

# RAPTOR MAXI

## LARGE RIGGING DEVICE FOR TIMBER ELEMENTS

### VARIABLE LOAD CAPACITY DUE TO VARIABLE NUMBER OF SCREWS

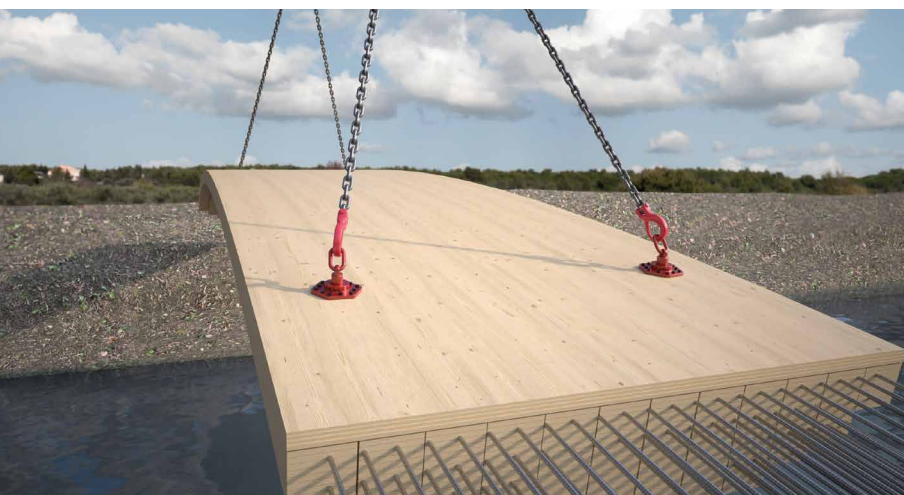
The transport plate allows effective load management thanks to the possibility for fastening with 6, 8, 10 or 12 screws – ideal for heavy components and high safety requirements.

### SELF-ALIGNING HOOK

The integrated lifting hook is rotatable, allowing attachment from any direction without the need for alignment – for efficient and safe on-site handling.

### CERTIFIED

The plate is certified according to the Machinery Directive 2006/42/EC for weights up to 7.0 tonnes.



### FIELDS OF USE

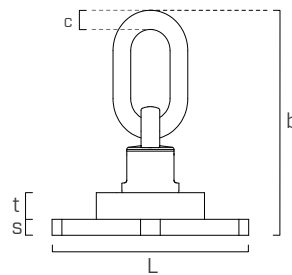
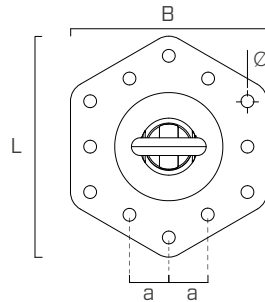
- Heavy prefabricated modules
- Large CLT and hybrid (timber-concrete) floor panels
- Large timber beams
- Heavy special timber constructions

## CODE

CODE	plate sizes	max. capacity	suitable screws	pcs
RAPMAXI	120 x 200 mm 4 3/4" x 8"	7000 kg 15430 lbs	VGS PLATE Ø11 mm HBS PLATE Ø10 mm VGS Ø11 mm (+ HUS10)	1

## DIMENSIONS

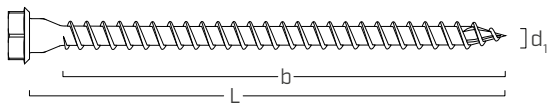
CODE	B	L	s	Ø	a	b	c	d	B	L	s	Ø	a	b	c	d
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]
RAPTOR	120	200	15	25	13	46	210	18	4 3/4	8	9/16	1	1/2	1 13/16	8 1/4	11/16



## COMPATIBLE SCREWS

### VGS PLATE

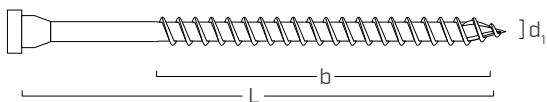
pan head screw for lifting



d <sub>1</sub> [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

### HBS PLATE - HBS PLATE EVO

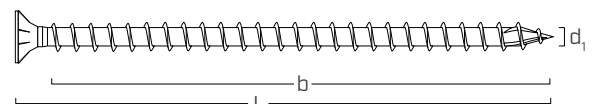
pan head screw for plates



d <sub>1</sub> [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

### VGS

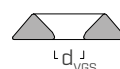
full thread screw  
with countersunk head



d <sub>1</sub> [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

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

### HUS - turned washer

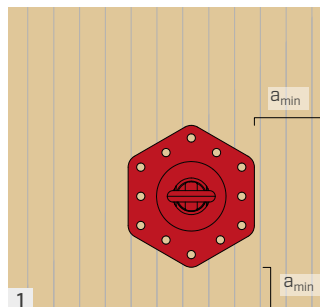


CODE	d <sub>VGS</sub> [mm] [in]	pcs
HUS10	11 0.44	50

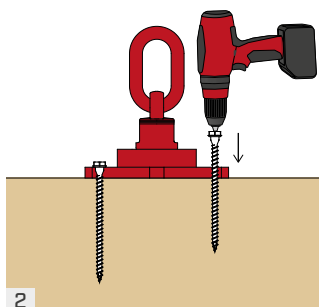
## RAPTOR MAXI INSTALLATION



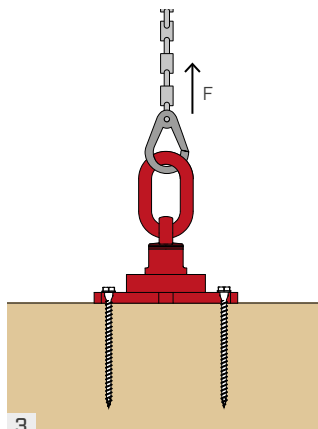
HBSPSPL Ø10  $M_{ins,max} = 35 \text{ Nm}$   
VGS | VGSPL Ø11  $M_{ins,max} = 40 \text{ Nm}$



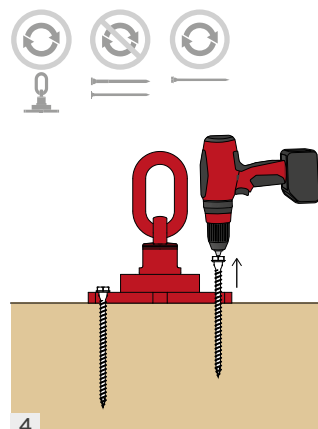
1 Read the instructions for use carefully and follow the directions. The positioning of the plate on the timber element must comply with the minimum recommended distances.



2 Length and quantity of screws depend on the application and the 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.

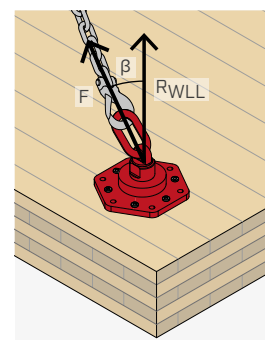
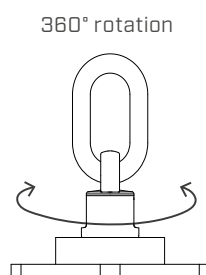
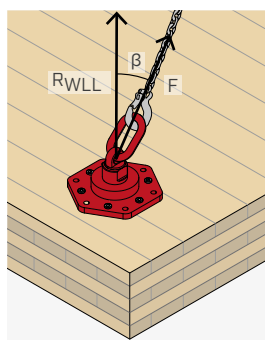
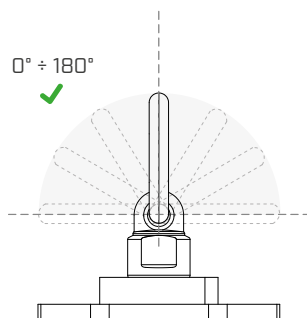


3 Connect the crane hook and carefully lift the element. Be careful at the corners and about the allowed lifting directions and corresponding maximum lifting capacities.

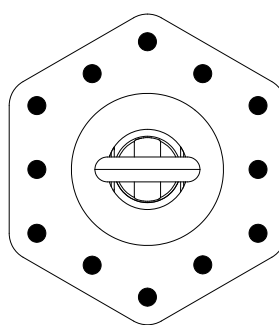
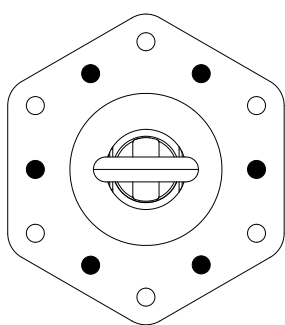


4 When lifting is complete, remove the screws and dispose of them. They can be used for a single lifting operation, except the VGS PL, which is reusable for transport under specific conditions. See the instructions.

### LOAD DIRECTIONS ALLOWED



### POSSIBLE LAYOUT OF SCREWS



#### VGS PLATE



x8 VGS PLATE  
x12 VGS PLATE

#### HBS PLATE - HBS PLATE EVO



x8 HBS PLATE  
x12 HBS PLATE

#### VGS + HUS

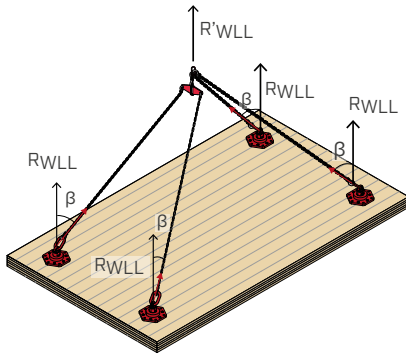


x6 VGS + x6 HUS  
x12 VGS + x12 HUS

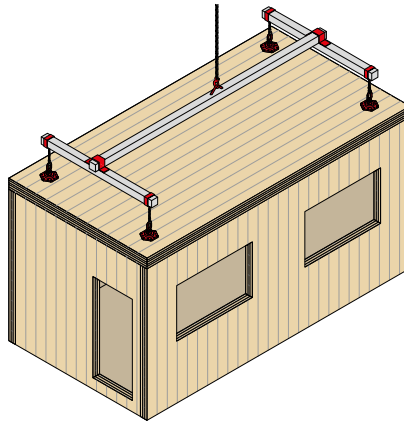
## APPLICATION EXAMPLES

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

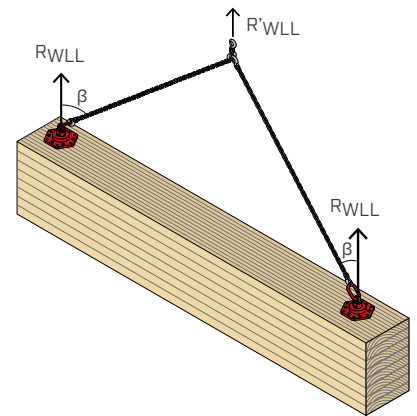
### VERTICAL CLT PANEL



### PREFABRICATED MODULAR CONSTRUCTIONS



### HORIZONTAL BEAM



$RWLL$  = reference rigging capacity for a single anchor system

$R'WLL$  = total system rigging capacity

$\beta$  = lifting angle (angle between vertical axis and chain)

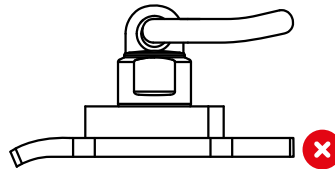
## MINIMUM DISTANCES

For detailed information on the minimum usage distances of the lifting system, consult the full technical data sheet available at [www.rothoblaas.com](http://www.rothoblaas.com).

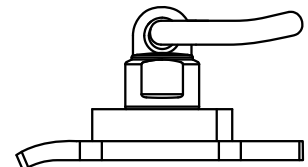
## MAINTENANCE



Always follow the instructions in the manual.



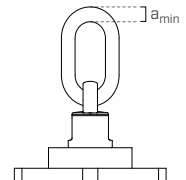
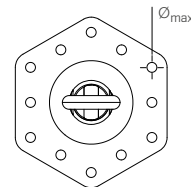
Visual inspection before each use. If there are any defects, the product must not be used again.



Repairs are not permitted!

### DIMENSIONS TO BE CHECKED

CODE	$\varnothing_{max}$ [mm]	$a_{min}$ [mm]	$\varnothing_{max}$ [in]	$a_{min}$ [in]
RAPMAXI	13,5	16,5	0.53	0.65



### GENERAL PRINCIPLES:

- 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](http://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](http://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](http://www.rothoblaas.com)

