GH - Angle bracket KR round / elongated hole

ETA-09/0324

0769

Properties

Steel grade	S 250 GD / S 235 JR / DX 51 D
Surface	Z 275 with t=3.0 mm and hot-dipped galvanised with t=4.0 mm

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).

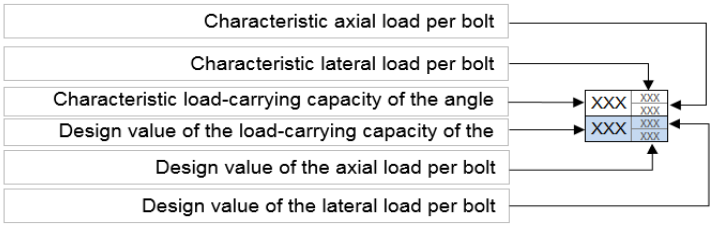
Nail pattern

Full nailing / partial nailing, see technical drawing or ETA

Calculation of the design value of the load-carrying capacities to ETA-09/0324

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



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 KR elongated hole | Art. No. 110285L | 285 x 88 x 65 x 4.0 mm

Timber-to-concrete joint with full nailing

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

Load direction F_1 for one angle bracket

	Distance of the load application point f in [mm]																					
	0		20		40		60		80		100		120		140		160					
	Fasteners																					
	4x40		4x50		4x40		4x50		4x40		4x50		4x40		4x50		4x40		4x50		4x40		4x50	
char.	9,8	14,0	9,8	14,0	7,9	14,0	7,9	14,0	6,6	14,0	6,6	14,0	5,7	14,0	5,7	14,0	5,0	14,0	5,0	14,0	4,5	14,0	4,5	14,0	4,0	14,0	4,0	14,0	3,7	14,0	3,7	14,0	3,4	14,0	3,4	14,0
short-term	8,9	12,6	8,9	12,7	7,2	12,7	7,2	12,7	6,0	12,7	6,0	12,7	5,2	12,7	5,2	12,7	4,5	12,7	4,5	12,7	4,0	12,7	4,0	12,7	3,7	12,7	3,7	12,7	3,3	12,7	3,3	12,7	3,1	12,7	3,1	12,7

Load direction F_1 for two angle brackets

	Fasteners			
	4x40		4x50	
char.	19,6	27,9	19,6	27,9
short-term	17,7	25,3	17,8	25,4

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Erfüllungsort und Gerichtsstand
für beide Teile ist Kirchheim/Teck
Geschäftsführer Dirk Weiss
Amtsgericht Stuttgart HRB Nr. 722555