



Qualities

1. The Extrapanel shuttering panel is a high-quality 3-ply solid wood panel, made of spruce wood. It consists of the layers glued crosswise with a perimeter frame in the middle layer.

2. The entire surface is protected and coated on both sides with highly resistant melamine resin, thus making it water resistant, ensuring a smooth surface of concrete constructions.

3. The edge band, too, is coated with a watertight cover, preventing moisture from penetrating into the middle, thus giving extra strength to the panel.

4. The important quality of our panel is its bending strength.

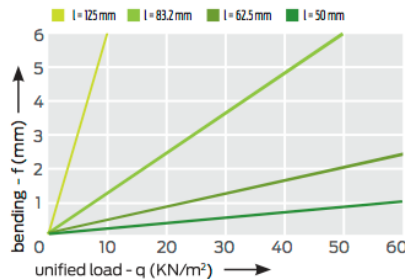
5. The quality of the panel fully complies with the DIN 68705 standard (confirmed in a test conducted by the Slovenian National Building and Civil Engineering Institute) and is pursuant to the Austrian standard ÖN B 3023.

Product	3-ply concrete formwork panel coated with melamine resin that allows a resistant and smooth surface
Wood species	Spruce
Wood moisture	12 % +/- 2 % at delivery
Thickness	21 mm, 27 mm, 30mm
Weight	21 mm = 10 kg/m ² 27 mm = 12,3 kg/m ² 30mm = 13.8 kg/m ²
Surface protection	Highly resistant melamine coating, extremely smooth surface
Standard packaging	21 mm / 50 pcs package, 27 mm / 40 pcs package, 30 mm / 35 pcs package The formwork beams are packed in protective packaging. The packages can be easily lifted and moved with a forklift. They are ready for immediate use at the construction site.

Format specifications

Thickness mm	27, 30	27, optional	21, optional
Width mm	500	200, 250, 300, 350, 400, 450	500
Length mm	1000, 1500, 2000, 2500, 3000	3000	1000, 1500, 2000, 2500, (3000)

Bending strength chart*



The diagram shows the reaction of the panel when loaded, considering the space intervals in between the supporting elements. Therefore q stands for the uniform load (in KN/m² units), l stands for the space interval in between the supporting elements and f (bending) is stated in mm.

*The optimal carrying capacity for the thickness of 21 mm is achieved by a support for every 300 mm, whereas for the thickness of 27 mm, the optimal capacity is achieved with a support for every 500 mm.

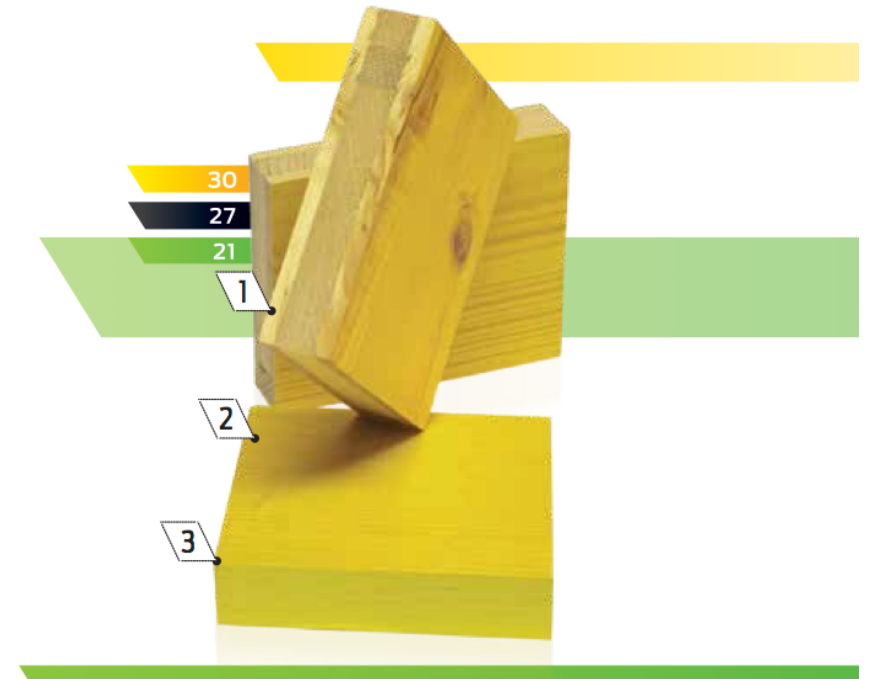


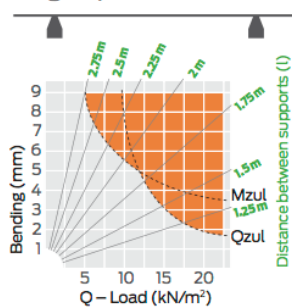
Chart of charge values

Floor thickness (cm)	Total load (kN/m ²)	Max. permissible support width of the crossbeam (m) = distance between main beams (m)				Max. permissible support width = distance between supports (m)								
		Distance between crossbeams (m)				Selected distance between the main beams (m)								
		0.50	0.625	0.667	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.50
10	4.38	3.70	3.43	3.35	3.22	2.93	2.72	2.50	2.31	2.16	2.04	1.93	1.70	1.45
12	4.91	3.50	3.24	3.17	3.05	2.77	2.57	2.36	2.19	2.05	1.92	1.82	1.52	1.30
14	5.43	3.32	3.09	3.02	2.91	2.64	2.45	2.24	2.08	1.94	1.82	1.64	1.37	1.18
16	5.95	3.19	2.96	2.90	2.79	2.54	2.35	2.14	1.98	1.85	1.66	1.50	1.25	1.07
18	6.48	3.07	2.85	2.79	2.69	2.44	2.25	2.06	1.90	1.72	1.53	1.38	1.15	0.99
20	7.00	2.97	2.76	2.70	2.60	2.36	2.17	1.97	1.82	1.59	1.42	1.28	1.07	0.91
22	7.53	2.88	2.68	2.62	2.52	2.29	2.09	1.90	1.69	1.48	1.32	1.19	0.99	0.85
24	8.05	2.81	2.61	2.55	2.45	2.23	2.02	1.84	1.58	1.39	1.23	1.11	0.93	0.80
26	8.57	2.74	2.54	2.49	2.39	2.18	1.95	1.73	1.49	1.30	1.16	1.04	0.87	0.75
28	9.10	2.67	2.48	2.43	2.34	2.12	1.89	1.63	1.40	1.23	1.09	0.98	0.82	0.71
30	9.68	2.61	2.43	2.38	2.29	2.06	1.83	1.54	1.32	1.15	1.03	0.93	0.77	0.65
35	11.25	2.49	2.31	2.26	2.18	1.90	1.59	1.32	1.14	0.99	0.89	0.80	0.66	0.56
40	12.83	2.38	2.21	2.17	2.07	1.74	1.39	1.16	1.00	0.87	0.78	0.70	0.58	0.49
45	14.40	2.29	2.13	2.07	1.94	1.55	1.24	1.04	0.89	0.78	0.69	0.62	0.51	0.44
50	15.97	2.22	2.03	1.96	1.84	1.40	1.12	0.94	0.80	0.70	0.62	0.56	0.46	0.40
55	17.54	2.15	1.93	1.87	1.69	1.27	1.02	0.85	0.73	0.63	0.56	0.51	0.42	0.36
60	19.11	2.07	1.85	1.75	1.56	1.17	0.94	0.78	0.66	0.58	0.52	0.46	0.39	0.33
65	20.68	1.98	1.72	1.62	1.44	1.08	0.87	0.72	0.61	0.54	0.48	0.43	0.36	0.31
70	22.26	1.91	1.60	1.50	1.34	1.01	0.81	0.66	0.57	0.50	0.44	0.40	0.33	0.28
75	23.83	1.85	1.50	1.41	1.25	0.94	0.75	0.62	0.53	0.47	0.41	0.37	0.31	0.27
80	25.40	1.76	1.41	1.32	1.17	0.88	0.71	0.58	0.50	0.44	0.39	0.35	0.29	0.25
85	26.97	1.65	1.32	1.24	1.11	0.83	0.66	0.55	0.47	0.41	0.37	0.33	0.27	0.23
90	28.54	1.56	1.25	1.17	1.05	0.79	0.62	0.52	0.44	0.39	0.35	0.31	0.26	0.22
95	30.11	1.48	1.19	1.11	0.99	0.75	0.59	0.49	0.42	0.37	0.33	0.29	0.25	0.21
100	31.69	1.41	1.13	1.06	0.94	0.71	0.56	0.47	0.40	0.35	0.31	0.28	0.23	0.20

An example of calculation: Floor thickness: 20 cm, distance between crossbeams: 0.75 m; we are looking for the distance between the main beams and the supports. The permissible distance between the main beams according to the **table 1 = 2.60 m**. The identical or the closest distance between the main beams in the **table 2 = 2.5 m**. Look for the permissible distance between supports in the **table 2**, read vertically down the column "2.50 m" and horizontally in the row "20 cm" of the column "floor thickness", the result is **1.28 m**. Caution: Examine the supports to ensure the corresponding carrying force.

Bending which occurs in formwork beams that are loaded by a particular force at different space intervals of support.

Single span beam



Multi span beam

