RAMPA®
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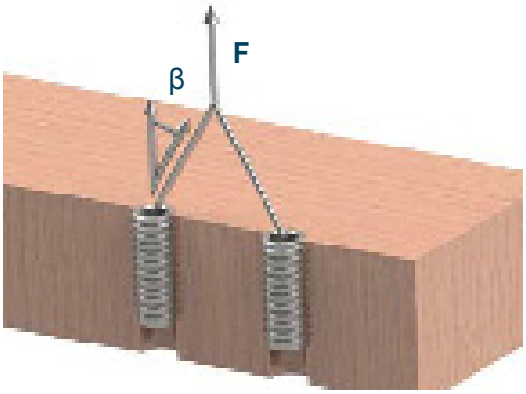
LOAD CAPACITIES SKL / BL

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°
0041406	18,5 x 40	1102	950
0041506	18,5 x 50	1374	1187
0041606	18,5 x 60	1645	1425
0041706	18,5 x 70	1916	1662
0041806	18,5 x 80	2205	1899
0041006	18,5 x 100	2747	2374

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0111406	18,5 x 40	1018	882
0111506	18,5 x 50	1289	1119
0111606	18,5 x 60	1560	1357
0111706	18,5 x 70	1848	1594
0111806	18,5 x 80	2120	1832
0111006	18,5 x 100	2662	2306

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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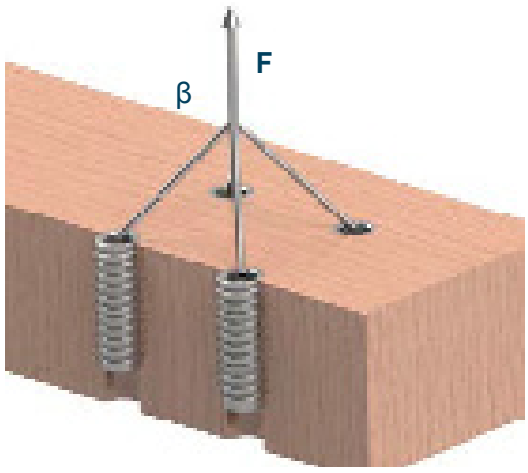
LOAD CAPACITIES SKL / BL

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°
0041406	18,5 x 40	2205	1899
0041506	18,5 x 50	2747	2374
0041606	18,5 x 60	3290	2849
0041706	18,5 x 70	3850	3324
0041806	18,5 x 80	4392	3799
0041006	18,5 x 100	5495	4748

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0111406	18,5 x 40	1899	1764
0111506	18,5 x 50	2578	2239
0111606	18,5 x 60	3137	2713
0111706	18,5 x 70	3680	3188
0111806	18,5 x 80	4240	3663
0111006	18,5 x 100	5325	4613

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

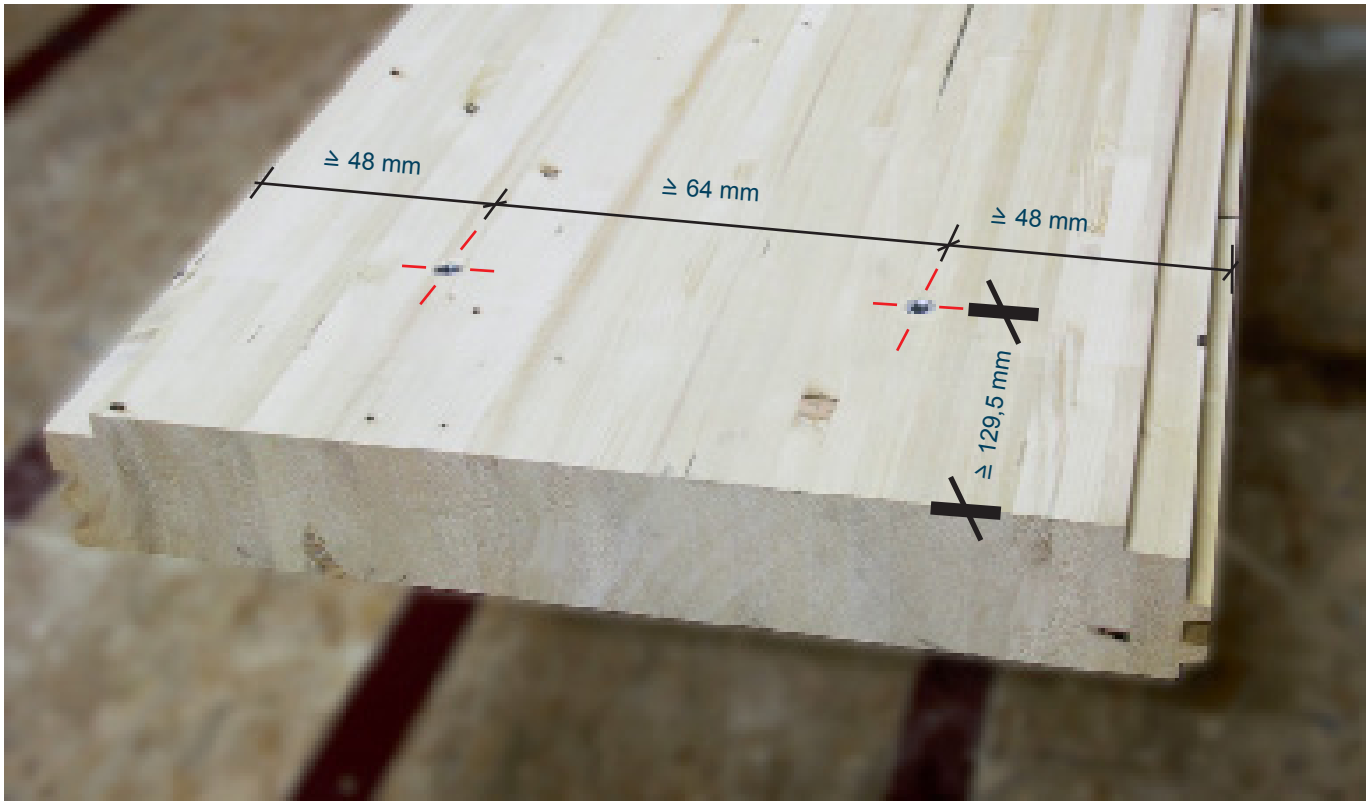
The following boundary conditions apply:

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 D18,5 = max. 15,5mm
- → RAMPA® Inserts Type BL D18,5 = max. 15mm

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!

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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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