GIRAFFE

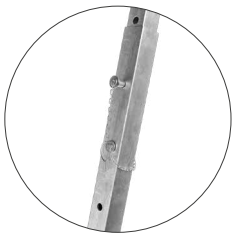
ASSEMBLY SUPPORT

CALCULATION TOOL | MANUALS | VIDEO

PRACTICAL
For quick and easy assembly of walls and floors made of timber elements.

PRECISE
Quick adjustment with automatic lock.

LENGTH
The 6,0 metre long version offers support even over long distances.



GIR2200
GIR4000
GIR6000

GIR2200
GIR3000
GIR4000

GIR3000

GIR6000

GIR451000

GIR451000 GIR2200 GIR3000 GIR4000 GIR6000

VIDEO
Scan the QR Code and watch the video on our YouTube channel

MATERIAL

GIR3000, GIR4000 and GIR451000 in zinc plated steel; GIR2200 and GIR6000 in extruded 6060 aluminium.

FIELDS OF USE

Temporary support for the assembly of CLT floors and walls, prefabricated timber framing elements, glulam supports and pillars and more.

TWO STOREYS

GIR6000 acts as a practical and safe support, ideal even in case of distant elements extending over two storeys.

QUICK ASSEMBLY WITH CLICK PLATE

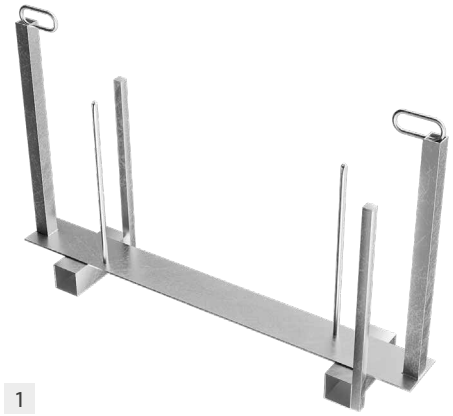
With the new optional click plate, the assembly support can be secured to the top point without the use of ladders. This saves time during installation and improves safety.

CODES AND DIMENSIONS

CODE	length		profile		weight		adjustment		pcs
	[mm]	*[ft]*	[mm]	*[in]*	[kg]	*[lbs]*	[mm]	*[in]*	
GIR451000	1000	*3.28*	40x40	*1.57 x 1.57*	2,8	*6.1*	not adjustable		1
GIR2200	1180 - 2200	*3.87 - 7.22*	40x40 / 35x35	*1.57 x 1.57 / 1.53 x 1.53*	3,3	*7.4*	100 + 100	*3.94 + 3.94*	1
GIR3000(*)	1750 - 3000	*5.74 - 9.84*	40x40 / 35x35	*1.57 x 1.57 / 1.53 x 1.53*	9,8	*21.6*	100 + 100	*3.94 + 3.94*	1
GIR4000	1750 - 4000	*5.74 - 13.12*	45x45 / 40x40 / 35x35	*1.77 x 1.77 / 1.57 x 1.57 / 1.53 x 1.53*	13,0	*28.7*	100 + 100	*3.94 + 3.94*	1
GIR6000	2120 - 6000	*6.96- 19.70*	80x80 / 68x68 / 55x55	*3.15 x 3.15 / 2.68 x 2.68 / 2.16 x 2.16*	27,0	*59.5*	135 + 135	*5.31 + 5.31*	1

(*) With locking stop.

COMPLEMENTARY PRODUCTS - ACCESSORIES



1

2

3

4

5

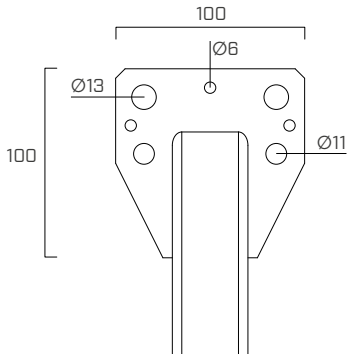
6

7

	CODE	description	pcs
1	**GIRHOLDER**	transport element compatible with 20x GIR3000, 20x GIR4000 or 8x GIR6000	1
2	**GIRPLATE**	small spare plate (without threaded rod)	1
3	**GIRPLATEL**	large spare plate (without threaded rod)	1
4	**GIRPLATE90**	spare plate with 90° edge	1
5	**GIRPLATECLICK**	plate with quick-attachment system for GIR6000	1
	METSP22	spare dowel for GIR2200	1
6	**METSP**	spare dowel for GIR4000	1
	METSP6	spare dowel for GIR6000	1
7	**METL**	lever stop with spare pin for GIR3000	1

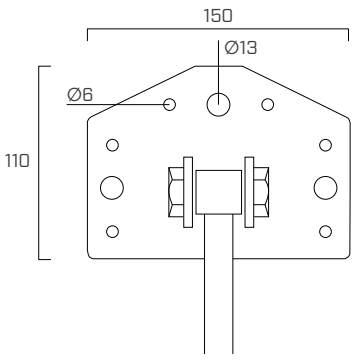
GEOMETRY

ANCHOR PLATE



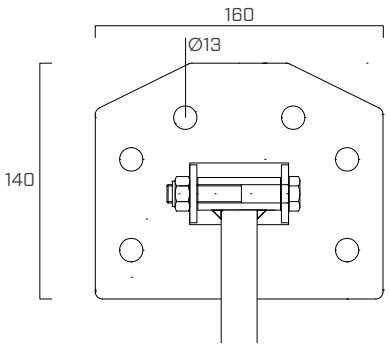
GIR451000

plate thickness		Ø hole		no. of holes
[mm]	*[in]*	[mm]	*[in]*	
4	*0.157*	Ø6	*0.24*	3
		Ø11	*0.43*	2
		Ø13	*0.51*	2



GIR2200/GIR3000/GIR4000

plate thickness		Ø hole		no. of holes
[mm]	*[in]*	[mm]	*[in]*	
4	*0.157*	Ø6	*0.24*	6
		Ø13	*0.51*	3

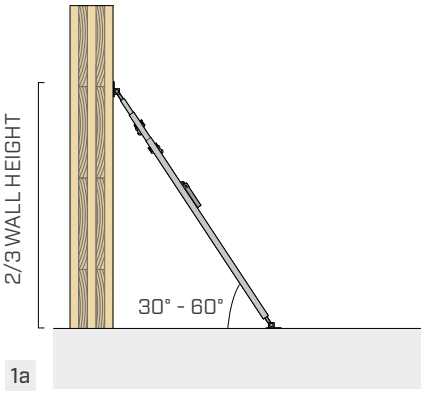


GIR6000

plate thickness		Ø hole		no. of holes
[mm]	*[in]*	[mm]	*[in]*	
4	*0.157*	Ø13	*0.51*	6

GIRAFFE INSTALLATION

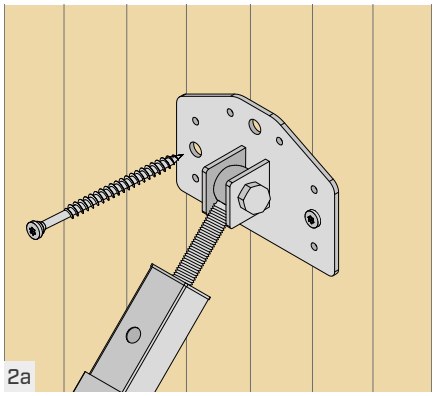
POSITIONING



Place GIRAFFE on the wall and adjust its length accordingly. The support must be applied in the upper third of the wall. The angle of GIRAFFE must be between 30° and 60°.

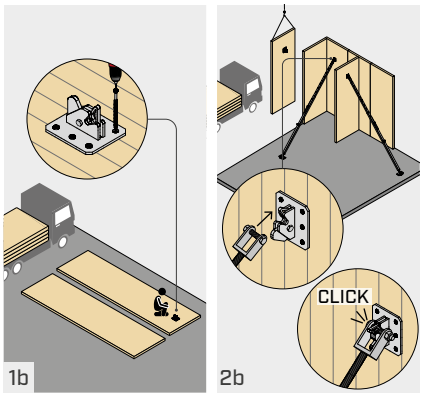
FASTENING

HBS PLATE Ø10



Fix the GIRAFFE plate to the wall using the HBS plate screws.

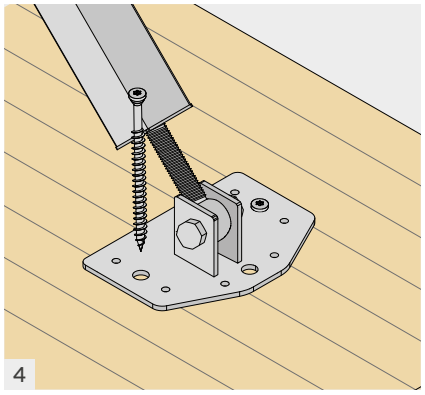
CLICK-IN ASSEMBLY SYSTEM



1b. The CLICK plate must be installed in the upper third of the wall before assembly.
2b. To install and secure GIRAFFE with the CLICK plate, simply click the assembly support into place, without the need for additional screws.

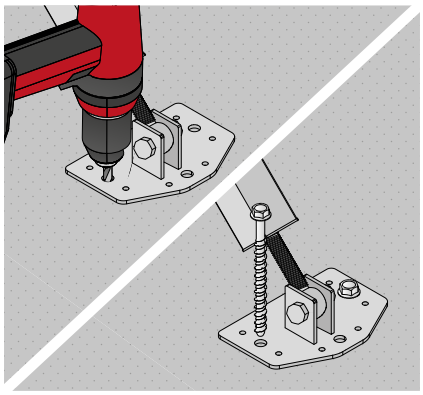
TIMBER FLOOR

HBS PLATE Ø10



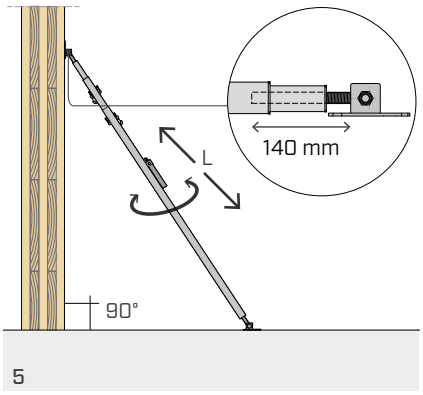
CONCRETE FLOOR

SKR Ø12



Fix the GIRAFFE plate to the timber floor using the HBS PLATE screws and to the concrete floor using SKR anchors.

POSITIONING



Position the wall precisely by setting the length of GIRAFFE by means of the adjustment handle.

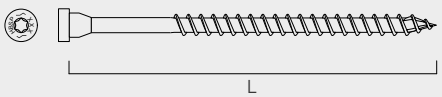
STORAGE:

After use on site, ensure the assembly support is dry before storage. If necessary, apply a lubricant or protective oil.

CONNECTORS:

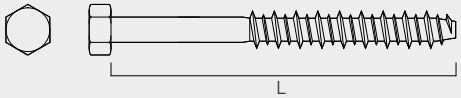
JOINT ON TIMBER - HOLES Ø13

CE
ETA-11/0030



HBS PLATE Ø10 - pan head screw
L = 100 - 180 mm*

JOINT ON CONCRETE - HOLES Ø13



SKR Ø12 - Screw anchor for concrete
L = 90 - 400 mm*

* The choice of connector length must be evaluated on a case-by-case basis, depending on the dimensions of the element to be supported, the type of support the GIRAFFE is used on, and the magnitude of the load to be sustained.

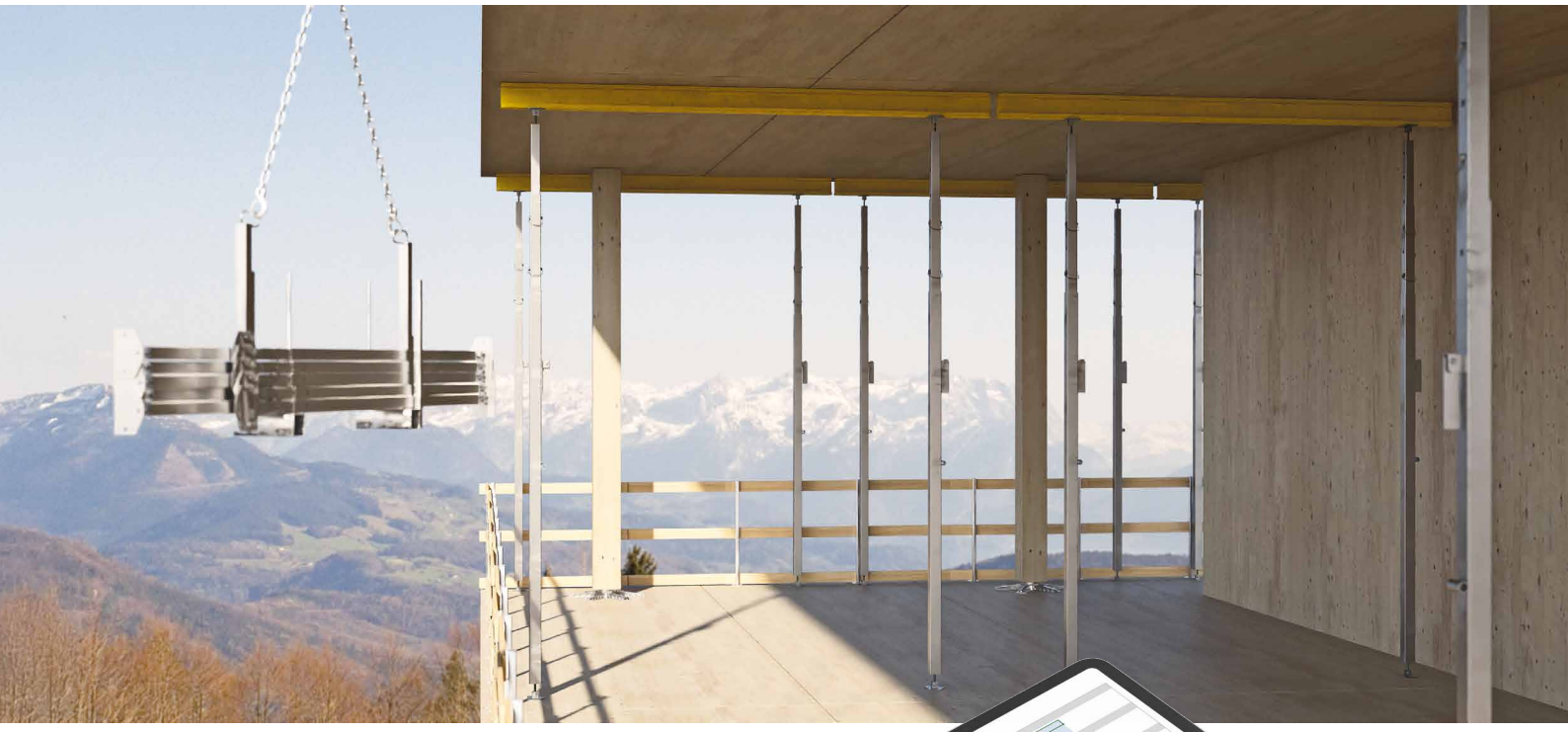
STRUCTURAL VALUES*

		GIR451000	GIR2200	GIR3000			GIR4000			GIR6000			
deflection	[m]	1,00	2,20	1,75	2,40	3,00	1,75	2,85	4,00	3,00	4,00	5,00	6,00
	[ft]	*3.3*	*7.2*	*5.7*	*7.9*	*9.8*	*5.7*	*9.4*	*13.1*	*9.8*	*13.1*	*16.4*	*19.7*
R_{max}	[kN]	**17,5**	**5,0**	**20,8**	**14,6**	**6,1**	**29,6**	**14,2**	**4,5**	**59,4**	**29,7**	**16,1**	**7,0**
	[lbf]	***3930***	***1125***	***4676***	***3282***	***1371***	***6654***	***3192***	***1011***	***13353***	***6677***	***3619***	***1573***

(*) The values indicated refer to the load capacity in the direction of the axis of the assembly support and have been determined based on tests and calculations. The values apply to both compressive and tensile forces and already include a safety factor.
Wall and floor fastenings must be verified separately.

NOTES:

- Load capacities have been determined according to standards EN 1995:2014, EN 1993:2005 and in compliance with certificate ETA-11/0030 and conducted tests. The load values refer exclusively to the specified assembly support, type of fastening and inclination angle.
- When fastening the bottom or top plate, the maximum permissible screwing torque of the fastenings elements must be observed.
- Prerequisites for the load-bearing capacity assumption are the complete screwing of the screws and compliance with the minimum distances from the edge in accordance with EN 1995-1-1.



GIRAFFE CALCULATOR

With the new calculation software, you can:

- **Create customised configurations,** quickly and easily.
- Calculate fastenings in concrete slabs using the dedicated additional module.

GIRAFFE CALCULATOR is a unique, user-friendly platform that is always available.

Available at rothoblaas.com

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