

FICHA TÉCNICA

TABLERO CONTRACHAPADO DE ABEDUL

DESCRIPCIÓN

Tablero Contrachapado compuesto de chapas de madera de abedul entrecruzadas que le confieren una alta estabilidad.

100% abedul, que le confiere unas altas prestaciones fisicomecánicas.

Lijado por ambas caras lo que le confiere una apariencia estética atractiva y agradable



ESPECIFICACIONES

VENTAJAS

- Caras libres de nudos.
- Gran estabilidad dimensional y alta resistencia a la flexión, tracción y compresión.
- Construcción interna y externa sin fallas de material.
- Resistencia al agua WBP : uso exterior Clase IIII.

DENSIDAD

· 640 - 760 kg / m³

DIMENSIONES

Espesor mm	4	6,5	9	12	15	18	21	24	30
Nº de chapas	3	5	7	9	11	13	15	17	21
Medidas tablero	2500 x 1250 mm		-		3050 x 1525 mm				

ADHESIVO

· Adhesivo fenol formaldehído. Clase de emisión E1, que cumple la normativa de emisión EN 717, CARB II Título VI de la EPA TSCA

CLASIFICACION FUEGO · Clasificación para suelos Bfl-s1

CERTIFICACIONES

· PEFC y FSC

GRADOS

BB Cara vista para interiores y para el revestimiento con recubrimientos y películas.
revestimiento

APLICACIONES

· Paneles para el recubrimient Muebles Carpintería Construcción

PHYSICAL AND MECHANICAL PROPERTIES OF PLYWOOD

PROPERTIES	VALUES										REMARKS	MEASURED ACCORDING TO STANDARD
Moisture content	4 - 12%											PE-EN 322
Density	550 - 800 kg/m ³											PN-EN 323
Numbers of piles - according to panel thickness Markings: „l” and „-” 1,5 mm piles	Nominal thickness (t) [mm]	Number of piles	Example of panel assembly								Standard thickness of veneer is 1,5 mm	
	4	3	-									
	6,5	5	- -									
	9	7	- - -									
	12	9	- - - -									
	15	11	- - - - -									
	18	13	- - - - - -									
	21	15	- - - - - - -									
	24	17	- - - - - - - -									
	27	19	- - - - - - - - -									
	30	21	- - - - - - - - - -									
	35	25	- - - - - - - - - - -									
	40	27	- - - - - - - - - - - -									
45	31	- - - - - - - - - - - - -										
Tolerances on length and width of the panel	± 3,5 mm											PN-EN 315 PN-EN 324-1
Thickness tolerance	Nominal thickness (t) [mm]	Unsanded panels			Sanded panels							PN-EN 315 PN-EN 324-1
		Thickness tolerance within one panel [mm]	Tolerances on nominal thickness [mm]	Thickness tolerance within one panel [mm]	Tolerances on nominal thickness [mm]							
	≥ 3 ≤ 12	1,0	+ (0,8 + 0,03t) - (0,4 + 0,03t)	0,6	+ (0,2 + 0,03t) - (0,4 + 0,03t)							
	≥ 12 ≤ 25	1,5		,8	+ (0,0 + 0,05t) - (0,4 + 0,05t)							
	≥ 25 ≤ 30				+ (0,0 + 0,03t) - (0,4 + 0,03t)							
> 30												
For sanded panels:												
Thickness (t) [mm]	4	6,5	9	12	15	18	21	24	27	30	35	
Tolerance [mm]	+ 0,3 - 0,7	+ 0,9 - 0,6	+ 0,5 - 0,7	+ 0,6 - 0,7	+ 0,7 - 0,8	+ 0,7 - 0,9	+ 0,8 - 0,9	+ 0,9 - 1,5	+ 1,4 - 1,7	+ 1,5 - 1,9	+ 1,1 - 1,5	
Tolerance for straightness of edges and squareness	1 mm/m											PN-EN 315 PN-EN 324-2
Bending strength	30 - 100 MPa										Depending on type of wood used for particular plywood plate	PN-EN 310
Tensile strength	30 - 60 MPa											
Compression strength	25-50 MPa											
Modulus of elasticity in bending	3500 - 10000 MPa											

PHYSICAL AND MECHANICAL PROPERTIES OF PLYWOOD

PROPERTIES	VALUES		REMARKS	MEASURED ACCORDING TO STANDARD
Dimensional changes associated with changes in relative humidity	do 0,5%			PN-EN 318
Formaldehyde emission class	Emission class A $\leq 3,5$ mg HCHO/m ² ·h; Standard formaldehyde emission acc. to CARB Phase 2 ($\leq 0,5$ mg/m ² ·h)		Hygienic class E1	PN-EN 717-2
Bonding quality	Mean shear strength f_v [N/mm ²]	Mean apparent cohesive wood failure [%]		PN-EN 314-2
	$0,2 \leq f_v < 0,4$ $0,4 \leq f_v < 0,6$ $0,6 \leq f_v < 1,0$ $1,0 \leq f_v$	>80 >60 >40 no requirement		
Reaction to fire class	D-s2,d0 D - products which can resist in a long time reaction of a small flame, without significant propagation of flame. They can resist thermal reaction of single flaming objects with sufficient thermal emission s2 - all quantity of smoke and increase factor of smoke emission are limited d0 - there are not flaming drops/particles		Thickness ≥ 9 mm Density ≥ 400 kg/m ³	PN-EN 13986 EN 13501 - 1
	F - products for which is not given reaction to fire class		Thickness ≥ 9 mm	
Water vapour resistance factors	Mean density [kg/m ³]	Resistance factor on water vapour penetration μ		PN-EN 13986 EN 12524
		for high air moisture content	for low air moisture content	
	300	50	150	
	500	70	200	
	700	90	220	
1000	110	250		
Sound absorption coefficient	Frequency range 250 Hz to 500 Hz	Frequency range 1000 Hz to 2000 Hz		PN-EN 13986
	0,10	0,30		
Airborne sound insulation	The sound transmission loss R a single wood-based panel, measured in dB, is related to the mean surface mass m_A in kg/m ² according to the following equation: $R = 13 \times \lg(m_A) + 14$ (which is only valid for frequency range of 1 kHz to 3 kHz at a surface mass > 5 kg/m ²)			PN-EN 13986 EN ISO 140-3 EN ISO 717-1
Thermal conductivity	Mean density [kg/m ³]	Thermal conductivity λ [W / (m °K)]		PN-EN 13986 EN 12664
	300	0,09		
	500	0,13		
	700	0,17		
	1000	0,24		

PLYWOOD – CLASSIFICATION BY SURFACE APPEARANCE

HARDWOOD - EN 635-2	
Class	Permissible characteristic and defects
E	Practically without defect
I	Sound intergrown knots up to 15 mm Ø, 30 mm cumulative Ø/m ²
	Filled unsound knots up to 6 mm Ø, 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 35 mm Ø
	Filled unsound knots and knot holes up to 10 mm Ø, 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 Ø
	Filled unsound knots and knot holes up to 40 mm Ø
	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 5 mm
IV	Practically with many defects

SOFTWOOD - EN 635-3	
Class	Permissible characteristic and defects
E	Practically without defect
I	Sound intergrown knots up to 15 mm Ø, 30 mm cumulative Ø/m ²
	Filled unsound knots up to 6 mm Ø, 2/m ²
	Filled splits up to 3 mm width, 1/10 panel length, 3/m
	Colour matched plugs (repairs) 5/m ²
	Discoloration if low contrast
	Defects at the edges up to 2 mm
II	Sound intergrown knots up to 50 mm Ø
	Filled unsound knots and knot holes up to 25 mm Ø, 6/m ²
	Filled splits up to 10 mm width, 1/3 panel length, 3/m
	Plugs (repairs)
	Discoloration if low contrast
	Defects at the edges up to 5 mm
III	Sound intergrown knots up to 60 mm Ø
	Filled unsound knots and knot holes up to 40 mm Ø
	Filled splits up to 15 mm width, 1/2 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 5 mm
IV	Practically with many defects