Paged
PLYWOOD

Fire Hazard Level HL3 [EN 45545-2]
Application group R10 [EN 45545-2]
Fire reaction class Bfl-s1 [EN 13501-1]
E20 118RII homologation
Declaration of Performance
CARB EPA
PEFC
FSC www.fsc.org FSC® C010283
Znak odpowiedzialnej gospodarki leśnej

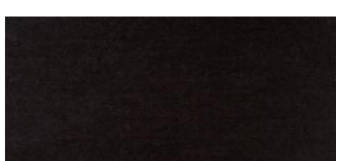
Paged Master Form FR

Hardwood plywood with phenolic film, fire-resistant

Fire-retardant, thin-ply hardwood plywood with a waterproof bond, faced with phenolic film with enhanced fire resistance.

Paged Master Form FR plywood is manufactured for flooring applications in structural elements, with a fire reaction class of B_{fl}-s1 in accordance with EN 13501-1, and meets the highest fire hazard level, HL3, in application group R10 in accordance with the railway standard EN 45545-2.

For applications with higher durability requirements, it is possible to design and select a customised panel construction.



› Advantages:

Fire resistance
Wear resistant
Ecological manufacturing process
Dimensional stability
High strength

› Standard formats* [mm]

1250 x 2500 | 1500 x 2500
1250 x 3000 | 1500 x 3000
1500 x 3300

*Non-standard sizes available on request.

› Industries and applications:

Railway
Construction
Packaging
Versatile use

› Technical specifications:

	Double-sided phenolic film	Impregnation on one side, film on the other
Type of raw material	Birch	Beech or birch
Quality class [EN 635-3]	F/F**	F/II**
Reaction to fire class [EN 45545-2]	HL3 (R10)	
Reaction to fire class [EN 13501-1]	B_{fl}-s1	n/a
Type of face	Phenolic film	Phenolic film / Fire-retardant impregnating agent
Base weight:	220 g/m2	
Colour	Black | Dark brown	

IMPORTANT! If the product is cut into smaller formats or otherwise modified, the edges must be re-sealed.
**in accordance with the surface classification catalogue for film-faced plywood available at www.pagedplywood.com.

BIRCH-BASED PRODUCT

› Thickness, number of layers, standard deviations, density [EN 315, EN 323, EN 324]

Nominal thickness (mm)	Number of wood layers (pcs)	Minimum deviation from nominal thickness (mm)	Maximum deviation from nominal thickness (mm)	Weight (kg/m2)	Average density* (kg/m3)
9	7	-0.7	+0.5	6.3	640–760
12	9	-0.8	+0.6	8.4	
15	11	-0.9	+0.7	10.5	
18	13	-0.9	+0.7	12.6	
21	15	-1.0	+0.8	14.7	
24	17	-1.1	+0.9	16.8	
27	19	-1.8	+1.4	18.9	
30	21	-1.9	+1.5	21.0	
35	25	-1.5	+1.1	24.5	
40	27	-1.6	+1.2	28.0	
45	31	-1.8	+1.4	31.5	

* average density at 8–12% moisture content
Thickness range for HL3(R10) 9.00–24.00 mm. Thickness range for B_{fl}-s1 9–45 mm.

› Characteristic values for bending strength and modulus of elasticity [EN 789:2005, EN 1058:2010]

Nominal thickness (mm)	Bending strength (MOR) [MPa]	MOE (Modulus of Elasticity) [MPa]
12	II 48.50 ⊥ 34.00	II 10615 ⊥ 7289
15	II 38.90 ⊥ 58.40	II 7866 ⊥ 9377
18	II 45.80 ⊥ 29.20	II 8974 ⊥ 5974
21	II 44.20 ⊥ 30.70	II 9216 ⊥ 6066

> Characteristic values for bending strength and modulus of elasticity (EN 789:2005, EN 1058:2010) for other plywood thicknesses can be found in the Declaration of Performance (DoP) at www.pagedplywood.com

› Dimensional deviations of plywood [EN 315, EN 324]

Length / width	Deviation
< 1,000 mm	± 1 mm
1,000–2,000 mm	± 2 mm
> 2,000 mm	± 3 mm

› Edge straightness and squareness deviations [EN 315, EN 324]

Edge straightness and squareness	± 0.1% or ± 1 mm/m

› Standard formats**** [mm]

1,250 x 2,500 | 1,500 x 2,500
1,250 x 3,000 | 1,500 x 3,000
1,500 x 3,300

****Non-standard sizes available on request.

› Formaldehyde emission class [EN 717-1]

E1

› Bonding quality class [EN 314-2]

CLASS 3

› Processing

- Edge machining
- CNC machining
- Drilling according to customer specifications

› Additional information

1. General Terms of Sale
2. Declaration of Performance
3. Norms and standards

Scan the QR code or click the link:
www.pagedplywood.com

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pagedplywood.com

The parameters presented in the technical data sheet have been developed in accordance with the internal standards of PAGED Plywood S.A. and with reference to the requirements of EN 636 and other applicable plywood standards.

BEECH-BASED PRODUCT

› Thickness, number of layers, standard deviations, density [EN 315, EN 323, EN 324]

Nominal thickness (mm)	Number of wood layers (pcs)	Minimum deviation from nominal thickness (mm)	Maximum deviation from nominal thickness (mm)	Weight (kg/m2)	Average density* (kg/m3)
9	7	-0.7	+0.5	7.2	720–880
12	9	-0.8	+0.6	9.6	
15	11	-0.9	+0.7	12.0	
18	13	-0.9	+0.7	14.4	
21	15	-1.0	+0.8	16.8	
24	17	-1.1	+0.9	19.2	
27	19	-1.8	+1.4	21.6	
30	21	-1.9	+1.5	24.0	

* density at 8–12% moisture content

› Characteristic values for bending strength and modulus of elasticity [EN 789:2005, EN 1058:2010]

Nominal thickness (mm)	Bending strength (MOR) [MPa]	MOE (Modulus of Elasticity) [MPa]
12	II 59,90 ⊥ 50,00	II 10004 ⊥ 7103
15	II 63,00 ⊥ 32,60	II 10135 ⊥ 5322
18	II 64,40 ⊥ 34,60	II 9701 ⊥ 7135
21	II 58,70 ⊥ 51,70	II 8624 ⊥ 6511

> Characteristic values for bending strength and modulus of elasticity (EN 789:2005, EN 1058:2010) for other plywood thicknesses can be found in the Declaration of Performance (DoP) at www.pagedplywood.com

› Dimensional deviations of plywood [EN 315, EN 324]

Length / width	Deviation
< 1,000 mm	± 1 mm
1,000–2,000 mm	± 2 mm
> 2,000 mm	± 3 mm

› Edge straightness and squareness deviations [EN 315, EN 324]

Edge straightness and squareness	± 0.1% or ± 1 mm/m

› Standard formats** [mm]

1250 x 2500 | 1500 x 2500

**Non-standard sizes available on request.

› Formaldehyde emission class [EN 717-1]

E1

› Bonding quality class [EN 314-2]

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› Packaging

The plywood is stacked on pallets adapted to its dimensions. Depending on customer requirements and the method of transport, bundles are protected with cardboard and secured with strapping. The edges are protected with corner guards. The pallet height is 10–12 cm. Standard bundle heights are 60 cm and 40 cm (without pallet). The average pallet weight is 26–30 kg (except for the 1,500 × 3,000 mm format – approx. 46 kg). Loading is carried out at the plant using forklifts. Trucks collecting the plywood must be suitable for side loading (with a minimum loading width of 2.50 m).

› Storage

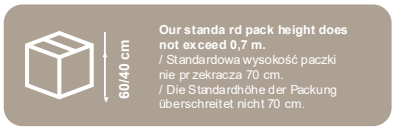
Plywood sheets should be stored in a horizontal position. Do not place the sheets directly on the ground; store them on pallets that are larger than the sheets being stacked. Avoid storing plywood of different sizes, different wood species, or varying water-resistance levels in the same stack. The storage area should protect the plywood from direct exposure to water, excessive humidity, and sharp temperature changes. Plywood should be stored indoors, under controlled air parameters. Air conditioning of storage rooms is essential to balance moisture content and stresses within plywood sheets.

› Transport

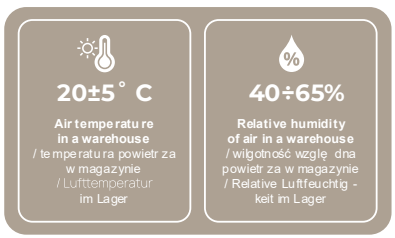
During transport, plywood must be properly secured. Loading and unloading must be done in a way that prevents damage to the sheets. Vehicles transporting plywood should protect the load from water, moisture, and adverse weather conditions. Plywood bundles must be placed horizontally – stacked transport is permitted. Bundles must be secured with straps to prevent shifting during transport. Except for intermodal transport (in containers), plywood is transported using standard truck trailers that allow side unloading. The maximum load is 24 t gross (including packaging). For intermodal transport, higher values may apply.

Product Technical Data Sheet Updated on: 05/05/2026.

› Pallet height



› Storage conditions



› Safety

All work must be carried out in accordance with occupational health and safety regulations.

› Supplementary documents

1. Technical Conditions
2. Plywood Storage Instructions
3. Safety Data Sheet

AVAILABLE ON REQUEST

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