

PRODUCT DATA SHEET

POWERRING TRANSPORT ANCHOR

PRODUCT DESCRIPTION

The Powerring is a powerful lifting device that was specifically designed for handling and transporting CLT panels and glued laminated timber elements. With a load capacity of up to 6.3 tonnes per attachment point, the Powerring offers maximum safety and efficiency for a wide range of lifting operations. Thanks to its versatile installation configurations, the Powerring can be flexibly adjusted to your requirements. It can, for example, be attached to the wide surface of CLT panels or the top side of beams. This makes the Powerring a reliable tool for the safe, cost-effective and fast assembly of wooden structures.



Powerring



Sling swivels

APPLICATIONS

- Wall or floor panels made of CLT
- Solid wood and glued laminated timber beams
- Prefabricated walls with a timber frame construction
- Prefabricated modular structures

IMPORTANT SPECIFICATIONS

- Load capacity: up to 6.3 t per fastening point
- Reusable: visually inspect before each use and conduct an annual inspection according to DGUV 109-017
- The sling swivels can rotate freely, allowing them to automatically adjust to the direction of pull.

SEVERAL DIFFERENT INSTALLATION OPTIONS DEPENDING ON THE APPLICATION:

1. 8 combined screws (full capacity): maximum load capacity when using vertical and oblique screws
2. 4 screws inclined by 90° (partial utilisation): optimised for lifting lighter or slimmer components with vertical ropes ($\beta = 0^\circ$)
3. 4 screws inclined by 45° (partial utilisation): optimised for lifting lighter components with inclined ropes ($\beta > 0^\circ$)

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PRODUCT TABLE

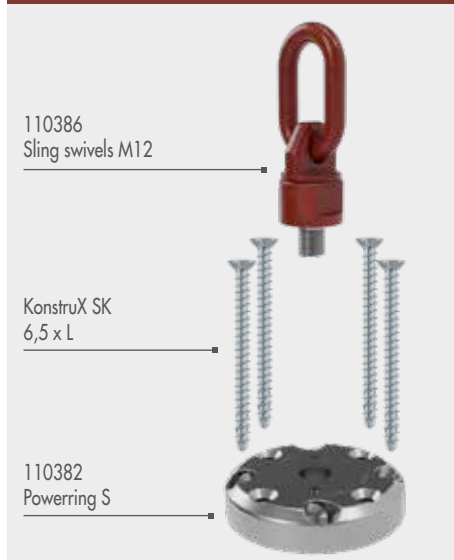
Powerring transport anchor					
Art. no.	Designation	External dimensions [mm]	Material	Mounting thread	PU
110382	Powerring S	Ø 100 x 18	Steel - S235JR	M12	1
110383	Powerring M	Ø 110 x 20	Steel - S235JR	M14	1
110384	Powerring XL	Ø 130 x 30	Steel - S235JR	M24	1

SUITABLE SLING SWIVELS:

Art. no.	Designation	Max. load capacity [kg]	PU
110386	Sling swivels M12	500/1000	1
110387	Sling swivels M14	1120/2240	1
110389	Sling swivels M24	3150/6300	1

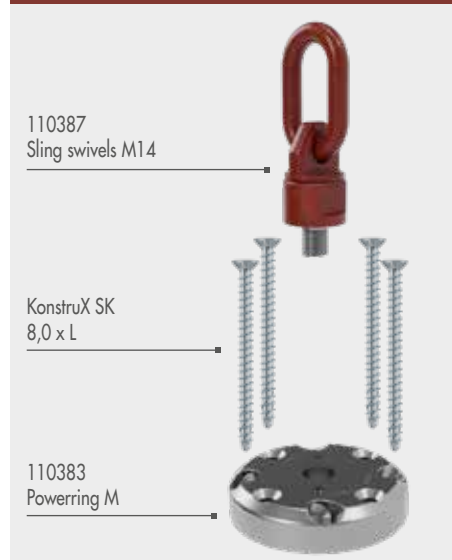
SET VARIANT S

Consists of:



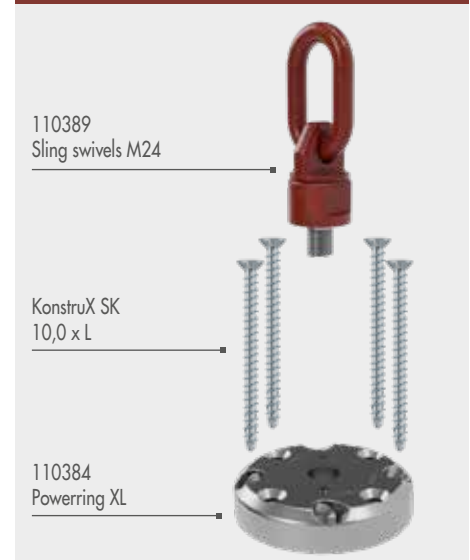
SET VARIANT M

Consists of:



SET VARIANT XL

Consists of:



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SUITABLE SCREWS:

ANGLE-BRACKET SCREW:

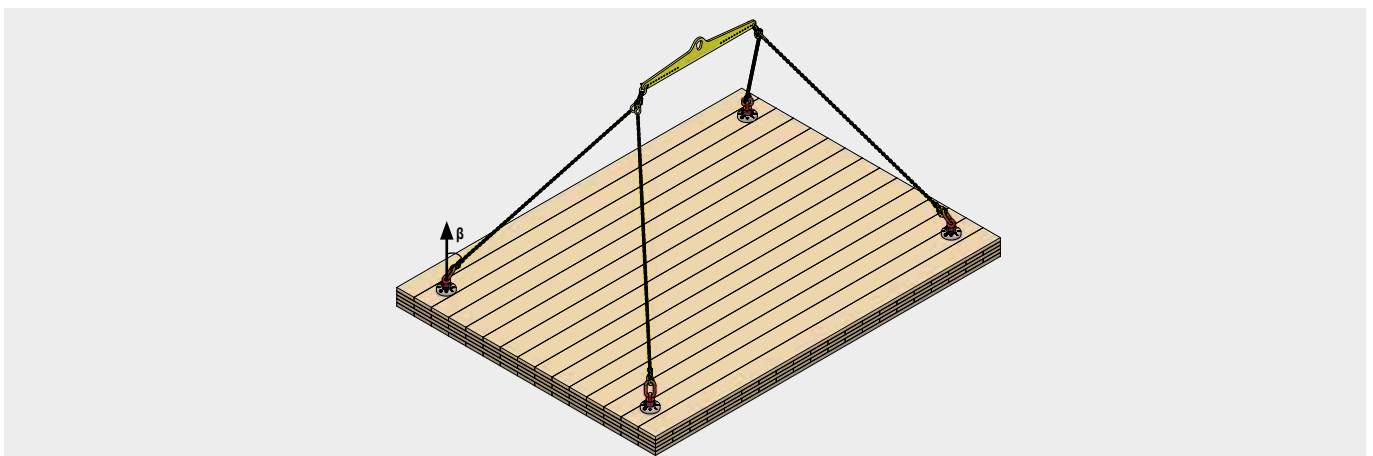
Art. no.	Dimension [mm]	Drive	PU
945344	5,0 x 60	TX20 ●	250

KONSTRUX:

Art. no.	Dimension [mm]	Drive	PU
904857	6,5 x 80	TX30 ●	100
904858	6,5 x 100	TX30 ●	100
904860	6,5 x 140	TX30 ●	100
904792	8,0 x 155	TX40 ●	50
904794	8,0 x 220	TX40 ●	50
904797	8,0 x 295	TX40 ●	50
904771	10,0 x 155	TX50 ●	25
904773	10,0 x 220	TX50 ●	25
904776	10,0 x 300	TX50 ●	25

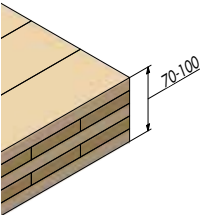
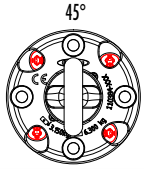
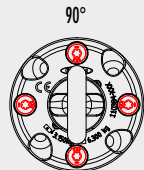
TECHNICAL INFORMATION

POWERRING S MAXIMUM LOAD CAPACITY (CLT FLOOR):

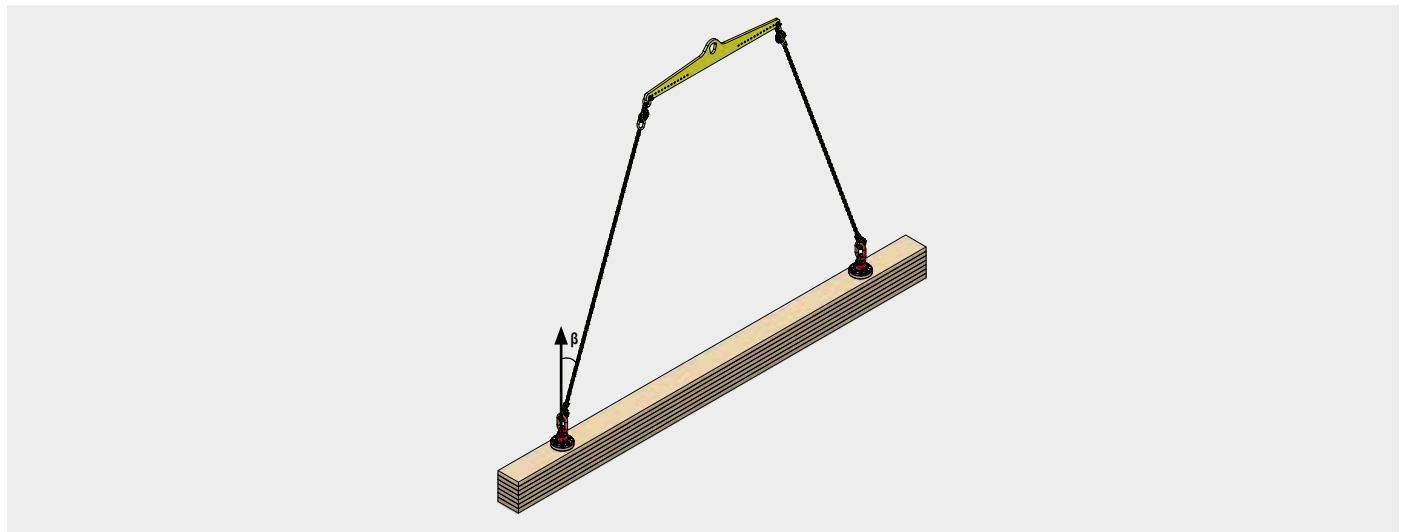


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CLT thickness	Powerring configurationS 904858 Konstrux SK 6,5 x 100 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45° 	1,2	1000	500	500	411
		1,9	643	500	391	260
	90° 	1,2	1000	500	500	317
		1,9	909	500	331	200
	90°+45° 	1,2	1000	500	500	500
		1,9	1000	500	500	467

BEAM:

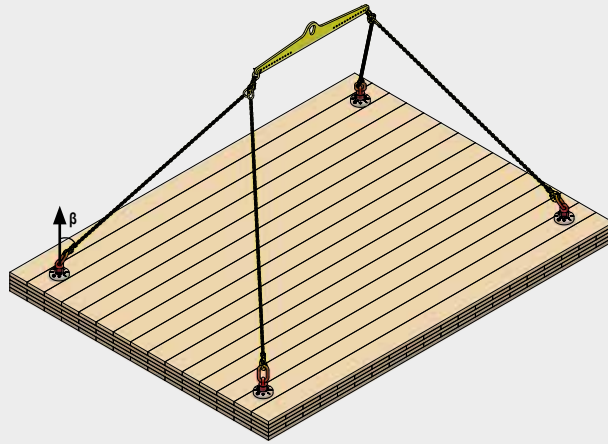


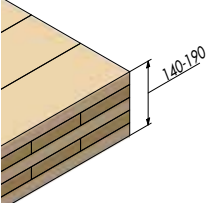
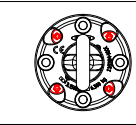
Powerring S	Powerring configurationS	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	904857 Konstrux SK 6,5 x 80	1,2	1000	500	500	328
		1,9	742	487	333	207
	904858 Konstrux SK 6,5 x 100	1,2	1000	500	500	333
		1,9	982	500	349	210
	904860 Konstrux SK 6,5 x 140	1,2	1000	500	500	337
		1,9	1000	500	361	213

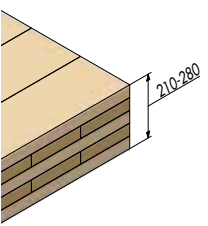
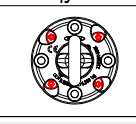
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POWERRING M MAXIMALE LOAD CAPACITY (CLT FLOOR):

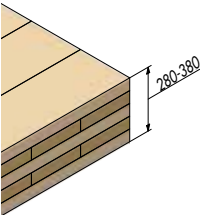
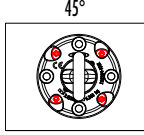
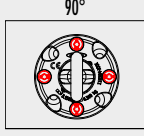
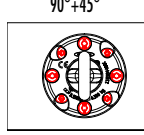


CLT thickness	Powerring configuration M 904792 Konstrux SK 8,0 x 155 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45°	1,2	1664	1120	984	649
		1,9	1051	826	621	410
	90°	1,2	2240	1120	741	443
		1,9	1486	740	468	280
	90°+45°	1,2	2240	1120	1120	1110
		1,9	2240	1120	1120	701

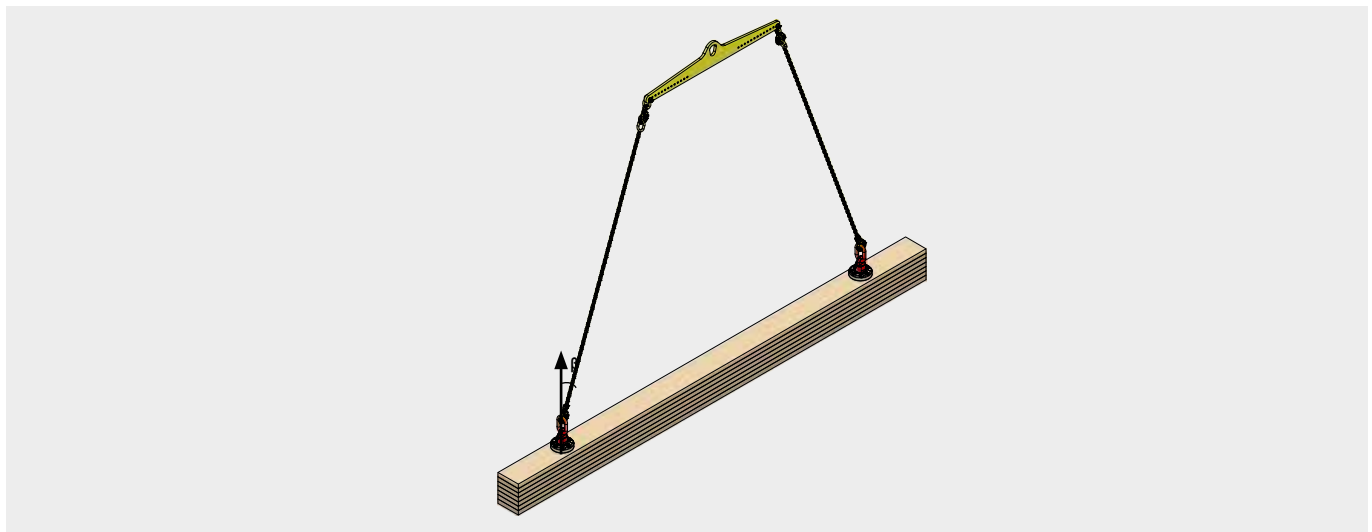
CLT thickness	Powerring configuration M 904794 Konstrux SK 8,0 x 220 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45°	1,2	2240	1120	1120	896
		1,9	1557	1120	871	566
	90°	1,2	2240	1120	762	447
		1,9	2202	796	481	282
	90°+45°	1,2	2240	1120	1120	1120
		1,9	2240	1120	1120	868

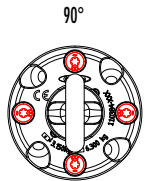
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CLT thickness	Powerring configuration M 904797 Konstrux SK 8,0 x 295 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45° 	1,2	2240	1120	1120	1085
		1,9	1946	1120	1062	685
	90° 	1,2	2240	1120	768	448
		1,9	2240	815	485	283
	90°+45° 	1,2	2240	1120	1120	1120
		1,9	2240	1120	1120	994

BEAM:

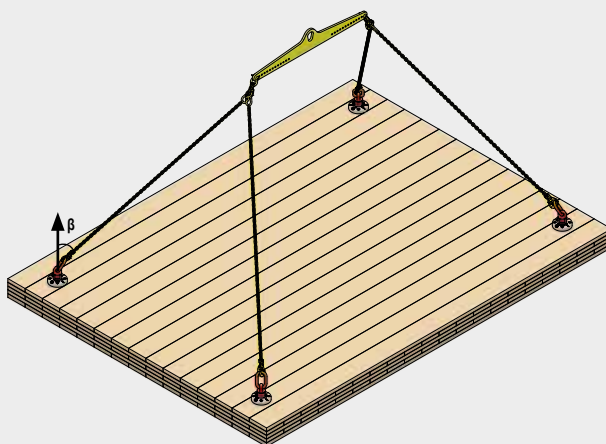


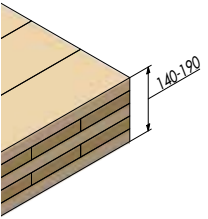
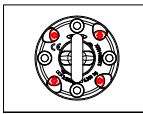
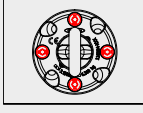
Powerring M	Powerring configuration M	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	904792 Konstrux SK 8 x 155	1,2	2240	1120	780	465
		1,9	1604	782	492	294
	904794 Konstrux SK 8 x 220	1,2	2240	1120	800	469
		1,9	2240	839	506	296
	904797 Konstrux SK 8 x 295	1,2	2240	1120	805	470
		1,9	2240	852	509	297

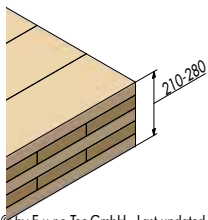
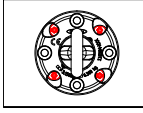
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POWERRING XL MAXIMALE LOAD CAPACITY (CLT FLOOR):



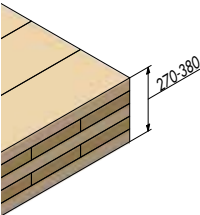
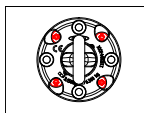
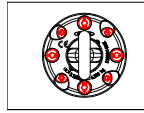
CLT thickness	Powerring configurationXL 904771 Konstrux SK 10,0 x 155 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45° 	1,2	1772	1427	1093	730
		1,9	1119	901	690	461
	90° 	1,2	2507	1489	983	599
		1,9	1583	941	621	379
	90°+45° 	1,2	4279	3018	2131	1347
		1,9	2703	1906	1346	851

CLT thickness	Powerring configurationXL 904773 Konstrux SK 10,0 x 220 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45° 	1,2	2693	2084	1553	1016
		1,9	1701	1316	981	642
	90° 	1,2	3809	1665	1029	609
		1,9	2405	1052	650	385
	90°+45° 	1,2	6300	3150	2701	1658
		1,9	4106	2547	1706	1047

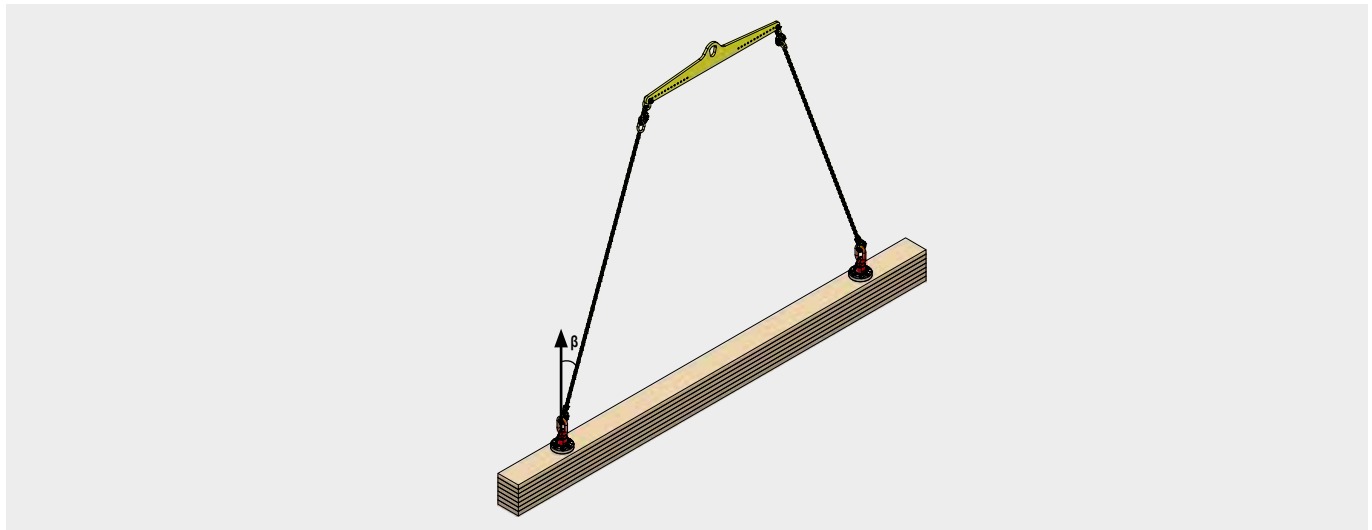
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CLT thickness	Powerring configurationXL 904776 Konstrux SK 10,0 x 300 mm	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	45° 	1,2	3827	2883	2111	1365
		1,9	2417	1821	1333	862
	90° 	1,2	5412	1752	1049	613
		1,9	3418	1107	662	387
	90°+45° 	1,2	6300	3150	3150	2027
		1,9	5835	3150	2118	1280

BEAM:



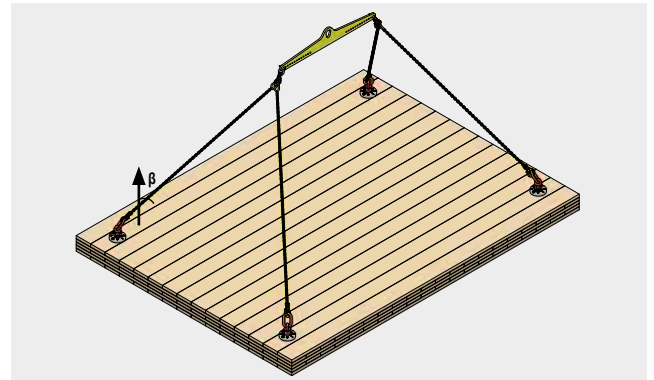
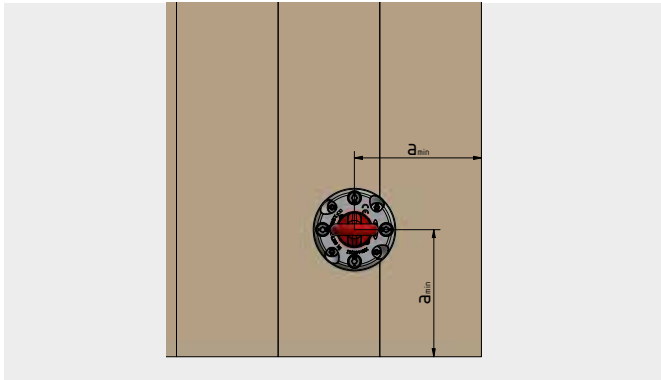
Powerring XL	Powerring configurationXL	Dynamic factor	Load capacity [kg]			
			$\beta = 0^\circ$	$0^\circ < \beta < 30^\circ$	$30^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$
	904771 Konstrux SK 10 x 155 mm	1,2	2704	1577	1036	630
		1,9	1708	996	654	398
	904773 Konstrux SK 10 x 220 mm	1,2	4110	1756	1082	640
		1,9	2596	1109	683	404
	904775 Konstrux SK 10 x 270 mm	1,2	5752	1840	1101	643
		1,9	3633	1162	695	406

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POWERRING TRANSPORT ANCHOR

MINIMUM DISTANCES FOR THE INSTALLATION:

CLT FLOOR

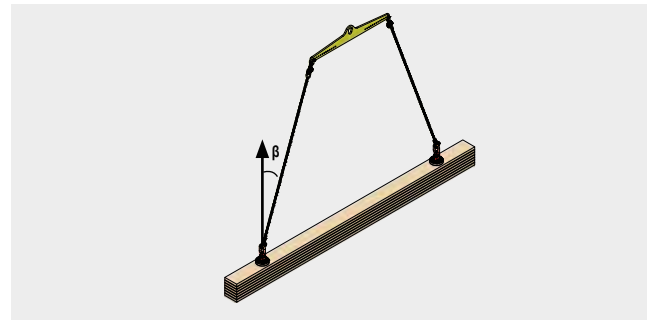
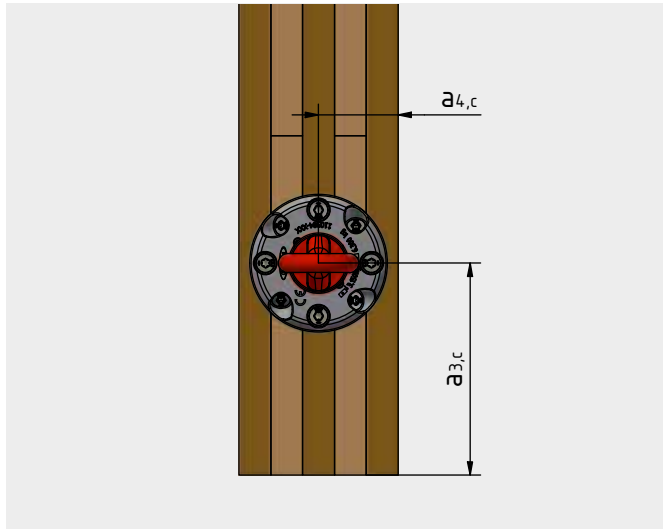


Powerring size	KonstruX screw d x L [mm x mm]	a min [mm]	
		90°	45° + 90° oder 45°
XL	904771 KonstruX SK 10 x 155 mm	110	100
	904773 KonstruX SK 10 x 220 mm		140
	904776 KonstruX SK 10 x 300 mm		200
M	904792 KonstruX SK 8 x 155 mm	90	90
	904794 KonstruX SK 8 x 220 mm		140
	904797 KonstruX SK 8 x 295 mm		190
S	904858 KonstruX SK 6,5 x 100 mm	75	75

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GLUED LAMINATED TIMBER OR SAWN TIMBER BEAMS:



Powerring size	$a_{4,c}$ [mm]	$a_{3,c}$ [mm]
XL	50	100
M	40	80
S	35	65

If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (Technik@eurotec.team).