

Leben mit Holz!



elka -Holzwerke GmbH · Hochwaldstr. 44 · D-54497 Morbach

Measurement table for natural wood panels 3-S, VITA

Standard dimensions: 505*205 cm/505*102.5 cm/252.5*205 cm

These measurement tables are merely to be used for pre-dimensioning, precise static verification is still required !

Dimension: 505*205cm/505*102,5cm/252,5*205 cm

Single span beam	Covering slat	Load in KN/m ² q _k	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
			Field length in m								
Single span beam	5mm	15mm	0,89	0,78	0,71	0,66	0,62	0,59	0,56	0,54	0,52
		19mm	1,13	0,99	0,90	0,83	0,78	0,74	0,71	0,68	0,66
	9mm	22mm	1,23	1,07	0,97	0,90	0,85	0,81	0,77	0,74	0,71
		27mm	1,51	1,31	1,19	1,11	1,04	0,99	0,95	0,91	0,88
		32mm	1,74	1,52	1,38	1,28	1,20	1,14	1,09	1,05	1,02
		27mm	1,51	1,31	1,19	1,11	1,04	0,99	0,95	0,91	0,88
		42mm	2,29	2,00	1,81	1,68	1,58	1,50	1,44	1,38	1,33
		50mm	2,66	2,32	2,11	1,96	1,84	1,75	1,67	1,61	1,55

Two-span beam	Covering slat	Load in KN/m ² q _k	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
			Field length in m								
Two-span beam	5mm	15mm	1,20	1,04	0,95	0,88	0,83	0,79	0,75	0,72	0,70
		19mm	1,52	1,32	1,20	1,12	1,05	1,00	0,95	0,92	0,88
		22mm	1,64	1,43	1,30	1,21	1,14	1,08	1,03	0,99	0,96
		27mm	2,02	1,76	1,60	1,49	1,40	1,33	1,27	1,22	1,18
		32mm	2,33	2,04	1,85	1,72	1,62	1,53	1,47	1,41	1,36
	9mm	27mm	2,02	1,76	1,60	1,49	1,40	1,33	1,27	1,22	1,18
		42mm	3,06	2,67	2,43	2,25	2,12	2,02	1,93	1,85	1,79
		50mm	3,56	3,11	2,83	2,63	2,47	2,35	2,24	2,16	2,08

Three-span beam	Covering slat	Load in KN/m ² q _k	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
			Field length in m								
Three-span beam	5mm	15mm	1,10	0,96	0,87	0,81	0,76	0,73	0,69	0,67	0,64
		19mm	1,40	1,22	1,11	1,03	0,97	0,92	0,88	0,85	0,82
		22mm	1,52	1,32	1,20	1,12	1,05	1,00	0,95	0,92	0,89
		27mm	1,86	1,63	1,48	1,37	1,29	1,23	1,17	1,13	1,09
		32mm	2,15	1,88	1,71	1,59	1,49	1,42	1,35	1,30	1,26
	9mm	27mm	1,86	1,63	1,48	1,37	1,29	1,23	1,17	1,13	1,09
		42mm	2,83	2,47	2,24	2,08	1,96	1,86	1,78	1,71	1,65
		50mm	3,29	2,88	2,61	2,42	2,28	2,17	2,07	1,99	1,92

Shear and creep deformations have not been taken into account!	k _{mod} =0.8	Calculation with:
Deflection w _{inst} =L/300	γ _m =1.3	EN 12369-3:2008
Field load is not taken into account!	KLED: medium	EN 1995-1-1
Characteristic load over the entire beam length!	γ _{eq} =1.45	EN 13986:2004
The dead weight has not been taken into account and must be included!	NKL:2	

The table does not replace the static calculation in individual cases.
 The manufacturer reserves the right to change that lead to technical improvement.
 The data shown represent information not guarantee properties.

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