

3 and 5-layer Solid Wood Panels (3-S + 5-S)

Charge limit in kN/m² according to Nordpan SK27

FI = spruce – LÄ = larch – DO = Douglas fir – KI = pine

Orientation: Top layer parallel to testing direction (**Principal axis**)

Type and thickness of panel in mm	NORDPAN STRUCTURAL PANEL								
	Distance between supports in mm								
	400	500	600	800	1000	1200	1500	2000	2500
3-S 13 FI	7,61	3,86	2,21	0,89	0,42	0,21	0,07	--	--
3-S 16 FI	13,46	6,85	3,93	1,61	0,78	0,41	0,17	--	--
3-S 19 FI	23,39	11,93	6,86	2,83	1,40	0,77	0,34	0,08	--
3-S 22 FI	34,73	17,72	10,21	4,24	2,11	1,17	0,54	0,16	--
3-S 27 FI	57,47	34,35	19,82	8,27	4,16	2,35	1,13	0,39	0,13
3-S 32 FI	68,11	54,21	31,10	13,10	6,62	3,76	1,84	0,67	0,26
3-S 35 FI	74,49	59,56	39,53	16,56	8,39	4,77	2,35	0,88	0,36
3-S 42 FI	89,38	71,47	59,53	26,31	13,36	7,63	3,80	1,47	0,64
3-S 49 FI	104,29	83,38	69,45	45,88	23,36	13,40	6,73	2,68	1,24
5-S 27 FI	46,71	24,13	13,90	5,78	2,89	1,61	0,75	0,23	0,02
5-S 32 FI	68,11	44,33	25,88	10,69	5,39	3,04	1,47	0,52	0,18
5-S 35 FI	74,49	55,03	33,35	13,36	7,05	4,00	1,95	0,71	0,27
5-S 42 FI	89,39	71,47	59,53	26,63	13,52	7,73	3,84	1,49	0,65
3-S 19 LÄ	22,05	11,24	6,46	2,66	1,31	0,72	0,32	0,07	--
3-S 26 LÄ	55,34	29,17	16,82	7,01	3,52	1,98	0,94	0,32	0,09
3-S 32 LÄ	68,11	49,83	28,76	12,03	6,07	3,44	1,68	0,61	0,22
3-S 42 LÄ	89,38	71,47	59,53	26,31	13,36	7,63	3,80	1,47	0,64
3-S 19 DO	22,05	11,24	6,46	2,66	1,31	0,72	0,32	0,07	--
3-S 26 DO	55,34	29,17	16,82	7,01	3,52	1,98	0,94	0,32	0,09
3-S 19 KI	23,39	11,93	6,86	2,83	1,40	0,77	0,34	0,08	--
3-S 27 KI	57,47	34,35	19,82	8,27	4,16	2,35	1,13	0,39	0,13
	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²

Conversion: 1 kN/m² = 98,10 Kg/m²

The tables are only for rating in advance and do not replace static calculation.

The own weight of the panel is respected in the calculation.

Regarding the designed load do not forget to respect eventual loose and/or jerky charges.

For calculations outside of these tables you may contact us on info@nordpan.rubner.com

3 and 5-layer Solid Wood Panels (3-S + 5-S)

Charge limit in kN/m² according to Nordpan SK27

FI = spruce – LÄ = larch – DO = Douglas fir – KI = pine

Orientation: Top layer transverse to testing direction (**Conjugate axis**)

Type and thickness of panel in mm	NORDPAN STRUCTURAL PANEL								
	Distance between supports in mm								
	200	300	400	500	600	800	1000	1500	2000
3-S 13 FI	3,82	1,08	0,41	0,18	0,07	--	--	--	--
3-S 16 FI	13,39	3,91	1,60	0,77	0,41	0,12	--	--	--
3-S 19 FI	16,03	4,68	1,91	0,93	0,49	0,15	--	--	--
3-S 22 FI	37,94	11,16	4,64	2,31	1,29	0,47	0,18	--	--
3-S 27 FI	46,59	13,70	5,69	2,84	1,58	0,58	0,23	--	--
3-S 32 FI	111,32	36,98	15,50	7,85	4,47	1,78	0,83	0,12	--
3-S 35 FI	149,16	60,11	25,25	12,83	7,35	2,99	1,44	0,29	--
3-S 42 FI	178,99	119,26	63,03	32,16	18,51	7,68	3,82	0,97	0,28
3-S 49 FI	208,82	129,64	68,22	34,80	20,02	8,29	4,11	1,03	0,28
5-S 27 FI	115,07	61,00	25,65	13,06	7,49	3,08	1,50	0,34	0,04
5-S 32 FI	136,37	78,78	34,79	17,73	10,18	4,19	2,06	0,49	0,10
5-S 35 FI	149,16	95,24	46,10	23,51	13,52	5,59	2,77	0,69	0,18
5-S 42 FI	178,99	114,95	60,50	30,86	17,76	7,36	3,66	0,92	0,25
3-S 19 LÄ	26,78	7,86	3,26	1,62	0,89	0,32	0,11	--	--
3-S 26 LÄ	64,84	19,11	7,98	4,02	2,26	0,87	0,38	--	--
3-S 32 LÄ	136,37	57,25	24,05	12,23	7,00	2,85	1,37	0,28	--
3-S 42 LÄ	178,99	119,26	63,03	32,16	18,51	7,68	3,82	0,97	0,28
3-S 19 DO	26,78	7,86	3,26	1,62	0,89	0,32	0,11	--	--
3-S 26 DO	64,84	19,11	7,98	4,02	2,26	0,87	0,38	--	--
3-S 19 KI	16,03	4,68	1,91	0,93	0,49	0,15	--	--	--
3-S 27 KI	46,59	13,70	5,69	2,84	1,58	0,58	0,23	--	--
	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²	kN/m ²

Conversion: 1 kN/m² = 98,10 Kg/m²

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