



GH - Angle bracket Type 60 / 100

ETA-13/0900



Properties

Steel grade S 250 GD / DX 51 D / 1.4571
 Surface Z 275 / Stainless steel

For angle bracket basic principles, see download document

Fasteners

Fixing in concrete, masonry, steel, ...

Concrete screw, stud anchor, chemical anchor, screws and bolts to DIN 601 / ISO 4016

Fixing in timber with fasteners to ETA-13/0523

GH connector nails (threaded nails) 4.0 x 35 / 40 / 50 / 60 / 75 / 100 mm

GH screw 5.0 x 25 / 35 / 40 / 50 / 60 / 70 mm

The joint can also be made with an interlayer (e.g. OSB).

Nail pattern

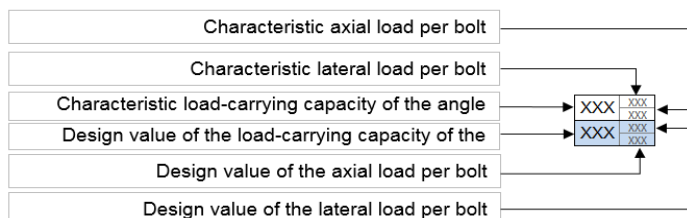
Full nailing / partial nailing, see technical drawing or ETA

Calculation of the design value of the load-carrying capacities to ETA-13/0900

The tables contain characteristic load-carrying capacities (resistances) and design values of the load-carrying capacity (resistance) "short-term" in kN

b = Purlin / joist width
 e = Distance of the load application point from the bottom of the angle bracket

Key for design tables:



Remarks:

Timber strength class 350 kg/m³ char. density.

The fastener minimum edge distances to EC 5 shall be satisfied.

All calculations and values are exclusively for GH products and their fasteners.

The load-bearing capacities were determined on the basis of ETA 13/0523. It is not possible to transfer the values to third party makes.

Disclaimer:

Despite careful calculations and checking, no liability is accepted for the technical data.

Subject to change without notice

For technical drawing, see website www.holzverbinder.de



Angle bracket Type 60 / 100 Art. No. 16625 100 x 60 x 60 x 2.5 mm

Characteristic load-carrying capacity (resistance) and design value of the load-carrying capacity (resistance) ("short-term") in kN,

Load direction F_1 for one or two angle brackets

	Number of nail holes n_V	Number of nail holes n_H	LDC	1x angle brackets		2x angle brackets	
				Fasteners		Fasteners	
				4x40	4x60	4x40	4x60
Column-purlin	1, 2, 3, 5, 6	16, 17, 18, 19, 20, 22, 23, 24	char.	1,35	1,35	2,70	2,70
			short-term	1,35	1,35	2,70	2,70
Timber-to-timber	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12	16, 17, 18, 19, 20, 22, 23, 24	char.	1,35	1,35	2,70	2,70
			short-term	1,35	1,35	2,70	2,70
Column-concrete	1, 2, 3, 5, 6	21	char.	0,54	0,54	1,08	1,08
			short-term	0,54	0,54	1,08	1,08
Purlin-to-concrete	1, 2, 3, 5, 6	21	char.	0,54	0,54	1,08	1,08
			short-term	0,54	0,54	1,08	1,08

Load direction $F_{2/3}$ for one or two angle brackets

	Number of nail holes n_V	Number of nail holes n_H	LDC	1x angle brackets		2x angle brackets	
				Fasteners		Fasteners	
				4x40	4x60	4x40	4x60
Timber-to-timber	1, 2, 3, 5, 6, 7, 8, 9, 11, 12	16, 17, 18, 19, 20, 22, 23, 24	char.	5,56	7,16	11,1	14,3
			short-term	3,85	4,96	7,68	9,90
Timber-to-concrete	1, 2, 3, 5, 6, 7, 8, 9, 11, 12	21	char.	3,22	4,62	6,44	9,24
			short-term	2,23	3,20	4,46	6,40



„Innovationen im Holzbau“

Load direction $F_{4/5}$ for two angle brackets

	Number of nail holes n_V	Number of nail holes n_H	LDC	1x angle brackets		2x angle brackets			
				Fasteners		Fasteners			
				4x40	4x60	4x40	4x60		
Timber-to-timber	1, 2, 3, 5, 6, 7, 8, 9, 11, 12	16, 17, 18, 19, 20, 22, 23, 24	char.			3,78	3,93		
			short-term			3,78	3,93		
Timber-to-concrete	1, 2, 3, 5, 6, 7, 8, 9, 11, 12	21	char.			3,35	$\frac{2,55}{0,57}$	3,47	$\frac{2,53}{0,62}$
			short-term			3,35	$\frac{2,55}{0,57}$	3,47	$\frac{2,53}{0,62}$