

RAPTOR MINI

SMALL RIGGING DEVICE FOR TIMBER ELEMENTS

FAST ASSEMBLY, SAFE LIFTING

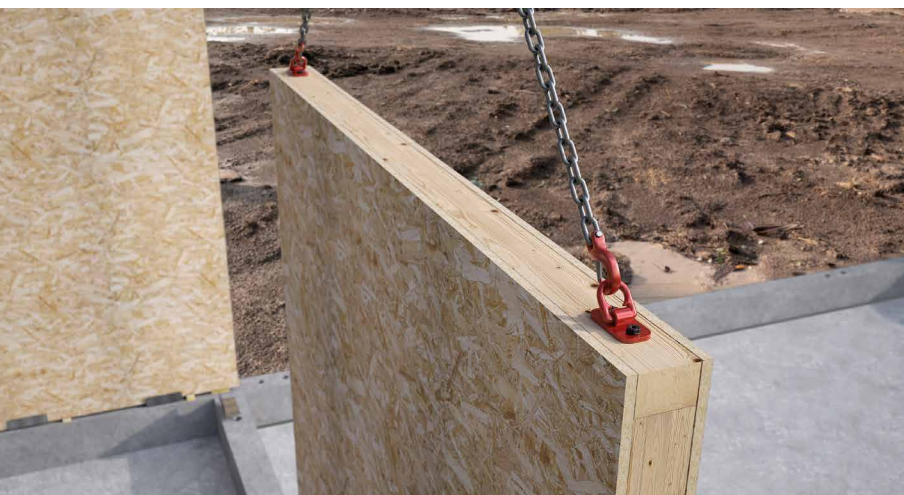
Thanks to fastening with just two screws, the transport plate can be mounted in an instant – ideal for efficient workflows on site or during production. The integrated, swivel lifting hook ensures a safe and flexible lifting process, even in confined spaces.

COMPACT AND VERSATILE

Whether for timber structures or small construction elements, the lifting plate is compact yet robust, offering true versatility. It saves time and improves worksite safety when handling multiple timber components.

CERTIFIED

The plate is certified according to the Machinery Directive 2006/42/EC for weights up to 1.5 tonnes.



FIELDS OF USE

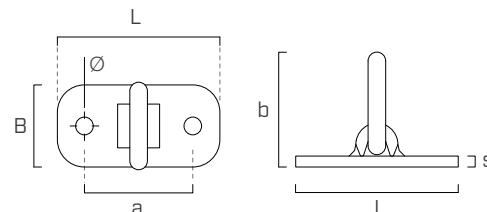
- Prefabricated timber frame walls
- Solid timber or glulam beams
- CLT panels for floor or wall
- Timber supports and columns
- Lightweight constructions for prefabricated roofs

CODE

CODE	plate sizes	max. capacity	suitable screws	pcs
			VGS PLATE Ø11 mm	
RAPMINI	60 x 120 mm 2 3/8" x 4 3/4"	1500 kg 3300 lbs	HBS PLATE/HBS PLATE EVO Ø10 mm VGS Ø11 mm (+ HUS10)	1

DIMENSIONS

CODE	B [mm] [in]	L [mm] [in]	s [mm] [in]	Ø [mm] [in]	a [mm] [in]	b [mm] [in]
RAPMINI	60 2 3/8	120 4 3/4	8 5/16	13 1/2	80 3 1/8	84 3 5/16



COMPATIBLE SCREWS

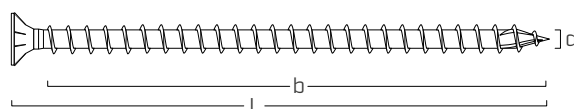
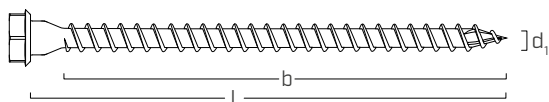
VGS PLATE

pan head screw for lifting



VGS

full thread screw
with countersunk head

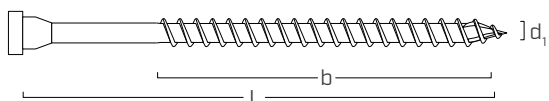


d ₁ [mm] [in]	CODE	L [mm]	b [mm]	L [in]	b [in]	pcs
11 0.44 SW17 TX50	VGSPL1160	60	50	2 3/8	1 7/8	25
	VGSPL1180	80	70	3 1/8	2 11/16	25
	VGSPL11100	100	90	4	3 7/16	25
	VGSPL11120	120	110	4 3/4	4 1/4	25
	VGSPL11140	140	130	5 1/2	5 1/16	25
	VGSPL11160	160	150	6 1/4	5 13/16	25
	VGSPL11180	180	170	7 1/8	6 5/8	25
	VGSPL11200	200	190	8	7 3/8	25
	VGSPL11240	240	230	9 1/2	9	25
	VGSPL11280	280	270	11	10 9/16	25

d ₁ [mm] [in]	CODE	L [mm]	b [mm]	L [in]	b [in]	pcs
11 0.44 TX 50	VGS1180	80	70	3 1/8	2 3/4	25
	VGS11100	100	90	4	3 1/2	25
	VGS11125	125	115	4 15/16	4 1/2	25
	VGS11150	150	140	6	5 1/2	25
	VGS11175	175	165	6 7/8	6 1/2	25
	VGS11200	200	190	8	7 1/2	25
	VGS11225	225	215	8 7/8	8 7/16	25
	VGS11250	250	240	10	9 1/2	25
	VGS11275	275	265	10 7/8	10 7/16	25
	VGS11300	300	290	11 3/4	11 7/16	25
	VGS11325	325	315	12 3/4	12 3/8	25
	VGS11350	350	340	13 3/4	13 3/8	25
	VGS11375	375	365	14 3/4	14 3/8	25
	VGS11400	400	390	15 3/4	15 3/8	25

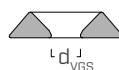
HBS PLATE - HBS PLATE EVO

pan head screw for plates



The VGS screw can only be installed in combination with HUS washer.

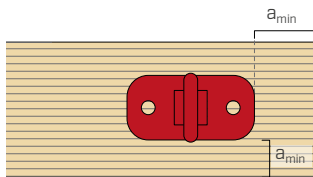
HUS - turned washer



d ₁ [mm] [in]	CODE	L [mm]	b [mm]	L [in]	b [in]	pcs
10 0.40 TX 40	HBSPLEVO1060	60	52	2 3/8	2 1/16	50
	HBSPL1080	80	60	3 1/8	2 3/8	50
	HBSPL10100	100	75	4	2 15/16	50
	HBSPL10120	120	95	4 3/4	3 3/4	50
	HBSPL10140	140	110	5 1/2	4 3/8	50
	HBSPL10160	160	130	6 1/4	5 1/8	50
	HBSPL10180	180	150	7 1/8	6	50

CODE	d _{VGS} [mm] [in]	pcs
HUS10	11 0.44	50

RAPTOR MINI INSTALLATION

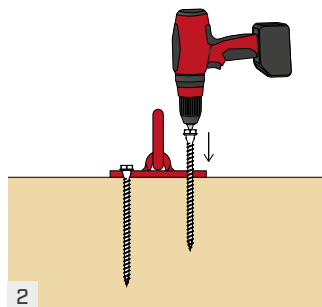


1

Read the instructions for use carefully and follow the directions. The positioning of the plate on the timber element must comply with the minimum recommended distances.

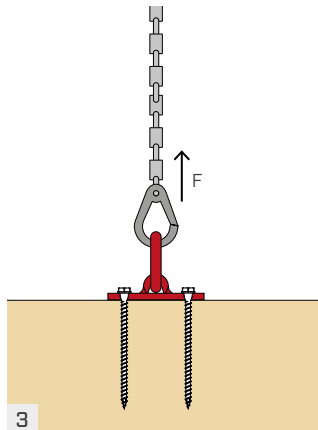


HBSP L Ø10 $M_{ins,max} = 35 \text{ Nm}$
VGS | VSGPL Ø11 $M_{ins,max} = 40 \text{ Nm}$



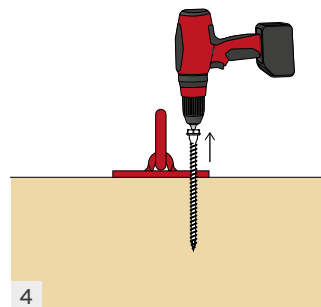
2

Screw length depends on the application and weight of the element to be moved. It is recommended to tighten them in accordance with the tightening torques indicated in the relevant installation instructions.



3

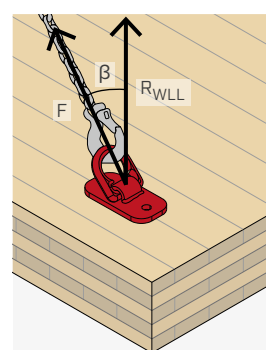
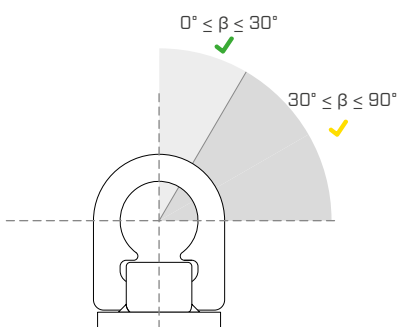
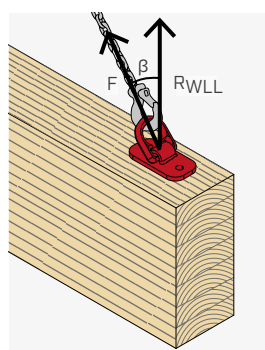
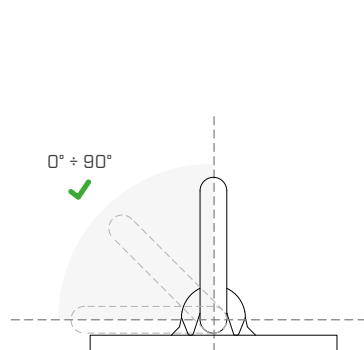
Connect the crane hook and carefully lift the element. Be careful at the corners and the allowed lifting directions and corresponding maximum lifting capacities.



4

When lifting is complete, remove the screws and dispose of them. They can be used for a single lifting operation, except the VGS PL, which is reusable for transport under specific conditions. See the instructions.

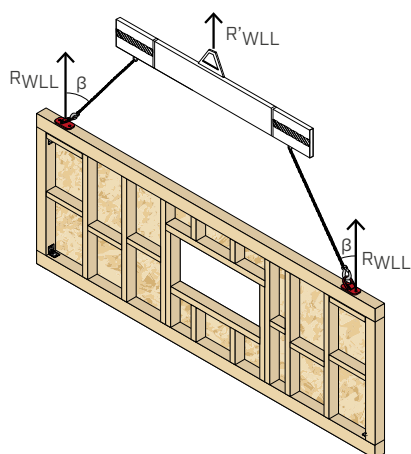
LOAD DIRECTIONS ALLOWED



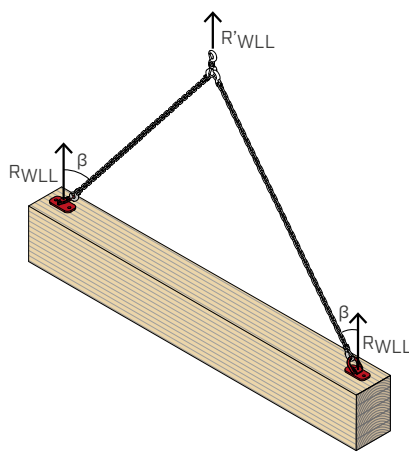
APPLICATION EXAMPLES

To consult the detailed technical tables with load values for different applications, visit the dedicated section on the official Rothoblaas website: www.rothoblaas.com.

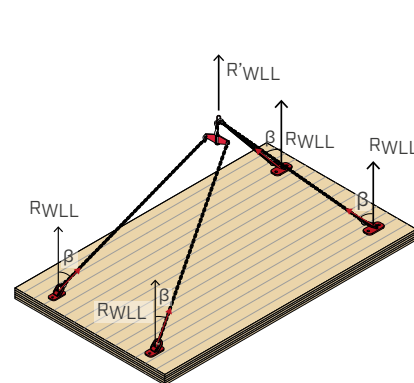
FRAME WALL



HORIZONTAL BEAM



HORIZONTAL CLT PANEL



R_{WLL} = reference rigging capacity for a single anchor system
 R'_{WLL} = total system rigging capacity
 β = lifting angle (angle between vertical axis and chain)

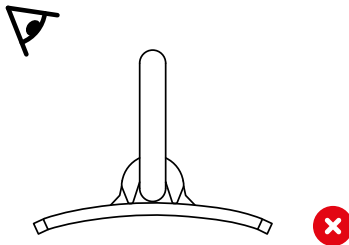
MINIMUM DISTANCES

For detailed information on the minimum usage distances of the lifting system, consult the full technical data sheet available at www.rothoblaas.com.

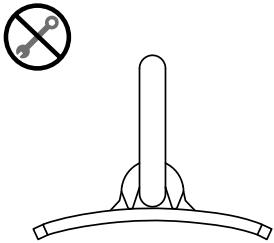
MAINTENANCE



Always follow the instructions in the manual.



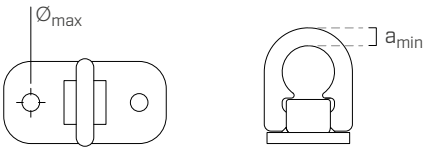
Visual inspection before each use. If there are any defects, the product must not be used again.



Repairs are not permitted!

DIMENSIONS TO BE CHECKED

CODE	\varnothing_{\max} [mm]	a_{\min} [mm]	\varnothing_{\max} [in]	a_{\min} [in]
RAPMINI	13,5	12,5	0.53	0.49



GENERAL PRINCIPLES:

- The use of pulse screw guns/impact wrenches is not permitted. Respect the insertion angle with the help of a pilot hole and/or installation template. Avoid bending. Ensure correct tightening. We recommend the use of torque-controlled screwdrivers, e.g. with TORQUE LIMITER. Alternatively, tighten with a torque wrench.
- The load capacity of the system depends primarily on the screws. The maximum permitted capacity of the transport plate is indicated above. The screw load capacity has been calculated for selected exemplary applications and can be consulted in the detailed technical data sheet at www.rothoblaas.com.
- The lifting plate may only be used by qualified personnel. The user manual (supplied with the product and available at www.rothoblaas.com) must be read and understood before use. The information and instructions contained therein must be followed. If in doubt, contact the Rothoblaas Technical Department before use.



The **data sheet** complete with **structural values** is available at www.rothoblaas.com

