PAGED MULTI FORM

1 Scope and field of application

Technical specification for phenolic resin cross-bonded weather resistant plywood glueing according to EN 314-2/ class 3, EN 636-3

2 Structure - base board

Cross build plywood, where all layers are made of soft wood in thickness from 2,5 to 3,2 depends of panel thickness. Plywood covered with a phenolic film Arclin™ Readyform 3323 represents the industrial standard in concrete form overlay performance. Used film is newly developed Medium Density Overlay (MDO) unlike any other existing overlay. Properties of used film made such plywood: more resistand to mechanical damages, abrasion moisture and water, high temperature, bursting and higher resistant to most popular chemicals as solvent and acid. Other issue with number of reuses PAGED MULTI FORM will depend of such acting as: good site of practice, require concrete finish, careful handing, storage form.

3 Materials

3.1 Plywood MULTI FORM: pine

3.2 Surface

- Arclin™ Readyform 3323
- Arclin™ Readyform 3323 / standard brown phenolic film.

4 Types of the surface structure

- both sides smooth (smooth/smooth)

5 Dimensions and tolerances

5.1 Formats

1250 x 2500 mm 1220 x 2440 mm

Tolerance acc. to EN 315 ± 3,5 mm

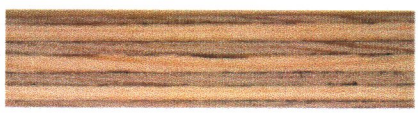
thickness	numbers of plies	thickness plies	panel assembly - cross grain soft wood | long grain soft wood	tolerance of nominal thickness (mm) EN-315
15	5	– 2 x 3,2 mm | 3 x 3,2 mm	|-|-|	14,2 - 15,7
18	7	– 3 x 2,5 mm | 2 x 2,5 mm | 2 x 3,2 mm	|-|-|-|	17,0 - 18,7
21	7	– 3 x 3,2 mm | 4 x 3,2 mm	|-|-|-|	20,0 - 21,8

5.2 Squareness: ± 1mm / 1m acc. to. PN-EN 315, PN-EN 324-2

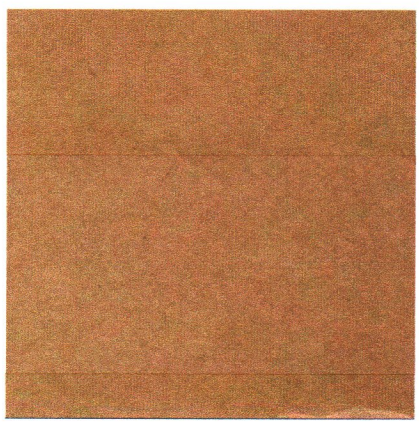
6 Distortion - cup, bow, twist

Up to 10 mm per 1m diagonal

Mechanical properties of PAGED MULTI FORM in standard thicknesses, moisture content



Nominal thickness (mm)	Mean modules of elasticity bending acc. to EN789 (N/mm²)		Characteristics strenght bending acc. to EN789 (N/mm²)	
	Em||	Em|–	fm||	fm|–
15	10571	2625	36,5	10,5
18	7759	3225	27,9	14,9
21	7789	4158	24,2	23,4



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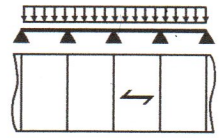
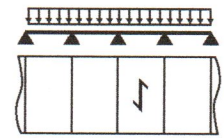
Face grain parallel to the span (II)



grain direction of surface veneers

Face grain perpendicular to the span (I –)



grain direction of surface veneers

7 **Formaldehyde relase:** Formaldehyde class E1 acc. to PN-EN 636

8 **Moisture content plywood:** 4-12%

9 **Density:** 520-565 kg/m^3

10 **Other conditions can be agreed between the parties**

Table 1 - M max = 0,077pl^2, 15 mm plywood (longgrain)

loads	plywood deflection position of supports (mm)								
(N/mm^2)	200	250	300	350	400	450	500	550	600
10	0,04	0,10	0,21	0,38	0,65	1,04	1,58	2,32	3,28
20	0,08	0,20	0,41	0,76	1,30	2,08	3,17	4,64	6,57
30	0,12	0,30	0,62	1,14	1,95	3,12	4,75	6,96	9,85
40	0,16	0,40	0,82	1,52	2,60	4,16	6,34	9,28	13,14
50	0,20	0,50	1,03	1,90	3,24	5,20	7,92	11,60	16,42
60	0,24	0,59	1,23	2,28	3,89	6,24	9,50	13,91	19,71

Table 2 - M max = 0,077pl^2, 15 mm plywood (shortgrain)

loads	plywood deflection position of supports (mm)								
(N/mm^2)	200	250	300	350	400	450	500	550	600
10	0,05	0,12	0,24	0,44	0,76	1,21	1,85	2,71	3,84
20	0,09	0,23	0,48	0,89	1,52	2,43	3,70	5,42	7,67
30	0,14	0,35	0,72	1,33	2,27	3,64	5,55	8,13	11,51
40	0,19	0,46	0,96	1,78	3,03	4,85	7,40	10,83	15,34
50	0,24	0,58	1,20	2,22	3,79	6,07	9,25	13,54	19,18
60	0,28	0,69	1,44	2,67	4,55	7,28	11,10	16,25	23,02

Table 3 - M max = 0,077pl^2, 18 mm plywood (longgrain)

loads	plywood deflection position of supports (mm)								
(N/mm^2)	200	250	300	350	400	450	500	550	600
10	0,02	0,06	0,13	0,23	0,40	0,64	0,97	1,43	2,02
20	0,05	0,12	0,25	0,47	0,80	1,28	1,95	2,85	4,04
30	0,07	0,18	0,38	0,70	1,20	1,92	2,95	4,28	6,06
40	0,10	0,24	0,51	0,94	1,60	2,56	3,90	5,71	8,08
50	0,12	0,30	0,63	1,17	2,00	3,50	4,87	7,13	10,10
60	0,15	0,37	0,76	1,40	2,39	3,84	5,85	8,56	12,12

Table 4 - M max = 0,077pl^2, 18 mm plywood (shortgrain)

loads	plywood deflection position of supports (mm)								
(N/mm^2)	200	250	300	350	400	450	500	550	600
10	0,03	0,07	0,16	0,29	0,49	0,79	1,20	1,76	2,49
20	0,06	0,15	0,31	0,58	0,98	1,57	2,40	3,51	4,97
30	0,09	0,22	0,47	0,86	1,47	2,36	3,60	5,27	7,46
40	0,12	0,30	0,62	1,15	1,96	3,15	4,79	7,02	9,94
50	0,15	0,37	0,78	1,44	2,45	3,93	5,99	8,78	12,43
60	0,18	0,45	0,93	1,73	2,95	4,72	7,19	10,53	14,91

Table 5 - M max = 0,077pl^2, 21 mm plywood (longgrain)

loads	plywood deflection position of supports (mm)								
(N/mm2)	200	250	300	350	400	450	500	550	600
10	0,01	0,03	0,07	0,13	0,22	0,36	0,54	0,79	1,12
20	0,03	0,07	0,14	0,26	0,44	0,71	1,08	1,59	2,25
30	0,04	0,10	0,21	0,39	0,67	1,07	1,63	2,38	3,37
40	0,06	0,14	0,28	0,52	0,89	1,42	2,17	3,18	4,50
50	0,07	0,17	0,35	0,65	1,11	1,78	2,71	3,97	5,62
60	0,08	0,20	0,42	0,78	1,33	2,14	3,25	4,77	6,75

Table 6 - M max = 0,077pl^2, 21 mm plywood (shortgrain)

loads	plywood deflection position of supports (mm)								
(N/mm^2)	200	250	300	350	400	450	500	550	600
10	0,02	0,05	0,10	0,18	0,31	0,49	0,75	1,09	1,55
20	0,04	0,09	0,19	0,36	0,61	0,98	1,49	2,18	3,09
30	0,06	0,14	0,29	0,54	0,92	1,47	2,24	3,28	4,64
40	0,08	0,19	0,39	0,72	1,22	1,96	2,98	4,37	6,19
50	0,10	0,23	0,48	0,90	1,53	2,45	3,73	5,46	7,74
60	0,11	0,28	0,58	1,07	1,83	2,94	4,48	6,55	9,28

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