

GIRAFFE

ASSEMBLY SUPPORT



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.



GIR3000



GIR3000
GIR4000
GIR6000



GIR2200



GIR3000



GIR4000



GIR6000

CHARACTERISTICS

FOCUS	temporary assembly support
LENGTH	from 220 cm to 600 cm
LOAD CAPACITY	up to 280 kg
FASTENING	HBS PLATE Ø10, SKR Ø12

VIDEO

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

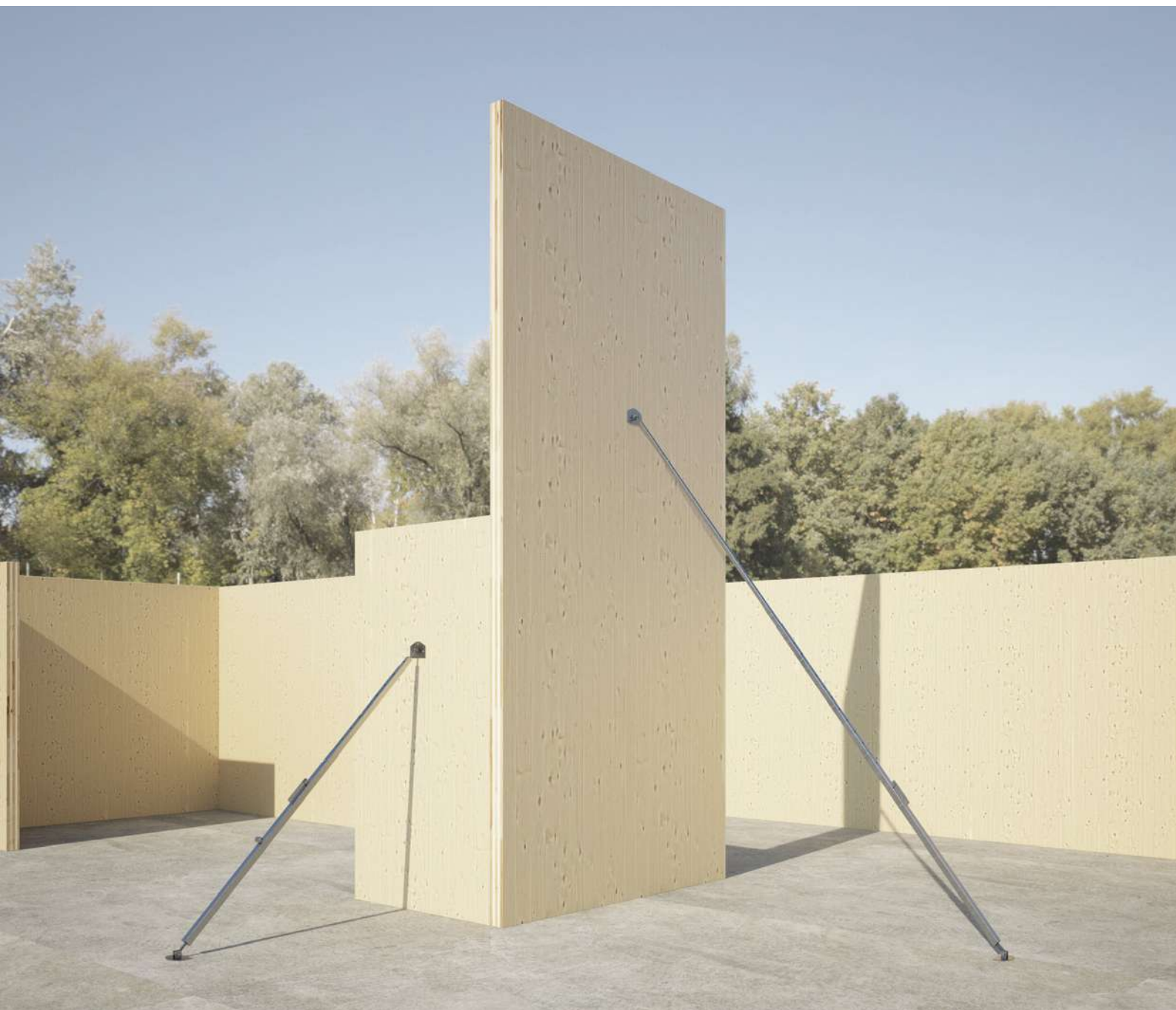


MATERIAL

GIR3000 and GIR4000 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 to be used even in case of distant elements extending up to two storeys.

ORGANISED

The practical transport element allows to handle and store up to 10 GIRAFFES in an orderly manner.

CODES AND DIMENSIONS

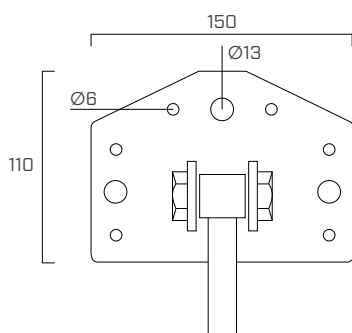
CODE	length [mm]	weight [kg]	adjustment [mm]	pcs
GIR2200	1180 - 2200	3,35	100 + 100	1
GIR3000	1750 - 3000 with locking stop	9,80	100 + 100	1
GIR4000	1750 - 4000	13,0	100 + 100	1
GIR6000	2120 - 6000	27,0	135 + 135	1

OPTIONAL ITEMS

CODE	description	pcs
GIRPLATE	small spare plate	1
GIRPLATEL	large spare plate	1
GIRPLATE90	spare plate with 90° edge	1
GIRHOLDER	transport element for 10 GIRAFFES, compatible with GIR3000, GIR4000 and GIR60000	1

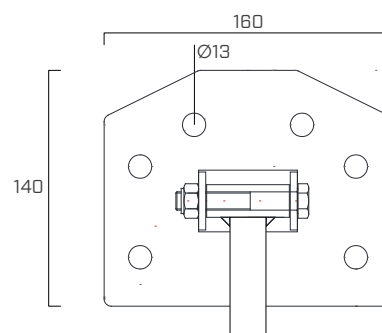
GEOMETRY AND INSTALLATION

ANCHOR PLATE



GIR2200/GIR3000/GIR4000

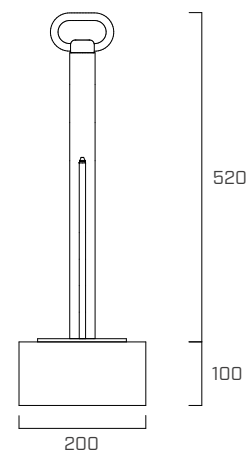
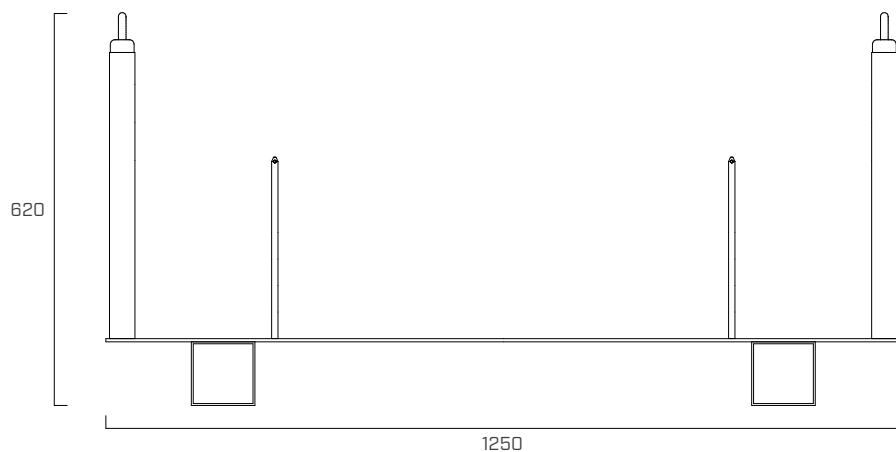
Plate thickness	[mm]	4
no. of Ø13 holes		3
no. of Ø6 holes		6



GIR6000

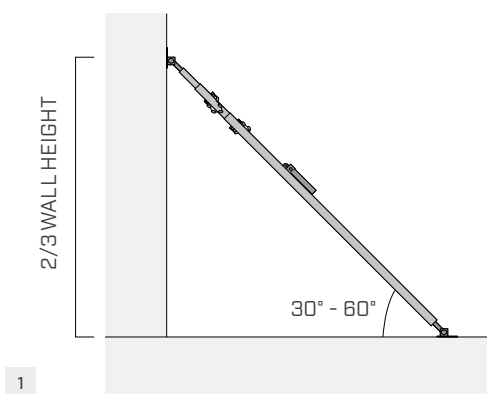
Plate thickness	[mm]	6
no. of Ø13 holes		6

TRANSPORT ELEMENT



GIRHOLDER

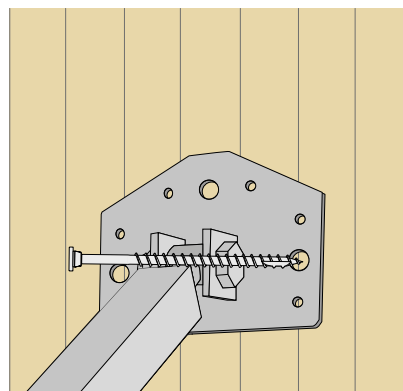
GIRAFFE INSTALLATION



1

1. 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°.

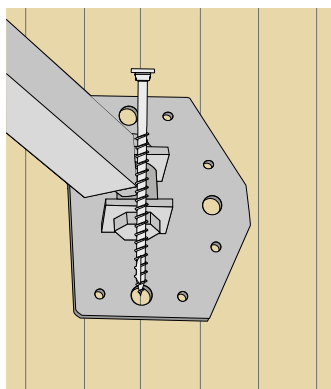
HBS PLATE Ø10



2

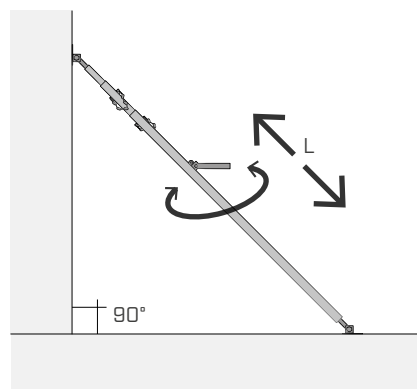
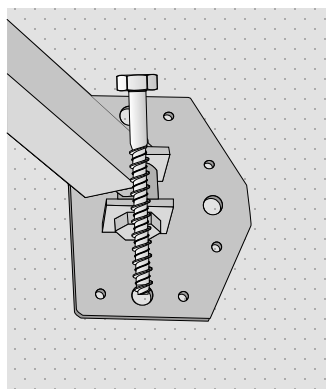
2. Fix the GIRAFFE plate to the wall using the HBS plate screws.

TIMBER FLOOR
HBS PLATE Ø10



3

CONCRETE FLOOR
SKR Ø12



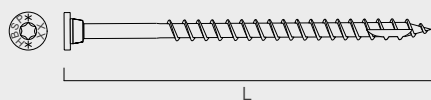
4

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

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

CONNECTORS:

JOINT ON TIMBER - HOLES Ø13



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



JOINT ON CONCRETE - HOLES Ø13



SKR Ø12 - Screw anchor for concrete
L = 100 - 400 mm*

* The choice of length of the connection is assessed each time in function of the element to be supported, the type of support on which GIRAFFE is used and the load to be sustained.

STATIC VALUES

TIMBER-TO-TIMBER FASTENING

F _{max}	GIR2200	GIR3000			GIR4000			GIR6000			
	2,2	1,75	2,4	3	1,75	2,85	4	3	4	5	6
0° - 90°	2,52	12,00	10,90	6,55	15,55	8,33	5,57	20,36	17,45	11,64	6,33

STATIC VALUES

TIMBER-TO-CONCRETE FASTENING

F _{max}	GIR2200	GIR3000			GIR4000			GIR6000			
	2,2	1,75	2,4	3	1,75	2,85	4	3	4	5	6
0° - 90°	2,52	12,00	10,90	6,55	17,49	8,33	5,57	20,36	17,45	11,64	6,33

CALCULATION EXAMPLE

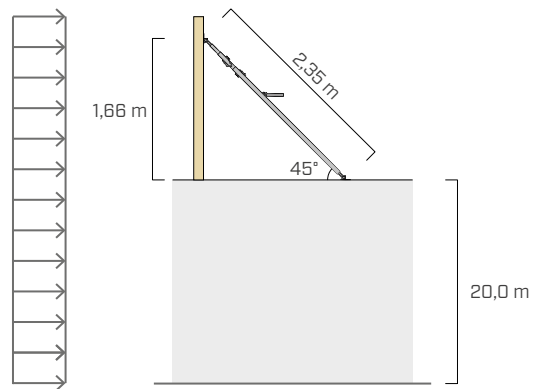
GOMETRY

$$A = 2,50 \times 5,00 \text{ m} \quad A = 12,50 \text{ m}^2$$

Fastening on CLT floor with 3 HBSP screws 10 x 100 mm.

REQUIREMENTS

Wind zone 1, height above sea level: 214 m, building height:
z = 20,0 m.



CALCULATION

ACCORDING TO EN 1991-1-4

v _b	Basic speed	25,0 m/s
q _b	Basic dynamic pressure	0,39 kN/m ²
q _{p(z)}	Dynamic pressure	$1,7 \cdot q_b \times (z/10)^{0,37} = 1,7 \times 0,39 \times (20/10)^{0,37}$ 0,86 kN/m ²

EFFECT ON THE WALL

w _{e,d}	1,5 x 0,86	1,29 kN/m ²
w _{e,d,ges}	1,29 x 12,5	16,2 kN

CHOICE OF ASSEMBLY SUPPORT

2 x GIR3000 installed at a length of approx. 2,40 m:

R _{GIR3000}	1,29 x 12,5	21,8 kN ✓
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NOTES:

- The load capacities have been determined in accordance with EN 1995:2014, EN 1993:2005 and in accordance with the ETA-11/0030 certificate and the tests carried out; they refer exclusively to the assembly support, type of fastening and angle of inclination indicated.
- The values Y_M = 1,3 and k_{mod} = 1,1, according to EN 1995:2014, have been selected for the calculation.
- The calculation was carried out taking into account the fastening using 100 HBSP10 screws and 100 SKR12 heavy duty anchors. For the concrete part a resistance of C20/25 has been assumed.
- 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.