames PRK 266**	2758	2660
111819	18.700	**PEP Frames PRK 296**	3058	2960

Stiffening frame for PEP slab props. Complete with captive wedge coupling.

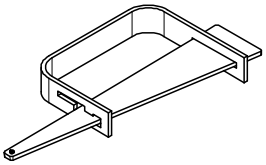
Note
L = Loading Length
X = Axis Length

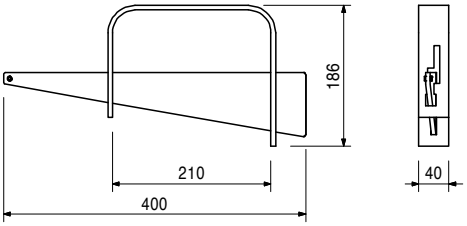




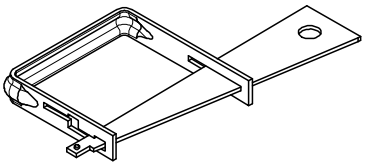
PEP Ergo Slab Props

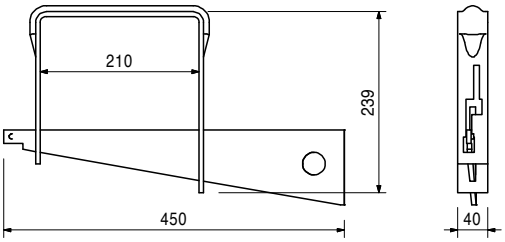
Item no.	Weight kg	
027940	1.840	**Brace Clamp, galv., 48 – 76 mm** For assembly of 3 x 15 cm stiffening boards at slab props Ø 48 – 76 mm.



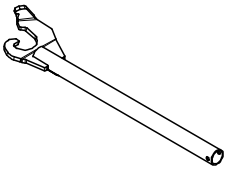


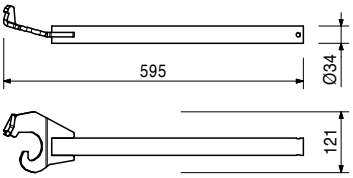
027790	2.460	**Brace Clamp HL, galv., 76 – 120 mm** For assembly of 3 x 15 cm stiffening boards at slab props Ø 76 – 89 mm and 100 x 100 mm to 120 x 120 mm.





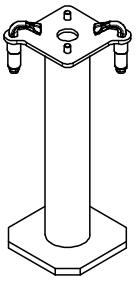
118345	1.500	**Wing Nut Spanner PEP** Allows effortless loosening of the adjusting nut with maximum loaded props.

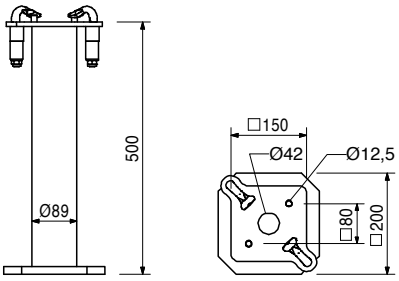




027310	8.900	**Base MP 50** For use with slab props with an end plate thickness of 6 – 10 mm. With clamped quick-release fastener.

Note
Permissible load: see PERI Design Tables.



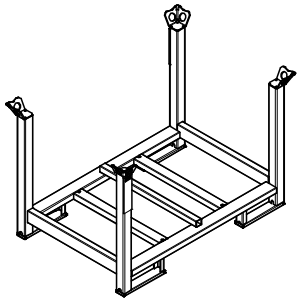


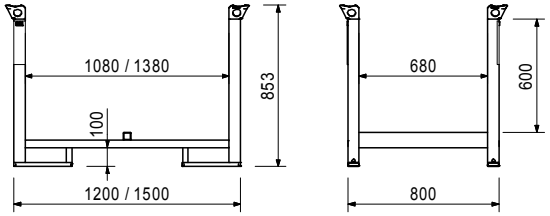
PEP Ergo Slab Props

Item no.	Weight kg	
		Pallets RP-2, galv.
103434	38.500	**Pallet RP-2 80 x 120, galv.**
103429	45.300	**Pallet RP-2 80 x 150, galv.**

For stacking and transportation of formwork and scaffolding components.

Note
Follow Instructions for Use!
Technical Data
Permissible load-bearing capacity 1.5 t.

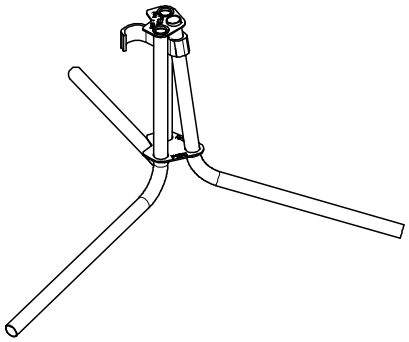


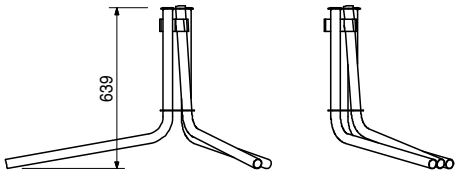


107152	5.810	**Tripod PEP Ergo, galv.**

Erection aid for PEP Ergo Slab Props with Ø 44 – 64 mm.

Note
Only use as erection aid!

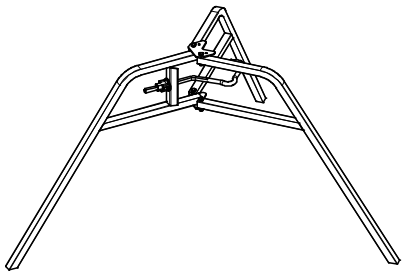


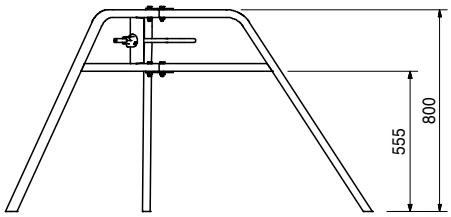


028000	9.190	**Universal Tripod, galv.**

Erection aid for slab props with Ø 57 – 120 mm and 120 x 120 mm. Can also be used in combination with MULTIPROP MP slab props and all slab props with Base MP 50.

Note
Only use as erection aid!





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