

▶ PAGED TWIN

▪ Scope

Cross build plywood with outer plies made of birch 1,5 mm, core is 2,5 mm softwood plies. The structure of the board provides excellent performance properties. Compare a regular hardwood plywood is much lighter with good properties of modulus of elasticity in bending and bending strength.

▪ Field of application

- ▶ furniture, ▶ transport industry,
- ▶ interior finishing, ▶ construction.
- ▶ boat building,

▪ Materials

Manufactured in type of gluing:

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

▪ Types of the surface structure

Hardwood EN 635-2

Class	Permissible characteristic and defects
I	Sound intergrown knots up to 15 mm \varnothing , 30 mm cumulative \varnothing/m^2
	Filled unsounds knots up to 6 mm \varnothing , 2/ m^2
	Filled splits up to 3 mm width, 1/10 panel length, 3/m
	Colour matched plugs (repairs) 3/ m^2
	Discoloration if low contrast
	Defects at the edges up to 2 mm
II	Sound intergrown knots up to 30 mm \varnothing
	Filled unsound knots and knot holes up to 10 mm \varnothing , 3/ m^2
	Filled splits up to 5 mm width, 1/5 panel length, 3/m
	Colour matched plugs (repairs) 6/ m^2
	Discoloration if low contrast
	Defects at the edges up to 5 mm
III	Sound intergrown knots up to 50 mm \varnothing
	Filled unsounds knots and knot holes up to 40 mm \varnothing
	Filled splits up to 20 mm width, 1/3 panel length, 3/m
	Plugs (repairs)
	Discoloration
	Glue penetration up to 5% panel surface
	Sanding through up to 1% panel surface
Defects at the edges up to 5mm	
IV	Practically with many defects

Attention! Colour of surface can be changed because of sunbeams.



▪ Characteristic

Parameters	Norm	Unit	Value									
Panel thickness	EN 315	mm	9	12	15	18	21	24	27	30	35	40
Gluing	EN 314		Class 3									
Numbers of plies*			5	6	7	9	9	11	12	13	17	19
Wood species			Combi - hardwood / softwood									
Density		kg/m ³	550 - 650									
Standard sizes		mm	1250 x 2500					1220 x 2440				
Characteristic bending strength												
cross grain	EN 789	N/mm ²	28,5	33,1	39,3	25,3	31,6	30,5	25,9	27,4	27	27
long grain	EN 789		21,3	20,4	36,5	35,1	32,2	33,0	30,1	29,3	30,2	30,2
Mean MOE in bending												
cross grain	EN 789	N/mm ²	6438	6541	11267	10404	9327	8357	8344	8317	8158	8158
long grain	EN 789		5327	5774	10317	9169	8531	7244	8419	8246	7940	7940
Air sound solution		dB	250 - 500 Hz - 0,10					1000 - 2000 Hz - 0,30				
Thermal conductivity		W/m·K	0,13									
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 2									
Content of pentachlorophenol (PCP)	EN 13986+A1		Not contain									

▪ Other

Other conditions can be agreed between the parties.

*in class IV a change of structure is allowed