

## 3-layer Solid Wood Panels (3-S)

**Charge limit in kN/m<sup>2</sup> according to individually declared values  
NORDPAN GMBH**

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

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

<b>Type and thickness of panel in mm</b>	<b>NORDPAN STRUCTURAL PANEL</b>								
	<b>Distance between supports in mm</b>								
	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1200</b>	<b>1500</b>	<b>2000</b>	<b>2500</b>
<b>3-S 13 FI</b>	7,44	3,73	2,09	0,78	0,32	0,11	--	--	--
<b>3-S 16 FI</b>	13,47	6,80	3,86	1,52	0,69	0,32	0,05	--	--
<b>3-S 19 FI</b>	23,10	11,72	6,69	2,69	1,27	0,64	0,22	--	--
<b>3-S 22 FI</b>	35,22	17,90	10,25	4,17	2,00	1,04	0,40	--	--
<b>3-S 27 FI</b>	61,17	33,97	19,53	8,07	3,98	2,18	0,97	0,24	--
<b>3-S 32 FI</b>	54,27	43,35	31,02	12,87	6,40	3,55	1,63	0,47	--
<b>3-S 35 FI</b>	59,38	47,43	38,99	16,22	8,11	4,53	2,13	0,67	0,10
<b>3-S 42 FI</b>	71,25	56,91	47,35	30,08	15,17	8,57	4,16	1,47	0,52
<b>3-S 49 FI</b>	83,11	66,39	55,24	41,30	23,02	13,08	6,42	2,38	0,94
<b>3-S 60 FI</b>	101,79	81,31	67,65	50,59	40,35	24,39	12,15	4,73	2,09
<b>3-S 19 LÄ</b>	23,10	11,72	6,69	2,69	1,27	0,64	0,22	--	--
<b>3-S 26 LÄ</b>	47,70	24,25	13,89	5,66	2,73	1,44	0,57	--	--
<b>3-S 32 LÄ</b>	54,27	43,35	31,02	12,87	6,40	3,55	1,63	0,47	--
<b>3-S 42 LÄ</b>	71,25	56,91	47,35	30,08	15,17	8,57	4,16	1,47	0,52
<b>3-S 19 DO</b>	23,10	11,72	6,69	2,69	1,27	0,64	0,22	--	--
<b>3-S 26 DO</b>	47,70	24,25	13,89	5,66	2,73	1,44	0,57	--	--
<b>3-S 19 KI</b>	23,10	11,72	6,69	2,69	1,27	0,64	0,22	--	--
<b>3-S 27 KI</b>	61,17	33,97	19,53	8,07	3,98	2,18	0,97	0,24	--
	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>

**Conversion: 1 kN/m<sup>2</sup> = 98,10 Kg/m<sup>2</sup>**

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](mailto:info@nordpan.rubner.com)

**Valid for panels with production date after April 22<sup>nd</sup> 2020!**

## 3-layer Solid Wood Panels (3-S)

**Charge limit in kN/m<sup>2</sup> according to individually declared values  
NORDPAN GMBH**

*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
<b>3-S 13 FI</b>	3,64	0,96	0,30	0,05	--	--	--	--	--
<b>3-S 16 FI</b>	8,55	2,40	0,90	0,37	0,14	--	--	--	--
<b>3-S 19 FI</b>	14,38	4,08	1,57	0,68	0,29	--	--	--	--
<b>3-S 22 FI</b>	36,64	10,67	4,34	2,09	1,10	0,31	--	--	--
<b>3-S 27 FI</b>	41,69	12,14	4,95	2,39	1,26	0,36	--	--	--
<b>3-S 32 FI</b>	108,89	38,46	16,01	8,01	4,48	1,67	0,67	0,12	--
<b>3-S 35 FI</b>	119,11	50,42	21,05	10,58	5,96	2,29	0,98	0,31	--
<b>3-S 42 FI</b>	142,93	87,33	36,56	18,49	10,50	4,15	1,89	0,73	0,17
<b>3-S 49 FI</b>	166,74	110,99	58,26	29,55	16,86	6,78	3,20	1,36	0,55
<b>3-S 60 FI</b>	204,19	135,92	101,79	54,62	31,32	12,82	6,23	2,86	1,37
<b>3-S 19 LÄ</b>	14,38	4,08	1,57	0,68	0,29	--	--	--	--
<b>3-S 26 LÄ</b>	47,70	24,25	13,89	5,66	2,73	1,44	0,57	--	--
<b>3-S 32 LÄ</b>	108,89	38,46	16,01	8,01	4,48	1,67	0,67	0,12	--
<b>3-S 42 LÄ</b>	142,93	87,33	36,56	18,49	10,50	4,15	1,89	0,73	0,17
<b>3-S 19 DO</b>	14,38	4,08	1,57	0,68	0,29	--	--	--	--
<b>3-S 26 DO</b>	47,70	24,25	13,89	5,66	2,73	1,44	0,57	--	--
<b>3-S 19 KI</b>	14,38	4,08	1,57	0,68	0,29	--	--	--	--
<b>3-S 27 KI</b>	41,69	12,14	4,95	2,39	1,26	0,36	--	--	--
	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>	kN/m <sup>2</sup>

**Conversion: 1 kN/m<sup>2</sup> = 98,10 Kg/m<sup>2</sup>**

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