RAMPA®
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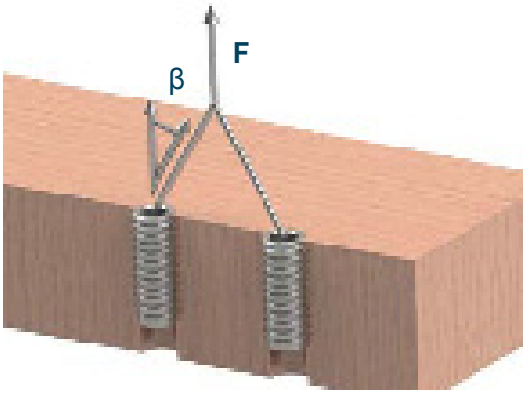
LOAD CAPACITIES SKL / BL

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°
0042406	22 x 40	1306	1136
0042606	22 x 60	1967	1696
0042806	22 x 80	2612	2255
0042016	22 x 100	3273	2832

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0112606	22 x 60	1848	1549
0112806	22 x 80	2493	2171
0112106	22 x 100	3154	2730

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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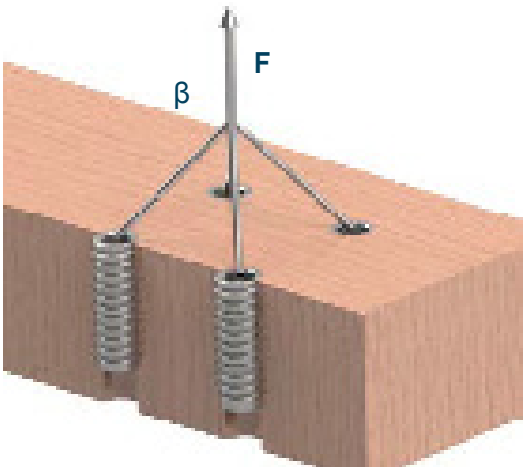
LOAD CAPACITIES SKL / BL

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 locker

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°
0042406	22 x 40	2612	2255
0042606	22 x 60	3917	3392
0042806	22 x 80	5223	4528
0042016	22 x 100	6529	5664

RAMPA®-Inserts | Type: SKL

Art. No.	Insert size	Lifting angle β° Load capacity lbs 0°	Lifting angle β° Load capacity lbs 30°
0112606	22 x 60	3697	3188
0112806	22 x 80	5003	4324
0112106	22 x 100	6309	5461

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

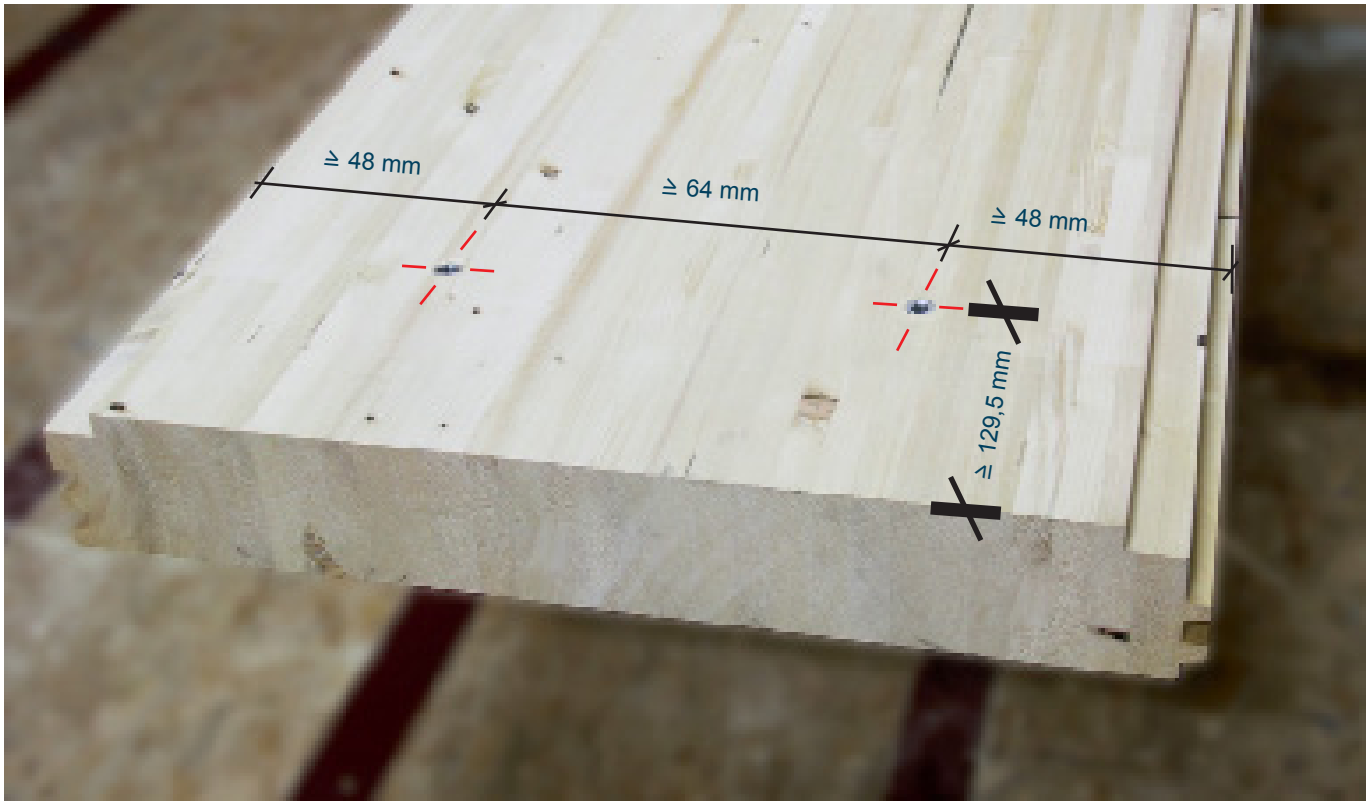
The following boundary conditions apply:

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 D22 = max. 19,5mm
- → RAMPA® Inserts Type BL D22 = max. 19,5mm

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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