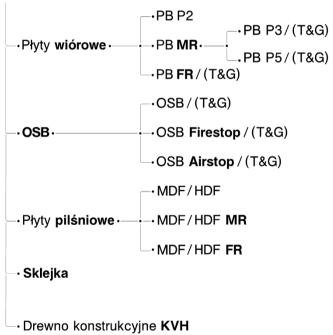


SUSTAINABLE DECORATIVE PLYWOOD



Kronobuild® Product Range

Kronobuild scots pine plywood is a new development among building and construction materials in Kronobuild range.









Kronobuild® Decorative Plywood

Kronobuild decorative plywood is a softwood layered board. Plywood panels based on thick-layered veneer is our speciality.

Kronobuild decorative plywood is a unique combination of the following advantages:

- product
- quality
- environmental

Kronobuild decorative plywood assortment is based on the natural features and properties of softwood.







PRODUCT ADVANTAGES

SUSTAINABLE DECORATIVE PLYWOOD

Kronobuild plywood range is based on three product groups, classified by surface aesthetics characteristics:

- pure beauty
- natural
- rustical

Additionally, our product offer includes fourth class – strong, a perfect material for construction projects.



Class I: pure beauty



Class III: rustical



Class II: natural



Class IV: strong





Class I: pure beauty

- selected and uniform surface with mildly accented wood grain.
- perfect for "pure visual look" fans
- the least frequent and most selected type of surface







Class II: natural

- surface with a balanced combination of wood features with visible graining
- selected combination of all features, that can occur in natural wood

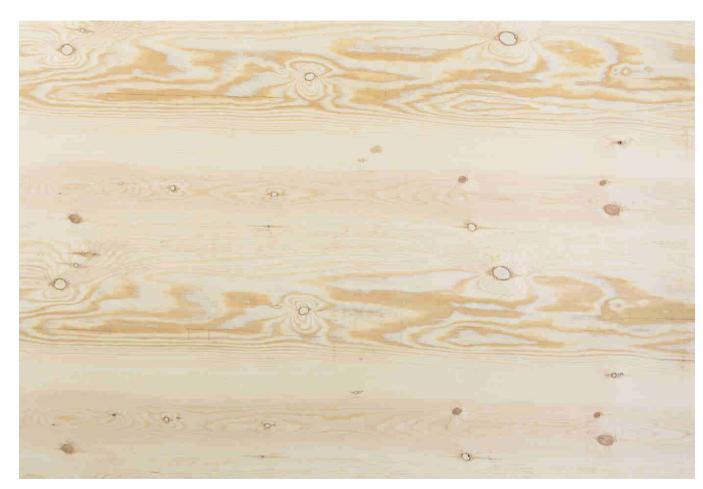






Class III: rustical

- surface that brings together all the features variations of natural wood
- the most dynamic and diverse
- suitable for projects, where the wood pattern is to be expressive and noticable
- more accessible and most common







Class IV: strong

- construction plywood used for structural and building elements, as well as packaging and temporary buildings
- can also be used as a finishing material in projects where no additional installation is required







Thanks to modern technology and use of high-power production equipment, Kronobuild decorative plywood is produced based on high-quality thick-layer veneer.

Advantages of Kronobuild decorative plywood:

 high-quality egde thanks to stable and uniform thickness of veneer







great aesthetics when 5D processing









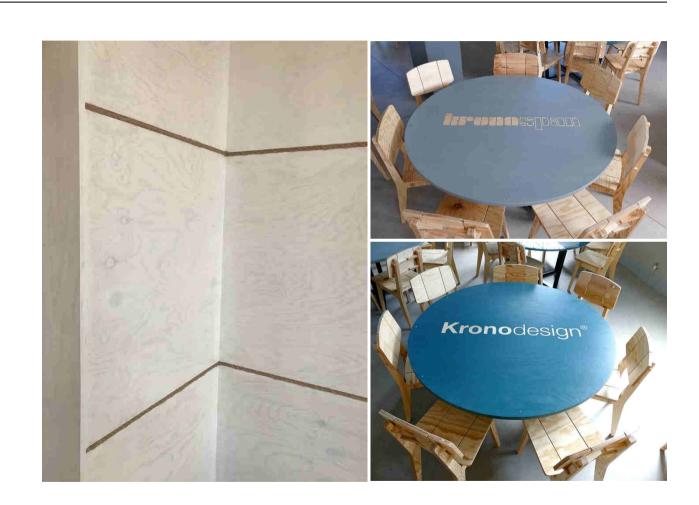
suitable for deep surface processing e.g. by grinding, brushing or sanding





Suitable for refining by painting, oiling waxing





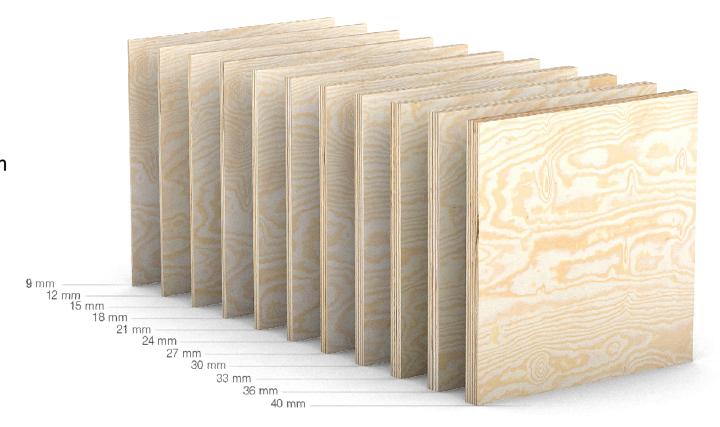




Product advantages - Kronobuild® plywood formats

Wide thickness range:

- Kronobuild plywood is available in the thickness range from 9 mm to 40 mm
- this allows a very wide range applications, both in construction and interior design industries







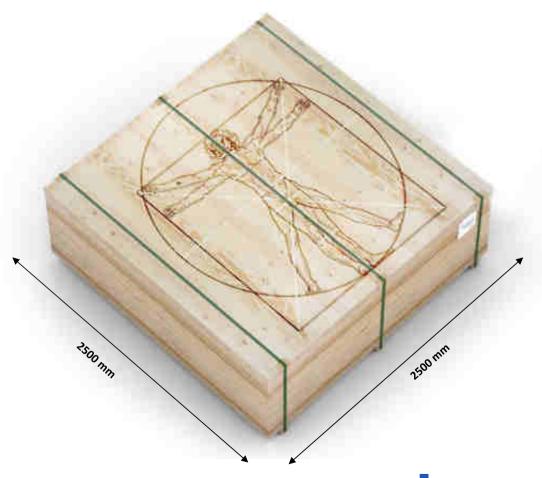
Product advantages - Kronobuild® plywood formats

Large panel format:

The production of thick-layer plywood in a large format 2500x2500 mm (jumbo) is possible due to full automation process and and modern production solutions.

- 2500x2500 mm size enables manufacturing of large size elements in industrial production
- the use of a large format reduces the costs associated with waste on cutting

This type of assortment if difficult to achieve in manual production. Kronospan replaced hard physical labor with automation and robotization of proces.







QUALITY ADVANTAGES

SUSTAINABLE DECORATIVE PLYWOOD



Stable thickness and even panel edge



Very precise veneer preparation thanks to the latest technical solutions









High-quality surface – panels are ground at the highest parameters of process accuracy



Stable strength parameters











Possibility of veneer repair in all layers – *plywood plus* version without defects



Highest class of moisture resistance (3rd class)

– suitable for external use







	Parameter	Test method	Description	
1	Plywood variety		Softwood (90% pine + 10% spruce)	
2	Plywood type		Moisture-resistant – phenolic resin	
3	Surface parameters: length and width		2440 x 1220 mm, 1220 x 2440 mm, 2500 x 1250 mm, 1250 x 2500 mm, 2500 x 2500 mm	
4	Thickness (mm)/number of layers		9/3, 12/4, 15/5, 18/6, 21/7, 24/8, 27/9, 30/10, 33/11, 36/12, 39/13	
5	Veneer thickness		3.2 mm	
6	Quality classes	EN 635-3	I/II, I/III, II/II, II/III, II/IV, III/III, III/IV, IV/IV	
7	Density	EN 323	520-550 kg/m3	
8	Moisture content	EN 322	5-12%	
	Bending resistance			
9	- along fibers	EN 310	40-50 MPa 22-35 MPa	
	- across fibers		22-35 MPa	
	Modulus of elasticity			
10	- along fibers	EN 310	5000-7000 MPa 2500-3500 MPa	
	- across fibers			
11	Flammability class	EN 13501-1	D-S1, d0	
	Size tolerances		_	
12	- length/width	EN 324-1	+- 3 mm	
	- thickness		+0.3/-0.8	
13	Rectangularity	EN 324-2	2 mm/m	





Very low emission levels confirmed by certificates:

- FSC Mix Credit
- PEFC
- · CARB 2
- CE 2+
- E1
- EN 712-1
- EN 16516







Znak odpowiedzialne



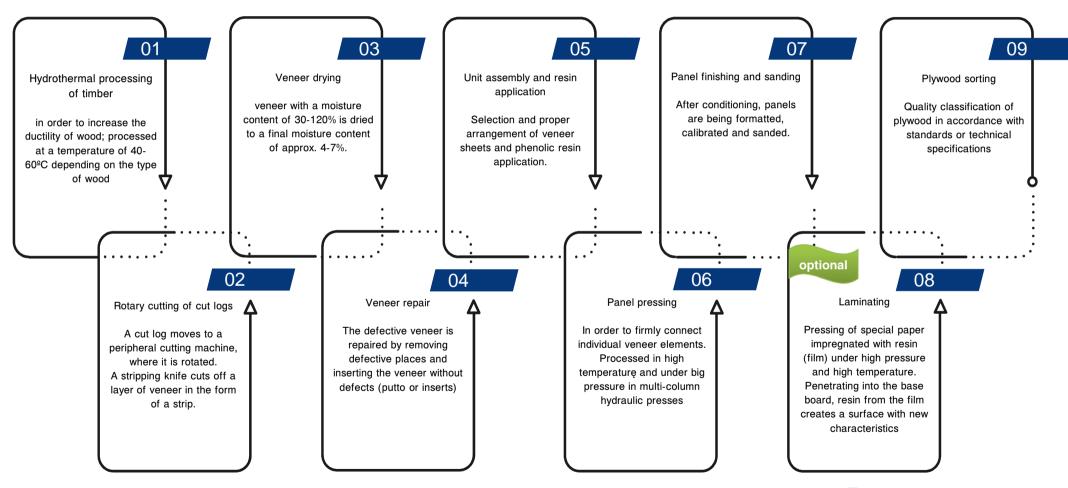




CERTIFICATE











ENVIRONMENTAL ADVANTAGES

SUSTAINABLE DECORATIVE PLYWOOD

Product Sustainability

Kronobuild plywood is produced in accordance with the idea of sustainable development and is in full harmony with the environment

Plywood Kronobuild is produced only on the basis of timber, coming from legal sources, certified with FSC and PEFC







Product Sustainability

Timber, used for the production of Kronobuild plywood, permanently binds carbon dioxide, which is harmful to the environment.

Wood contained in 1m³ of plywood permanently binds 1 ton of CO₂, thanks to which greenhouse effect is reduced.







Product Sustainability

2 times less wood is needed for the production of Kronobuild plywood than for the production of glued wood panels



2 times less binder is needed for the production of Kronobuild thick layer veneer plywood than for standard plywood production



Kronobuild plywood is made with knives, not saws, so that no sawdust is generated, as with standard wood processing







Product Sustainability

The large format 2500x2500mm of Kronobuild plywood gives better optimization of the board cutting, which significantly reduces the waste costs.





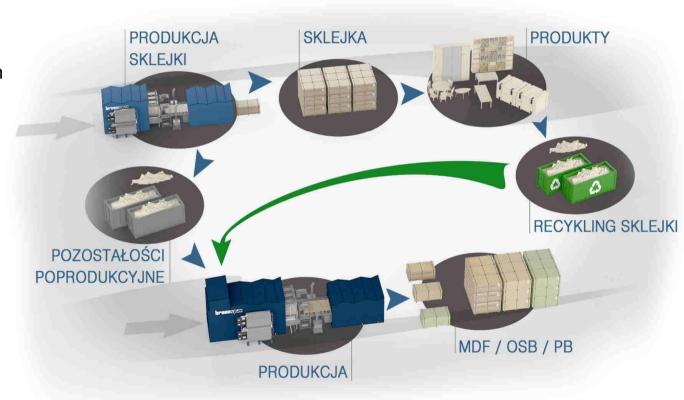


Product Sustainability

Creating Kronobuild plywood, Kronospan paid special attention to the product life cycle and recycling.

We use all post-production residues, such as barks, wood chips or defective veneer - they are processed on site as a raw material for other production processes.

Wooden logs are sold as a product used in garden architecture.







Product Sustainability

Kronobuild plywood is a pure, natural product without any additional coating, laminating or veneering. It is fully recycable, when finished with natural oils.

Kronospan recycles plywood, processing it into OSB or particle board, for example. This recycling process can be repeated several times, only in the final stage of life, the product should be used as biomass for energy production.

- to ensure ease of recycling, refined plywood should be finished only with natural materials such as oils or waxes
- plywood-based furniture made without plastics is recyclable







PLYWOOD APPLICATION

SUSTAINABLE DECORATIVE PLYWOOD

Kronobuild® decorative plywood application

The combination of product, quality and environmental advantages gives unlimited application possibilities and thus plywood can be used in various industries:

- in furniture production
- in interior design
- in building and construction
- in packaging production
- in means of transport and boatbuilding
- DIY industry
- in advertising: billboards, trade fair exhibitions and temporary buildings







Kronobuild® decorative plywood application – furniture and interior design







Kronobuild® decorative plywood application – furniture and interior design







Kronobuild® decorative plywood application – furniture and interior design







Kronobuild® decorative plywood application - packaging







Kronobuild® decorative plywood application - construction







Kronobuild® decorative plywood application - construction





Kronobuild® decorative plywood application - exhibition





Kronobuild® decorative plywood application - exhibition





Kronobuild® decorative plywood application - exhibition







LOGISTIC DATA

SUSTAINABLE DECORATIVE PLYWOOD

Kronobuild® decorative plywood logistic data

Thickness	Number of	Packaging			
	layers	pcs./pal	m3/pal	ton/pal	pal/auto
9 mm	3 layers	78	2,19	1,2	17
12 mm	4 layers	58	2,18	1,2	17
15 mm	5 layers	46	2,16	1,2	17
18 mm	6 layers	39	2,19	1,2	17
21 mm	7 layers	33	2,17	1,2	17
24 mm	8 layers	29	2,18	1,2	17
27 mm	9 layers	26	2,19	1,2	17
30 mm	10 layers	23	2,16	1,2	17
33 mm	11 layers	21	2,17	1,2	17
36 mm	12 layers	19	2,14	1,2	17
39 mm	13 layers	18	2,19	1,2	17









Thank you for your attention

Kronodesign® Mobile App







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