

Wood-based panels consisting of layers of wood glued together (outer and inner veneers), with the fibers of the adjacent layers usually running at right angles. The veneers (outer veneers) are made of birch, alder or beech wood. The surface of the plywood is covered with a phenolic film, which protects against the adverse effects of weather conditions, increases the resistance to abrasion of the surface, and facilitates cleaning. The right side of panel can be smooth or wire mesh - in the production process is imprinted a wire mesh or a hex pattern.

Types of plywood depending on the type of bonding:

- weather-boil-proof - on the basis of phenol-formaldehyde resin, for use in exterior conditions (according to PN-EN 636), meeting the requirements of 3 gluing class quality according to PN-EN 314-2

Types of plywood depending on surfaces quality:

Plywood is produced in quality class A and B according to ZN-2011/BZS-ST-2

Types of plywood depending on type of surface:

- one-side foiled smooth
- one-side foiled with a wire mesh imprint
- one-sided foil with a hexa imprint
- smooth on both sides
- double-sided foiled with one-sided wire mesh imprint
- double-sided foiled with a one-sided hexa-imprint

Type of plywood depending to weight of the phenolic film

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|---|----------------------|
| — plywood foiled with standard phenolic film | 160g/m ² |
| — plywood foiled with a phenolic film with increased resistance to abrasion | 320 g/m ² |
| — plywood foiled with a phenolic film with increased resistance to abrasion | 480 g/m ² |

Type of film

- phenolic transparent
- phenolic brown
- phenolic black

Thickness and tolerances

Plywood is produced in the thickness range from 4 to 35 mm. Thickness tolerances are defined in the standard EN 315.

Humidity

10±5% (according to EN 322).

Density

650 – 800 kg/m³ (according to EN 323).



DATA SHEET - TECHNICAL PLYWOOD - FOILED WITH PHENOL FILM

Some of strength parameters

SKLEJKA LIŚCIASTA Deciduous plywood			ZGINANIE Bending		MODUŁ Modulus	
GRUBOŚĆ Thickness	ILOŚĆ WARSTW * Number of plies	UKŁAD WARSTW * Lay-up	$f_{m,0}$	$f_{m,90}$	$E_{m,0}$	$E_{m,90}$
			N/mm ²	N/mm ²	N/mm ²	N/mm ²
4	3	I-I	90,1	15,2	11323	1121
5	4	I-I-I	88,2	16,3	9565	4315
6	5	I-I-I-I	84,8	26,1	9787	5714
9	7	I-I-I-I-I	78,6	33,2	9486	5930
12	9	I-I-I-I-I-I	76,2	40,8	9170	6114
15	11	I-I-I-I-I-I-I	74,2	42,6	8710	6490
18	13	I-I-I-I-I-I-I-I	68,4	53,3	8542	6713
21	15	I-I-I-I-I-I-I-I-I	64,5	54,4	8443	6853
24	17	I-I-I-I-I-I-I-I-I-I	62,7	54,3	8453	6896
27	19	I-I-I-I-I-I-I-I-I-I-I	60,7	57,5	8300	6900
30	21	I-I-I-I-I-I-I-I-I-I-I-I	60,5	57,9	8218	7071
35	23	I-I-I-I-I-I-I-I-I-I-I-I-I	59,6	61,2	8124	7321

* the number and arrangement of the layers may be different from that shown

Standard formats

2500x1250mm, 1250x2500mm, 2440x1220mm, 1220x2440mm, 2130x1250mm, 1250x2130mm or as agreed with the customer.

Length and width tolerance: $\pm 3,5$ mm (acc. to EN 315).

Edge straightness: $\pm 1,0$ mm/m of side length (acc. to EN 315).

Processing options:

Cutting into smaller formats; simple and profile processing of edges, drilling holes, milling grooves, grooves, rebates; machining on CNC machining centers. Narrow surfaces are protected as standard with waterproof acrylic paint. Painting narrow planes aims to reduce moisture absorption during transport and storage. After additional processing of the plywood, the recipient should protect narrow surfaces (edges, holes, etc.).

Application

Construction, floors, formwork systems, scaffolding platforms, packaging, boatbuilding, vehicle construction, shipbuilding, playgrounds, production of wooden accessories and others.

