

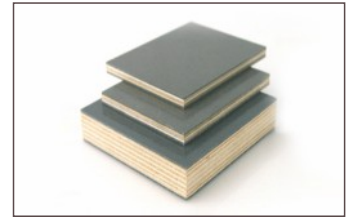
# Paged

Sklejka

## ▶ PAGED BETON FORM

### ▪ Scope

Exterior plywood with birch face veneers (external plies) produced by the pressing of the PPL composite (1.6 mm thick polypropylene) - in the colour of grey - onto both sides of hardwood plywood. The polypropylene pressing process is carried out under high pressure without applying high temperatures. The external PPL ply is environmentally safe, recyclable, resistant to UV radiation and very highly resistant to destruction. This product can be used even up to 100 times as it is highly resistant to abrasions and practically free from any cavities, bends or swellings of any type.



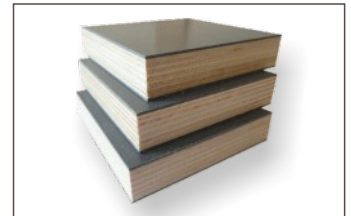
### ▪ Field of application

- ▶ construction,                      ▶ production of paving stones.

### ▪ Materials

Manufactured in type of gluing:

- ▶ **exterior:** on the basis of phenol-formaldehyde glue for use in exterior conditions.

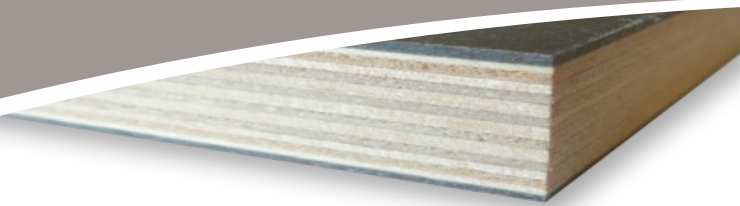


### ▪ Types of the surface structure

PPL on both sides (PPL/PPL), (PPL/smooth).

### ▪ Characteristic

Parameters	Norm	Unit	Value							
Panel thickness	EN 315	mm	9	12	15	18	21	24	27	30
Gluing	EN 314		Class 3							
Numbers of plies			7	9	11	13	15	17	19	21
Wood species			Hardwood							
Density		kg/m <sup>3</sup>	700 – 850							
Standard sizes		mm	1250 x 2500				1500 x 2500 / 3000 / 3300			
Bending class										
cross grain	EN 310	F class	35	35	35	35	30	30	30	30
long grain	EN 310	EN 636	40	40	40	40	40	35	35	35
Elasticity bending class										
cross grain	EN 310	F class	40	50	60	60	60	60	60	60
long grain	EN 310	EN 636	90	80	80	80	80	80	80	80
Streight bending										
cross grain	EN 310	N/mm <sup>2</sup>	52,4	54,8	53,2	52,0	45,5	45,4	45,5	45,6
long grain	EN 310		68,1	63,5	62,8	61,7	56,8	56,1	55,5	54,9
Elasticity bending										
cross grain	EN 310	N/mm <sup>2</sup>	4302	4926	6059	5684	5517	5460	5461	5495
long grain	EN 310		8640	8048	7913	7854	7706	7595	7509	7268
Air sound solution		dB	250 - 500 Hz - 0,10				1000 - 2000 Hz - 0,30			
Thermal conductivity		W/m·K	0,13							



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## ▪ Characteristic (continued)

Parameters	Norm	Unit	Value
Release of formaldehyde	EN 717-2, EN 13986+A1		Class E1
Reaction to fire	EN 13986+A1		Class D-s2, d0
Water vapour permeability	EN 13986+A1		Wet cup - 70 Dry cup - 200
Biological durability	EN 13986+A1		Class 3
Content of pentachlorophenol (PCP)	EN 13986+A1		Not contain

## ▪ Deflection tables $M_{max} = 0,077pl^2$

Loads (N/mm <sup>2</sup> )	Position of supports (mm)								
	200	250	300	350	400	450	500	550	600
<b>15 mm plywood longgrain</b>									
10	0,06	0,14	0,28	0,52	0,89	1,42	2,16	3,17	4,49
20	0,11	0,27	0,56	1,04	1,77	2,84	4,33	6,33	8,97
30	0,17	0,41	0,84	1,56	2,66	4,26	6,49	9,50	13,46
40	0,22	0,54	1,12	2,08	3,54	5,68	8,65	12,67	17,94
50	0,28	0,68	1,40	2,60	4,43	7,10	10,82	15,84	22,43
60	0,33	0,81	1,68	3,12	5,32	8,52	12,98	19,00	26,92
<b>15 mm plywood shortgrain</b>									
10	0,09	0,22	0,45	0,83	1,42	2,27	3,47	5,08	7,19
20	0,18	0,43	0,90	1,66	2,84	4,55	6,93	10,15	14,38
30	0,27	0,65	1,35	2,50	4,26	6,82	10,40	15,23	21,57
40	0,36	0,87	1,80	3,33	5,68	9,10	13,87	20,30	28,76
50	0,44	1,08	2,25	4,16	7,10	11,37	17,33	25,38	35,94
60	0,53	1,30	2,70	4,99	8,52	13,65	20,80	30,46	43,13
<b>18 mm plywood longgrain</b>									
10	0,03	0,08	0,17	0,31	0,53	0,86	1,30	1,91	2,70
20	0,07	0,16	0,34	0,63	1,07	1,71	2,61	3,82	5,41
30	0,10	0,24	0,51	0,94	1,60	2,57	3,91	5,74	8,11
40	0,13	0,33	0,68	1,25	2,14	3,42	5,22	7,64	10,82
50	0,17	0,41	0,85	1,57	2,67	4,28	6,52	9,55	13,52
60	0,20	0,49	1,01	1,88	3,21	5,13	7,83	11,46	16,23
<b>18 mm plywood shortgrain</b>									
10	0,04	0,09	0,20	0,36	0,62	0,99	1,51	2,21	3,13
20	0,08	0,19	0,39	0,72	1,24	1,98	3,02	4,42	6,26
30	0,12	0,28	0,59	1,09	1,85	2,97	4,53	6,63	9,38
40	0,15	0,38	0,78	1,45	2,47	3,96	6,03	8,83	12,51
50	0,19	0,47	0,98	1,81	3,09	4,95	7,54	11,04	15,64
60	0,23	0,57	1,17	2,17	3,71	5,94	9,05	13,25	18,77
<b>21 mm plywood longgrain</b>									
10	0,02	0,05	0,11	0,20	0,34	0,54	0,83	1,21	1,71
20	0,04	0,10	0,21	0,40	0,68	1,08	1,65	2,42	3,42
30	0,06	0,15	0,32	0,59	1,01	1,63	2,48	3,63	5,14
40	0,08	0,21	0,43	0,79	1,35	2,17	3,30	4,84	6,85
50	0,11	0,26	0,54	0,99	1,69	2,71	4,13	6,04	8,56
60	0,13	0,31	0,64	1,19	2,03	3,25	4,95	7,25	10,27
<b>21 mm plywood shortgrain</b>									
10	0,03	0,07	0,14	0,26	0,44	0,70	1,07	1,56	2,21
20	0,05	0,13	0,28	0,51	0,87	1,40	2,13	3,12	4,42
30	0,08	0,20	0,41	0,77	1,31	2,10	3,20	4,68	6,63
40	0,11	0,27	0,55	1,02	1,75	2,80	4,27	6,25	8,85
50	0,14	0,33	0,69	1,28	2,18	3,50	5,33	7,81	11,06
60	0,16	0,40	0,83	1,54	2,62	4,20	6,40	9,37	13,27
Loads (N/mm <sup>2</sup> )	200	250	300	350	400	450	500	550	600
<b>Position of supports (mm)</b>									

## ▪ Other

Other conditions can be agreed between the parties.