

Eurotec®
The specialist for fastening technology

OUR

LIFTING AND
TRANSPORT SOLUTIONS

BIM-PORTAL

ECS-SOFTWARE

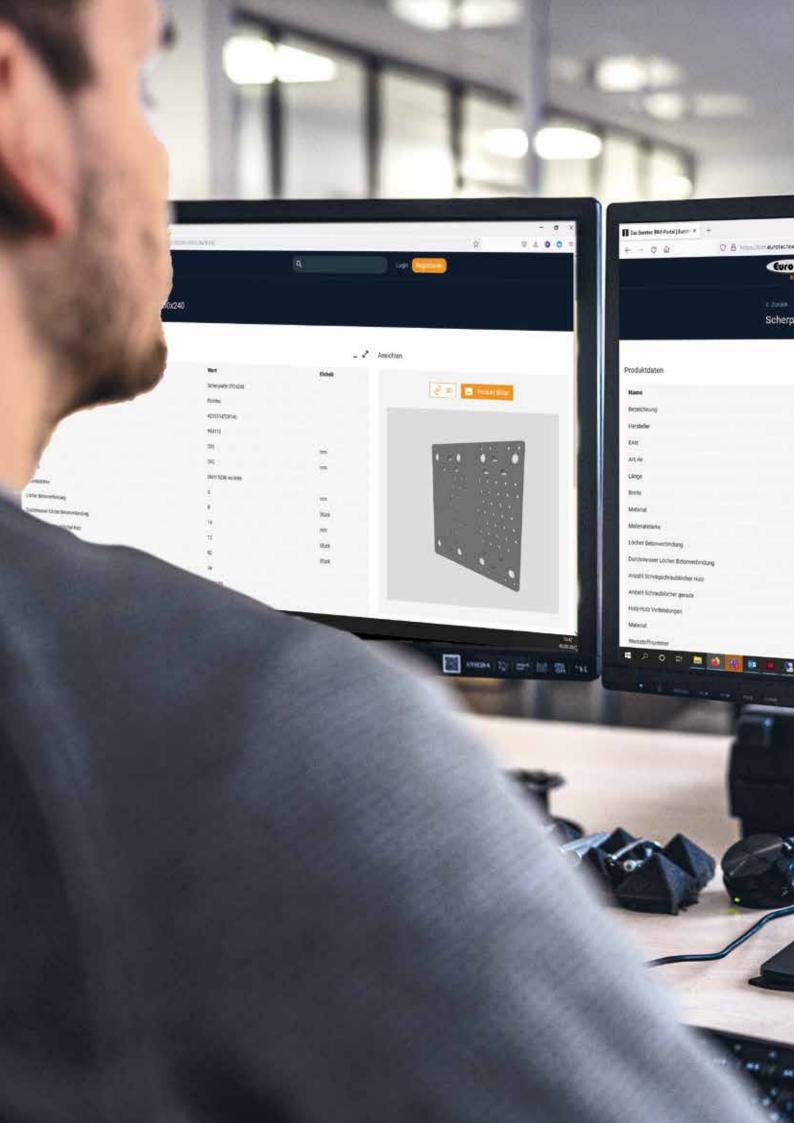
TIMBER CONNECTORS

LIFTING SOLUTIONS



TABLE OF CONTENTS

OUR BIM PORTAL	4–5
OUR ECS SOFTWARE	6–7
SINGLE-USE LIFTING STRAP	8
TRANSPORT ANCHOR SYSTEM	10–11
PRESS-IN NUT & ROPE LOOP	12–13
POWERBLOCK TRANSPORT ANCHOR	14–29
POWERRING TRANSPORT ANCHOR	30–39
TRILIFT	40–43
LIFTING ANCHOR HEBEFIX & BALL SUPPORTING BOLT	44–49
LIFTING ANCHOR HEBEFIX MINI & BALL SUPPORTING BOLT	50–55





OUR EUROTEC BIM-PORTAL ALL THE DATA AT A GLANCE!

FOR YOUR CONSTRUCTION PLANNING!

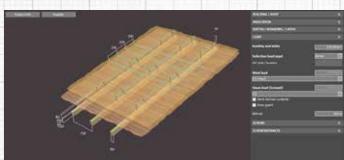
Building Information Modeling has become an integral part of day-to-day planning. On our user-friendly platform, you will find product information for your construction project in the form of **BIM-enabled data**. The versatile file formats include 3D/CAD objects, DWG and PDF files as well as notes on our **ETA certifications**.



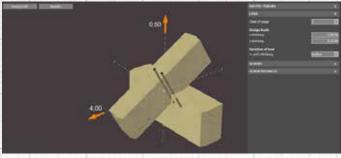
LEARN MORE ABOUT **OUR ECS SOFTWARE**

The ECS software is a free, user-friendly software for the pre-dimensioning of Eurotec wood construction screws. The modules include main and secondary beam connections, transverse tension and transverse pressure reinforcements, rafter-purlin connections, fastenings for roofing and façade insulation systems and many other applications.

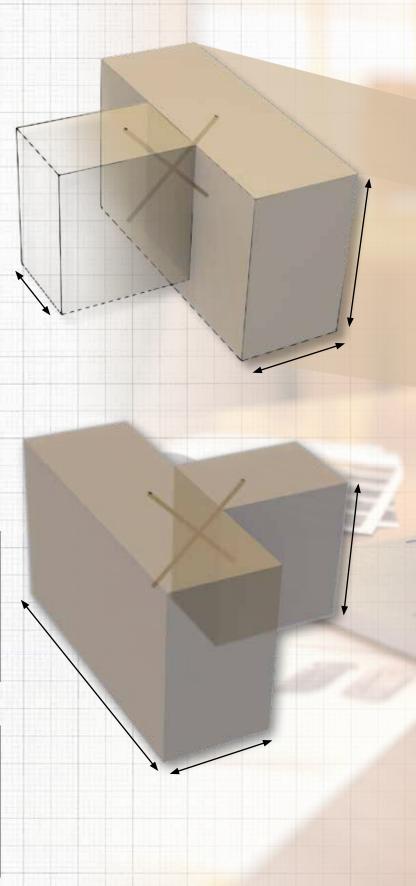
- The program gives you the option to fully customise your individual connection application by modifying parameters such as the geometry, material type (e.g. beech laminated veneer timber and solid timber in different strength classes), load sizes (variable and permanent loads), the load class and more to suit your needs.
- What's more, it makes it possible to optimise the fastening solution by adjusting the screw diameter and screw length as well as checking the strength utilisation factor, which is shown in the lower right corner of the screen.
- Once you have selected the connection solution, a calculation report in accordance with ETA-11/0024 and EN 1995 (Eurocode 5) is available to you, including the corresponding drawings in PDF format.

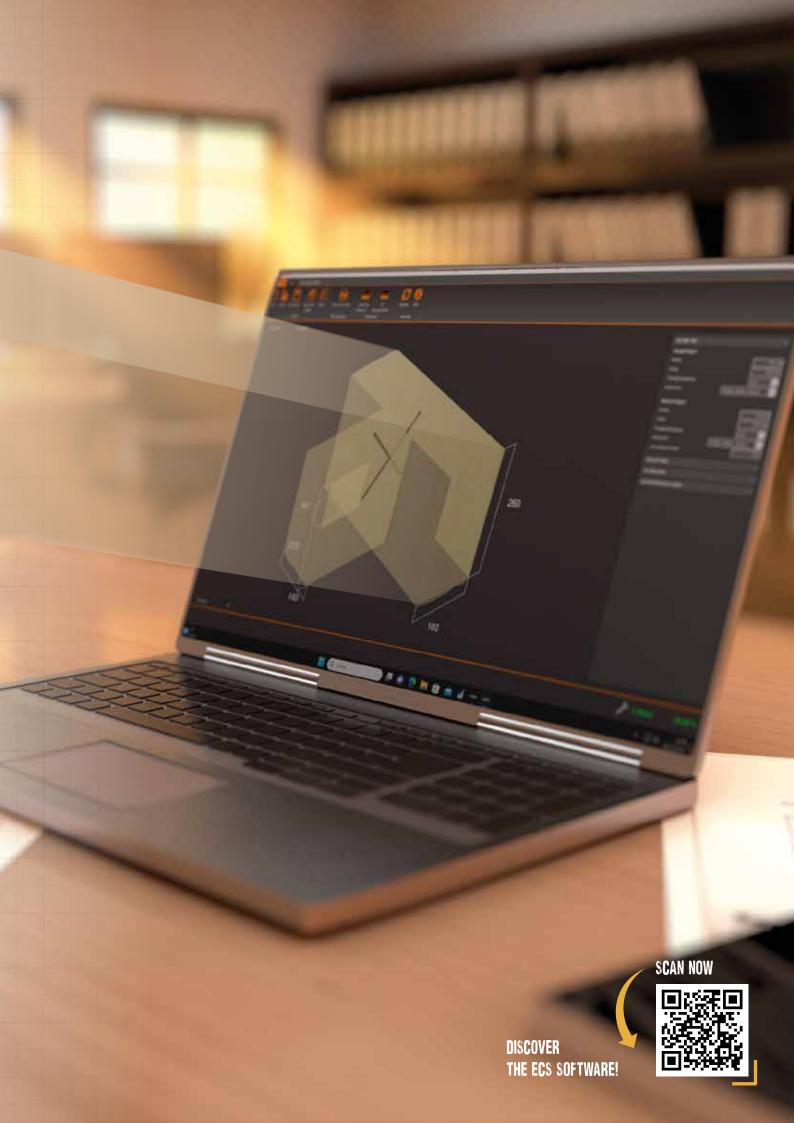


Module for the fastening of insulation materials on rafters using Topduo



Module for rafter-purlin connections using Paneltwistec and KonstruX





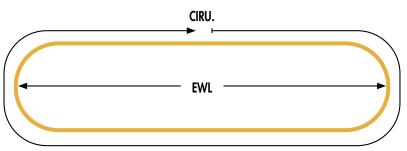
SINGLE-USE LIFTING STRAP



The single-use lifting strap is ideal for transporting goods from the production facility to the consumer. In accordance with DIN 60005, single-use lifting straps can only be used once and must be destroyed and disposed of at the end of the transport chain. They can be recognised above all by the orange label with a notice regarding single use. The minimum breaking strength of single-use lifting straps is equal to five times the load-bearing capacity. They are lightweight and highly flexible and therefore provide optimumhandling characteristics. They are used both on the shop floor and on construction sites. Following successful transport of the goods, the lifting straps can be detached easily.

The single-use lifting straps are available in the following effective working lengths: 40 cm, 50 cm, 60 cm, 80 cm, 100 cm and 120 cm.

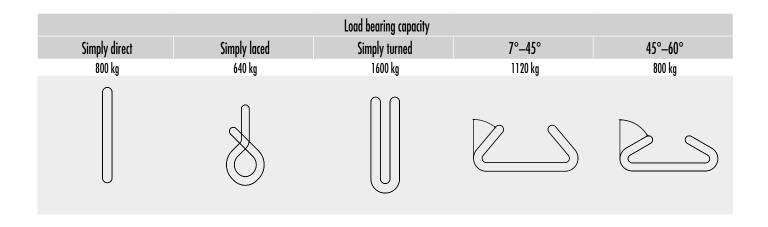




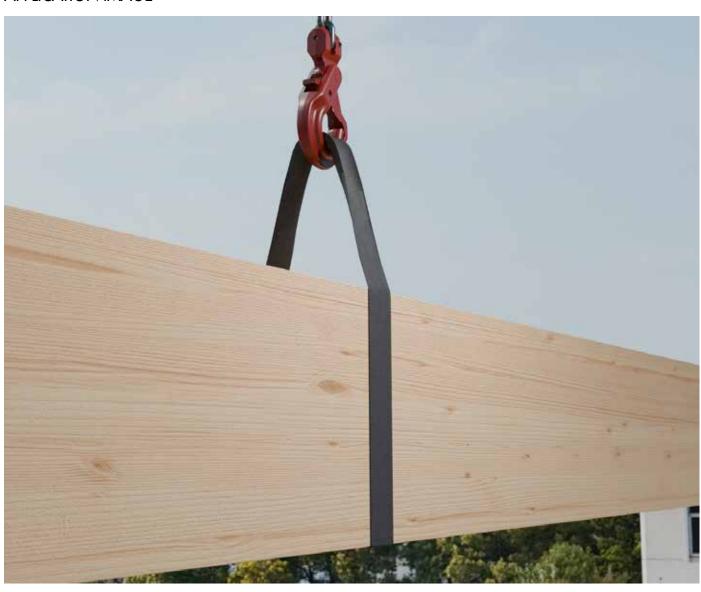
ADVANTAGES/SPECIFICATIONS

- · Cost-effective transport aids
- · Easy handling and disposal
- · Flexible, lightweight lifting tackle
- · Suitable for various attachment methods
- · Easy detachment of the product
- · Manufactured in accordance with DIN 60005

Single-use lifting strap (DIN 60005)					
Art. no.	Description	Description 2	WLL		
800361	Single-use lifting strap EWL 0,4 m	Extent 0,8 m	800 kg		
800362	Single-use lifting strap EWL 0,5 m	Extent 1,0 m	800 kg		
800363	Single-use lifting strap EWL 0,6 m	Extent 1,2 m	800 kg		
800381	Single-use lifting strap EWL 0,8 m	Extent 1,6 m	800 kg		
800382	Single-use lifting strap EWL 1,0 m	Extent 2,0 m	800 kg		
800383	Single-use lifting strap EWL 1,2 m	Extent 2,4 m	800 kg		
900360	Single-use sling 30 mm x 800 kg x 0,5 m/1 m	DIN60005, blue	800 kg		
900361	Single-use sling 30 mm x 800 kg x 0,75 m/1,5 m	DIN60005, blue	800 kg		
900362	Single-use sling 30 mm x 800 kg x 1 m/2 m	DIN60005, blue	800 kg		
900363	Single-use sling 30 mm x 800 kg x 1,5 m/3 m	DIN60005, blue	800 kg		
900364	Single-use sling 30 mm x 800 kg x 2 m/4 m	DIN60005, blue	800 kg		
900365	Single-use sling 30 mm x 800 kg x 3 m/6 m	DIN60005, blue	800 kg		
900366	Single-use sling 30 mm x 1400 kg x 0,5 m/1 m	DIN60005, white	1400 kg		
900367	Single-use sling 30 mm x 1400 kg x 0,75 m/1,5 m	DIN60005, white	1400 kg		
900368	Single-use sling 30 mm x 1400 kg x 1 m/2 m	DIN60005, white	1400 kg		
900369	Single-use sling 30 mm x 1400 kg x 1,5 m/3 m	DIN60005, white	1400 kg		
900370	Single-use sling 30 mm x 1400 kg x 2 m/4 m	DIN60005, white	1400 kg		
900371	Single-use sling 50 mm x 2000 kg x 1 m/2 m	DIN60005, green	2000 kg		
900372	Single-use sling 50 mm x 2000 kg x 1,5 m/3 m	DIN60005, green	2000 kg		
900373	Single-use sling 50 mm x 2000 kg x 2 m/4 m	DIN60005, green	2000 kg		



APPLICATION IMAGE



TRANSPORT ANCHOR SYSTEM

Transport anchors and transport anchor screws – The safe load-handling system

The quality-Steel load-handling device is used to safely and easily lift wooden components of all kinds. The transport anchors of the up to 1.3 t load group may only ever be used with the Eurotec transport anchor screws Ø 11 x 125 mm and Ø 11 x 160 mm. The Eurotec transport anchor screws may only be used once. They are to be screwed into solid wood (soft wood), laminated veneer timber, laminated timber, cross-laminated timber, dowellam and squared timber without pre-drilling. Use in hardwood is not permitted. The possible or permissible installation positions can be found in our operating instructions. We will be happy to supply them to you.



Art. no.	Dimensions [mm] ^{a)}	Max. load capacity [kg] ^{b)}	PU*
110361	190 x 70	1300	2

TO NOTE

Transport anchor screws may only be used once.

- · Screw in the screws without pre-drilling.
- · Read the operating instructions in detail before use.
- · Users must be trained before first operating the device.
- · Transport anchors must be inspected for damage before every use and discarded, if necessary.
- · The load of the component to be lifted must not exceed the permissible value.
- · Min. of 2 fastening points per component to be lifted.

Permissible lifting load ^{a)} per fastening point ^{b)}							
	$\gamma^{\rm cl}$ $lpha^{\rm dl}$ 11 x 125 mm 11 x 160 mm						
Axial pull	60°	60°	533 kg	603 kg			
AXIQI PUII	60°	30°	409 kg	462 kg			
Diagonal will	60°	90°	462 kg	522 kg			
Diagonal pull	60°	0°	139 kg	157 kg			

a) Design in accordance with ETA-11/0024 with the bulk density ρ_i = 350 kg/m³; k_{mod} = 0.9; γ_u = 1.3; γ_c = 1.35; g = 9.81 m/s² and the dynamic factor ϕ_z = 1.16. All stated mechanical values must be considered as dependent on the assumptions made and represent design examples. All values are calculated minimum values and subject to typesetting and printing errors.

b) At least 2 legs must be provided for each component to be lifted. Each leg leads to exactly one fastening point. If more than 2 legs are attached, only 2 anchor points may be assumed to be load-bearing, unless an even load distribution, for example by means of a balancing rocker, to other legs is ensured or if an uneven load distribution does not exceed the permissible load of the individual legs.

c) γ - Tilt angle of the leg (chain, rope, lifting belt, etc.) at least 60° according to BGR 500

d) α - Angle between the direction of the grain and the screw axis

Attention: These are planning aids. The projects must always be designed by authorised persons.

b) The maximum load capacities apply to the anchor only. For the maximum values, including screw, please refer to the following table *Screws must be ordered separately

Transport anchor screw

Quality Steel, with AG tip, specially coated specially coated



Art. no.	Dimensions [mm]	Drive	PU
110359	11 x 125	SW17	20
110360	11 x 160	SW17	20
110371	11,0 x 200	SW17	20
110372	11,0 x 250	SW17	20
110373	11,0 x 300	SW17	20





APPLICATION IMAGE



Transport anchor system for safe transports.

PRESS-IN NUT

The M12/M16 press-in nut is a high-quality fastening solution for applications that require a stable internal thread. It is made of Steel or stainless Steel and offers a high load-bearing capacity. The nut can easily be inserted into pre-drilled holes in the timber and, with its galvanised surface, ensures additional corrosion protection, whereby its service life is extended.



Art. no.	Load class [t]	Diameter [mm]	Thread [dxh]	Weight [kg]	PU
111420	0,5	60 x 3	M12	0,068	50
111421	1,2	60 x 3	M16	0,074	50

1

Notes

For special requirements or other materials, there are individual solutions available. Contact us if you have special requirements or for tailor-made offers.

ADVANTAGES / SPECIFICATIONS

- Easy to install: Quick and easy installation by hammering into the component.
- Corrosion protection: The galvanised design protects against rust tand increases the nut's service life.
- · Compatibility: M12/M16
- · Field of application: Suitable for use in timber.
- · Use: Single use

ROPE LOOP

The rope loop for drive-in nuts is a durable fastening element made of high-quality, corrosion-resistant Steel. It is characterised by a high tensile strength and ensures safe load handling even under high loads. Installation is quick and uncomplicated, as it is compatible with many common drive-in nuts. Particularly in the construction industry, the rope loop is ideal for applications where long-term stability and reliable fastenings are required.



Art. no.	Load class [t]	Height [mm]	Thread [dxh]	Weight [kg]	PU
111423	0,5	500	M12 x 22	0,164	1
111424	1,2	500	M16 x 27	0,313	1

ADVANTAGES / SPECIFICATIONS

- Easy to install: Quick and easy to install thanks to the metric thread.
- Compatibility: Fits M12 & M16
- The maximum load capacity is clearly stated, so that users can be sure to choose the loop for their specific applications.
- Use: Multiple use is possible (after testing)-



HOW THE SYSTEM WORKS:

- 1. Drill a pilot hole through the prefabricated part for M12/16mm, M16/19mm
- 2. Insert the press-in nut into the pre-drilled hole and drive it in
- 3. Screw in the WBS screws
- 4. The rope loop is guided through the pre-drilled hole.
- ${f 5.}$ Screw the threaded eyelet into the drive-in nut until the thread has been completely screwed ${f in}$
- 6. Lift the load
- 7. Release the anchor

Note

If you are unfamiliar with the this product, in particular with regard to its intended use, please be sure to contact our application technology department (technik@eurotec.team).

More information can be found in the enclosed product datasheet.





ALSO TAKE A LOOK AT OUR OTHER CATALOGUES, LIKE THE CLT CATALOGUE!



POWERBLOCK TRANSPORT ANCHOR

The Powerblock 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 Powerblock delivers maximum safety and efficiency for a wide range of lifting operations. Thanks to its versatile installation configurations, the Powerblock can be flexibly adjusted to your requirements. It can, for example, be attached to the end faces of CLT walls, the wide surface of CLT panels or the top side of beams. This makes the Powerblock a reliable tool for the safe, cost-effective and fast assembly of wooden structures.



Art. no.	Name	Dimensions [mm] ^{a)}	Material	Thread [dxh]	PU
110380	Powerblock M	190 x 80 x 20	Steel - S235JR	M14	1
110381	Powerblock L	300 x 80 x 30	Steel - S355JR	M24	1
a) Length x Width x Height					



SUITABLE SLING SWIVELS:

Art. no.	Name	Max. load capacity [kg]	PU
110387	Sling swivel M14	1120/2240	1
110389	Sling swivel M24	3150/6300	1

APPLICATION IMAGE



SUITABLE SCREWS:

KONSTRUX:

Art. no.	Dimensions [mm]	Drive	PU
904771	10,0 x 155	TX50 ◆	25
904773	10,0 x 220	TX50 •	25
904776	10,0 x 300	TX50 ◆	25

ANGLE-BRACKET SCREW:

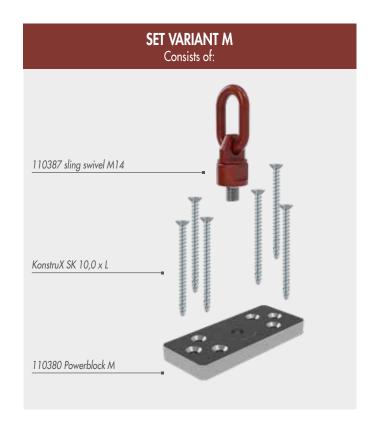
Art. no.	Dimensions [mm]	Drive	PU
945344	5,0 x 60	TX20 •	250

APPLICATIONS:

- \cdot Wall or floor panels made of CLT, can also be used on end faces
- \cdot Solid wood and glued laminated timber beams
- · Prefabricated walls with a timber frame construction
- · Prefabricated modular structures

IMPORTANT SPECIFICATIONS:

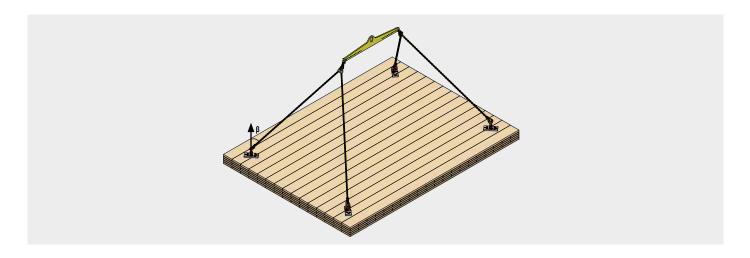
- · Load capacity: up to 6.3 t per fastening point
- Reusable: visually inspect before each use and conduct an annual inspection according to DGUV 109-017
- · Several different possible installation options depending on the application
- · The sling swivels can rotate freely, allowing them to automatically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





TECHNICAL DATA:

POWERBLOCK M MAXIMUM LOAD CAPACITY (CLT FLOOR):

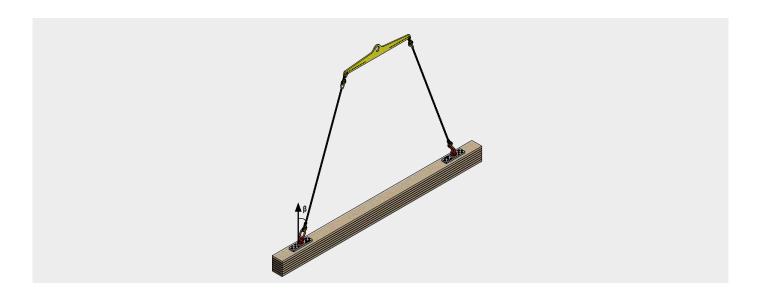


KonstruX	CLT thickness	Screw layout	Dynamic		Load cap	acity [kg]	
D [mm] L [mm]	[mm]		factor	ß = 0°	0° < fl < 30°	30° < ß < 45°	45° < B < 60°
10 155		1 □ ◎ \$\bar{\Pi} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,2	1403	773	500	301
			1,9	886	488	315	190
		4	1,2	2240	1120	994	602
904771 KonstruX SK 10 x 155 mm	KonstruX SK 10 x 155 mm	1,9	1710	965	628	380	
		1,2	2240	1120	1120	903	
			1,9	2240	1120	942	570
10 220		1 0 7 0	1,2	2079	846	518	305
			1,9	1313	534	327	193
		4	1,2	2240	1120	1033	610
904773 KonstruX SK 10 x 220 mm		1,9	2240	1062	652	385	
	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,2	2240	1120	1120	915	
			1,9	2240	1120	979	578

CLT WALL:



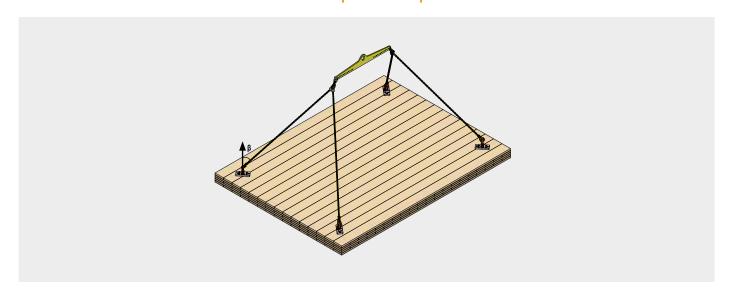
KonstruX	Screw layout	Dynamic factor		Load cap	oacity [kg]	
D [mm] L [mm]	Screw Idyour	Dynamic racion	ß = 0°	0° < f3 < 30°	30° < ß < 45°	45° < ß < 60°
10 155		1,2	943	515	332	200
904771	◎ " () () ()	1,9	595	325	210	126
KonstruX SK 10 x 155 mm	4 ©	1,2	1819	1018	661	399
		1,9	1149	643	417	252
10 220	2	1,2	1343	558	343	202
904773		1,9	848	353	216	128
KonstruX SK 10 x 220 mm	4 © " 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,2	2240	1110	684	404
		1,9	1636	707	432	255
10 270	1	1,2	1642	575	347	203
904775		1037	363	219	128	193
KonstruX SK 10 x 270 mm	4 ©	1,2	2240	1120	692	406
		1,9	2000	723	437	256



KonstruX	Screw layout	Dynamic factor		Load cap	acity [kg]	
D [mm] L [mm]		Dynamic racion	ß = 0°	0° < ß < 30°	30° < fl < 45°	45° < ß < 60°
10 155		1,2	1514	817	526	316
		1,9	^956	516	332	200
904771	4 © 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,2	2240	1120	1047	632
KonstruX SK 10 x 155 mm		1,9	1845	1021	661	399
	6	1,2	2240	1120	1570	948
		1,9	2240	1120	9920	599
10 220		1,2	2240	891	544	320
	© () () () () () () () () () (1,9	1417	563	343	202
904773	4 © 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,2	2240	1120	1085	640
904773 KonstruX SK 10 x 220 mm		1,9	2240	1120	685	404
	6	1,2	2240	1120	1120	960
		1,9	2240	1120	1028	606

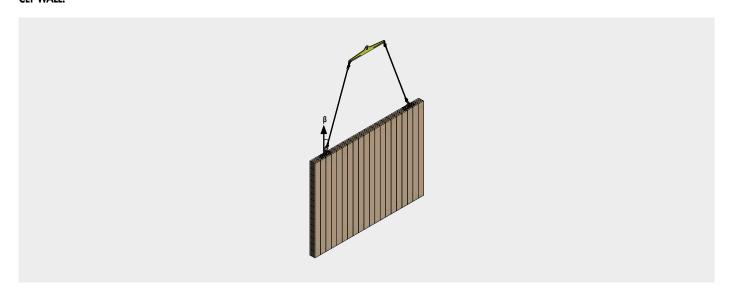
TECHNICAL DATA:

POWERBLOCK M MAXIMUM LOAD CAPACITY (CLT FLOOR):



KonstruX	CLT thickness	Screw layout D	Dynamic factor		Load cap	acity [kg]	
D [mm] L [mm]	[mm]	Sciew luyoui	Dynamic racion	ß = 0°	0° < fl < 30°	30° < ß < 45°	45° < B < 60°
10 155			1,2	4060	2293	1492	903
904771		12	1,9	2564	1448	942	570
KonstruX SK 10 x 155 mm	140-190		1,2	6300	3150	2983	1805
			1,9	5129	2896	1884	1140
10 220			1,2	6015	2522	1550	915
904773	010.000		1,9	3799	1593	979	578
KonstruX SK 10 x 220 mm	210-280	12	1,2	6300	3150	3099	1830
			1,9	6300	3150	1957	1156

CLT WALL:



KonstruX	Screw layout	Dynamic factor		Load cap	acity [kg]	
D [mm] L [mm]	Screw luyuur	Dynamic racion	ß = 0°	0° < fs < 30°	30° < ß < 45°	45° < ß < 60°
10 155	4	1,2	1819	1018	661	399
904771		1,9	1149	643	417	252
KonstruX SK 10 x 155 mm		1,2	3638	2036	1321	799
		1,9	2297	1286	834	504
10 220	4	1,2	2591	1110	684	404
904773		1,9	1636	701	432	255
KonstruX SK 10 x 220 mm	8	1,2	5181	2219	1368	809
		1,9	3272	1402	864	511
10 270	4	1,2	3167	1145	692	406
904775		1,9	2000	723	437	256
KonstruX SK 10 x 270 mm	8	1,2	6300	2290	1384	812
		1,9	4000	1446	874	513

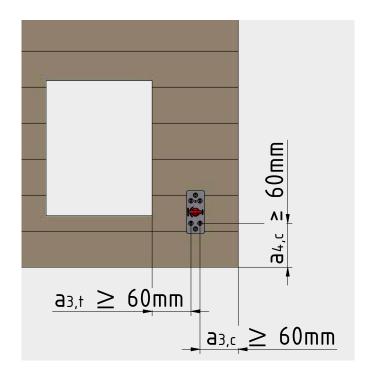


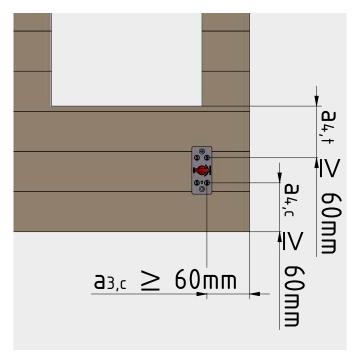
Kons	struX	Screw layout	Dynamic factor	Dynamic factor Load capacity [kg]				
D [mm]	L[mm]	Screw luyooi	Dynamic racion	ß = 0°	0° < fl < 30°	30° < ß < 45°	45° < f3 < 60°	
10	155		1,2	4382	2426	1570	948	
	4771		1,9	2768	1532	992	599	
	truX SK 155 mm	12	1,2	6300	3150	3140	1896	
				5535	3064	1983	1197	
10	220		1,2	6300	2657	1628	960	
	4773		1,9	4100	1678	1028	606	
Konst 10 x 2	truX SK 220 mm	12	1,2	6300	3150	3150	1920	
			1,9	6300	3150	2056	1213	

MINIMUM DISTANCES FOR THE INSTALLATION:

POWERBLOCK M

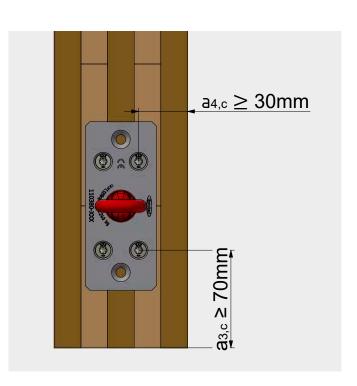
CLT FLOOR:



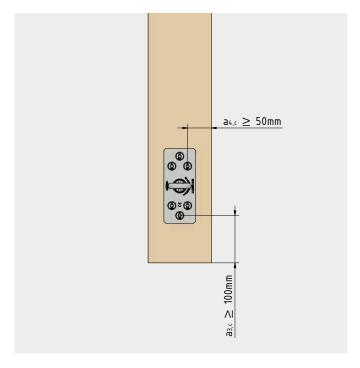


CLT WALL:



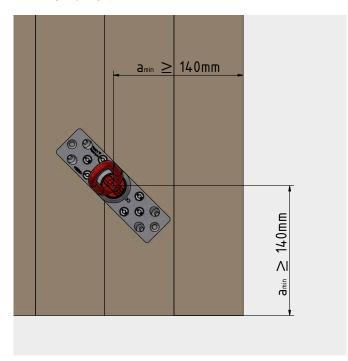




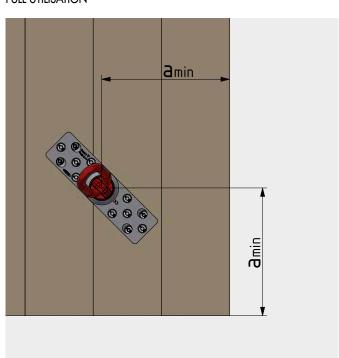


POWERBLOCK L CLT WALL:

PARTIAL UTILISATION



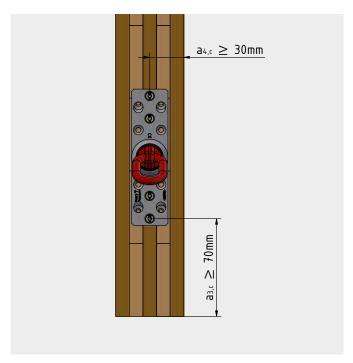
FULL UTILISATION



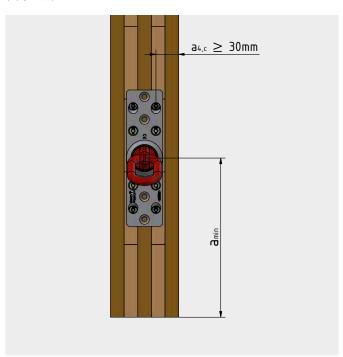
	a mir	a min [mm]				
KonstruX screw d x L [mm x mm]						
904771 KonstruX SK 10 x 155 mm		220				
904773 KonstruX SK 10 x 220 mm	140	240				
904775 KonstruX SK 10 x 270 mm		260				

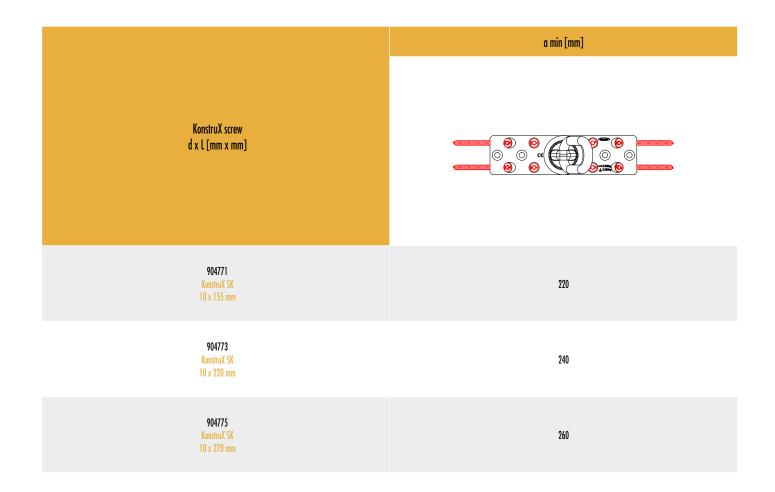
CLT WALL:

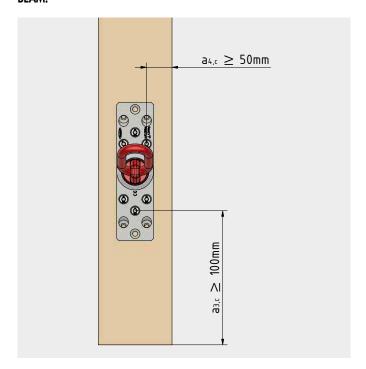
4 SCREWS

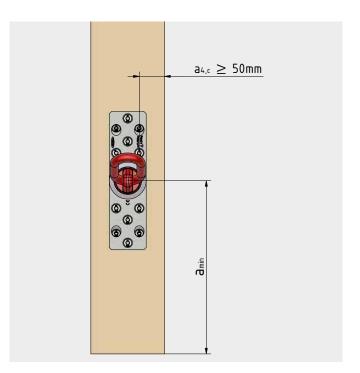


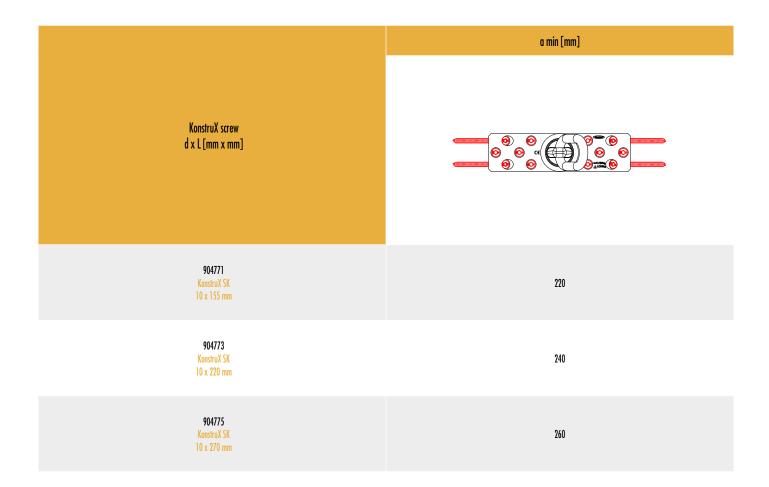
8 SCREWS



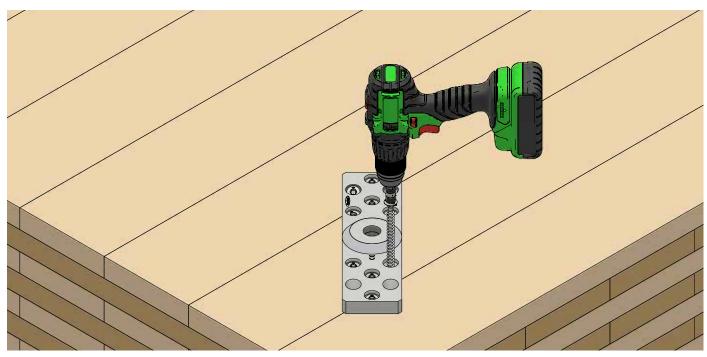




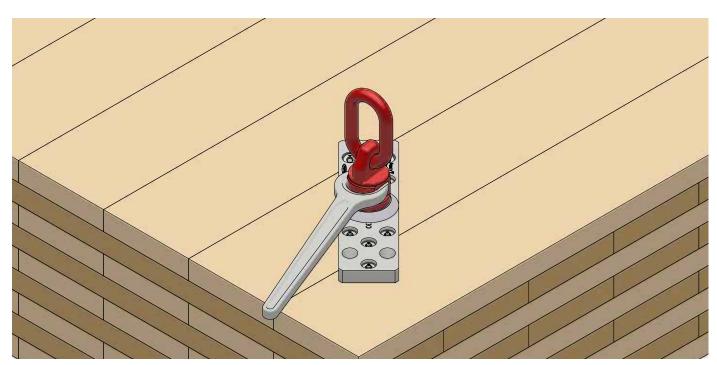




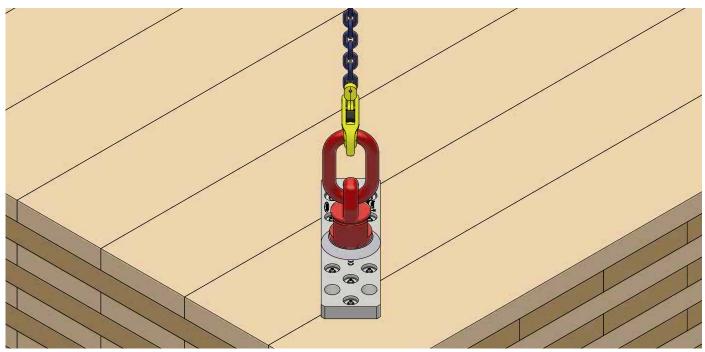
ASSEMBLY INSTRUCTIONS:



Step 1: Screw in the appropriate KonstruX screws depending on the configuration (see technical data).



Step 2: Screw in and tighten the sling swivels.



Step 3: Hook the power block at the predetermined angle (see technical data) and lift.



POWERRING TRANSPORT ANCHOR

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.



Art. no.	Name	External dimensions [mm]	Material	Thread [dxh]	PU
110382	Powerring S	Ø 100 x 18	Stahl - S235JR	M12	1
110383	Powerring M	Ø 110 x 20	Stahl - S235JR	M14	1
110384	Powerring XL	Ø 130 x 30	Stahl - S235JR	M24	1

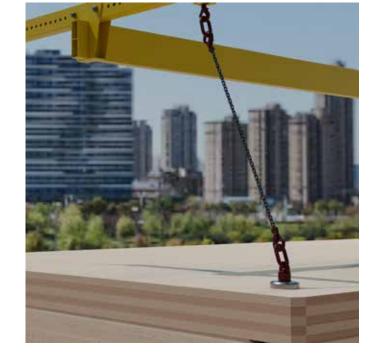


SUITABLE SLING SWIVELS:

Art. no.	Name	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

APPLICATION IMAGE





Powerring transport anchor in use.

SUITABLE SCREWS:

ANGLE-BRACKET SCREW:

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

KONSTRUX:

Art. no.	Dimensions [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

APPLICATIONS:

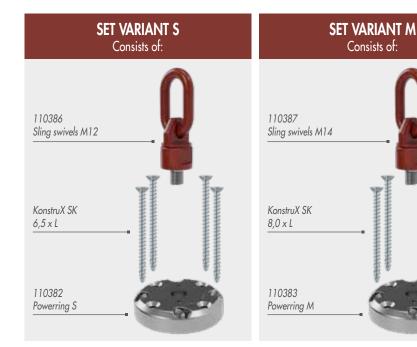
- · Wall or floor panels made of CLT,+can also be used on end faces
- · Solid wood and glued laminated timber beams
- · Prefabricated walls with a timber frame construction
- · Prefabricated modular structures

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
- \cdot Several different possible installation options depending on the application
- The sling swivels can rotate freely, allowing them to automatically adjust to the direction of pull.

SEVERAL DIFFERENT INSTALLATION OPTIONS DEPENDING ON THE APPLICATION:

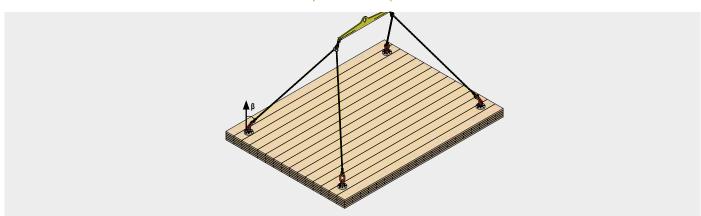
- 1. 8 combined screws (full capacity): maximum load capacity when using vertical and oblique screws
- **2.** 4 screws inclined by 90° (partial utilisation): optimised for lifting lighter or slimmer components with vertical ropes ($\beta = 0^{\circ}$)
- 3. 4 screws inclined by 45° (partial utilisation):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



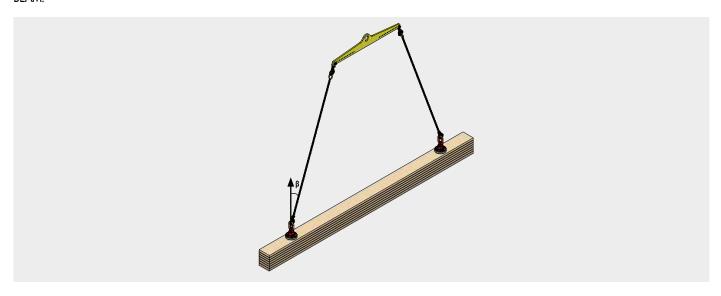


TECHNICAL DATA:

MAXIMUM LOAD CAPACITY POWERRING S (CLT-FLOOR):



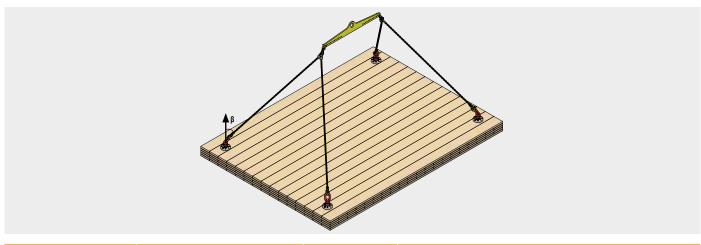
CLT thickness	Powerring configuration S	Dynamic factor	Load capacity [kg]			
CEI IIICKIIG33	904858 Konstrux SK 6,5 x 100 mm	Dynamic racion	ß = 0°	0° < fl < 30°	30° < ß < 45°	45° < ß < 60°
	45°	1,2	1000	500	500	411
		1,9	643	500	391	260
70.100	90°	1,2	1000	500	500	317
		1,9	909	500	331	200
	90°+45°	1,2	1000	500	500	500
		1,9	1000	500	500	467



Powerring S	Powerring configuration S	Dynamic factor		Load cap	acity [kg]	
Towering 5	Towering configuration 5	Dynamic racion	ß = 0°	0° < fl < 30°	30° < ß < 45°	45° < fl < 60°
	904857	1,2	1000	500	500	328
	KonstruX SK 6,5 x 80	1,9	742	487	333	207
90°	904858	1,2	1000	500	500	333
	KonstruX SK 6,5 x 100	1,9	982	500	349	210
	904860	1,2	1000	500	500	337
	KonstruX SK 6,5 x 140	1,9	1000	500	361	213

TECHNICAL DATA:

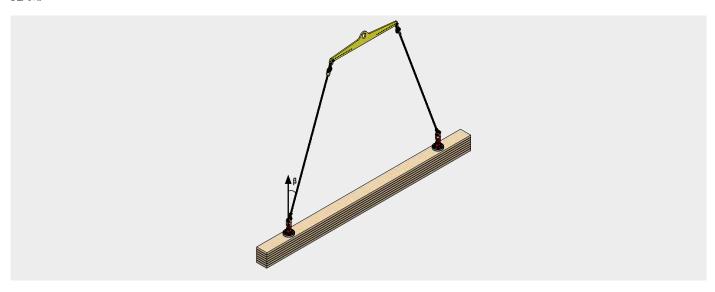
MAXIMUM LOAD CAPACITY POWERRING M (CLT-FLOOR):



CLT thickness	Powerring configuration M	Dynamic factor		acity [kg]		
	904792 Konstrux SK 8,0 x 155 mm	Dynamic racio:	₿ = 0°	0° < ß < 30°	30° < ß < 45°	45° < B < 60°
1102190	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	Dynamic factor		Load cap	acity [kg]	
CLI IIIICKIIG55	904794 Konstrux SK 8,0 x 220 mm	Dynamic racion	ß = 0°	0° < f3 < 30°	30° < ß < 45°	45° < B < 60°
12020	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

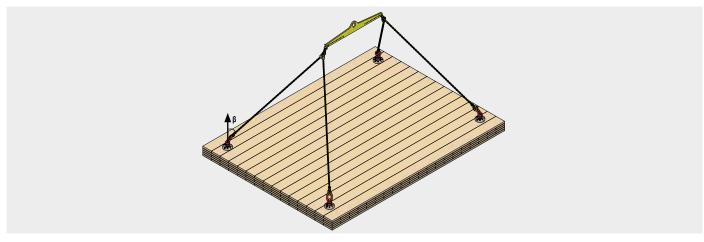
CLT thickness	Powerring configuration M	Dynamic factor	Load capacity [kg]				
CEI IIICRIOSS	904797 Konstrux SK 8,0 x 295 mm	Dynamic racion	ß = 0°	0° < B < 30°	30° < fl < 45°	45° < f3 < 60°	
12802380	45°	1,2	2240	1120	1120	1085	
		1,9	1946	1120	1062	685	
	90°	1,2	2240	1120	768	448	
		1,9	2240	815	485	283	
	90°+45°	1,2	2240	1120	1120	1120	
		1,9	2240	1120	1120	994	



Powerring M	Powerring configuration M	Dynamic factor		Load cap	acity [kg]	
1 Owerring in	roworning configuration in	Dynamic racion	ß = 0°	0° < fl < 30°	30° < fl < 45°	45° < f3 < 60°
90°	904792	1,2	2240	1120	780	465
	KonstruX SK 8 x 155	1,9	1604	782	492	294
	904794	1,2	2240	1120	800	469
	KonstruX SK 8 x 220	1,9	2240	839	506	296
	904797	1,2	2240	1120	805	470
	KonstruX SK 8 x 295	1,9	2240	852	509	297

TECHNICAL DATA:

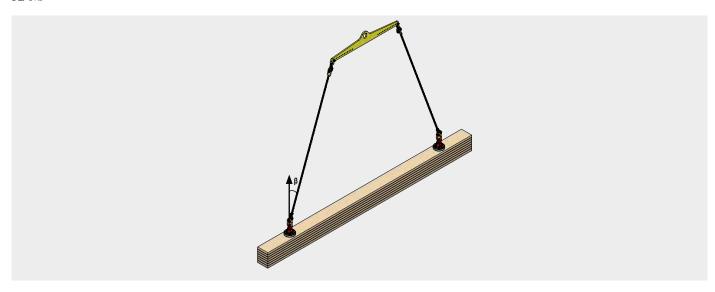
MAXIMUM LOAD CAPACITY POWERRING XL (CLT-FLOOR):



CLT thickness	Powerring configuration XL	Dynamic factor		Load capacity [kg]			
CLI IIICKII033	904771 Konstrux SK 10,0 x 155 mm	Dynamic racion	ß = 0°	0° < f3 < 30°	30° < B < 45°	45° < ß < 60°	
149.199	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	

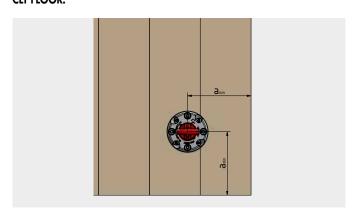
CLT thickness	Powerring configuration XL	Dynamic factor	Load capacity [kg]				
CLI IIIICKIIO33	904773 Konstrux SK 10,0 x 220 mm	Januaria racion	ß = 0°	0° < fs < 30°	30° < ß < 45°	45° < f3 < 60°	
12020	45°	1,2	2693	2084	1553	1016	
		1,9	1701	1316	981	642	
	90°	1,2	3809	1665	1029	609	
		1,9	2405	1052	650	385	
	90°+45°	1,2	6300	3150	2701	1658	
		1,9	4106	2547	1706	1047	

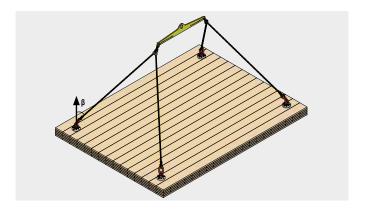
CLT thickness	Powerring configuration XL	Dynamic factor	Dynamic factor Load capacity [kg]				
CLI IIIICKII033	904776 Konstrux SK 10,0 x 300 mm	Dynamic racion	B = 0°	0° < fl < 30°	30° < fl < 45°	45° < 18 < 60°	
1200380	45°	1,2	3827	2883	2111	1365	
		1,9	2417	1821	1333	862	
	90°	1,2	5412	1752	1049	613	
		1,9	3418	1107	662	387	
	90°+45°	1,2	6300	3150	3150	2027	
		1,9	5835	3150	2118	1280	



Powerring XL	Powerring configuration XL	Dynamic factor		Load capacity [kg]			
TOWOTTING AL	Towaring configuration AL	1,2 1,9	ß = 0°	0° < fs < 30°	30° < fl < 45°	45° < fl < 60°	
90°	904771	1,2	2704	1577	1036	630	
	KonstruX SK 10 x 155 mm	1,9	1708	996	654	398	
	904773	1,2	4110	1756	1082	640	
	KonstruX SK 10 x 220 mm	1,9	2596	1109	683	404	
	904775	1,2	5752	1840	1101	643	
	KonstruX SK 10 x 270 mm	1,9	3633	1162	695	406	

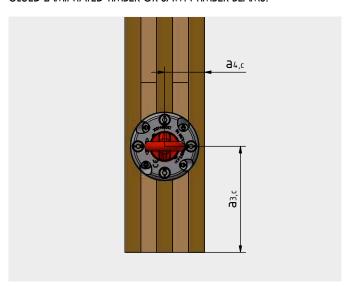
MINIMUM DISTANCES FOR THE INSTALLATION CLT FLOOR:

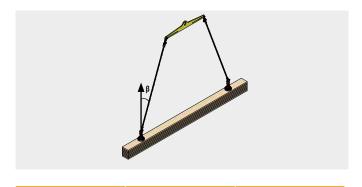




Powerring size	KonstruX-Screw d x L [mm x mm]	a min	[mm]
Towerring Size	KONSHOV-SCIEW A Y F [HIIII Y HIIII]	90°	45° + 90° or 45°
	904771 KonstruX SK 10 x 155 mm		100
XL	904773 KonstruX SK 10 x 220 mm	110	140
	904776 KonstruX SK 10 x 300 mm		200
	904792 KonstruX SK 8 x 155 mm		90
М	904794 KonstruX SK 8 x 220 mm	90	140
	904797 KonstruX SK 8 x 295 mm		190
\$	904858 KonstruX SK 6,5 x 100 mm	75	75

GLUED LAMINTATED TIMBER OR SAWN TIMBER BEAMS:

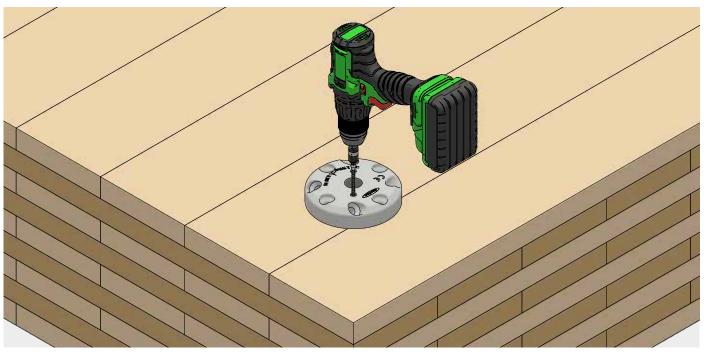




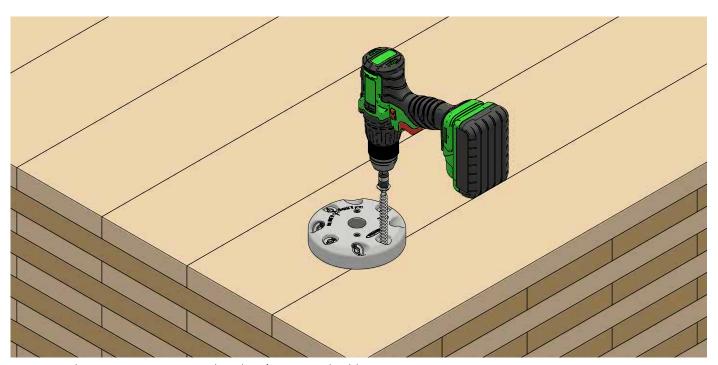
Powerring size	a 4,c [mm]	a 3,c [mm]
XL	50	100
M	40	80
\$	35	65

Eurotec | Timber engineering

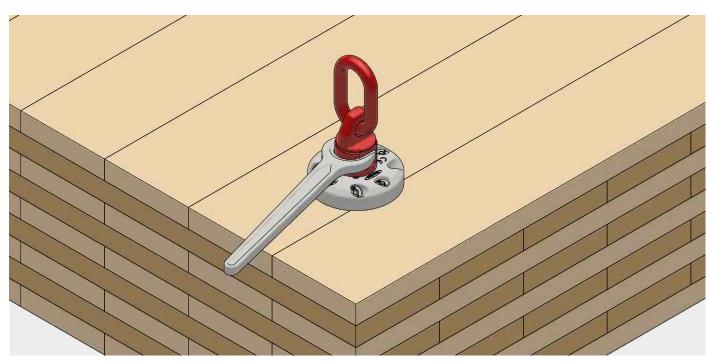
ASSEMBLY INSTRUCTIONS



Step 1: Position the Powerring correctly, observing the minimum distances, and fasten it with the appropriate screws (angle-bracket screw).



Step 2: Screw in the appropriate KonstruX screws according to the configuration (see technical data).



Step 3: Screw in and tighten the sling swivels.



Step 4: Hook in the Powerring at the predetermined angle (see technical data) and lift.

TRILIFT

The Trilift lifting anchor is a transport solution that has been specially developed for anchoring slim 80 mm CLT elements that can still move heavy loads. The Trilift makes use of the high pull-out resistance of the KonstruX fully threaded screw and is designed in such a way that centre and edge distances are maintained without any problems. An eye bolt (not included in the scope of delivery) can be easily and securely screwed into the M27 internal thread. The set contains both the anchor and all the necessary screws.



Art. no.	Dimensions [mm] ⁰⁾	Material	Max. load capacity [kg]	PU
954189	150 x 60 x 50	Steel - S235JR	1590	1
a) Length x Width x Height				

ADVANTAGES / SPECIFICATIONS

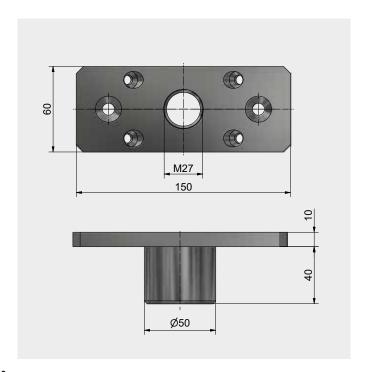
- · Trouble-free operation with wall or component thicknesses of 80 mm or more.
- · High force absorption despite the small installation space.
- · Easy preparation of the component during timber frame construction.
- · Easy to assemble insert, screw in the screws and you're done.
- · Flush with the component edge, which allows it to remain inserted.

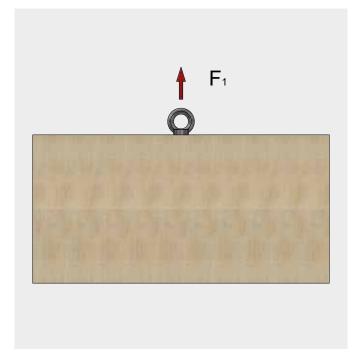
CONTENTS

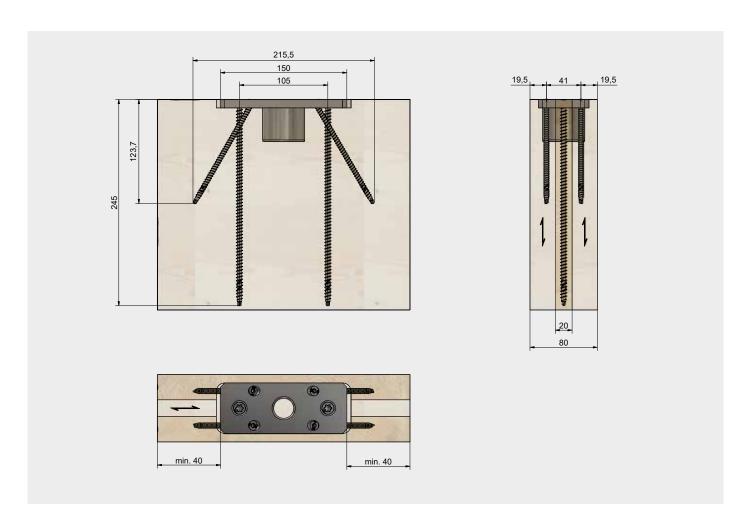
- · 1x transport anchor cylinder
- · 4x KonstruX ST SK Ø 6.5 x 140
- · 2x KonstruX ST SK Ø 8 x 245

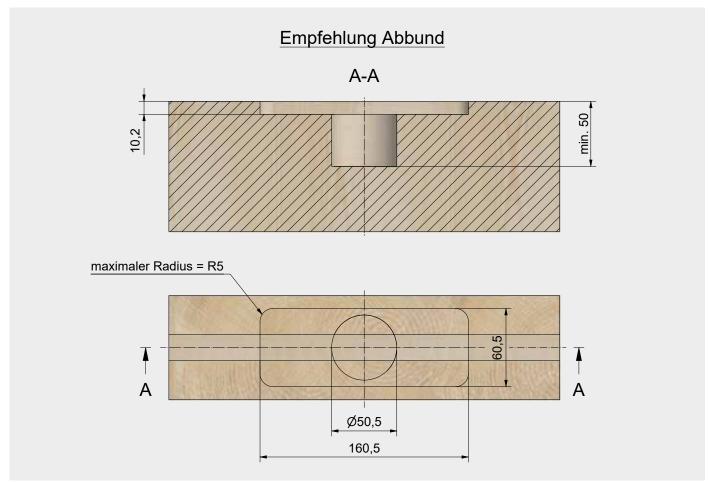


The eyebolt for the M27 internal thread is not included in the scope of delivery.









TRILIFT LIFTING ANCHOR

Note

The tables depict the load case "Raising a horizontal wall or a horizontal beam and then lifting it" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed into the components' central plane, so that they sit flush and at right angles to the surfaces of the narrow sides and lateral or end-grain surfaces.

TECHNICAL INFORMATION

CLT PANEL WALL - RAISING

CLT panel wall — raising							
Fastening point	Screw image and	installation angle	Stop angle	Total load bearing capacity [kg]			
	90°	30°	В	with 2 legs			
			45°	1106			
	0 V . V	6 x KonstruX	60°	1292			
Narrow-edged front side	2 x KonstruX 8 x 245 mm		75°	2200			
· ·	O X 24J IIIIII	6,5 x 140 mm	В	with n legs			
			90°	n x 1590			

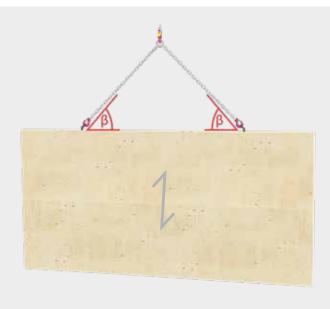
INFO:

- · The values shown are an example calculation and must be individually checked for each case. If you have any questions, please contact our technical department (technik@eurotec.team).
- · The design table values were calculated taking into account the expert's report "Load-bearing capacity of connections with Eurotec transport anchors -2020" by H. J. Blaß, DIN standard EN 1995-1-1 and ETA-11/0024.
- · For the raising and lifting phases of the rigging process, only the corresponding design tables have to be taken into account.
- · The following were used as characteristic wood densities: ρ_k = 350 kg/m³

(C24) for the CLT panels and ρ_{L} = 385 kg/m³

(GL24h) for the laminated timber elements. For components with higher wood densities, the specified values can be estimated

- The load capacities take into account a pair of KonstruX 8 x 245 mm screws, which are installed perpendicular to the direction of the grain, and six KonstruX 6 x 140 mm screws, which are installed at a 30° angle to the direction of the grain.
- A dynamic coefficient of $\phi = 2.0$ and a partial safety factor of y = 1.35 were used. For other ϕ values, the table values must be multiplied by $2.0/\phi$.
- · A modification factor $k_{mod} = 1.0$ and a partial safety coefficient for wood of $\gamma_N = 1.3$ were used. · The minimum thickness of the CLT and laminated timber beams to be used with the connector is 100 mm.
- · The minimum distance between the connectors' edges parallel to the component plane is 200 mm.
- The connector's cylindrical part must be fully inserted into the wooden component, and the screws must be attached so that they are flush with the connector plate's surface.
- · The use of a rubber hammer to assist assembly is permitted.
- · The transverse tensile reinforcement required for lifting depends on each individual case and must be determined by the manufacturer of the component to be lifted or by an authorised specialist.



TRILIFT LIFTING ANCHOR

TECHNICAL DATA:

SUPPORT OR BEAM MADE OF LAMINATED TIMBER - RAISING

	Supp	ort or beam made of laminated timber	r — raising	
Fastening point	Screw image and i	nstallation angle	Stop angle	Total load bearing capacity [kg]
•	90°	30°	В	with 2 legs
			45°	1305
			60°	1686
Narrow-edged front side		6x KonstruX 6,5 x 140 mm	75°	2555
			В	with n legs
			90°	n x 1590
	2x KonstruX 8 x 245 mm		Stop angle	Total load bearing capacity [kg]
	U A ZTJ IIIIII	0,3 X 170 IIIII	В	with 2 legs
End-grain surface			45°	1142
Liiu-giuiii soriuce			60°	1516
			75°	2055
			В	with n legs
			90°	n x 1170

INFO:

- · The values shown are an example calculation and must be individually checked for each case. If you have any questions, please contact our technical department (technik@eurotec.team).
- · The design table values were calculated taking into account the expert's report "Load-bearing capacity of connections with Eurotec transport anchors -2020" by H. J. Blaß, DIN standard EN 1995-1-1 and ETA-11/0024.
- · For the raising and lifting phases of the rigging process, only the corresponding design tables have to be taken into account.
- · The following were used as characteristic wood densities: ρ_L= 350 kg/m³

(C24) for the CLT panels and $\rho_{\rm L}$ = 385 kg/m³

(GL24h) for the laminated timber elements. For components with higher wood densities, the specified values can be estimated conservatively.

- The load capacities take into account a pair of KonstruX 8 x 245 mm screws, which are installed perpendicular to the direction of the grain, and six KonstruX 6 x 140 mm screws, which are installed at a 30° angle to the direction of the grain.
- · A dynamic coefficient of $\varphi = 2.0$ and a partial safety factor of y = 1.35 were used. For other φ values, the table values must be multiplied by $2.0/\varphi$.
- · A modification factor $k_{mod} = 1.0$ and a partial safety coefficient for wood of $\gamma_M = 1.3$ were used. · The minimum thickness of the CLT and laminated timber beams to be used with the connector is 100 mm.
- · The minimum distance between the connectors' edges parallel to the component plane is 200 mm.
- The connector's cylindrical part must be fully inserted into the wooden component, and the screws must be attached so that they are flush with the connector plate's surface.
- · The use of a rubber hammer to assist assembly is permitted.
- · The transverse tensile reinforcement required for lifting depends on each individual case and must be determined by the manufacturer of the component to be lifted or by an authorised



The tables depict the load case "Raising a horizontal wall or a horizontal beam and then lifting it" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed into the components' central plane, so that they sit flush and at right angles to the surfaces of the narrow sides and lateral or end-grain surfaces.

LIFTING ANCHOR HEBEFIX AND BALL SUPPORTING BOLT

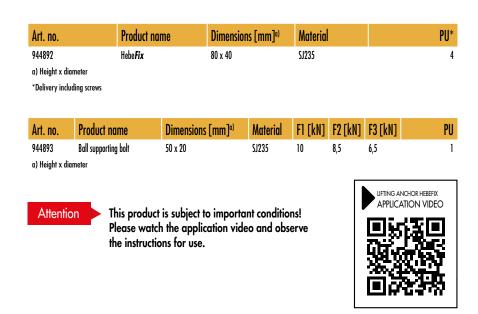
For transporting prefabricated wall modules

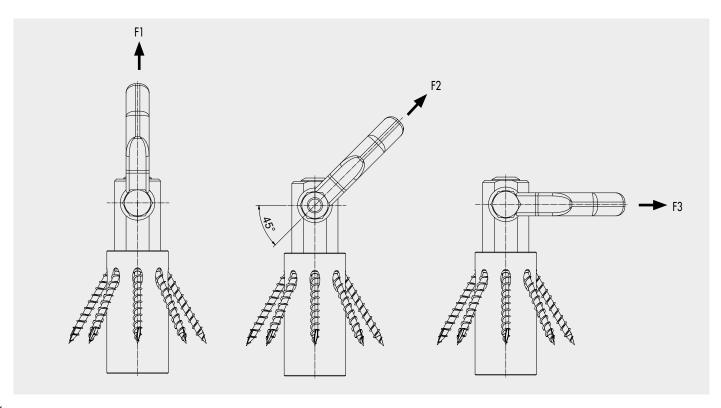


The HebeFix has been specially designed for use with a ball supporting bolt. The HebeFix can be used to transport prefabricated wall modules. Thanks to the use of screws, the anchor can be used multiple times. There are 8 screws included in delivery.

The product only works in combination with the intended ball supporting bolt Ø 20 mm, length 50 mm. The specifications of the product data sheet must be fully complied with! Please consult our technology department and download the product data sheet from our www.eurotec.team website.









Independent shank alignment in the direction of the force.

APPLICATION IMAGE



Application HebeFix for transporting a wall.

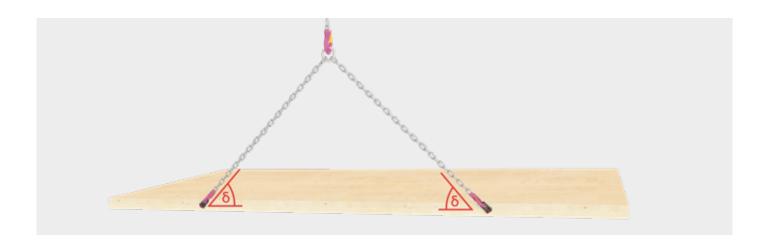
LIFTING ANCHOR HEBEFIX

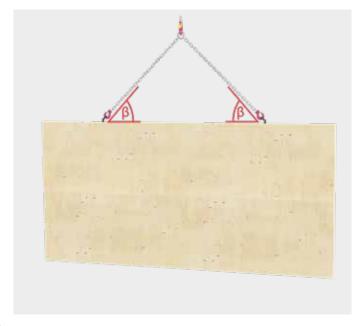


TECHNICAL DATA:

Wall or beam horizontal: raise, then lift

CLT wall or beam						
Connection in the	Connector [mm]	Stop angle β	Total weight [kg] for 2 legs			
		30°	444			
		45°	528			
End avain surface	Haba Fire (140 + 9 v VCC 4 v 40	60°	569			
End-grain surface	Hebe Fix Ø 40 + 8 x VSS 6 x 60	75°	588			
		β	with n legs			
		90°	n x 297			





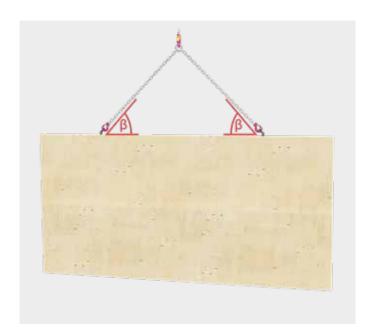
Note

The tables show the load case "Bringing a horizontal wall or a horizontal beam into a vertical position and then lifting it" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed into the components' central plane, so that they sit flush and at right angles to the surfaces of the narrow sides and lateral or end-grain surfaces.

TECHNICAL DATA:

HORIZONTAL WALL OR BEAM: SET UPRIGHT, THEN LIFT

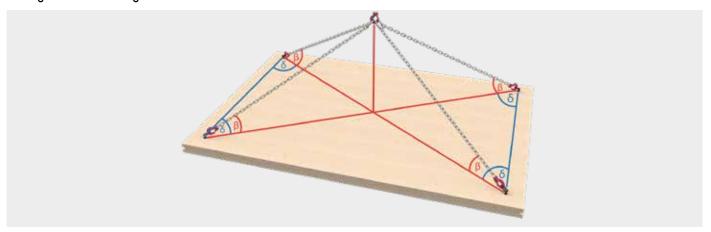
CLT wall or beam						
Connection in the	Connector [mm]	Stop angle β	Total weight [kg] for 2 legs			
		30°	601			
		45°	886			
[]:	U.b. Fin (140 . 0 VCC / / 0	60°	1135			
End grain area	Hebe Fix Ø 40 + 8 x VSS 6 x 60	75°	1311			
		β	with n legs			
		90°	n x 688			



Note

The tables show the load case "Lifting a vertical wall or beam" (lifting from the horizontal to hanging in the vertical). The table values only apply to the lifting or assembly conditions.

Ceiling horizontal: lifting



CLT ceiling

(Table on the next page)

Attention: Check the assumptions that have been made. The specified values, type and number of connecting means represent a preliminary design. The projects must always be designed by authorised persons and in accordance with the state building regulations [LBau0]. Please contact a qualified structural engineer to obtain a proof of stability certificate in accordance with the state building regulations [LBau0] for a fee. We will be happy to put you in touch with someone.

Eurotec | Timber engineering

			CLT ceiling	
Connection in the	Connector [mm]	Stop angle	Layout angle	Total weight [kg]
Connection in the	connection in the	β	δ	with 4 legs
			5°	
			15°	1121
			25°	1015
		30°	35°	911
			45°	824
			60°	732
			75°	682
			5°	1762
			15°	1683
			25°	1559
		45°	35°	1429
			45°	1314
			60°	1187
			75°	1091
			5°	2262
			15°	2205
			25°	2108
		60°	35°	1995
	Uoho Eire		45°	1887
Lateral surface	Hebe Fix + 8 x VSS 6 x 60		60°	1756
	0 X V33 0 X 0U		75°	1649
		75°	5°	2620
			15°	2600
			25°	2564
			35°	2518
			45°	2469
			60°	2401
			75°	2339
		β	δ	with 2 legs
		200	0°	1203
		30°	90°	333
		450	0°	1773
		45°	90°	545
		(00	0°	2270
		60°	90°	824
		700	0°	2623
		75°	90°	1169
		β	δ	with n legs
		90°	0°	688

Note
The tables show the load case "Lifting horizontal ceiling elements" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed in flush with the surface and at a right angle to the component surface.



OPERATING INSTRUCTIONS BALL SUPPORTING BOLT

WARNING!

Ball supporting bolts are designed for lifting and holding individual loads (not people!). In addition, they are not suitable for continuous load rotation. Contaminations, e.g. grinding sludge, oil and emulsion deposits, dust, etc. can impair the ball supporting bolts' functionality.

Damaged ball supporting bolts can endanger lives. Before every use, the ball supporting bolts must be inspected for visible defects, e.g. deformations, breaks, cracks, damage, missing balls, corrosion, function of the unlocking mechanism. Damaged ball supporting bolts must be withdrawn from further use.



HANDLING AND LOADING

To release the balls, press the button (A). When the button (A) is released, the balls are locked again.

Attention: The button (A) is locked when the spring force has caused it to return to its original position. Do not press the button while it is under load!

The load values F1/F2/F3 (see below) apply to lifting applications with a Steel load-handling device and x min. = 1.5 mm.

MAINTENANCE

Ball supporting bolts must be subjected to a safety inspection by a competent person at least once a year.

VISUAL INSPECTION

Deformations, breaks, cracks, missing/damaged balls, corrosion, damage to the screw connection on the shackle.

FUNCTIONAL TEST

The balls' locking and unlocking mechanism must close automatically by spring force. Full shackle mobility is guaranteed.



d_1	l ₁	d_2	d_3	d ₄ min.	l ₂		I ₄	l ₅	l ₆	l ₇	I ₈	x min.*	x max.*	DHII	F, kN*	F ₂ kN*	F ₃ kN*
20,0	50	24,50	30,0	25,00	19,70	36,5	52,0	32,6	36	56	114,0	1,5	25	20,0	10,0	8,5	6,5
*With 5-fold :	protection again	nst breakaae															

Original EC conformity mark

The product complies with the provisions of EC Directive 2006/42/EC.

Make: Ball stud EH 22350 Туре: Applied standards: **DIN EN 13155**



Attention: Check the assumptions that have been made. The specified values, type and number of connecting means represent a preliminary design. The projects must always be designed by authorised persons and in accordance with the state building regulations [LBau0]. Please contact a qualified structural engineer to obtain a proof of stability certificate in accordance with the state building regulations [LBau0] for a fee. We will be happy to put you in touch with someone.

LIFTING ANCHOR HEBEFIX MINI AND BALL SUPPORTING BOLT



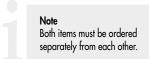
For transporting small elements

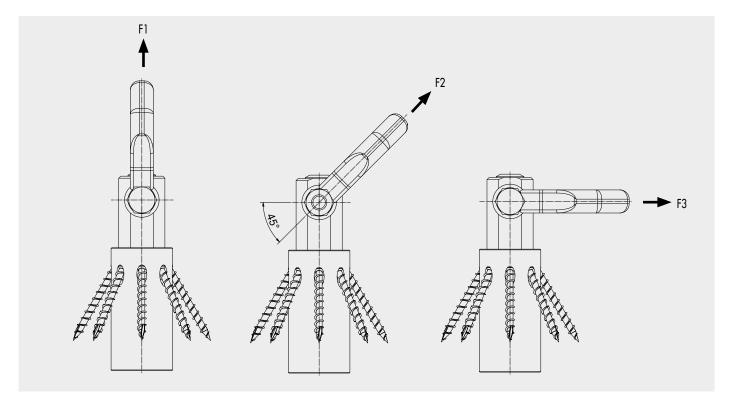
The HebeFix Mini is particularly suitable for transporting smaller loads, such as beams or supports. Since the inner diameter has been reduced from \varnothing 20 mm (HebeFix) to \varnothing 16 mm (HebeFix Mini), there is now also a new smaller ball supporting bolt.

One special feature of the HebeFix Mini is a stop on the upper edge, which makes assembly easier when dealing with a through hole.

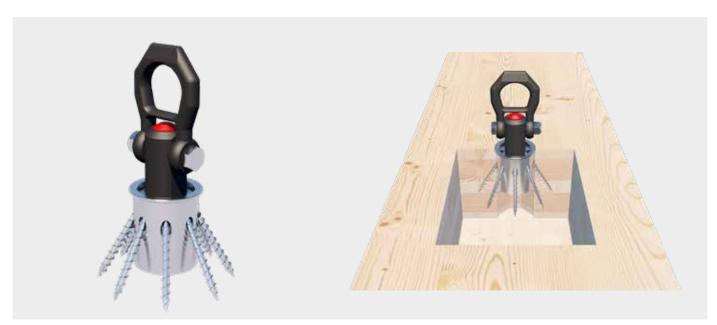


Art. no.	Product name	Dimensions [mm] ^{a)}	Material	Num	ber of scr	ews*	PU
944901 a) Height x diameter * Incl. 8 fully threade		49 x 45	S235JR	8			4
Art. no.	Product name	Dimensions [mm] ^{o)}	Material	F1 [kN]	F2 [kN]	F3 [kN]	PU
		ini 25 x 16	SJ235	4,8	4,5	4,1	1





STOP AT THE UPPER EDGE SOON ALSO AVAILABLE FOR THE LARGE HEBEFIX



The lifting anchor HebeFix Mini in combination with the ball supporting bolt.

APPLICATION IMAGE



The rotating ball supporting bolt allows for flexible transports.

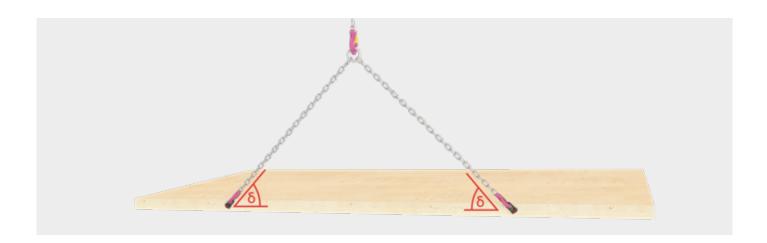
LIFTING ANCHOR HEBEFIX MINI

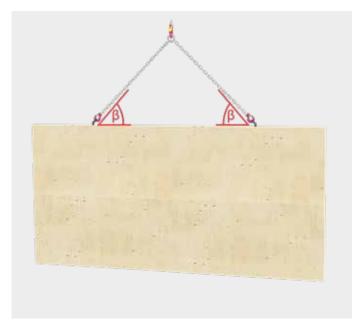


TECHNICAL DATA:

Wall or beam horizontal: raise, then lift

CLT wall or beam						
Connection in the	Connector [mm]	Stop angle	Total weight [kg] with 2 legs			
Connection in the		β	with 2 legs			
	Hebe Fix Mini Ø 40 + 8 x VSS 6 x 60	30°	248			
		45°	295			
End grain area		60°	318			
cha grain area		75°	328			
		β	with n legs			
		90°	n x 166			



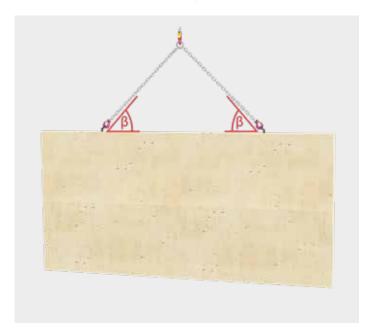


Note
The tables show the load case "Bringing a horizontalwall or a horizontal beam into a vertical position andthen lifting it" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed into the components' central plane, so that they sit flush and at right angles to the surfaces of the narrow sides and lateral or end-grain surfaces.

TECHNICAL INFORMATION

Wall or beam vertical: lifting

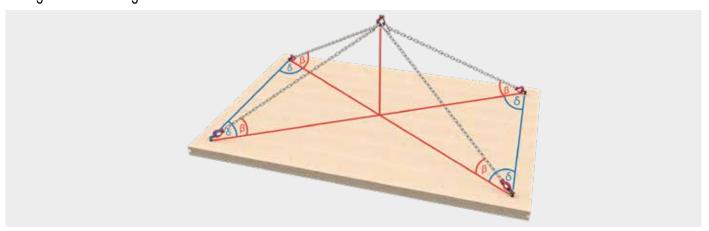
CLT wall or beam						
Connection in the	Connectior [mm]	Stop angle	Total weight [kg] with 2 legs			
Connection in the	Connection [mini]	β	with 2 legs			
		30°	360			
		45°	585			
Side area	Hebe Fix Mini Ø 40 + 8 x VSS 6 x 60	60°	869			
Side area	Heberix Milli & 40 + 0 x vss 0 x 00	75°	1196			
		β	with n legs			
		90°	n x 688			



Note

The tables show the load case "Lifting a vertical wall or beam" (lifting from the horizontal to hanging in the vertical). The table values only apply to lifting or assembly conditions.

Ceiling horizontal: lifting



CLT ceiling

(Table on the next page)

Attention: Check the assumptions that have been made. The specified values, type and number of connecting means represent a preliminary design. The projects must always be designed by authorised persons and in accordance with the state building regulations [LBau0]. Please contact a qualified structural engineer to obtain a proof of stability certificate in accordance with the state building regulations [LBau0] for a fee. We will be happy to put you in touch with someone.

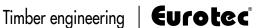
Eurotec Timber engineering

		Cl	.T ceiling			
Connection in the	Connectior [mm]	Stop angle	Layout angle	Total weight [kg]		
Connection in the	Connection [illini]	β	δ	with 4 legs		
		·	5°	714		
			15°	665		
			25°	595		
		30°	35°	529		
			45°	475		
			60°	419		
			75°	389		
			5°	1161		
			15°	1091		
			25°	986		
		45°	35°	884		
			45°	799		
			60°	710		
			75°	645		
			5°	1727		
			15°	1648		
			25°	1524		
		60°	35°	1394		
	Hebe Fix Mini + 8 x VSS 6 x 60		45°	1281		
Side area			60°	1155		
	0 X 133 0 X 00		75°	1061		
			5°	2385		
			15°	2339		
			25°	2257		
		75°	35°	2160		
			45°	2063		
			60°	1943		
			75°	1841		
		β	δ	with 2 legs		
		30°	0°	721		
			90°	189		
		45°	0°	1171		
			90°	322		
		60°	0°	1738		
			90°	530		
		75°	0°	2392		
			90°	920		
		β	δ	with n legs		
		90°	0°	n x 688		

N T

Note

The tables show the load case "Lifting horizontal ceiling elements" (lifting from the horizontal to hanging in the vertical). The connectors must be screwed in flush with the surface and at a right angle to the component surface.



OPERATING INSTRUCTIONS BALL SUPPORTING BOLT

WARNING!

Ball supporting bolts are designed for lifting and holding individual loads (not people!). In addition, they are not suitable for continuous load rotation. Contaminations, e.g. grinding sludge, oil and emulsion deposits, dust, etc. can impair the ball supporting bolts' functionality.

Damaged ball supporting bolts can endanger lives. Before every use, the ball supporting bolts must be inspected for visible defects, e.g. deformations, breaks, cracks, damage, missing balls, corrosion, function of the unlocking mechanism. Damaged ball supporting bolts must be withdrawn from further use.



HANDLING AND LOADING

To release the balls, press the button (A). When the button (A) is released, the balls are locked again.

Attention: The button (A) is locked when the spring force has caused it to return to its original position. Do not press the button while it is under load!

The load values F1/F2/F3 (see below) apply to lifting applications with a Steel load-handling device and x min. = 1.5

MAINTENANCE

Ball supporting bolts must be subjected to a safety inspection by a competent person at least once a year.

VISUAL INSPECTION

Deformations, breaks, cracks, missing/damaged balls, corrosion, damage to the screw connection on the shackle.

FUNCTIONAL TEST

The balls' locking and unlocking mechanism must close automatically by spring force. Full shackle mobility is guaranteed.



	d_1	l ₁	d_2	d_3	d ₄ min.	l ₂		l ₄	l ₅	l ₆	l ₇	I ₈	x min.*	x max.*	D H11	F, kN*	F ₂ kN*	F ₃ kN*
	20,0	50	24,50	30,0	25,00	19,70	36,5	52,0	32,6	36	56	114,0	1,5	25	20,0	10,0	8,5	6,5
*With 5-fold protection against breakage																		

Original EC conformity mark

The product complies with the provisions of EC Directive 2006/42/EC.

Make: Ball stud EH 22350 Type:

DIN EN 13155 Angewandte Normen:



Attention: Check the assumptions that have been made. The specified values, type and number of connecting means represent a preliminary design. The projects must always be designed by authorised persons and in accordance with the state building regulations

Please contact a qualified structural engineer to obtain a proof of stability certificate in accordance with the state building regulations [LBauO] for a fee. We will be happy to put you in touch with someone.

Eurotec The specialist for fastening technology

EVEN MORE INFORMATION ABOUT LIFTING & TRANSPORT SOLUTIONS



E.u.r.o.Tec GmbH Unter dem Hofe 5 - D-58099 Hagen Tel. +49 2331 62 45-0 Fax +49 2331 62 45-200 E-Mail info@eurotec.team www.eurotec.team

