



The specialist for fastening technology

OUR

BIM PORTAL ESC SOFTWARE TIMBER CONNECTORS LIFTING SOLUTIONS



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OUR EUROTEC BIM PORTAL All the data at a glance!

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Ansichten

THE EUROTEC BIM PORTAL 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**.



Plan now 🔆 bim.eurotec.team

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



LIFTING ANCHOR HEBEFIX AND BALL SUPPORTING BOLT

For transporting prefabricated wall modules

The Hebe*Fix* 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 \emptyset 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.



Art. no. Product nam			ne Dimension [mm] ^{a)}			Material		PU*				
944892		Hebe Fix		80 x 40		SJ235			4			
a) Height x dian												
*Delivery including screws												
Art. no.	Product name Dimension [mm] ^{a)} Material F1 [kN]			F2 [kN]	F3 [kN]	PU			
944893	Ball supporting	bolt	50 x 20		SJ235	10	8.5	6.5	1			
a) Height x dian	neter											
Attentio	Attention This product is subject to important conditions! Please watch the application video and observe											
	th											





Timber engineering | Eurotec



Independent shank alignment in the direction of the force

APPLICATION IMAGE



Application HebeFix for transporting a wall

LIFTING ANCHOR HEBEFIX



TECHNICAL INFORMATION

Wall or beam horizontal: raise, then lift

CLT wall or beam										
Connection in the	Connector [mm]	Stop angle $\boldsymbol{\beta}$	Total weight [kg] for 2 legs							
		30°	444							
		45°	528							
and avain conface	Haba Fire (1 40 + 9 y VCC 4 y 40	60°	569							
ena-grain surrace	nede fix () 40 + 0 x v33 0 x 00	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 INFORMATION

Wall or beam vertical: lifting

CLT wall or beam										
Connection in the	Connector [mm]	Stop angle B	Total weight [kg] for 2 legs							
		30°	601							
		45°	886							
		60°	1135							
narrow eage	Hebe fix Ø 40 + 8 x v33 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



(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]
		β	δ	with 4 legs
			5°	1193
			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
	11.h. r		45°	1887
lateral surface	Hebe FIX + $\delta \times VSS \delta$		60°	1756
	X 0U		75°	1649
			5°	2620
			15°	2600
			25°	2564
		75°	35°	2518
			45°	2469
			60°	2401
			75°	2339
		β	δ	with 2 legs
			0°	1203
		30°	90°	333
			0°	1773
		45°	90°	545
		(0)	0°	2270
		οU	90°	824
		750	0°	2623
		/5	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,	d ₂	d ₃	$d_4^{}$ min.	I_2	l ₃	I_4	I_{5}	l ₆	l,	l ₈	x min.*	x max.*	D H11	F ₁ 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 n	rotaction again	st broakaao															

*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 Type: EH 22350 Applied standards: DIN EN 13



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 Ø 20 mm (HebeFix) to Ø 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	Dimension [mm]ª)	Material	terial Number o			PU
944901 a) Height x diameter *Includes 8 fully threaded	Lifting anchor HebeFix Mini	49 x 45	S235JR	8			4
Art. no.	Product name	Dimension [mm] ⁰⁾	Material	F1 [kN]	F2 [kN]	F3 [kN]	PU
944905 a) Height x diameter	Ball supporting bolt for HebeFix Mir	ni 25 x 16	SJ235	4.8	4.5	4.1	1
Note Both items separately	must be ordered from each other.						









The lifting anchor Hebe*Fix* Mini in combination with the ball supporting bolt



APPLICATION IMAGE

The rotating ball supporting bolt allows for flexible transports

LIFTING ANCHOR HEBEFIX MINI



TECHNICAL INFORMATION

Wall or beam horizontal: raise, then lift

CLT wall or beam										
Connection in the	Connector [mm]	Stop angle	Total weight [kg]							
		β	with 2 legs							
	u.L. F: N:: 0 40 . 0 VCC ((0	30°	248							
		45°	295							
onderain curfaco		60°	318							
enagram sorrace	11606 F1X MIIII 0 40 + 0 X V33 0 X 00	75°	328							
		β	with n legs							
		90°	n x 166							





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 INFORMATION

Wall or beam vertical: lifting

	CLT wa	ll or beam		
Connection in the	Connector [mm]	Stop angle		Total weight [kg]
		β		with 2 legs
		30°		360
		45°		585
narrow edge	Hebe Fix Mini Ø 40 + 8 x VSS 6 x 60	60°		869
		/) ⁵		liyo
		٥٥٥ ماري		wiin n iegs n v 688
B	Ba		Note The tables show the load car wall or beam" (lifting from th hanging in the vertical). The apply to lifting or assembly of	se "Lifting a vertical he horizontal to table values only conditions.

Ceiling horizontal: lifting



(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]. 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]
		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
	Haha Eire Mini , 0 y VCC		45°	1281
lateral surface	$Hede\mathbf{FIX} MINI + 0 \times \mathbf{VS}$		60°	1155
	0 X 0U		75°	1061
			5°	2385
			15°	2339
			25°	2257
		75°	35°	2160
			45°	2063
			60°	1943
			75°	1841
		β	δ	with 2 legs
		200	0°	721
		30-	90°	189
		410	0°	1171
		45	90°	322
		(00	0°	1738
		OV	90°	530
		70	0°	2392
		15	90°	920
		β	δ	with n legs
		90°	0°	n x 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!

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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.





d1	l,	d ₂	d ₃	d ₄ min.	l ₂	l ₃	l ₄	l _s	l ₆	l ₇	l 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 n	rotection again	st hronknno															

Original EC conformity mark

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

Make: Ball stud Type: EH 2235 Applied standards: DIN EN



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].

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 \emptyset 11 x 125 mm and \emptyset 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.

por'	(Channel of the second	
L and the second		

Art. no.	Dimension [mm] ^{a)}	Load group	PU*
110361	190 x 70	0.7–1.3 t	2
a) Length x width *Screws to be ordered separately.			

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.
- $\cdot\,$ Transport anchors must be inspected for damage before every use and discarded, if necessary.
- $\cdot\,$ 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® per fastening point®				
γ ⁰ α ^d 11 x 125 mm 11 x 160 mm				
البنية أعتبا	60°	60°	533 kg	603 kg
Axidi puli	60°	30°	409 kg	462 kg
Diagonal cull	60°	90°	462 kg	522 kg
viagonal pull	60°	0°	139 kg	157 kg

a) Design in accordance with ETA-11/0024 with the bulk density ρ_k = 350 kg/m³; k_{mod}= 0.9; γ_m = 1.3; y_g = 1.35; g= 9.81 m/s² and the dynamic factor ϕ_2 = 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.

 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.



APPLICATION IMAGE



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 can be easily and securely screwed into the M27 internal thread. The set contains both the anchor and all the necessary screws.



Art. no.	Dimension [mm] ^{a)}	Material	PU
954189	150 x 60 x 50	Steel – S235JR	1
a) Length x width x height			

ADVANTAGES/SPECIFICATIONS

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

CONTENTS:

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









TRILIFT LIFTING ANCHOR

TECHNICAL INFORMATION

CLT panel wall - raising

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.

CLT panel wall — raising				
Fastening point	Screw image and	d installation angle Total load bea		Total load bearing capacity [kg]
	90°	30°	0	with 2 legs
	2 x KonstruX	6 x KonstruX 6.5 x 140 mm	30°	380
			45°	450
Narrow adred front cide			60°	490
Narrow-eagea tront siae	8 x 245 mm		75°	500
			В	with n legs
			90°	n x 255

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_i = 350 kg/m³ (C24) for the CII panels and ρ_k = 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 $y_6 = 1.35$ were used. For other ϕ values, the table values must be multiplied by 2.0/.

• 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 specialist.



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.

TECHNICAL INFORMATION

CLT panel wall - lifting

CLT panel wall — lifting					
Fastening point	Screw image and	Screw image and installation angle Stop angle		Total load bearing capacity [kg]	
	90°	30°	0	with 2 legs	
	2 x KonstruX 8 x 245 mm	6 x KonstruX 6.5 x 140 mm	30°	570	
			45°	965	
Narrow odgod front cido			60°	1575	
Narrow-eaged tront side			75°	2550	
			В	with n legs	
			90°	n x 1875	

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: $\rho_e = 350 \text{ kg/m}^3$ (C24) for the CLT panels and $\rho_k = 385 \text{ kg/m}^3$ (G124h) 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 $y_6 = 1.35$ were used. For other ϕ values, the table values must be multiplied by 2.0/.
- A modification factor k_{mod} = 1.0 and a partial safety coefficient for wood of γ_{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 specialist.



TRILIFT LIFTING ANCHOR

TECHNICAL INFORMATION

Support or beam made of laminated timber - raising

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.

Support or beam made of laminated timber — raising				
Fastening point	Screw image and installation angle		Stop angle	Total load bearing capacity [kg]
	90°	30°	в	with 2 legs
			30°	420
			45°	500
Narrow-edged front side			60°	535
		x KonstruX 6 x KonstruX x 245 mm 6 5 x 140 mm	75°	535
			В	with n legs
			90°	n x 280
	2 x KonstruX 8 x 245 mm		Stop angle	Total load bearing capacity [kg]
			в	with 2 legs
			30°	220
End-grain surface			45°	310
			60°	380
			75°	420
			В	with n legs
			90°	n x 220

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: $\rho_{i}=350 \text{ kg/m}^{3}$ (C24) for the CLT panels and $\rho_{i}=385 \text{ kg/m}^{3}$ (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 ϕ = 2.0 and a partial safety factor of y_6 = 1.35 were used. For other ϕ values, the table values must be multiplied by 2.0/.
 - 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 specialist.





TECHNICAL INFORMATION

Support or beam made of laminated timber - lifting

Support or beam made of laminated timber — lifting				
Fastening point	Screw image and installation angle		Stop angle	Total load bearing capacity [kg]
	90°	30°	ß	with 2 legs
			30°	610
Narrow-edged front side			45°	1000
			60°	1000
		2 x KonstruX 6 x KonstruX 8 x 245 mm 6.5 x 140 mm	75°	1000
			В	with n legs
			90°	n x 1392
	2 x KonstruX 8 x 245 mm		Stop angle	Total load bearing capacity [kg]
			ß	with 2 legs
			30°	250
End-grain surface			45°	430
			60°	700
			75°	1320
			В	with n legs
			90°	n x 1130

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_i = 350 kg/m³ (C24) for the CII panels and ρ_k = 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 ϕ = 2.0 and a partial safety factor of y₆ = 1.35 were used. For other ϕ values, the table values must be multiplied by 2.0/.
- A modification factor k_{mod} = 1.0 and a partial safety coefficient for wood of γ_{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 tension 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.





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.

PICK TRANSPORT ANCHOR

The Pick transport anchor allows for the easy and efficient lifting of wooden parts such as plywood, laminated timber and solid timber. The system developed in Austria impresses with up to 16,000 lifting operations and a payload of up to 1,250 kilograms per fastening point. It only requires a blind hole with a diameter of 50 millimetres and a depth of 70 millimetres to carry out the assembly. As a result, the surface quality remains untouched and no additional fastening screws are required. The Pick transport anchor is supplied as a system case. The System Case contains the following parts: 2 pick transport anchors, 2 shackles, Drill HMB, IBG drill bell.



Art. no.	Dimension [mm] ⁰⁾	PU
110362	220 x 100	1 system case
a) Lenath x diameter		

ADVANTAGES/SPECIFICATIONS

- · Payloads of up to 1,250 kg per fastening point.
- · Attached in a few simple steps, no need to align the lifting tackle.
- · The visible quality of the surfaces is not affected; no fastening screws are required.
- · Long service life: 16,000 load cycles (in accordance with EN 13155:2020).

Note

- · The specifications set out in the operating instructions included with the product must be observed. Have the load-handling equipment checked once a year by authorised persons. You can find the details in the enclosed operating instructions.
- Document your inspections in the maintenance book of the operating instructions. Feel free to take advantage of the Pick Check offer at any time.
- The Pick transport anchor is supplied in a system case as a set for 2 lifting points and the necessary installation material. required for installation.
- The hole can be used for lifting a maximum of 6 times.
- The lifting anchor can be used a maximum of 16,000 times.

APPLICATION IMAGES





Timber engineering | Eurotec



LOAD SPECIFICATIONS TRAVERSE SLING



*very highly resinous woods, such as pine and larch or CLT walls attached at the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm.

The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

Attention: the centre distance of the posts for timber-framed walls must not exceed 62.5 cm.

The operator is responsible for a sufficient transmission of force from the top plate to the post, SIHGA® accepts no liability for this.

Load table for timber-framed walls \ge 8/6 top plate [min. w x h x l = 8 x 6 x 50]					
	= 0°	= 45°	max. = total weight/2		max. = total weight/2
			90°		Line Line Line Line Line Line Line Line
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight] 506	[kg total weight] 1012	[kg total weight]	[kg total weight] not permitted	[kg total weight]
0	[kg total weight] 506 469	[kg total weight] 1012 939	[kg total weight]	[kg total weight] not permitted 1879	[kg total weight]
0 5 10	[kg total weight] 506 469 433	[kg total weight] 1012 939 867	[kg total weight]	[kg total weight] not permitted 1879 1733	[kg total weight]
0 5 10 15	[kg total weight] 506 469 433 397	[kg total weight] 1012 939 867 794	[kg total weight]	[kg total weight] not permitted 1879 1733 1588	[kg total weight]
0 5 10 15 20	[kg total weight] 506 469 433 397 360	[kg total weight] 1012 939 867 794 721	[kg total weight]	[kg total weight] not permitted 1879 1733 1588 1443	[kg total weight]
0 5 10 15 20 25	[kg total weight] 506 469 433 397 360 324	[kg total weight] 1012 939 867 794 721 649	[kg total weight] 693	[kg total weight] not permitted 1879 1733 1588 1443 1297	[kg total weight] 1386
0 5 10 15 20 25 30	[kg total weight] 506 469 433 397 360 324 288	[kg total weight] 1012 939 867 794 721 649 576	[kg total weight] 693	[kg total weight] not permitted 1879 1733 1588 1443 1297 1152	[kg total weight] 1386
0 5 10 15 20 25 30 35	[kg total weight] 506 469 433 397 360 324 288 251	[kg total weight] 1012 939 867 794 721 649 576 503	[kg total weight] 693	[kg total weight] not permitted 1879 1733 1588 1443 1297 1152 1007	[kg total weight] 1386
0 5 10 15 20 25 30 35 40	[kg total weight] 506 469 433 397 360 324 288 251 215	[kg total weight] 1012 939 867 794 721 649 576 503 431	[kg total weight] 693	[kg total weight] not permitted 1879 1733 1588 1443 1297 1152 1007 861	[kg total weight] 1386

Load table for timber-framed walls \ge 10/6 top plate [min. w x h x l = 10 x 6 x 50]					
= 0°	= 45°	max. = total weight/2		max. = total weight/2	
		90°	¢	And	

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	623	1246		not permitted	
5	605	1210		2420	
10	587	1174		2349	
15	569	1139		2277	
20	551	1103	(0)	2206	190/
25	533	1067	073	2134	1 300
30	515	1031		2063	
35	498	996		1991	
40	480	960		1920	
45	462	924		1848	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls ≥ 14/6 top plate [min. w x h x l = 14 x 6 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°/			
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse	
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	
0	[kg total weight] 900	[kg total weight] 1800	[kg total weight]	[kg total weight] not permitted	[kg total weight]	
0	[kg total weight] 900 976	[kg total weight] 1800 1752	[kg total weight]	[kg total weight] not permitted 3504	[kg total weight]	
0 5 10	[kg total weight] 900 976 852	[kg total weight] 1800 1752 1704	[kg total weight]	[kg total weight] not permitted 3504 3409	[kg total weight]	
0 5 10 15	[kg total weight] 900 976 852 828	[kg total weight] 1800 1752 1704 1657	[kg total weight]	[kg total weight] not permitted 3504 3409 3313	[kg total weight]	
0 5 10 15 20	[kg total weight] 900 976 852 828 828 804	[kg total weight] 1800 1752 1704 1657 1609	[kg total weight]	[kg total weight] not permitted 3504 3409 3313 3218	[kg total weight]	
0 5 10 15 20 25	[kg total weight] 900 976 852 828 828 804 780	[kg total weight] 1800 1752 1704 1657 1609 1561	[kg total weight] 947	[kg total weight] not permitted 3504 3409 3313 3218 3122	[kg total weight] 1894	
0 5 10 15 20 25 30	[kg total weight] 900 976 852 828 804 780 756	[kg total weight] 1800 1752 1704 1657 1609 1561 1513	[kg total weight] 947	[kg total weight] not permitted 3504 3409 3313 3218 3122 3027	[kg total weight] 1894	
0 5 10 15 20 25 30 35	[kg total weight] 900 976 852 828 804 780 756 733	[kg total weight] 1800 1752 1704 1657 1609 1561 1513 1466	[kg total weight] 947	[kg total weight] not permitted 3504 3409 3313 3218 3122 3027 2931	[kg total weight] 1894	
0 5 10 15 20 25 30 35 40	[kg total weight] 900 976 852 828 804 780 756 733 709	[kg total weight] 1800 1752 1704 1657 1609 1561 1513 1466 1418	[kg total weight] 947	[kg total weight] not permitted 3504 3409 3313 3218 3122 3027 2931 2836	[kg total weight] 1894	

Load table for timber-framed walls ≥ 10/8 top plate [min. w x h x l = 10 x 8 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
				¢	Dan	

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	660	1320		not permitted	
5	639	1278		2556	
10	618	1236		2472	
15	597	1194		2388	
20	576	1152	0/0	2304	1000
25	555	1110	900	2220	1920
30	534	1068		2136	
35	513	1026		2052	
40	492	984		1968	
45	471	942		1884	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls \geq 14/8 top plate [min. w x h x l = 14 x 8 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/	ţ,	Ded a Ded		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[ka total weight]	[ka total weight]	[ka total woight]	[ka total unight]	fler same entries		
	[rig fordi molgin]				[kg total weight]		
0	900	1800	Två mm meiðin T	not permitted	[kg total weight]		
0	900 876	1800 1752	Tựñ inini meiðiu 1	not permitted 3504	[kg total weight]		
0 5 10	900 876 852	1800 1752 1704	[Kỹ từn weiğiti]	not permitted 3504 3409	[Kġ total weignt]		
0 5 10 15	900 876 852 828	1800 1752 1704 1657	[ເຊິ່າເປັນ ສະເຊິ່າເປ	not permitted 3504 3409 3313	[Kġ totol weignt]		
0 5 10 15 20	900 876 852 828 804	1800 1752 1704 1657 1609	[Kỹ loidi weiğiii]	rot permitted 3504 3409 3313 3218	[Kġ total weigm]		
0 5 10 15 20 25	900 876 852 828 804 780	1800 1752 1704 1657 1609 1561	[Kġ toldi weigin] 1500	rot permitted 3504 3409 3313 3218 3122	LKg total weight) 3000		
0 5 10 15 20 25 30	900 876 852 828 804 780 756	1800 1752 1704 1657 1609 1561 1513	[Kġ toldi weigiri] 1500	rot permitted 3504 3409 3313 3218 3122 3027	LKg total weight) 3000		
0 5 10 15 20 25 30 35	900 876 852 828 804 780 756 733	1800 1752 1704 1657 1609 1561 1513 1466	[Kġ toldi weigiri] 1500	rot permitted 3504 3409 3313 3218 3122 3027 2931	[Kg total weight] 3000		
0 5 10 15 20 25 30 35 40	900 876 852 828 804 780 756 733 709	1800 1752 1704 1657 1609 1561 1513 1466 1418	[Kġ toldi weigin] 1500	rot permitted 3504 3409 3313 3218 3122 3027 2931 2836	[Kg total weight] 3000		

Load table for timber-framed walls ≥ 10/6 top plate [min. w x h x l = 10 x 6 x 50]						
= 0°	= 45°	max. = total weight/2		max. = total weight/2		
		90°/	¢	And		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	660	1320		not permitted	
5	640	1280		2559	
10	619	1239		2478	
15	599	1199		2397	
20	579	1158	017	2316	1/5/
25	559	1118	02/	2236	1004
30	538	1077		2155	
35	518	1037		2074	
40	498	996		1993	
45	478	956		1912	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls \geq 10/6 top plate [min. w x h x l = 10 x 6 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/				
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight] 827	[kg total weight] 1654	[kg total weight]	[kg total weight] not permitted	[kg total weight]		
0 5	[kg total weight] 827 790	[kg total weight] 1654 1580	[kg total weight]	[kg total weight] not permitted 3160	[kg total weight]		
0 5 10	[kg total weight] 827 790 753	[kg total weight] 1654 1580 1506	[kg total weight]	[kg total weight] not permitted 3160 3013	[kg total weight]		
0 5 10 15	[kg total weight] 827 790 753 716	[kg total weight] 1654 1580 1506 1433	[kg total weight]	[kg total weight] not permitted 3160 3013 2865	[kg total weight]		
0 5 10 15 20	[kg total weight] 827 790 753 716 679	[kg total weight] 1654 1580 1506 1433 1359	[kg total weight]	[kg total weight] not permitted 3160 3013 2865 2718	[kg total weight]		
0 5 10 15 20 25	[kg total weight] 827 790 753 716 679 642	[kg total weight] 1654 1580 1506 1433 1359 1285	[kg total weight] 947	[kg total weight] not permitted 3160 3013 2865 2718 2570	[kg total weight] 3000		
0 5 10 15 20 25 30	[kg total weight] 827 790 753 716 679 642 605	[kg total weight] 1654 1580 1506 1433 1359 1285 1211	[kg total weight] 947	[kg total weight] not permitted 3160 3013 2865 2718 2570 2423	[kg total weight] 3000		
0 5 10 15 20 25 30 35	[kg total weight] 827 790 753 716 679 642 605 569	[kg total weight] 1654 1580 1506 1433 1359 1285 1211 1138	[kg total weight] 947	[kg total weight] not permitted 3160 3013 2865 2718 2570 2423 2275	[kg total weight] 3000		
0 5 10 15 20 25 30 35 40	[kg total weight] 827 790 753 716 679 642 605 569 532	[kg total weight] 1654 1580 1506 1433 1359 1285 1211 1138 1064	[kg total weight] 947	[kg total weight] not permitted 3160 3013 2865 2718 2570 2423 2275 2128	[kg total weight] 3000		

Load table for timber-framed walls \ge 12/10 top plate [min. w x h x l = 12 x 10 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/	¢	A A A A A A A A A A A A A A A A A A A		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	870	1740		not permitted	
5	828	1657		3313	
10	786	1573		3147	
15	745	1490		2980	
20	703	1407	11/0	2813	0000
25	661	1323	1100	2647	2320
30	620	1240		2480	
35	578	1157		2313	
40	536	1073		2147	
45	495	990		1980	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



	Load table for timber-framed walls \ge 14/10 top plate [min. w x h x l = 14 x 10 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/		Line Line Line Line Line Line Line Line		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight] 870	[kg total weight] 1740	[kg total weight]	[kg total weight] not permitted	[kg total weight]		
0	[kg total weight] 870 842	[kg total weight] 1740 1685	[kg total weight]	[kg total weight] not permitted 3370	[kg total weight]		
0 5 10	[kg total weight] 870 842 815	[kg total weight] 1740 1685 1630	[kg total weight]	[kg total weight] not permitted 3370 3260	[kg total weight]		
0 5 10 15	[kg total weigh1] 870 842 815 787	[kg total weight] 1740 1685 1630 1575	[kg total weight]	[kg total weight] not permitted 3370 3260 3149	[kg total weight]		
0 5 10 15 20	[kg total weigh1] 870 842 815 787 760	[kg total weight] 1740 1685 1630 1575 1520	[kg total weight]	[kg total weight] not permitted 3370 3260 3149 3039	[kg total weight]		
0 5 10 15 20 25	[kg total weigh1] 870 842 815 787 760 732	[kg total weight] 1740 1685 1630 1575 1520 1464	[kg total weight] 1547	[kg total weight] not permitted 3370 3260 3149 3039 2929	[kg total weight] 3094		
0 5 10 15 20 25 30	[kg total weigh1] 870 842 815 787 760 732 704	[kg total weight] 1740 1685 1630 1575 1520 1464 1409	[kg total weight] 1547	[kg total weight] not permitted 3370 3260 3149 3039 2929 2819	[kg total weight] 3094		
0 5 10 15 20 25 30 35	[kg total weigh1] 870 842 815 787 760 732 704 677	[kg total weight] 1740 1685 1630 1575 1520 1464 1409 1354	[kg total weight] 1547	[kg total weight] not permitted 3370 3260 3149 3039 2929 2819 2708	[kg total weight] 3094		
0 5 10 15 20 25 30 35 40	[kg total weigh1] 870 842 815 787 760 732 704 677 649	[kg total weight] 1740 1685 1630 1575 1520 1464 1409 1354 1299	[kg total weight] 1547	[kg total weight] not permitted 3370 3260 3149 3039 2929 2819 2708 2598	[kg total weight] 3094		

Load table for timber-framed walls ≥ 14/20 top plate [min. w x h x l = 14 x 20 x 50]						
= 0°	= 45°	max. = total weight/2		max. = total weight/2		
				And the first of t		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	1250	2500		not permitted	
5	1187	2374		4749	
10	1124	2249		4498	
15	1061	2123		4247	
20	999	1998	1547	3996	2004
25	936	1872	104/	3744	3094
30	873	1747		3493	
35	810	1621		3242	
40	748	1496		2991	
45	685	1370		2740	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for round timber ø = min. 16 cm l = min. 50 cm bar						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°/	ţ,		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse	
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	
0	[kg total weight] 887	[kg total weight] 1774	[kg total weight]	[kg total weight] not permitted	[kg total weight]	
0	[kg total weight] 887 837	[kg total weight] 1774 1675	[kg total weight]	[kg total weight] not permitted 3350	[kg total weight]	
0 5 10	[kg total weight] 887 837 788	[kg total weight] 1774 1675 1576	[kg total weight]	[kg total weight] not permitted 3350 3152	[kg total weight]	
0 5 10 15	[kg total weight] 887 837 788 738	[kg total weight] 1774 1675 1576 1477	[kg total weight]	[kg total weight] not permitted 3350 3152 2953	[kg total weight]	
0 5 10 15 20	[kg total weight] 887 837 788 738 689	[kg total weight] 1774 1675 1576 1477 1378	[kg total weight]	[kg total weight] not permitted 3350 3152 2953 2755	[kg total weight]	
0 5 10 15 20 25	[kg total weight] 887 837 788 738 689 639	[kg total weight] 1774 1675 1576 1477 1378 1278	[kg total weight] /	[kg total weight] not permitted 3350 3152 2953 2755 2557	[kg total weight] /	
0 5 10 15 20 25 30	[kg total weight] 887 837 788 738 689 639 589	[kg total weight] 1774 1675 1576 1477 1378 1278 1179	[kg total weight]	[kg total weight] not permitted 3350 3152 2953 2755 2557 2359	[kg total weight] /	
0 5 10 15 20 25 30 35	[kg total weight] 887 837 788 738 689 639 589 540	[kg total weight] 1774 1675 1576 1477 1378 1278 1179 1080	[kg total weight]	[kg total weight] not permitted 3350 3152 2953 2755 2557 2359 2160	[kg total weight] /	
0 5 10 15 20 25 30 35 40	[kg total weight] 887 837 788 738 689 639 589 540 490	[kg total weight] 1774 1675 1576 1477 1378 1278 1179 1080 981	[kg total weight]	[kg total weight] not permitted 3350 3152 2953 2755 2557 2359 2160 1962	[kg total weight] /	

Load table for Pollmeier S beech wood grain side ≥ 8/12 [min. w x h x l = 8 x 12 x 50] bar						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°/	¢	A A A A A A A A A A A A A A A A A A A	

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	1250	2500		not permitted	
5	1202	2405		4811	
10	1155	2311		4621	
15	1108	2216		4432	
20	1060	2121	1	4243	1
25	1013	2027	1	4053	/
30	966	1932		3864	
35	918	1837		3675	
40	871	1743		3485	
45	824	1648		3296	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for Kerto® S joint side ≥ 7.5/12 [min. w x h x l = 7.5 x 12 x 50] bar						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°	Ŷ A	Lind all a	
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse	
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[ka total weight]	
				- • • • -	r.g	
0	713	1426		not permitted		
0 5	713 688	1426 1376		not permitted 2752		
0 5 10	713 688 663	1426 1376 1326		not permitted 2752 2652		
0 5 10 15	713 688 663 638	1426 1376 1326 1276		not permitted 2752 2652 2552		
0 5 10 15 20	713 688 663 638 613	1426 1376 1326 1276 1226		not permitted 2752 2652 2552 2452	/	
0 5 10 15 20 25	713 688 663 638 613 588	1426 1376 1326 1276 1226 1176	/	not permitted 2752 2652 2552 2452 2352	/	
0 5 10 15 20 25 30	713 688 663 638 613 588 563	1426 1376 1326 1276 1226 1176 1126	/	not permitted 2752 2652 2552 2452 2352 2352 2252	/	
0 5 10 15 20 25 30 35	713 688 663 638 613 588 563 563 538	1426 1376 1326 1276 1226 1176 1126 1076	/	not permitted 2752 2652 2552 2452 2352 2352 2252 2152	/	
0 5 10 15 20 25 30 35 40	713 688 663 638 613 588 563 563 538 513	1426 1376 1326 1276 1226 1176 1126 1076 1026	/	not permitted 2752 2652 2552 2452 2352 2352 2252 2152 2052	/	



Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	813	1626		not permitted	
5	783	1566		3132	
10	753	1506		3013	
15	723	1447		2893	
20	693	1387	1	2774	1
25	663	1327	/	2654	1
30	633	1267		2535	
35	604	1208		2415	
40	574	1148		2296	
45	544	1088		2176	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



	Load table for a	end-grain wood connections (only GLH) ≥ 10	0/10 [min. w x h x l = 10 x 10 x 50]	
	= 0°	= 45°	max. = total weight/2	= 90°
			90° Jing Jing	
Angle	1-leg*	2-leg lifting	2-leg turning	2-leg lifting under 90°
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight] not permitted	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight] not permitted 840	[kg total weight]	[kg total weight]
0 5 10	[kg total weight]	[kg total weight] not permitted 840 766	[kg total weight]	[kg total weight]
0 5 10 15	[kg total weight]	[kg total weight] not permitted 840 766 692	[kg total weight]	[kg total weight]
0 5 10 15 20	[kg total weight]	[kg total weight] not permitted 840 766 692 617	[kg total weight]	[kg total weight]
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted 840 766 692 617 543	[kg total weight] 427	[kg total weight] 213
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted 840 766 692 617 543 469	[kg total weight] 427	[kg total weight] 213
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted 840 766 692 617 543 469 395	[kg total weight] 427	[kg total weight] 213
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted 840 766 692 617 543 469 395 320	[kg total weight] 427	[kg total weight] 213

Load table for end-grain wood connections (only GLH) ≥10/10 [min. w x h x l = 10 x 10 x 50]							
= 0°	= 45°	max. = total weight/2	= 90°				
		90°					

Angle	1-leg*	2-leg lifting	2-leg turning	2-leg lifting under 90°
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0		not permitted		
5		1460		
10		1343		
15		1226	1427	710
20		1109		
25	nor permined	992		/15
30		875		
35		758		
40		641		
45		524		

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.





Load table for cross-laminated timber wall panels laterally at the surface with a 15 cm edge distance [min. w x x t = $50 \times 50 \times 9$]						
	= 90°	= 45°	max. = total weight/2		max. = total weight/2	
		Ø 0		<u> </u>		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse	
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	
90	577	1154	1154	2308	2308	

Load table for timber-framed walls $\ge 10/4.5$ top plate [min. w x h x l = 10 x 4.5 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°/		Liber Die	
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse	
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	
0	[kg total weight] 250	[kg total weight] 500	[kg total weight]	[kg total weight] not permitted	[kg total weight]	
0	[kg total weight] 250 250	[kg total weight] 500 500	[kg total weight]	[kg total weight] not permitted 1000	[kg total weight]	
0 5 10	[kg total weight] 250 250 250 250	[kg total weight] 500 500 500 500	[kg total weight]	[kg total weight] not permitted 1000 1000	[kg total weight]	
0 5 10 15	[kg total weight] 250 250 250 250 250	[kg total weight] 500 500 500 500 500	[kg total weight]	[kg total weight] not permitted 1000 1000 1000	[kg total weight]	
0 5 10 15 20	[kg total weight] 250 250 250 250 250 250	[kg total weight] 500 500 500 500 500 500	[kg total weight]	[kg total weight] not permitted 1000 1000 1000 1000	[kg total weight]	
0 5 10 15 20 25	[kg total weight] 250 250 250 250 250 250 250 250	[kg total weight] 500 500 500 500 500 500 500	[kg total weight]	[kg total weight] not permitted 1000 1000 1000 1000 1000	[kg total weight] 1000	
0 5 10 15 20 25 30	[kg total weight] 250 250 250 250 250 250 250 250 250	[kg total weight] 500 500 500 500 500 500 500 500	[kg total weight]	[kg total weight] not permitted 1000 1000 1000 1000 1000 1000 1000	[kg total weight] 1000	
0 5 10 15 20 25 30 35	[kg total weight] 250 250 250 250 250 250 250 250 250 250	[kg total weight] 500 500 500 500 500 500 500 500 500 50	[kg total weight]	[kg total weight] not permitted 1000 1000 1000 1000 1000 1000 1000 10	[kg total weight] 1000	
0 5 10 15 20 25 30 35 40	[kg total weight] 250 250 250 250 250 250 250 250 250 250	[kg total weight] 500 500 500 500 500 500 500 500 500 50	[kg total weight]	[kg total weight] not permitted 1000 1000 1000 1000 1000 1000 1000 10	[kg total weight] 1000	

Load table for timber-framed walls $\ge 12/4.5$ top plate [min. w x h x l = 12 x 4.5 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°	¢	i de la de l	

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	487	974		not permitted	
5	465	931		1861	
10	443	887		1775	
15	422	844		1688	
20	400	801	700	1601	1440
25	378	757	720	1515	1440
30	357	714		1428	
35	335	671		1341	
40	313	627		1255	
45	292	584		1168	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls \geq 10/4.5 top plate [min. w x h x l = 10 x 4.5 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/	ţ,	Ling The Dis		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[ka total weiaht]		
0	500	1000		not permitted			
0 5	500 479	1000 958		not permitted 1915			
0 5 10	500 479 457	1000 958 915		not permitted 1915 1830			
0 5 10 15	500 479 457 436	1000 958 915 873		not permitted 1915 1830 1745			
0 5 10 15 20	500 479 457 436 415	1000 958 915 873 830	1000	not permitted 1915 1830 1745 1660	2000		
0 5 10 15 20 25	500 479 457 436 415 394	1000 958 915 873 830 788	1000	not permitted 1915 1830 1745 1660 1576	2000		
0 5 10 15 20 25 30	500 479 457 436 415 394 372	1000 958 915 873 830 788 745	1000	not permitted 1915 1830 1745 1660 1576 1491	2000		
0 5 10 15 20 25 30 35	500 479 457 436 415 394 372 351	1000 958 915 873 830 788 745 703	1000	not permitted 1915 1830 1745 1660 1576 1491 1406	2000		
0 5 10 15 20 25 30 35 40	500 479 457 436 415 394 372 351 330	1000 958 915 873 830 788 745 703 660	1000	not permitted 1915 1830 1745 1660 1576 1491 1406 1321	2000		

Load table for timber-framed walls ≥ 8/3.9 top plate Kerto® Q [min. w x h x l = 8 x 3.9 x 50]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°/	Ŷ		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	160	320		not permitted	
5	152	304		608	
10	144	288		575	
15	135	271		543	
20	127	255	200	510	/00
25	119	239	320	478	000
30	111	223		445	
35	103	206		413	
40	95	190		380	
45	87	174		348	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls \ge 12/3.9 top plate Kerto [®] Q [min. w x h x l = 12 x 3.9 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°/	ţ	Ling and Lin		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight] 300	[kg total weight] 600	[kg total weight]	[kg total weight] not permitted	[kg total weight]		
0	[kg total weight] 300 286	[kg total weight] 600 572	[kg total weight]	[kg total weight] not permitted 1143	[kg total weight]		
0 5 10	[kg total weight] 300 286 271	[kg total weight] 600 572 543	[kg total weight]	[kg total weight] not permitted 1143 1086	[kg total weight]		
0 5 10 15	[kg total weight] 300 286 271 257	[kg total weight] 600 572 543 515	[kg total weight]	[kg total weight] not permitted 1143 1086 1029	[kg total weight]		
0 5 10 15 20	[kg total weight] 300 286 271 257 243	[kg total weight] 600 572 543 515 486	[kg total weight]	[kg total weight] not permitted 1143 1086 1029 972	[kg total weight]		
0 5 10 15 20 25	[kg total weight] 300 286 271 257 243 229	[kg total weight] 600 572 543 515 486 486 458	[kg total weight] 600	[kg total weight] not permitted 1143 1086 1029 972 916	[kg total weight] 1143		
0 5 10 15 20 25 30	[kg total weight] 300 286 271 257 243 229 214	[kg total weight] 600 572 543 515 486 486 458 429	[kg total weight] 600	[kg total weight] not permitted 1143 1086 1029 972 916 859	[kg total weight] 1143		
0 5 10 15 20 25 30 35	[kg total weight] 300 286 271 257 243 229 214 200	[kg total weight] 600 572 543 515 486 458 429 401	[kg total weight]	[kg total weight] not permitted 1143 1086 1029 972 916 859 802	[kg total weight] 1143		
0 5 10 15 20 25 30 35 40	[kg total weight] 300 286 271 257 243 229 214 200 186	[kg total weight] 600 572 543 515 486 458 429 401 372	[kg total weight] 600	[kg total weight] not permitted 1143 1086 1029 972 916 859 802 745	[kg total weight] 1143		

Load table for timber-framed walls \geq 16/3.9 top plate Kerto [®] Q [min. w x h x l = 16 x 3.9 x 50]						
= 0°	= 45°	max. = total weight/2		max. = total weight/2		
		90°	Ŷ	Indultation		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	300	600		not permitted	
5	297	594		1188	
10	294	588		1176	
15	291	582		1164	
20	288	576	400	1152	1100
25	285	570	000	1140	1100
30	282	564		1128	
35	279	558		1116	
40	276	552		1104	
45	273	546		1092	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls \ge 8/5.7 top plate Kerto [®] Q [min. w x h x l = 8 x 5.7 x 50]							
	= 0° = 45° max. = total weight/2		max. = total weight/2				
			90°		Ling and the line of the line		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	260	520		not permitted			
5	253	507		1015			
10	247	495		989			
15	041						
	241	482		964			
20	241	482 469	F00	964 939	1015		
20 25	234 238	482 469 457	520	964 939 913	1015		
20 25 30	241 234 228 222	482 469 457 444	520	964 939 913 888	1015		
20 25 30 35	241 234 228 222 215	482 469 457 444 431	520	964 939 913 888 863	1015		
20 25 30 35 40	241 234 228 222 215 209	482 469 457 444 431 419	520	964 939 913 888 863 863 837	1015		

Load table for timber-framed walls \geq 12/5.7 top plate Kerto [®] Q [min. w x h x l = 12 x 5.7 x 50]						
= 0°	max. = total weight/2					
		90°	р р р	The The The The		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	490	980		not permitted	
5	476	952		1904	
10	462	924		1849	
15	448	897		1793	
20	434	869	000	1738	1004
25	420	841	980	1682	1904
30	406	813		1627	
35	393	786		1571	
40	379	758		1516	
45	365	730		1460	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for timber-framed walls ≥ 16/5.7 top plate Kerto® Q [min. w x h x l = 16 x 5.7 x 50]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°		Line Line Line Line Line Line Line Line		
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	750	1500		not permitted			
5	720	1440		2880			
10	690	1380		2761			
15	660	1321		2641			
20	630	1261	1000	2522	0000		
25	600	1201	1000	2402	2000		
30	570	1141		2283			
35	541	1082		2163			
40	511	1022		2044			
45	481	962		1924			

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \geq 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm.

The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



Load table for cross-laminated timber wall panels [min. w x h x d = 100 x 100 x 9]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°				
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight] 260	[kg total weight] 520	[kg total weight]	[kg total weight] not permitted	[kg total weight]		
0	[kg total weight] 260 253	[kg total weight] 520 507	[kg total weight]	[kg total weight] not permitted 1015	[kg total weight]		
0 5 10	[kg total weight] 260 253 247	[kg total weight] 520 507 495	[kg total weight]	[kg total weight] not permitted 1015 989	[kg total weight]		
0 5 10 15	[kg total weight] 260 253 247 241	[kg total weight] 520 507 495 482	[kg total weight]	[kg total weight] not permitted 1015 989 964	[kg total weight]		
0 5 10 15 20	[kg total weight] 260 253 247 241 241 234	[kg total weight] 520 507 495 482 469	[kg total weight]	[kg total weight] not permitted 1015 989 964 939	[kg total weight]		
0 5 10 15 20 25	[kg total weight] 260 253 247 241 234 234 228	[kg total weight] 520 507 495 482 469 457	[kg total weight] 520	[kg total weight] not permitted 1015 989 964 939 913	[kg total weight] 1015		
0 5 10 15 20 25 30	[kg total weight] 260 253 247 241 234 228 228 222	[kg total weight] 520 507 495 482 482 469 457 444	[kg total weight] 520	[kg total weight] not permitted 1015 989 964 939 913 888	[kg total weight] 1015		
0 5 10 15 20 25 30 35	[kg total weight] 260 253 247 241 234 228 228 222 215	[kg total weight] 520 507 495 482 469 457 444 457 444	[kg total weight] 520	[kg total weight] not permitted 1015 989 964 939 913 888 888 863	[kg total weight] 1015		
0 5 10 15 20 25 30 35 40	[kg total weight] 260 253 247 241 234 228 222 215 209	[kg total weight] 520 507 495 482 482 469 457 444 431 419	[kg total weight] 520	[kg total weight] not permitted 1015 989 964 939 913 888 888 863 863	[kg total weight] 1015		

Load table for cross-laminated timber ceiling panels [min. w x h x d = 100 x 100 x 9]							
	= 0°	= 45°					

Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	not permitted	not permitted	not permitted	not permitted
5	1121	2242	3363	4484
10	1082	2164	3247	4329
15	1043	2087	3130	4173
20	1004	2009	3013	4018
25	965	1931	2897	3862
30	926	1853	2780	3707
35	888	1776	2663	3551
40	849	1698	2547	3396
45	810	1620	2430	3240

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



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ROCKER

	Load table fo	or timbered ceilings ≥ 8/12 [min. w x	h x d = 8 x 12 x 50]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight]	[kg total weight] 1980	[kg total weight] 2640
0 5	[kg total weight]	[kg total weight]	[kg total weight] 1980 1827	[kg total weight] 2640 2436
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 1980 1827 1673	[kg total weight] 2640 2436 2231
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 1980 1827 1673 1520	[kg total weight] 2640 2436 2231 2027
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 1980 1827 1673 1520 1367	[kg total weight] 2640 2436 2231 2027 1822
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1980 1827 1673 1520 1367 1213	[kg total weight] 2640 2436 2231 2027 1822 1618
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1980 1827 1673 1520 1367 1213 1060	[kg total weight] 2640 2436 2231 2027 1822 1618 1413
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1980 1827 1673 1520 1367 1213 1060 907	[kg total weight] 2640 2436 2231 2027 1822 1618 1413 1209
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1980 1827 1673 1520 1367 1213 1060 907 753	[kg total weight] 2640 2436 2231 2027 1822 1618 1413 1209 1004

	Load table for	r timbered ceilings ≥ 10/12 [min. w x h	x d = 10 x 12 x 50]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0		, 	2481	3308
5			2326	3101
10			2170	2894
15			2015	2687

15			2015	2687
20	not normitted	not normittad	1860	2480
25	nor permined	nor permined	1704	2272
30			1549	2065
35			1394	1858
40			1238	1651
45			1083	1444

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



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ROCKER

	Load table for	r timbered ceilings ≥ 12/12 [min. w x ŀ	1 x d = 12 x 12 x 50]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight]	[kg total weight] 2610	[kg total weight] 3480
0 5	[kg total weight]	[kg total weight]	[kg total weight] 2610 2440	[kg total weight] 3480 3254
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 2610 2440 2271	[kg total weight] 3480 3254 3028
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 2610 2440 2271 2101	[kg total weight] 3480 3254 3028 2801
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 2610 2440 2271 2101 1931	[kg total weight] 3480 3254 3028 2801 2575
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 2610 2440 2271 2101 1931 1762	[kg total weight] 3480 3254 3028 2801 2575 2349
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 2610 2440 2271 2101 1931 1762 1592	[kg total weight] 3480 3254 3028 2801 2575 2349 2123
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 2610 2440 2271 2101 1931 1762 1592 1422	[kg total weight] 3480 3254 3028 2801 2575 2349 2123 1896
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 2610 2440 2271 2101 1931 1762 1592 1422 1253	[kg total weight] 3480 3254 3028 2801 2575 2349 2123 1896 1670

	Load table for timbered ceilings with a m	ax. of 22 mm of panel material on the t	top side ≥ 8/12 [min. w x h x d = 8 x 1	2 x 50]
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)

Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0			1050	1400
5			973	1297
10			895	1194
15			818	1091
20			741	988
25	noi permined	noi permined	663	884
30			586	781
35			509	678
40			431	575
45			354	472

, Drill hole

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \geq 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

لم	oad table for timbered ceilings with a ma	x. of 22 mm of panel material on the to	op side ≥ 10/12 [min. w x h x d = 10 x 1	12 x 50]
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0			1260	1680
5			1201	1601
10			1142	1523
15			1083	1444
20	not normitted	not permitted	1024	1365
25	noi permineu	noi permineu	965	1287
30			906	1208
35			847	1129
40			788	1051

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis. The minimum distance to the top loyer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.



	Load table f	for timbered ceilings \ge 10/4 [min. w x	h x l = 10 x 4 x 50]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1059	[kg total weight] 1412
0 5	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1059 1007	[kg total weight] 1412 1343
0 5 10	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1059 1007 956	[kg total weight] 1412 1343 1274
0 5 10 15	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 1059 1007 956 904	[kg total weight] 1412 1343 1274 1205
0 5 10 15 20	[kg total weight] not permitted This is an example for the lifting of r	[kg total weight] not permitted roof elements with load bearing in the	[kg total weight] 1059 1007 956 904 852	[kg total weight] 1412 1343 1274 1205 1136
0 5 10 15 20 25	[kg total weight] not permitted This is an example for the lifting of r counter batten provided that the counter	[kg total weight] not permitted roof elements with load bearing in the r batten is secured against breaking away	[kg total weight] 1059 1007 956 904 852 801	[kg total weight] 1412 1343 1274 1205 1136 1068
0 5 10 15 20 25 30	[kg total weight] not permitted This is an example for the lifting of r counter batten provided that the counter in an upwards direction by r	[kg total weight] not permitted roof elements with load bearing in the r batten is secured against breaking away means of a screw connection.	[kg total weight] 1059 1007 956 904 852 801 749	[kg total weight] 1412 1343 1274 1205 1136 1068 999
0 5 10 15 20 25 30 35	[kg total weight] not permitted This is an example for the lifting of r counter batten provided that the counter in an upwards direction by r	[kg total weight] not permitted roof elements with load bearing in the r batten is secured against breaking away means of a screw connection.	[kg total weight] 1059 1007 956 904 852 801 749 697	[kg total weight] 1412 1343 1274 1205 1136 1068 999 930
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted This is an example for the lifting of r counter batten provided that the counter in an upwards direction by r	[kg total weight] not permitted roof elements with load bearing in the r batten is secured against breaking away means of a screw connection.	[kg total weight] 1059 1007 956 904 852 801 749 697 646	[kg total weight] 1412 1343 1274 1205 1136 1068 999 930 861



*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis.

The minimum distance to the top layer's outer surface when mounted on the CDT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

	Load table for Po	llmeier S beech wood ≥ 50/50/4 [min	. w x x t = 50 x 50 x 4]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight]	[kg total weight] 771	[kg total weight] 1028
0 5	[kg total weight]	[kg total weight]	[kg total weight] 771 736	[kg total weight] 1028 982
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 771 736 702	[kg total weight] 1028 982 936
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 771 736 702 667	[kg total weight] 1028 982 936 889
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 771 736 702 667 632	[kg total weight] 1028 982 936 889 843
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 771 736 702 667 632 598	[kg total weight] 1028 982 936 889 843 843 797
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 771 736 702 667 632 598 563	[kg total weight] 1028 982 936 889 843 843 797 751
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 771 736 702 667 632 598 563 528	[kg total weight] 1028 982 936 889 843 797 751 751 704
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 771 736 702 667 632 598 563 563 528 494	[kg total weight] 1028 982 936 889 843 797 751 751 704 658

	Load table for Po	llmeier Q beech wood ≥ 50/50/4 [min.	w x l x t = 50 x 50 x 4]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0			3150	4200
5			3037	4050
10			2925	3900
15			2812	3749
20			2699	3599
25	not permitted	not permitted	2587	3449
30			2474	3299
35			2361	3148
40			2249	2998

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*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \geq 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

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	Load table f	for Kerto [®] Q \ge 50/50/2.7 [min. w x x	x t = 50 x 50 x 2.7]	
	= 0°	= 45°		
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	[kg total weight]	[kg total weight]	[kg total weight] 720	[kg total weight] 960
0 5	[kg total weight]	[kg total weight]	[kg total weight] 720 705	[kg total weight] 960 940
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 720 705 691	[kg total weight] 960 940 921
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 720 705 691 676	[kg total weight] 960 940 921 901
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 720 705 691 676 661	[kg total weight] 960 940 921 901 882
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 720 705 691 676 661 647	[kg total weight] 960 940 921 901 882 862
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 720 705 691 676 661 661 647 632	[kg total weight] 960 940 921 901 882 862 862 843
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 720 705 691 676 661 647 632 617	[kg total weight] 960 940 921 901 882 862 862 843 843 823
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 720 705 691 676 661 661 647 632 617 603	[kg total weight] 960 940 921 901 882 862 862 843 843 823 823 804

Load table for Kerto [®] Q \ge 50/50/4.5 [min. w x l x t = 50 x 50 x 4.5]						
	= 0°	= 45°				
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight]	[kg total weight]	[kg total weight] 2589	[kg total weight] 3452		
0 5	[kg total weight]	[kg total weight]	[kg total weight] 2589 2477	[kg total weight] 3452 3302		
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 2589 2477 2364	[kg total weight] 3452 3302 3152		
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 2589 2477 2364 2252	[kg total weight] 3452 3302 3152 3003		
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 2589 2477 2364 2252 2140	[kg total weight] 3452 3302 3152 3003 2853		
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 2589 2477 2364 2252 2140 2027	[kg total weight] 3452 3302 3152 3003 2853 2703		

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis.

The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

Load table for Kerto® Q ≥ 50/50/6.9 [min. w x x t = 50 x 50 x 6.9]							
	= 0°	= 45°					
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)			
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]			
0	[kg total weight]	[kg total weight]	[kg total weight] 3330	[kg total weight] 4440			
0	[kg total weight]	[kg total weight]	[kg total weight] 3330 3179	[kg total weight] 4440 4239			
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 3330 3179 3029	[kg total weight] 4440 4239 4038			
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 3330 3179 3029 2878	[kg total weight] 4440 4239 4038 3837			
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 3330 3179 3029 2878 2727	[kg total weight] 4440 4239 4038 3837 3636			
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 3330 3179 3029 2878 2727 2577	[kg total weight] 4440 4239 4038 3837 3636 3436			
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 3330 3179 3029 2878 2727 2577 2426	[kg total weight] 4440 4239 4038 3837 3636 3436 3235			
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 3330 3179 3029 2878 2727 2577 2426 2275	[kg total weight] 4440 4239 4038 3837 3636 3436 3235 3034			
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 3330 3179 3029 2878 2727 2577 2426 2275 2125	[kg total weight] 4440 4239 4038 3837 3636 3436 3235 3034 2833			

Load table for 3_L panel (50%/50%) ≥ 50/50/2.7 [min. w x x t = 50 x 50 x 2.7]						
	= 0°	= 45°				
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0			1179	1572		
5			1113	1484		
10			1048	1397		
15			982	1309		
20	not normittad	not normitted	916	1222		
25	noi permined	noi perminea	851	1134		
30			785	1047		
35			719	959		
40			654	872		

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*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

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	Load table	e tor OSB \geq 50/50/2.2 [min. w x x t	= 50 x 50 x 2.2]			
	= 0°	= 45°				
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)		
		i da se				
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight]	[kg total weight]	[kg total weight] 450	[kg total weight] 600		
0 5	[kg total weight]	[kg total weight]	[kg total weight] 450 436	[kg total weight] 600 581		
0 5 10	[kg total weight]	[kg total weight]	[kg total weight] 450 436 422	[kg total weight] 600 581 563		
0 5 10 15	[kg total weight]	[kg total weight]	[kg total weight] 450 436 422 408	[kg total weight] 600 581 563 544		
0 5 10 15 20	[kg total weight]	[kg total weight]	[kg total weight] 450 436 422 408 394	[kg total weight] 600 581 563 544 525		
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 450 436 422 408 394 380	[kg total weight] 600 581 563 544 525 507		
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 450 436 422 408 394 380 380 366	[kg total weight] 600 581 563 544 525 525 507 488		
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 450 436 422 408 394 380 366 352	[kg total weight] 600 581 563 544 525 507 488 469		
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] 450 436 422 408 394 380 366 352 338	[kg total weight] 600 581 563 544 525 507 488 489 469 451		



10		30/	490
15		341	455
20		315	420
25		288	384
30		262	349
35		236	314
40		209	279
45	Suspension between the webs 3–4-leg	183	244

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis.

The minimum distance to the top layer's outer surface when mounted on the CDT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

	Load table fo	r box beam element eggo®/EGG HOLZ	KÄLIN AG in the web				
	= 0°	= 45°					
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)			
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]			
0	[kg total weight]	[kg total weight] 394	[kg total weight] 591	[kg total weight] 788			
0	[kg total weight]	[kg total weight] 394 367	[kg total weight] 591 551	[kg total weight] 788 735			
0 5 10	[kg total weight]	[kg total weight] 394 367 341	[kg total weight] 591 551 512	[kg total weight] 788 735 682			
0 5 10 15	[kg total weight]	[kg total weight] 394 367 341 315	[kg total weight] 591 551 512 472	[kg total weight] 788 735 682 629			
0 5 10 15 20	[kg total weight]	[kg total weight] 394 367 341 315 288	[kg total weight] 591 551 512 472 432	[kg total weight] 788 735 682 629 576			
0 5 10 15 20 25	[kg total weight] not permitted	[kg total weight] 394 367 341 315 288 262	[kg total weight] 591 551 512 472 432 393	[kg total weight] 788 735 682 629 576 576 524			
0 5 10 15 20 25 30	[kg total weight] not permitted	[kg total weight] 394 367 341 315 288 262 262 235	[kg total weight] 591 551 512 472 432 393 353	[kg total weight] 788 735 682 629 576 524 471			
0 5 10 15 20 25 30 35	[kg total weight] not permitted	[kg total weight] 394 367 341 315 288 262 262 235 209	[kg total weight] 591 551 512 472 432 393 353 353 313	[kg total weight] 788 735 682 629 576 524 471 418			
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted	[kg total weight] 394 367 341 315 288 262 262 235 209 183	[kg total weight] 591 551 512 472 432 393 353 353 313 274	[kg total weight] 788 735 682 629 576 524 471 418 365			



SUSPENSION IN THE WEB 3-4-LEG



SUSPENSION IN THE WEB 2-LEG

*Very highly resinous woods, such as pine and larch or CLT walls attached at the end, may only be lifted at an angle of \ge 5° to the drill hole axis and across a number of beams. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2 cm. The minimum distance between the fastening points is at least 50 cm. The minimum distance of the fastening points from the beam or panel edge is at least 25 cm.

PICK SAFETY EVALUATION:

For the Pick's safe use, the following safety requirements apply:







The sliding surfaces of the expansion wedges and expansion cones must have a uniform surface without tangible grooves. Contaminations must be removed as shown in Figure 1.







PICK MAX TRANSPORT ANCHOR

The Pick MAX transport anchor allows for the easy and efficient lifting of wooden parts such as plywood, laminated timber and solid timber. The system developed in Austria impresses with a load cycle of up to 16,000 lifting operations and a payload of up to 2,400 kilograms per fastening point. It only requires a blind hole with a diameter of 50 millimetres and a depth of 140 millimetres to carry out the assembly. As a result, the surface quality remains untouched and no additional fastening screws are required. The Pick MAX transport anchor is supplied as a system case. The System Case contains the following parts: **2 pick transport anchors, 2 shackles Drill HMB, IBG drill bell.**



Art. no.	Dimension [mm] ^{a)}	PU
110363	300 x 100	1 system case
a) Length x diameter		

ADVANTAGES/SPECIFICATIONS

- · Payloads of up to 2,400 kg per fastening point
- $\cdot\,$ Attached in a few simple steps, no need to align the lifting tackle.
- The visible quality of the surfaces is not affected; no fastening screws are required.
- · Long service life: 16,000 load cycles (in accordance with EN 13155:2020)
- · Versatile application: on the front side, panel side or on the cross-beam side for all types of beams

Note

- · The specifications of the operating instructions included with the product must be observed
- Have the load-handling equipment checked once a year by authorised persons.
 You can find the details in the enclosed operating instructions.
- · Document your inspections in the maintenance book of the operating instructions.
- · Feel free to take advantage of the Pick Check offer at any time.
- The Pick MAX Transport Anchor is supplied in a system case as a set for 2 lifting points and the necessary installation material. required for installation.
- The hole can be used for lifting a maximum of 6 times.
- The lifting anchor can be used a maximum of 16,000 times.

EDGE DISTANCES CROSS-LAMINATED TIMBER



EDGE DISTANCES CROSS-LAMINATED TIMBER



EDGE DISTANCES SOLID WOOD





ATTENTION:

The reduction factor γ_M for beam heights must be taken into account, so that the proof for the transverse tension can be omitted for these cross-sections.

 γ_m for beam heights 80 cm-120 cm = 1.1 γ_m for beam heights 120 cm-180 cm = 1.25 γ_m for beam heights 180 cm-240 cm = 1.4

Example: Beam height = 100 cm, lifting angle 30° 2-leg → 3397 kg/1.1 = 3088 kg



10	2166	4332		8665	
15	2049	4099		8197	
20	1932	3865	9744	7730	5400
25	1816	3631	2/44	7262	J400
30	1699	3397		6795	
35	1582	3164		6327	
40	1465	2930		5860	
45	1348	2696		5392	

Load table for cross-laminated timber 10 cm wall panels 3-L [min. w x h x l = $100 \times 100 \ge 10$]						
	= 0°	= 45°	max. = total weight/2		max. = total weight/2	
			90°	ţ,		

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]
0	not permitted	not permitted		not permitted	
5	1272	2545		5089	
10	1220	2439		4879	
15	1167	2334		4668	
20	1114	2229	1 000	4457	2000
25	1062	2123	1000	4247	3000
30	1009	2018		4036	
35	956	1913		3825	
40	904	1807		3615	
45	851	1702		3404	

*Very highly resinous woods, such as pine and larch or CLI walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2.5 cm. The minimum distance between the fastening points is at least 100 cm.

The minimum distance of the fastening points from the beam or panel edge is at least 50 cm.

The operator is responsible for a sufficient transmission of force from the top plate to the post, SIHGA® accepts no liability for this.

Attention: the centre distance of the posts for timber-framed walls must not exceed 62.5 cm.



Load table for cross-laminated timber 12 cm wall panels 3-L [min. w x h x l = $100 \times 100 \ge 12$]							
	= 0°	= 45°	max. = total weight/2		max. = total weight/2		
			90°				
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse		
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]		
0	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight]	[kg total weight] not permitted	[kg total weight]		
0	[kg total weight] not permitted 1467	[kg total weight] not permitted 2935	[kg total weight]	[kg total weight] not permitted 5869	[kg total weight]		
0 5 10	[kg total weight] not permitted 1467 1399	[kg total weight] not permitted 2935 2797	[kg total weight]	[kg total weight] not permitted 5869 5595	[kg total weight]		
0 5 10 15	[kg total weight] not permitted 1467 1399 1330	[kg total weight] not permitted 2935 2797 2660	[kg total weight]	[kg total weight] not permitted 5869 5595 5320	[kg total weight]		
0 5 10 15 20	[kg total weight] not permitted 1467 1399 1330 1261	[kg total weight] not permitted 2935 2797 2660 2523	[kg total weight]	[kg total weight] not permitted 5869 5595 5320 5045	[kg total weight]		
0 5 10 15 20 25	[kg total weight] not permitted 1467 1399 1330 1261 1193	[kg total weight] not permitted 2935 2797 2660 2523 2385	[kg total weight] 1700	[kg total weight] not permitted 5869 5595 5320 5045 4771	[kg total weight] 3400		
0 5 10 15 20 25 30	[kg total weight] not permitted 1467 1399 1330 1261 1193 1124	[kg total weight] not permitted 2935 2797 2660 2523 2385 2248	[kg total weight] 1700	[kg total weight] not permitted 5869 5595 5320 5045 4771 4496	[kg total weight] 3400		
0 5 10 15 20 25 30 35	[kg total weight] not permitted 1467 1399 1330 1261 1193 1124 1055	[kg total weight] not permitted 2935 2797 2660 2523 2385 2248 2111	[kg total weight]	[kg total weight] not permitted 5869 5595 5320 5045 4771 4496 4221	[kg total weight] 3400		
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted 1467 1399 1330 1261 1193 1124 1055 987	[kg total weight] not permitted 2935 2797 2660 2523 2385 2248 2111 1973	[kg total weight] 1700	[kg total weight] not permitted 5869 5595 5320 5045 4771 4496 4221 3947	[kg total weight] 3400		

Load table for cross-laminated timber 10 cm wall panels 3-L [min. w x h x l = 100 x 100 \ge 10]								
	= 0°	= 45°	max. = total weight/2		max. = total weight/2			
			90°	Ŷ				
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse			
			et 1 1.2	et and a lat				

					11 U V CI 3C
	[kg total weight]				
0	not permitted	not permitted		not permitted	
5	2226	4451 4102		8902	
10	2051	4102		8204	
15	1877	3753		7507	
20	1702	3404	1745	6809	2520
25	1528	1528 3056	1/05	6111	2720
30	1353	2707		5413	
35	1179	2358		4716	
40	1004 2009	2009		4018	
45	830	1660		3320	

*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \ge 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2.5 cm. The minimum distance between the fastening points is at least 100 cm. The minimum distance of the fastening points from the beam or panel edge is at least 50 cm.



	Load table for cross-laminated timber 12 cm wall panels 5-L [min. w x h x l = 100 x 100 ≥ 12]													
	= 0°	= 45°	max. = total weight/2		max. = total weight/2									
			90°/	Ŷ										
Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse									
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]									
0	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight]	[kg total weight] not permitted	[kg total weight]									
0	[kg total weight] not permitted 1862	[kg total weight] not permitted 3725	[kg total weight]	[kg total weight] not permitted 7449	[kg total weight]									
0 5 10	[kg total weight] not permitted 1862 1752	[kg total weight] not permitted 3725 3503	[kg total weight]	[kg total weight] not permitted 7449 7007	[kg total weight]									
0 5 10 15	[kg total weight] not permitted 1862 1752 1641	[kg total weight] not permitted 3725 3503 3282	[kg total weight]	[kg total weight] not permitted 7449 7007 6564	[kg total weight]									
0 5 10 15 20	[kg total weight] not permitted 1862 1752 1641 1530	[kg total weight] not permitted 3725 3503 3282 3061	[kg total weight]	[kg total weight] not permitted 7449 7007 6564 6121	[kg total weight]									
0 5 10 15 20 25	[kg total weight] not permitted 1862 1752 1641 1530 1420	[kg total weight] not permitted 3725 3503 3282 3061 2839	[kg total weight] 1765	[kg total weight] not permitted 7449 7007 6564 6121 5679	[kg total weight] 3530									
0 5 10 15 20 25 30	[kg total weight] not permitted 1862 1752 1641 1530 1420 1309	[kg total weight] not permitted 3725 3503 3282 3061 2839 2618	[kg total weight] 1765	[kg total weight] not permitted 7449 7007 6564 6121 5679 5236	[kg total weight] 3530									
0 5 10 15 20 25 30 35	[kg total weight] not permitted 1862 1752 1641 1530 1420 1309 1198	[kg total weight] not permitted 3725 3503 3282 3061 2839 2618 2397	[kg total weight] 1765	[kg total weight] not permitted 7449 7007 6564 6121 5679 5236 4793	[kg total weight] 3530									
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted 1862 1752 1641 1530 1420 1309 1198 1088	[kg total weight] not permitted 3725 3503 3282 3061 2839 2618 2397 2175	[kg total weight] 1765	[kg total weight] not permitted 7449 7007 6564 6121 5679 5236 4793 4351	[kg total weight] 3530									

= 0° = 45° max. = total weight/2 max. = total	Load table for cross-laminated timber 16 cm wall panels 5-L [min. w x h x l = 100 x 100 \ge 16]												
	l weight/2												

Angle	1-leg*	2-leg lifting	2-leg turning	2 x 2-leg with traverse sling and traverse	2 x 2-leg turning with traverse sling and traverse						
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]						
0	not permitted	not permitted		not permitted							
5	1962	3924		7848							
10	1827	27 3654		7307							
15	1692 3383		6767								
20	1557	3113	1000	6226	2000						
25	1421	2843	1700	5686	2000						
30	1286	2573		5145							
35	1151	2302		4605							
40	1016	2032		4064							
45	881	1762		3524							



*Very highly resinous woods, such as pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of \geq 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT panel's front side is at least 2.5 cm. The minimum distance between the fastening point is at least 100 cm.

The minimum distance of the fastening points from the beam or panel edge is at least 50 cm.

LOAD DATA ROCKER

Load table for cross-laminated timber 16 cm wall panels min. 5-L [min. w x h x l = 100 x 100 \ge 16]												
	= 0°	= 45°										
Angle	1-leg*	2-leg lifting	3-leg	4-leg (only with rocker)								
	[kg total weight]	[kg total weight]	[kg total weight]	[kg total weight]								
0	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] not permitted	[kg total weight] not permitted								
0 5	[kg total weight] not permitted 1979	[kg total weight] not permitted 3957	[kg total weight] not permitted 5936	[kg total weight] not permitted 7914								
0 5 10	[kg total weight] not permitted 1979 1853	[kg total weight] not permitted 3957 3706	[kg total weight] not permitted 5936 5559	[kg total weight] not permitted 7914 7412								
0 5 10 15	[kg total weight] not permitted 1979 1853 1728	[kg total weight] not permitted 3957 3706 3455	[kg total weight] not permitted 5936 5559 5183	[kg total weight] not permitted 7914 7412 6911								
0 5 10 15 20	[kg total weight] not permitted 1979 1853 1728 1602	[kg total weight] not permitted 3957 3706 3455 3204	[kg total weight] not permitted 5936 5559 5183 4807	[kg total weight] not permitted 7914 7412 6911 6409								
0 5 10 15 20 25	[kg total weight] not permitted 1979 1853 1728 1602 1477	[kg total weight] not permitted 3957 3706 3455 3204 2954	[kg total weight] not permitted 5936 5559 5183 4807 4430	[kg total weight] not permitted 7914 7412 6911 6409 5907								
0 5 10 15 20 25 30	[kg total weight] not permitted 1979 1853 1728 1602 1477 1351	[kg total weight] not permitted 3957 3706 3455 3204 2954 2703	[kg total weight] not permitted 5936 5559 5183 4807 4430 4054	[kg total weight] not permitted 7914 7412 6911 6409 5907 5405								
0 5 10 15 20 25 30 35	[kg total weight] not permitted 1979 1853 1728 1602 1477 1351 1226	[kg total weight] not permitted 3957 3706 3455 3204 2954 2703 2452	[kg total weight] not permitted 5936 5559 5183 4807 4430 4054 3678	[kg total weight] not permitted 7914 7412 6911 6409 5907 5405 4904								
0 5 10 15 20 25 30 35 40	[kg total weight] not permitted 1979 1853 1728 1602 1477 1351 1226 1100	[kg total weight] not permitted 3957 3706 3455 3204 2954 2703 2452 2201	[kg total weight] not permitted 5936 5559 5183 4807 4430 4430 4054 3678 3301	[kg total weight] not permitted 7914 7412 6911 6409 5907 5405 4904 4402								

Load table for timbered	ceiling \geq 16/16 C24 and GL24 [min. w	x h x l = 16 x 16 x 100]	
		Û	Û





Angle°	1-leg*	2-leg	3-leg	4-leg (only with rocker)				
			[kg total weight]	[kg total weight]				
0			7200	9600				
5			6615	8820				
10			8040					
15			5445	7260				
20			6480					
25	noi perminea	noi permineu	not permitted 4275					
30			4920					
35			3105	4140				
40			2520	3360				
45			1935	2580				



pine and larch or CLT walls where the fastening point is on the front side, may only be lifted at an angle of ≥ 5° to the drill hole axis. The minimum distance to the top layer's outer surface when mounted on the CLT ponel's front side is at least 2.5 cm. The minimum distance between the fastening points is at least 100 cm. The minimum distance of the fastening points from the beam or panel edge is at least 50 cm.

OPERATING INSTRUCTIONS PICK MAX



STEP 1:

After drilling, make sure that the drill hole is free of contaminations such as sawdust, water or oil, etc. The Pick is then inserted into the drill hole as far as it will go.



STEP 2:

In the next step, the lifting chain is attached to the Pick and lifted. During the lifting, the Pick's lamellae now separate and thus ensure that the object is stable during transport.



STEP 3:

To detach the Pick from the object again, all you need is a hammer. Use it to hit the head of the Pick to release the lamellae's grip.

PRODUCT INFO SYSTEM CASE PICK MAX® HMB

CONTENTS:

Two Pick Max[®] including shackle, Pick Max[®] drill HMB, IdeFix[®] drill bell IBG, one set of HMB replacement indexable inserts including screws, Allen key and operating instructions. Everything is delivered in a system case to provide a reliable and clean storage solution for all accessories.

The operating instructions are stored in the lid, so that all load values and safety regulations can be read on site.

PICK MAX® DRILL HMB WITH OPTIMISED GEOMETRY

For clean drilling in cross-laminated timber, laminated timber and solid timber, which allows for the Pick to be inserted easily into the drill hole, which is the best prerequisite for safe lifting.

PICK MAX® DRILL HMB

Made of high-quality steel and equipped with interchangeable carbide indexable inserts, this drill allows long-term use with a consistent drill-hole quality. This eliminates the need for downtimes caused by the need to re-sharpen the drill at a considerable cost.

PICK MAX® DRILL HMB WITH THREADED TIP

Since the drill bites on its own without any expenditure of force, this ensures it is centred even if the direction of the grain varies.

IDEFIX® DRILL BELL IBG INCLUDED

Makes achieving the right drilling depth easy, whereby unintentional drilling through is avoided, catches the wood chips and protects both the drill and against injury.







POCKET TRAVERSE

The Pocket Traverse is the definition of performance in a handy format. With its compact size, it is not only easy to transport but also extremely accessible. This innovative traverse revolutionises the way loads are lifted by connecting two load-handling equipment pieces to each other. This clever coupling doubles the load-bearing capacity, which is particularly advantageous for demanding applications. The Pocket Traverse's special patent-pending geometry ensures that the load is evenly distributed between the individual fastening points, even for lifting angles between 0° and 45°. This unique feature allows for precise handling even when dealing with complex geometries. The Pocket Traverse can also serve as a balancing rocker, so that all four chain legs can be evenly loaded during 4-leg lifting. With its impressive load capacity of 2,500 kg, the Pocket Traverse sets new standards. When using two devices, loads of up to 5,000 kg can be lifted easily. This traverse is characterised by its long service life, achieving an impressive 16,000 load cycles. Low maintenance and reliable – it offers safety thanks to its CE marking, which ensures that all relevant standards have been complied with.



APPLICATION IMAGE



Application image Pocket Traverse

LOAD CASES



Eurotec | Timber engineering

NOTES:

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The specialist for fastening technology

EVEN MORE INFORMATION ABOUT LIFTING & TRANS-PORT SOLUTIONS





E.u.r.o.Tec GmbH

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