RAMPA®
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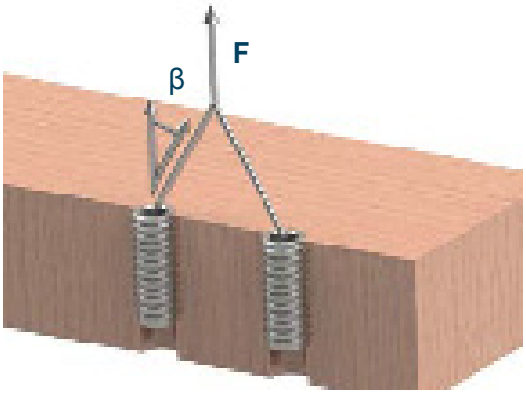
LOAD CAPACITIES SKL / BL

RAMPA®-Inserts types SKL / BL according to ETA 12/0481 for Glulam as well as CLT floor elements

Load capacity 2-strand

Calculated partial safety factors:

- → Variable loads $\gamma m = 1,5$
- → Building material properties $\gamma_q = 1,3$



RAMPA®-Inserts | Type: BL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0048406	16 x 40	950	822
0048506	16 x 50	1187	1026
0048606	16 x 60	1425	1238
0048706	16 x 70	1662	1441
0048806	16 x 80	1899	1645
0048006	16 x 100	2374	2052

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0118406	16 x 40	882	763
0118506	16 x 50	1119	967
0118606	16 x 60	1357	1170
0118706	16 x 70	1594	1374
0118806	16 x 80	1832	1577
0118006	16 x 100	2306	2001

Load table based on ETA 12/0481 of RAMPA GmbH & Co. KG. Read ETA 12/0481 before execution.
Please use RAMPA®-Inserts type SKL / BL exclusively as described in ETA 12/0481.
Before execution, all calculations must be checked and approved by the responsible planner. The values given in the tables take a vibration coefficient ϕ_2= 1,3 according to DIN EN 1991-3 into account. For deviating vibration coefficients, the table values must be divided by the respective vibration coefficient of the lifting equipment.
If it isn't known how high the vibration coefficient of the lifting equipment is, a vibration coefficient of ϕ_2=2 must be used.

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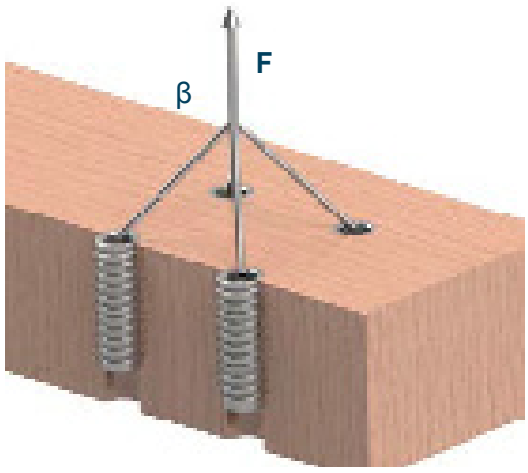
LOAD CAPACITIES SKL / BL

RAMPA®-Inserts types SKL / BL according to ETA 12/0481 for Glulam as well as CLT floor elements

Load capacity 4-strand only with load rocker

Calculated partial safety factors:

- Variable loads $\gamma m = 1,5$
- Building material properties $\gamma_q = 1,3$



RAMPA®-Inserts | Type: BL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0048406	16 x 40	1899	1645
0048506	16 x 50	2374	2052
0048606	16 x 60	2849	2459
0048706	16 x 70	3324	2883
0048806	16 x 80	3799	3290
0048006	16 x 100	4748	4121

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0118406	16 x 40	1933	1526
0118506	16 x 50	2239	1933
0118606	16 x 60	2713	2340
0118706	16 x 70	3053	2764
0118806	16 x 80	3663	3171
0118006	16 x 100	4613	3985

Load table based on ETA 12/0481 of RAMPA GmbH & Co. KG. Read ETA 12/0481 before execution.
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If it isn't known how high the vibration coefficient of the lifting equipment is, a vibration coefficient of ϕ_2=2 must be used.

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LOAD CAPACITIES SKL / BL

RAMPA®-Inserts types SKL / BL according to ETA 12/0481 for Glulam as well as CLT floor elements

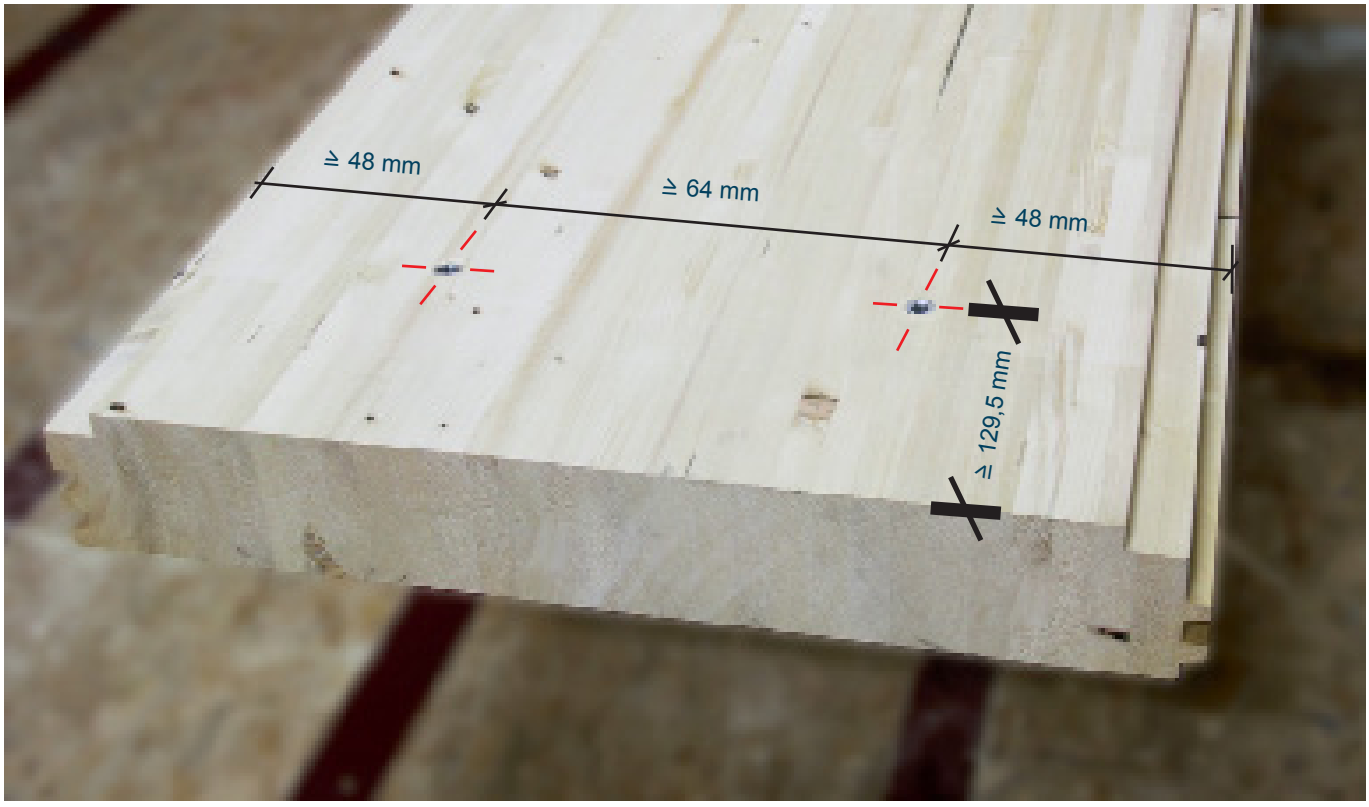
The following boundary conditions apply:

The RAMPA®-Inserts must be installed flush with the surface of the BSH or CLT floor element.
Pre-drill diameter over entire screw-in length (softwood):

- → RAMPA® Inserts Type SKL D16 = max. 13,0mm
- → RAMPA® Inserts Type BL D16 = max. 13,0mm

The specified pre-drill diameters are valid exclusively for zinc plated RAMPA socket variants as well as BSH /CLT elements made of softwood. The assembling angle between the insert axis and the surface of the glulam ceiling or the respective CLT layers is 90° (across the grain). The loads specified in this document are only valid for ceiling elements or use in the lateral surface.

Minimum distances for RAMPA®-Inserts in glulam and cross laminated timber (CLT) according to ETA 12/0481 or Eurocode 5:



Any liability for printing and typesetting errors excluded!

Load table based on ETA 12/0481 of RAMPA GmbH & Co. KG. Read ETA 12/0481 before execution.
Please use RAMPA®-Inserts type SKL / BL exclusively as described in ETA 12/0481.
Before execution, all calculations must be checked and approved by the responsible planner. The values given in the tables take a vibration coefficient ϕ_2= 1,3 according to DIN EN 1991-3 into account. For deviating vibration coefficients, the table values must be divided by the respective vibration coefficient of the lifting equipment.
If it isn't known how high the vibration coefficient of the lifting equipment is, a vibration coefficient of ϕ_2=2 must be used.

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